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- CLEVIS PINS
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- HITCH PIN CLIPS
- WIRE FORMS
- DOWEL PINS
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G. L. HUYETT
Contact Information

Phone No.: 785.392.3017

Fax No.: 785.392.2845

Website: WWW.HUYETT.COM

General Store

If it's hard to find...you'll find it here!







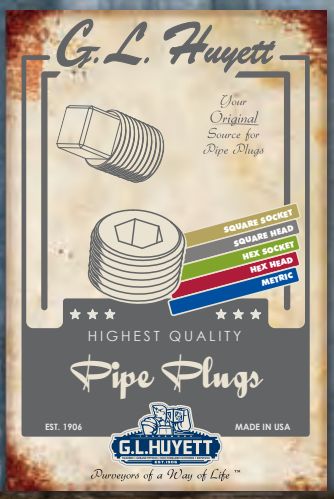




Friendly People from Kansas Answer our Phones









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WHO WE ARE

FRIENDLY PEOPLE FROM KANSAS ANSWER THE PHONE OR E-MAIL

G.L. Huyett is a low-overhead manufacturer, master distributor, and importer of non-threaded industrial fasteners and grease fittings. Located just 50 miles from the geographic center of the United States, we are two days shipping time from 60% of the country.

We were founded by a German immigrant over 100 years ago in a tin shed located in a place some call the Great American Desert. The experience of trying to work the land and make a life here has been formative to our culture and we are here to serve you.

G.L. Huyett has a complete machine shop and we manufacture an array of non-threaded fasteners and special assemblies. Our manufacturing facility is equipped to make exotic material products in Monel™, Inconel™, Carpenter™ 20, and other alloys.



MINNEAPOLIS, KANSAS

WHAT WE DO

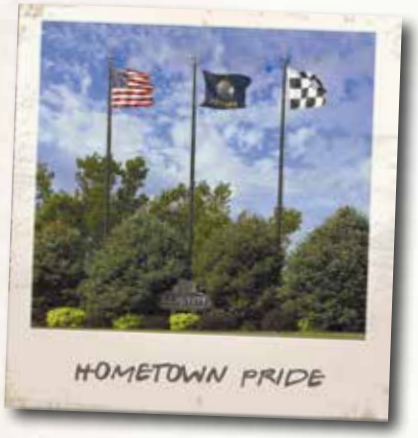
WE SERVE YOU!

We serve our customers by reducing total costs through a combination of competitive prices, value-added services, and an inventory of some 95,000 non-threaded industrial fasteners. We save our customers time and money by offering the opportunity to quote, order, ship, and receive a wide variety of parts on one purchase order.

We serve our partners by providing programs and opportunities to facilitate the achievement of business and professional goals. We have forged relationships with key manufacturers on a worldwide basis so that you can receive the benefit of global sourcing on standard items, and cost effective solutions on short run parts that are made right here in Kansas.

We serve our employees by creating a work environment that is productive, exciting, and full of possibility. We help our employees meet their professional and personal goals through training programs, mentoring, and “employer of choice” pay and benefits.

We serve our community by working with organizations and individuals to create solutions for their local needs. We are committed to helping education, family-life, and local nonprofit organizations in a manner that improves quality of life.



HOMETOWN PRIDE

HOW WE DO IT

WE MAKE YOUR LIFE EASY!

With 95,000 parts in one place, and a complete machine shop to manufacture special orders, you can consolidate items normally purchased from multiple suppliers into one box.

- In stock orders ship next business day.

- All parts ship from one point, on one PO, using one Bill of Lading, and one receipt.

- We answer the phone 7:00 AM to 5:00 PM CST.

- All documented using the "Pack List That Will Change Your Life™"



DEDICATED PROFESSIONALS HERE TO SERVE YOU

TO LEARN MORE, VISIT HUYETT.COM.

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CLEVIS PINS



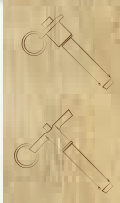
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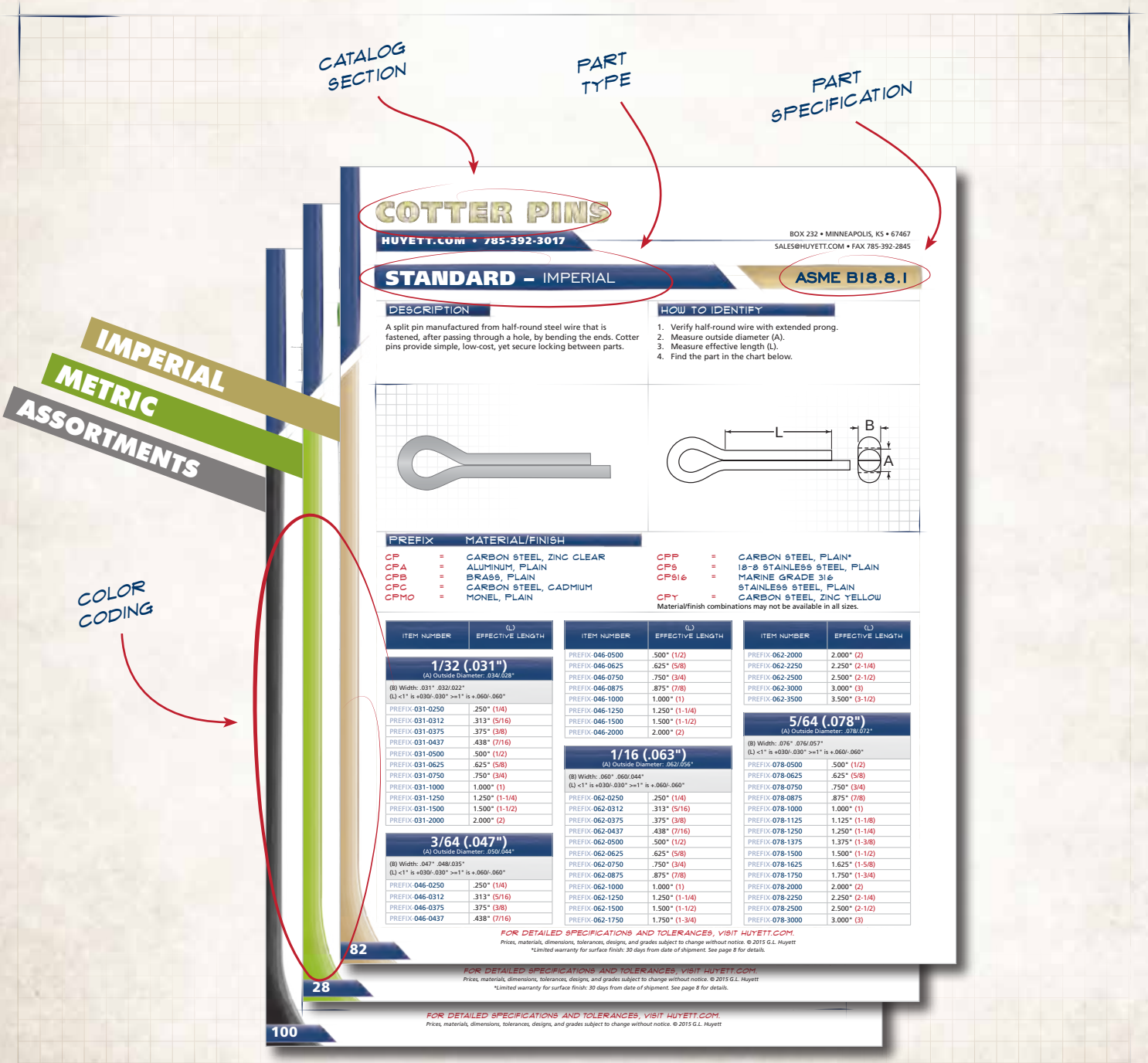
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NAVIGATING THIS CATALOG

This catalog represents years of research and experience by G.L. Huyett staff. In addition to the technical information included to make it easy for you to order the part you need, we have provided informative and educational details about product lines and unique parts. Many of our pins are available in imperial and metric sizes and can be purchased in assortments or collected into customized assortments.



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LOCATING WHAT YOU NEED

ITEM DESCRIPTION AND IDENTIFICATION

ILLUSTRATED VISUAL REFERENCE

AVAILABLE MATERIALS AND FINISHES

ITEMS GROUPED BY PRIMARY IDENTIFYING MEASUREMENT

CALLOUTS LINK MEASUREMENT LOCATION TO DATA

TOLERANCE DATA SHOWN WITH MEASUREMENT FOLLOWED BY MAXIMUM/MINIMUM OR TOLERANCE RANGE
EX: 1.00", 1.02/.98"
or
1.00", +.02/-.02"

DETAILED TOLERANCES AND SPECIFICATIONS AS WELL AS ADDITIONAL PRODUCT KNOWLEDGE CAN BE FOUND AT HUYETT.COM

CLEVIS PINS

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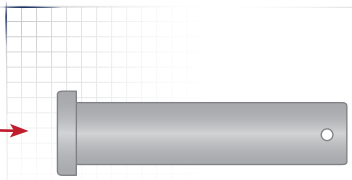
STANDARD – IMPERIAL

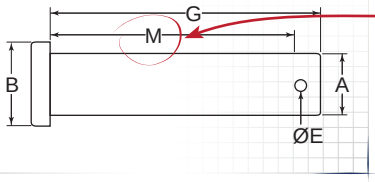
DESCRIPTION

Solid pin with standard flat head that secures with a hitch pin clip or cotter pin through a hole drilled in the opposite end. Clevis pins are used as a quick and secure fastener in many agricultural and industrial applications.

HOW TO IDENTIFY

1. Verify flat head pin with hole at opposite end.
2. Measure diameter (A).
3. Measure shank length (G).
4. Confirm effective length (M).
5. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
CLP	=	LOW CARBON STEEL, PLAIN*
CLPS	=	STAINLESS STEEL
CLPS6	=	MARINE GRADE 316 STAINLESS STEEL
CLPZ	=	ZINC CLEAR
CLPY	=	ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3/16 (.188")
(A) Outside Diameter: .186/.181"
(B) Head Diameter: .310", .320/.302"
(E) Hole Diameter: .094", .103/.088"
(G) Tolerance: +.020/-.000" Use With: BP-223, Pg. 106

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0187-0500	.500" (1/2)	.359"
PREFIX-0187-0593	.594" (19/32)	.452"
PREFIX-0187-0625	.625" (5/8)	.484"
PREFIX-0187-0750	.750" (3/4)	.609"
PREFIX-0187-0875	.875" (7/8)	.734"
PREFIX-0187-1000	1.000" (1)	.859"
PREFIX-0187-1125	1.125" (1-1/8)	.984"
PREFIX-0187-1250	1.250" (1-1/4)	1.109"
PREFIX-0187-1500	1.500" (1-1/2)	1.359"
PREFIX-0187-1750	1.750" (1-3/4)	1.609"
PREFIX-0187-2000	2.000" (2)	1.859"
PREFIX-0187-2250	2.250" (2-1/4)	2.109"
PREFIX-0187-2500	2.500" (2-1/2)	2.359"
PREFIX-0187-3000	3.000" (3)	2.859"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:
CLP • CLPS • CLPS6
CLPZ • CLPY

1/4 (.250")
(A) Outside Diameter: .248/.243"
(B) Head Diameter: .370", .380/.365"
(E) Hole Diameter: .094", .103/.088"
(G) Tolerance +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0250-0500	.500" (1/2)	.359"
PREFIX-0250-0625	.625" (5/8)	.484"
PREFIX-0250-0750	.750" (3/4)	.609"
PREFIX-0250-0875	.875" (7/8)	.734"
PREFIX-0250-1000	1.000" (1)	.859"
PREFIX-0250-1125	1.125" (1-1/8)	.984"
PREFIX-0250-1250	1.250" (1-1/4)	1.109"
PREFIX-0250-1375	1.375" (1-3/8)	1.234"
PREFIX-0250-1500	1.500" (1-1/2)	1.359"
PREFIX-0250-1625	1.625" (1-5/8)	1.484"
PREFIX-0250-1750	1.750" (1-3/4)	1.609"
PREFIX-0250-1875	1.875" (1-7/8)	1.734"
PREFIX-0250-2000	2.000" (2)	1.859"
PREFIX-0250-2125	2.125" (2-1/8)	1.984"
PREFIX-0250-2250	2.250" (2-1/4)	2.109"
PREFIX-0250-2375	2.375" (2-3/8)	2.234"
PREFIX-0250-2437	2.437" (2-7/16)	2.296"
PREFIX-0250-2500	2.500" (2-1/2)	2.359"
PREFIX-0250-2625	2.625" (2-5/8)	2.484"
PREFIX-0250-2750	2.750" (2-3/4)	2.609"
PREFIX-0250-3000	3.000" (3)	2.859"
PREFIX-0250-3250	3.250" (3-1/4)	3.109"
PREFIX-0250-3500	3.500" (3-1/2)	3.359"
PREFIX-0250-3750	3.750" (3-3/4)	3.609"
PREFIX-0250-4000	4.000" (4)	3.859"
PREFIX-0250-4500	4.500" (4-1/2)	4.359"
PREFIX-0250-5000	5.000" (5)	4.859"
PREFIX-0250-5500	5.500" (5-1/2)	5.350"

5/16 (.313")
(A) Outside Diameter: .311/.306"
(B) Head Diameter: .434", .444/.437"
(E) Hole Diameter: .141", .150/.135"
(G) Tolerance +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0312-0500	.500" (1/2)	.281"
PREFIX-0312-0750	.750" (3/4)	.531"
PREFIX-0312-0875	.875" (7/8)	.656"
PREFIX-0312-0968	.968" (31/32)	.750"
PREFIX-0312-1000	1.000" (1)	.781"
PREFIX-0312-1125	1.125" (1-1/8)	.906"
PREFIX-0312-1187	1.187" (1-3/16)	.968"
PREFIX-0312-1250	1.250" (1-1/4)	1.031"
PREFIX-0312-1375	1.375" (1-3/8)	1.156"
PREFIX-0312-1500	1.500" (1-1/2)	1.281"

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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*Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.

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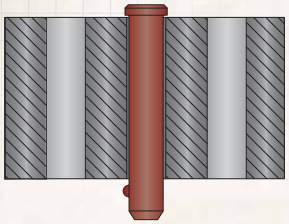
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INDUSTRIAL PINS

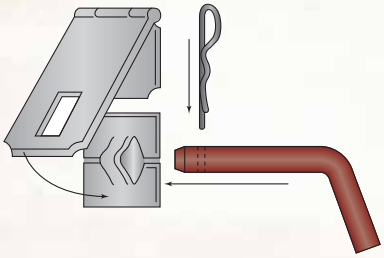
Industrial pins and wire forms are a specialized class of low-cost, non-threaded metal fasteners used in a broad range of applications and assemblies to permanently or temporarily secure or align components or equipment. While styles and materials vary depending on their use, they are versatile and often interchangeable. G.L. Huyett is your reliable source for high-quality parts that meet or exceed ASME, ASTM, SAE, and DIN standards – and your expectations.

DURABLE SOLUTIONS FOR EVERY NEED

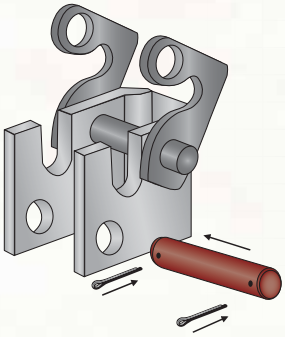
CLEVIS PINS



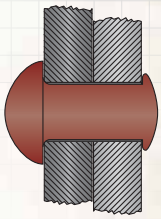
Clevis pin with detent ball used as a positioning point



Combine solid pins and wire forms

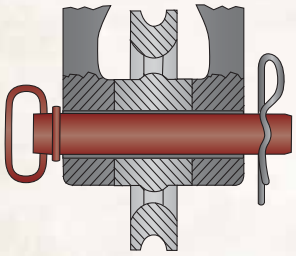


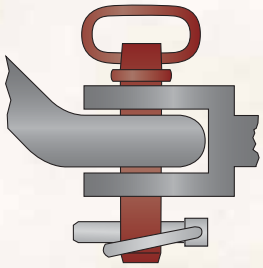
Headless drilled clevis pin secured on both ends with cotter pins



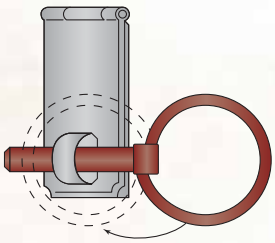
Rivets provide permanent assembly of multiple components

THREE-POINT PINS

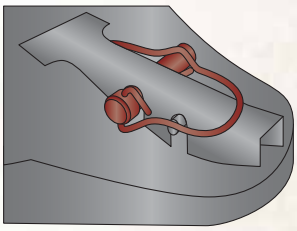




Three-point hitch pins secured with bridge pins or lynch pins

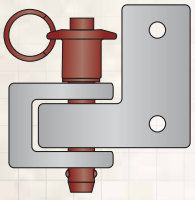


Lynch pins spring-tempered rings snap closed to lock

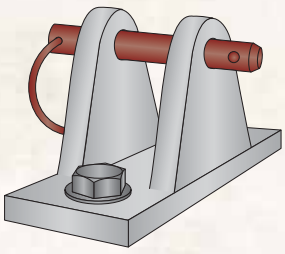


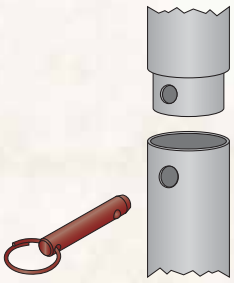
Self-locking three-point pins secure without the need for mating pins

POSITIVE LOCK PINS

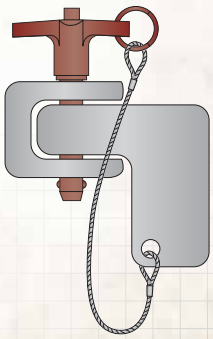


Button head positive lock pins feature an easily accessible quick release mechanism





Securely connect components with positive lock detent pins or use them in combination with tie-downs

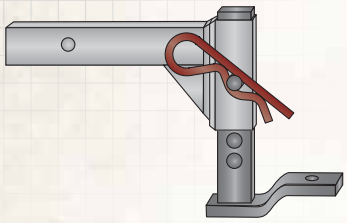


T-handle positive lock pins are easily secured with a tether to prevent pin loss

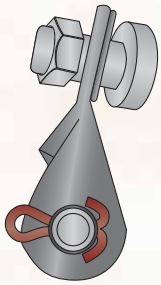
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INDUSTRIAL PINS

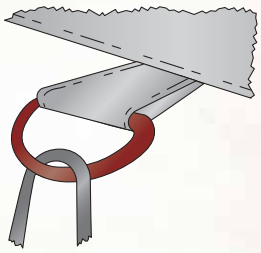
HITCH PIN CLIPS & WIRE FORMS



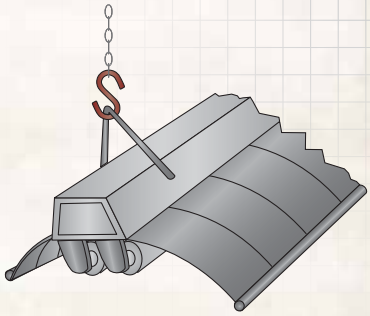
Lock pins provide permanent or temporary holding for pins used in adjustable applications



Cotter pins require no special tools to install and are generally reusable

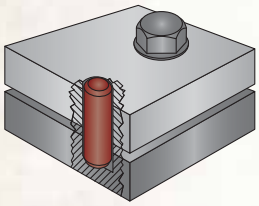


Edgeless D-rings are great for tarps, straps, belting, and tents

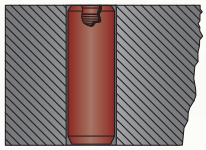


Available with open or closed ends, S-hooks are ideal for connecting or suspending objects

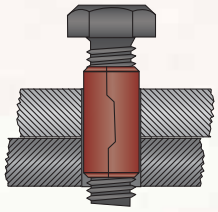
DOWEL PINS & TAPER PINS



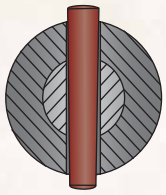
Ease mating of multiple components with dowel pins



Pullout dowel pins install flush in blind holes

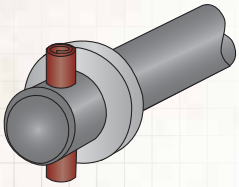


Hollow dowel pins allow the same hole to be used for alignment and bolts, wires, and cables

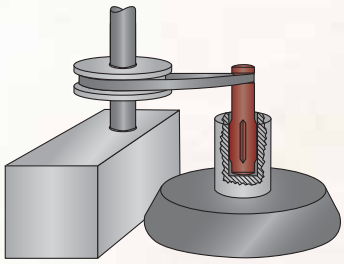


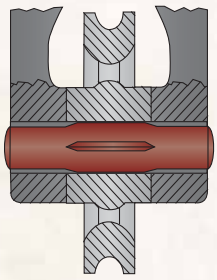
Taper pins provide alignment, low-torque holding power, and can be removed

GROOVED PINS & SPRING PINS

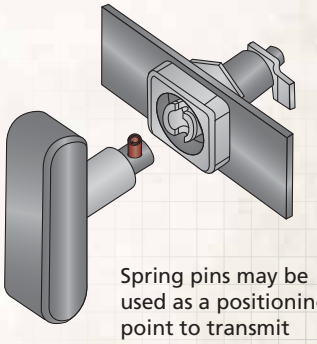


Coiled spring pins work great as a holding device





Fluted grooved pins provide focused holding power while allowing mating components to pivot



Spring pins may be used as a positioning point to transmit torque

COMMON INDUSTRY USES

- Industrial Equipment Manufacturing
- Material Handling Equipment
- Power Transmission
- Motion Control Components
- Outdoor Power Equipment
- Agricultural Equipment
- Exercise Equipment
- Construction Equipment
- Rigging and Scaffolding
- Automobile Manufacturing
- Heavy Duty Truck Manufacturing
- Original Equipment Manufacturers
- Maintenance, Repair, and Operations
- Office Equipment

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TYPES OF ALLOY STEEL

The following information should be considered only as a basic guideline; the data should not be considered as absolute. For specific applications, proper testing is required. The hardness of a metal is determined by its resistance to deformation, indentation, or scratching. Rockwell hardness is the most common measure of a metal's hardness. Soft steels are usually measured using the Rockwell B scale while harder steels and deep case hardened steels are usually measured on the Rockwell C scale. In some cases, one object may fall within more than one scale. For example, a typical steel spring has a Rockwell hardness of 110 on the B scale and 38 on the C scale. In addition, several factors, including the size of the piece, can affect the hardness rating.

COMMON GRADES OF ALLOY STEELS

1018

Heat treating in contact with carbon (carburizing) hardens the surface of this low-carbon steel. It is easy to cold-form, bend, braze, and weld. Rockwell hardness is B71. Melting point is 2,800°F. Yield strength is 45,000 psi. It is commonly used in shafts, spindles, pins, rods, sprockets, and component parts such as clevis pins, straight pins, machine keys, and keystock.

1045

This medium-carbon steel is stronger than 1018 and is slightly more difficult to machine and weld. Rockwell hardness is B84. Melting point is 2,800°F. Yield strength is 65,000 psi. It is used in gears, shafts, axles, bolts, studs, clevis pins, machine keys, and keystock.

A36

General purpose carbon steel is suitable for welding and mechanical fastening. Rockwell hardness is B68. Melting point is 2,000°F. Yield strength is 36,000 psi. This is used primarily for structural and commercial grade steel.

12L14

A low-carbon steel that has excellent machining characteristics and good ductility that makes it easy to bend, crimp, and rivet. It is very difficult to weld and cannot be case hardened. Rockwell hardness is B75 – B90. Melting point is 2,800°F. Yield strength is 60,000 – 80,000 psi. This grade can be used for grease fittings, clevis pins, and custom pins.

1144

A medium-carbon, resulferized steel with free-machining qualities. 1144 steel heat treats better than 1045 steel. Stress relieving allows it to obtain maximum ductility with minimum warping. Rockwell hardness is B97. Melting point is 2,750°F. Yield strength is 95,000 psi. This is frequently used in keyed shafts, clevis pins, and detent pins.

4140 ALLOY

Also called "chrome-moly" steel. Ideal for forging and heat treating, 4140 alloy is tough, ductile, and wear resistant. Rockwell hardness is B92. Melting point is 2,750°F. Yield strength is 60,000 – 75,800 psi. It is the most common steel and is used in virtually all industries and applications. It is also used for clutch keys, clevis pins, and military clevis pins.

4140 ASTM-A193 GRADE B7 ALLOY

Similar to 4140 alloy, but it is already quenched, tempered, and stress relieved. Maximum Rockwell hardness is C35. It is commonly used for threaded rod.

8630 ALLOY

This alloy is tough yet ductile. It responds well to heat treating, exhibits superb core characteristics, and has good weldability and machining properties. Maximum attainable Rockwell hardness is C50. Melting point is 2,800°F. Yield strength is 79,800 psi. This grade is frequently used in machine keys, woodruff keys, gear drive keys, and keystock.

CARE & HANDLING OF PLAIN FINISH PARTS

30-DAY LIMITED WARRANTY FOR SURFACE FINISH

A special sealer and treatment is applied to all plain finish parts to prevent corrosion, and specially formulated plastic liners are used to protect parts from the atmosphere. It is vital that the following handling instructions be maintained:

1. **Inspect containers upon receipt.**
2. **Do not remove parts from original packing until ready for use.**
3. After opening containers, **reroll the inner liner and reclose the box** for storage.
4. When touching plain finished parts, **wear neoprene, latex, or thick cotton gloves** to prevent hand oils from contacting the surface of the parts.
5. **Avoid allowing human sweat or any other type of contaminant** to contact the surface of the parts.

Surface corrosion can appear in as little as 24 hours if plain finish parts are not handled correctly, especially during the months of June, July, August, and September in North America. Improper handling will void any and all warranties.

To learn more, visit:
HUYETT.COM/HANDLING

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TYPES OF STAINLESS STEEL

Stainless steel is the term used for grades of steel that contain more than 11% chromium, with or without other alloying elements. Stainless steel resists corrosion, maintains its strength at high tolerances, and is easily maintained. It is used predominately in the automotive, aerospace, and construction industries.



There are numerous grades of stainless steel which divide into four major groups:

- 100 series: austenitic general purpose stainless steel
- 200 series: austenitic chromium/nickel/manganese alloys
- 300 series: austenitic chromium/nickel alloys
- 400 series: ferritic and martensitic chromium alloys.

Detailed information on steel making can be found in our *Engineering Handbook*. Visit Huyett.com.

COMMON GRADES OF STAINLESS STEEL

302

A common heat-resisting stainless steel, 302 is austenitic, non-magnetic, extremely tough, and ductile. Cold-working will dramatically increase its hardness. It is amenable to stamping, spinning, and wire forming. 302 is commonly used for washers, springs, screens, and cables. It can be found in bridge pins, spring pins, and spiral rings.

303

303 is a popular free-machining stainless steel providing excellent speed and feed capabilities. 303 is used extensively in the screw and machining industries to make hardware fasteners such as lock nuts, valve parts, nozzles, and trim. It can also be used for keyed shafts, pins, and grease fittings.

304

Also known as 18-8, 304 is the most commonly specified austenitic stainless steel, accounting for more than half of the stainless steel produced in the world. This grade withstands ordinary corrosion in architecture, is durable in typical food processing environments, and resists most chemicals. 304 is available in virtually all product forms and finishes and is used for cookware, appliances, sinks, and tabletops. It can be found in bridge pins, thread inserts, hose clamps, and spring pins.



316

Commonly referred to as marine grade stainless steel, this austenitic stainless steel contains 2% – 3% molybdenum (whereas 304 has none). The inclusion of molybdenum gives 316 greater resistance to various forms of deterioration. It is well-suited for extreme situations such as laboratory equipment, chloride environments, and sub-zero temperatures. 316 is frequently used for chemical, food, paper, mining, pharmaceutical, and petroleum equipment. It is one of the most common stainless steels and can be found in most types of pins, hose clamps, keyed shafts, threaded rod, machine keys, and keystock.

410

The most widely used martensitic (plain chromium stainless class with exceptional strength) stainless steel, featuring the high-level of strength conferred by martensitic steels. It is a low-cost, heat-treatable grade suitable for non-severe corrosion applications. It is used for cutlery, turbine blades, bushings, valve components, fasteners, screens, kitchen utensils, and spring pins.

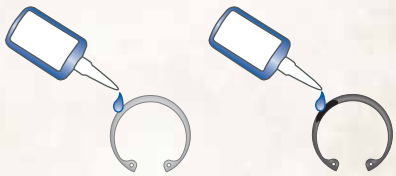
416

This was one of the first free-machining stainless steels. It has excellent machinability and non-galling characteristics and is magnetic. It is used for nuts, bolts, screws, gears and pinions, valve trim, shafts, axles, dowel pins, and keystock.

HOW TO IDENTIFY

Chemical Testing

Place a drop of 20% nitric acid solution on a cleaned portion of the specimen.

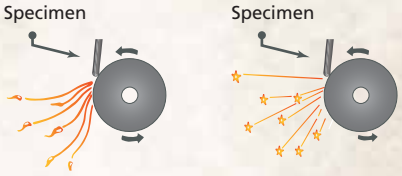


Stainless steel will remain unstained

Carbon Steel will turn dark

Mechanical Testing

Hold the specimen with pliers and place it against a grinding wheel.



Stainless steel will make curved tails

Carbon steel will look like fireworks

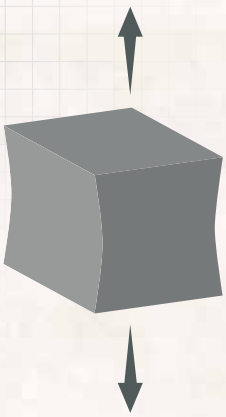
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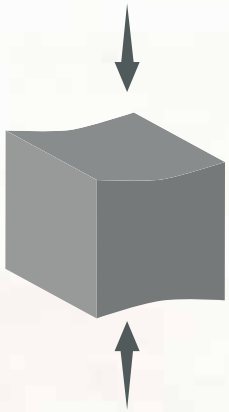
MEASURING STEEL STRENGTH

Determining the strength of steel is an examination of the relationship between external forces applied to steel and the resulting deformations and stresses. These forces are produced by the action of gravity, by accelerations and impacts of moving parts, by gases and fluids under pressure, and by the transmission of mechanical power. They can occur separately, in combination, or progressively. Time is also a critical element in determining the effects of external forces—a force may be static or change so slowly that its maximum value can be treated as if it were static, it may be suddenly applied, as with an impact, or it may have a repetitive or cyclic behavior.

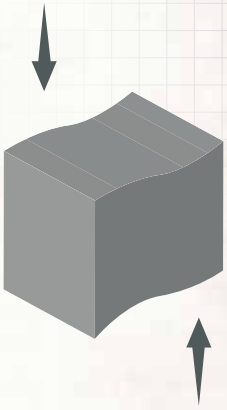
TYPES OF STRESS



TENSILE STRESS
Pulls apart



COMPRESSIVE STRESS
Pushes together



SHEARING STRESS
Pushes from opposite sides

STRESS

Stress is defined as force per unit area and in the U.S. is usually expressed in pounds per square inch (psi). Tensile stress will stretch or lengthen steel. Compressive stress will compress or shorten steel. Shearing stress will break or tear steel into pieces. Tensile and compressive stresses always act at right angles to the applied force; shearing stresses always act in the same plane.

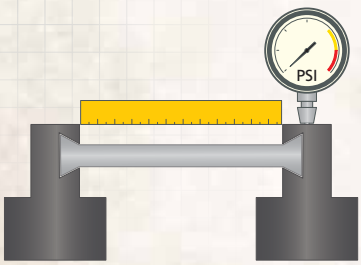
FATIGUE

When steel is subjected to many cycles of stress reversal or fluctuation (variation in magnitude without reversal), failure may occur, often at levels considerably less than if the stress were constant. Fatigue properties are determined by subjecting test specimens to stress cycles and counting the number of cycles to failure.

DUCTILITY

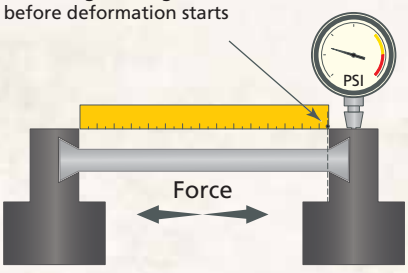
Ductility is the ability of steel to undergo permanent changes in shape (such as stretching into a wire) from tensile stress without fracturing at room temperature or losing its toughness. Brittleness is the opposite of ductility. Malleability refers to deformation under compressive stress (such as being pressed into a sheet). Ductility is sometimes used to refer to both types.

TESTING & MEASURING TENSILE STRENGTH



Sample mounted in test fixture with no force applied

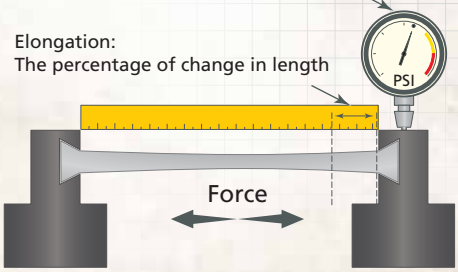
Yield Point:
The strength rating before deformation starts



Sample is pulled from opposite ends but no deformation has taken place

Tensile Strength:
The strength rating before breaking

Elongation:
The percentage of change in length



Sample is pulled apart; permanent deformation and eventual breakage occurs

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MEASURING STEEL STRENGTH

When steel is subjected to many cycles of stress reversal or fluctuation (variation in magnitude without reversal), failure may occur, even though the maximum stress at any cycle is considerably less than the value at which failure would occur if the stress were constant. Fatigue properties are determined by subjecting test specimens to stress cycles and counting the number of cycles to failure. Fatigue is tested on fixtures that are unique to the application. These tests should account for all modes of failure, including thermal causes and the presence of corrosive elements.

MODES OF FATIGUE FAILURE

LOW-/HIGH-CYCLE

This fatigue process covers cyclic loading in two significantly different domains with different physical mechanisms of failure. "High-cycle fatigue" is characterized by relatively low cyclic loads, strain cycles confined largely to the elastic range, and long lives or a high number of cycles to failure. "Low-cycle fatigue" or cyclic strain-controlled fatigue, has cyclic loads that are relatively high, significant amounts of plastic strain induced during each cycle, and short lives or a low number of cycles to failure.

CORROSION

Corrosion fatigue is a failure mode where cyclic stresses and a corrosion producing environment combine to initiate and propagate cracks in fewer stress cycles and at lower stress amplitudes than would be required in a more inert environment. The corrosion process forms pits and surface discontinuities that act as stress raisers to accelerate fatigue cracking. The cyclic loads may also cause cracking and flaking of the corrosion layer, baring fresh metal to the corrosive environment. Each process accelerates the other, making the cumulative result more serious.

THERMAL

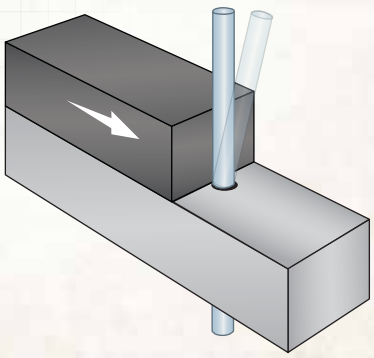
Cyclic temperature changes in a machine part will produce cyclic stresses and strains if natural thermal expansions and contractions are either wholly or partially constrained. These cyclic strains produce fatigue failure just as though they were produced by external mechanical loading. When strain cycling is produced by a fluctuating temperature field, the failure process is termed "thermal fatigue."

SURFACE OR CONTACT

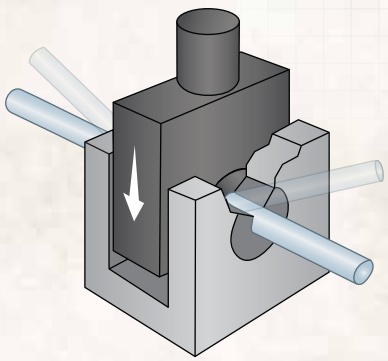
Surface fatigue failure is usually associated with rolling surfaces in contact, and results in pitting, cracking, and spalling of the contacting surfaces from cyclic contact stresses that cause shear stresses to be slightly below the surface. The cyclic subsurface shear stresses generate cracks that propagate to the contacting surface, dislodging particles in the process.

TESTING & MEASURING SHEAR STRENGTH

Shear strength is tested by measuring the force necessary to sever a sample into two pieces for single shear, or three pieces for double shear. In a single shear test the workpiece is supported on only one end whereas in a double shear test the workpiece is supported from both ends which requires greater force to break a middle piece free. Both tests result in strength ratings that categorize the metal.



SINGLE SHEAR
Creates one fracture



DOUBLE SHEAR
Creates two fractures

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TYPES OF FINISHES

COMMON PLATINGS AND FINISHES

PLATING, COATING, OR FINISH	FOR USE ON	DEGREE OF CORROSION RESISTANCE	CHARACTERISTICS
RUST INHIBITORS	All metals	Varies with type	Oils, greases, etc. Vary in color and film thickness. Usually applied to black oxide finishes. Used to protect parts in temporary storage.
ZINC, ELECTROPLATED	All metals	Very good	Blue to blue-white-gray color.
CADMIUM, ELECTROPLATED	Most metals	Excellent	Bright, silver-gray, or black finish. Particularly effective corrosion protection in marine applications. Used for decorative purposes. High lubricity.
CLEAR CHROMATE FINISH	Zinc and cadmium plated parts	Very good to excellent	Clear bright or iridescent chemical conversion coating applied to plated parts to enhance corrosion protection, coloring, and paint bonding.
DICHROMATE	Zinc and cadmium plated parts	Very good to excellent	Yellow, brown, green, or iridescent colored coating same as chromate.
COLOR CHROMATE FINISH	Zinc and cadmium plated parts	Very good to excellent	Olive drab, blue, gold, bronze, etc. Same as clear chromate.
ZINC OR MANGANESE PHOSPHATE	Steel	Good	Black in color. Added protection when oiled with a nondrying petroleum oil containing corrosion inhibitors. Good lubricity.
COLOR PHOSPHATE COATINGS	Steel	Superior to regular phosphate and oiled surfaces	Chemically produced color coating. Available in blue, green, red, purple, etc.
HOT-DIP ZINC	All metals	Very good	Gives maximum corrosion protection. Dull grayish color. Necessitates thread size adjustments to permit assemblability.
HOT-DIP ALUMINUM	Steel	Very good	Gives maximum corrosion protection. Dull grayish color. Necessitates thread size adjustments to permit assemblability.
MECHANICALLY DEPOSITED ZINC	Steel	Very good	Dull gray, smooth finish. Corrosion protection depends on coating thickness. Good coverage in recesses and thread roots.
TIN, ELECTROPLATED	All metals	Excellent	Silver-gray color. Excellent corrosion protection for parts in contact with food.
HOT-DIP TIN	All metals	Excellent	Same as electroplated but thickness is harder to control.
LEAD-TIN	Steel, usually	Fair to good	Silver-gray, dull coating. Applied by hot-dip method. Helps lubricity.
SILVER, ELECTROPLATED	All metals	Excellent	Decorative, expensive, excellent electrical conductor.
CHROMIUM, ELECTROPLATED	Most metals	Good (improves with copper and nickel undercoats)	Bright, blue-white, lustrous finish. Has relatively hard surface. Used for decorative purposes or to add wear resistance.
COPPER, ELECTROPLATED	Most metals	Fair	Used for nickel and chromium plate undercoat. Can be blackened and relieved to obtain Antique, Statuary, and Venetian finishes.

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TYPES OF FINISHES

PLATING, COATING, OR FINISH	FOR USE ON	DEGREE OF CORROSION RESISTANCE	CHARACTERISTICS
BRASS, ELECTROPLATED, LACQUERED	Steel, usually	Fair	Brass electroplated which is then lacquered. Recommended only for indoor decorative use.
BRONZE, ELECTROPLATED, LACQUERED	Steel, usually	Fair	Has color similar to 80% copper, 20% zinc alloy. Electroplated and then lacquered. Recommended only for indoor decorative use.
COPPER, BRASS, BRONZE, MISCELLANEOUS FINISHES	Most metals	Very good	Decorative finishes. Applied to copper, brass, and bronze plated parts to match colors. Color and tone vary from black to almost the original color. Finish names are: Antique, Black Oxide, Statuary, Old English, Venetian, and Copper Oxidized.
BRIGHT NICKEL	Most metals	Indoor, excellent. Outdoor, good if thickness at least .0005".	Electroplated silver-colored finish. Used for appliances, hardware, etc.
DULL NICKEL	Most metals	Same as bright nickel	Whitish cast. Can be obtained by mechanical surface finishing or a special plating bath.
LACQUERING, CLEAR OR COLOR-MATCHED	All metals	Improves corrosion resistance. Some types designed for humid or other severe applications.	Used for decorative finishes. Clear or colored to match mating color or luster.
ANODIZING	Aluminum	Excellent	Acid electrolytic treatment. Frosty-etched appearance. Hard oxide surface provides excellent protection.
PASSIVATING	Stainless Steel	Excellent	Chemical treatment. Removes iron particles and produces a passive or corrosion resistant surface.

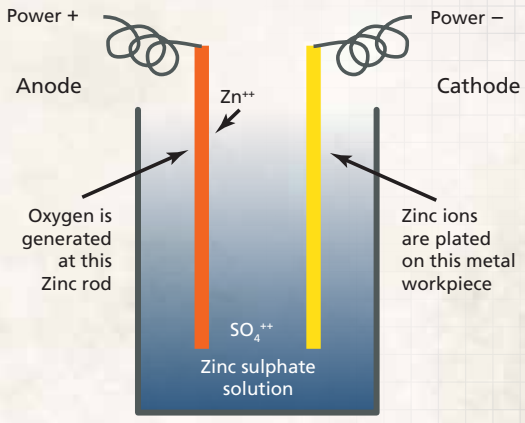
ZINC ELECTROPLATING

ZINC PLATING

Due to its low cost, versatility, corrosion resistance, and attractive appearance, zinc plating is one of the most common types of electroplating and serves as a barrier to oxidation for iron, steel, and other metals. Combined with nickel, cobalt, tin, or iron alloys, zinc forms a coating on the base metal that when exposed to corrosion sacrifices itself to delay the formation of rust on bare metal even after portions of the coating have been dissolved, scratched, or punctured.

VERSATILITY OF ZINC PLATING

Additionally, it provides excellent receptivity for chromate conversion coatings, does not undergo hydrogen embrittlement, and is a safer alternative to metal plating processes that use toxic materials such as cadmium. It is ductile and offers excellent adhesion and provides an effective undercoat for paint.



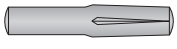
ZINC PLATING
Many metals can be used as plating material

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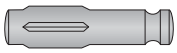
TYPES OF SPECIFICATIONS

While it would be ideal to have one universal standard of measurement and production guidelines to ensure consistency, compatibility, and standardization of industrial non-threaded fasteners, there are more than 25 Standards Developing Organizations (SDOs) worldwide in addition to the International Organization for Standardization. International Organization for Standardization (ISO) standards adopted by one SDO may contain variations that substantially alter them from ISO documentation. The chart below indicates the G.L. Huyett parts that are compliant with or exceed these standards.

SPEC	PAGE	ITEM DESCRIPTION	SPEC DESCRIPTION	IMAGE	ITEM PREFIX
ASME B18.8.1	Page 31	SAE Clevis Pins	The American National Standards (ANS) guideline specifying dimensions and materials for the production of turned or cold-headed Society of Automotive Engineers (SAE) clevis pins with mandatory chamfers at both ends and around the cross-drilled hole, wire formed extended prong cotter (split) pins, and wire formed hammerlock cotter pins (or castle key) generally used as a locking mechanism in castellated nuts. Cotter pins are not heat treated to ensure that they can endure stress and retain their form when bent. The head design of cotter pins are rounder than comparable ANSI specs and do not allow for flush cut end points on prongs.		CLPSAE
	Page 82	Cotter Pins			CP
	Page 91	Hammerlock Cotter Pins			CPH
ASME B18.8.2	Page 141	Standard Alloy Dowel Pins	Domestic standards for through hardened solid dowel pins with a chamfer on one end to aid installation and a radiused crown on the other end. Slightly oversized to ensure a tight fit.		DOW
	Page 155	Oversized Dowel Pins	Typically used in aftermarket applications to fit worn and enlarged holes. To ease installation, oversized pins feature a bevel on one end.		DOWO
	Page 169	Grooved Pins – Type A	Type A (or full grooved) pins feature end-to-end longitudinal fluted grooves that contracts to create tension when forced into a hole.		GP-A
	Page 174	Grooved Pins – Type B	A suitable alternative to ground solid dowel pins, type B grooved pins feature three half-length tapered flutes. The grooved end is the locking portion and the pilot (non-fluted) end serves as a handle.		GP-B
	Page 179	Grooved Pins – Type C	Widely used in hinge, linkage, or pivot applications, type C grooved pins feature three quarter-length parallel flutes with a long lead that eases installation.		GP-C
	Page 183	Grooved Pins – Type D	Type D grooved pins feature three half-length reverse parallel tapered flutes that provide maximum holding power and permit easy insertion into blind holes.		GP-D

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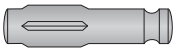
TYPES OF SPECIFICATIONS

SPEC	PAGE	ITEM DESCRIPTION	SPEC DESCRIPTION	IMAGE	ITEM PREFIX
ASME B18.8.2	Page 187	Grooved Pins – Type E	Type E (or center grooved) pins have longitudinal flutes along the middle. Smooth ends allow for moving/ rotating parts on either end. Often used as T-handles.		GP-E
	Page 194	Grooved Pins – Type G	Type G (or half grooved with spring anchor) pins feature three half-length parallel flutes at one end and an annular groove on the opposite end that permits versatile use in blind or through holes as a spring anchor pin.		GP-G
	Page 198	Grooved Pins – Type H	Type H (or half grooved) pins feature three half-length parallel flutes and a smooth end that may be used as a locater or hinge while the fluted end is locked in place.		GP-H
	Page 201	Grooved Pins – Type U	Type U pins feature three full-length parallel grooves with a pilot (non-fluted portion) on both ends to ease installation. They are ideal for hoppers or automatic feeding assemblies.		GP-U
	Page 213	Slotted Spring Pins	Slotted rolled spring pins are headless, hollow, tube-style press fit fasteners with chamfered ends used as locking devices, for alignment, shafts, or sleeves for wiring.		SP
	Page 225	Coiled Spring Pins – Light Duty	Light duty coiled pin with chamfers on both ends used in plastics applications or with soft metals to prevent enlarging or breaking the host material.		SPC-L
	Page 229	Coiled Spring Pins – Standard Duty	Combining flexibility with strength, coiled spring pins are often used for alignment, to fasten multiple components together, or as a pivot, hinge, or axle.		SPC
	Page 235	Coiled Spring Pins – Heavy Duty	Self-retaining coiled pins that continue to flex after installation to absorb shock and vibration. Suited for high shear strength applications and hardened host materials.		SPC-H
	Page 251	Standard Taper Pins	Solid cylindrical pins with a uniform taper (1/4" per 12") that runs the entire length of the pin. They are held in place with dry friction making them cost effective and easy to install.		TP
ASME B18.8.3M/ ISO 8748	Page 238	Metric Coiled Spring Pins – Heavy Duty	The heavy duty nature of this pin is achieved by using thicker steel. ISO 8748 specifies 2-1/4 turns of material.		SPCM-H
ASME B18.8.3M/ ISO 8750	Page 232	Metric Coiled Spring Pins – Standard Duty	Medium duty coiled pin with chamfers on either end. ISO 8750 also specifies 2-1/4 turns of material. Usually preferred over DIN 1481.		SPCM

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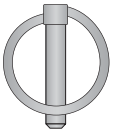
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TYPES OF SPECIFICATIONS

SPEC	PAGE	ITEM DESCRIPTION	SPEC DESCRIPTION	IMAGE	ITEM PREFIX
ASME B18.8.3M/ ISO 8751	Page 227	Metric Coiled Spring Pins – Light Duty	The swaged chamfer on both ends make these pins ideal for hinge, axle, and dowel applications. They provide flexibility and uniform strength at lower costs than solid or rolled pins.		SPCM-L
ASME B18.8.4M TYPE B	Page 217	Metric Slotted Spring Pins	We recommend for high volume, automated assembly. This pin has high shear strength, high retention value, and low insertion force and is interchangeable with DIN 1481 or ISO 8752 above 3 mm.		SPM-A
ASME B18.8.6M	Page 89	Metric Cotter Pins	This "Americanized" cotter pin standard specifies an extended prong design with square cut ends.		CPM-A
DIN 1	Page 255	Standard Metric Taper Pins	Parts are manufactured to h10 tolerances, and are made with a 1:50 mm taper.		TPM
DIN 7	Page 148	Standard Metric Dowel Pins	Similar to ISO 2338 and EN22338, these pins are unhardened and possess two radiused ends. Parts are ground to a m6 tolerance.		DOWM
DIN 94	Page 85	Standard Metric Cotter Pins	Common around the world, DIN 94 permits an extended prong square cut end design. Similar to ISO 1234.		CPMP
DIN 1469	Page 197	Grooved Pins – DIN 1469	This part has three parallel half-length grooves, an annular groove for spring retention, and a pilot to aid in insertion. Our DIN grooved pins are plain finish as standard, vs. zinc plated for the imperial sized.		GPM-69
DIN 1470	Page 203	Grooved Pins – DIN 1470	Less common grooved pin that is unique as a European standard. The pilot assists in insertion, but requires orientation because the pilot is only at one end.		GPM-70
DIN 1471	Page 172	Grooved Pins – DIN 1471	Most common grooved pin. The plain finish allows this pin to be used for locking or as a dowel.		GPM-71
DIN 1472	Page 175	Grooved Pins – DIN 1472	Three half-length grooves give this pin a similar appearance to the DIN 1471 and allow the smooth end to be used as a handle or lever.		GPM-72
DIN 1473	Page 206	Grooved Pins – DIN 1473	While nearly identical in appearance to the DIN 1470, the 1473 has a chamfer in place of a pilot end.		GPM-73

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TYPES OF SPECIFICATIONS

SPEC	PAGE	ITEM DESCRIPTION	SPEC DESCRIPTION	IMAGE	ITEM PREFIX
DIN 1474	Page 184	Grooved Pins – DIN 1474	Yet another uniquely European standard. Half-length grooves are tapered and reversed to increase holding power and retention.		GPM-74
DIN 1475	Page 191	Grooved Pins – DIN 1475	With grooves in the middle, this part is often used as a pivoting point or for moving parts on either end. Plain finish.		GPM-75
DIN 6325	Page 152	Metric Hardened Dowel Pins	Slightly oversized precision ground and hardened through pins with a chamfer on one end and radiused crowns on both. Typically used for alignment or as a pivot.		DOWMH
DIN 7977	Page 262	Metric External Threaded Taper Pins	International specification for threaded tapered pins. As with the DIN 1 parts, DIN 7977 are machined with a 1:50 mm taper. Threads assist in removal using a nut or other extraction tool.		TPTME
DIN 7978	Page 265	Metric Internal Threaded Taper Pins	Not very common in usage. DIN 7978 are manufactured with a 1:50 mm taper. The internal threads are located in the large end and assist in extraction.		TPTMI
DIN 7979D	Page 159	Metric Pullout Dowel Pins	Also known as pull dowels, these ground and hardened parts have a drilled and tapped hole at one end which is used as an anchor for an extraction tool. Made to m6 tolerances.		DOWPM
DIN 11023	Page 62	Metric Lynch Pins	Commonly used on European manufactured farm implements. Due to the nature of their use, imperial sized lynch pins can sometimes be interchanged to save money.		LPM
ISO 2341	Page 28	Metric Clevis Pins	Domestic standards similar to DIN 1444B. Applies to headed clevis pins with a cross-drilled hole that requires a cotter pin or other clip to fix securely in place.		CLPM
ISO 8752	Page 221	Metric Slotted Spring Pin	Similar to DIN 1481, except length tolerances are plus and minus (typical of imperial sized rolled pins). DIN 1481 or ASME B18.8.4M is usually less expensive.		SPM-I
JIS B2808	Page 241	Toothed Spring Pin	General-purpose precision rolled spring pins with a “toothed” longitudinal slot. Toothed pins possess the tightest tolerance and highest seating capacity of this line.		SPT

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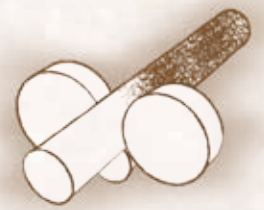
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MANUFACTURING PROCESSES

G.L. Huyett is unique in the breadth of its manufacturing operations and product offerings. We proudly manufacture or source a wide-range of hard-to-find products from around the globe to make it easy for you to get what you need. Our manufacturing capabilities are complemented with a state-of-the-art, world-class warehouse featuring over 95,000 non-threaded fasteners and industrial components. Whether you need one part, or 1000's individually bagged and/or labeled with your brand, we offer customized solutions for manufacturing, packaging, and delivery.

CENTERLESS GRINDING

Centerless Grinding is an abrasive machining process used to remove material from a workpiece efficiently to produce a high volume of parts in a short time. Material, supported by a blade or work rest, is passed between two rotary grinding wheels without the use of a spindle or fixture to secure the workpiece.



DRILLING

Usually performed during turning or milling operations, multi-tooled turrets can be configured to drill transverse holes, bore internal holes, or ream straight, tapered, or cylindrical holes.



FORMING

Forming reshapes a workpiece without adding or removing material by rolling, extruding, die forming, forging, or indenting to create roll splines, gears, worms, and threads. Parts may also be broached using a toothed tool to efficiently remove and shape material on a lathe or an arbor press.



LASER CUTTING

Good for short runs where tooling costs can be prohibitive, lasers use a high-energy beam supported by a coaxial supply of cutting gas to melt, vaporize, and/or combust material in a small and concentrated area. Lasered parts are generally flat – such as washers – but parts can also be bent at angles following laser work.



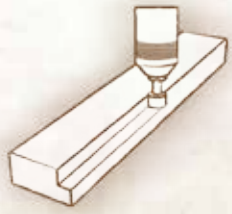
MARKING

G.L. Huyett has automated inkjet printing and engraving capabilities that mark (print) your name or part number directly onto your finished parts along with dimensional information using RoHS compliant ink. Finished parts can also be bagged or boxed with your company's branding in quantities of your choosing.



MILLING

Milling is used to shape or modify the tolerances (dimensions) of parts, to install steps or cutouts, to drill and tap holes with exacting precision, or to deburr parts. We offer an extensive range of tooling, tool holding, and insertion options capable of producing just about anything.



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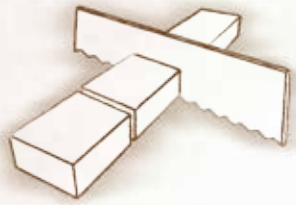
MANUFACTURING PROCESSES

We have engineering support staff along with a complete manufacturing facility where we can produce one-offs and specials. The case studies featured in our *Engineering Handbook* are just a few examples of some of the challenges we have solved with cost-effective solutions. Call 785-392-3017 to find out what we can do for you and request your copy today.



SAWING

G.L. Huyett utilizes metal-cutting band saws to make precise, uniformly cut keystock and machine keys to tight tolerances. We have the world's largest selection of 1', 3', and 12' lengths of keystock in plain carbon or zinc plated steel, special grades, and nonferrous material up to 3" square.



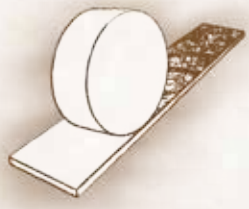
STAMPING

Stamping, also referred to as punching, is a process of using a hydraulic press to punch through material and into a die to create a hole in the workpiece. Generally, more than one part can be punched in a single stroke for higher volume applications. A progressive set of dies can also be used to form more complicated designs.



SURFACE GRINDING

In order to guarantee precise tolerances for your parts, G.L. Huyett offers surface grinding – a machining process in which abrasive particles, bonded to a grinding wheel, remove small amounts of material from a workpiece. Parts are held in place magnetically to assist in efficient and streamlined production.



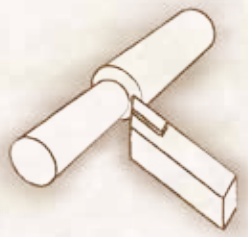
TUMBLING

After being machined, parts are tumbled to tight tolerances before being cleaned and dried. The cleaning and drying process also introduces rust inhibitors that extend the shelf life of plain finish parts. Additionally, G.L. Huyett's employees wear gloves to prevent exposing finished parts to oils and impurities.



TURNING

Our experienced lathe operators can turn, face, groove, or part complex parts with tight tolerances including the formation of a head (clevis pins) or radial grooves (headless pins).



WIRE FORMING

Many parts such as cotter pins, hitch pin clips, rings, and hooks are manufactured using a process called wire forming. Round, square, and shaped wire may be pulled through dies, extruded, bent, or coiled to suit your needs. We offer hundreds of standard wire forms or can customize to your specifications.



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CLEVIS PIN FEATURES

Clevis pins refer to a class of non-threaded fasteners that are characterized by their low cost, reusability, and less precise design. Developed in the early part of the twentieth century, clevis pins were known as cornpicker pins because of their wide use in agricultural products. Generally, clevis pins are cold-headed or turned from cold-finished steel, including 1010, 1018, 1045, and 1144 carbon steel and 4140 alloy steel. Nonferrous grades are also available.

DESIGN CONSIDERATIONS

EFFECTIVE LENGTH



REFERS TO THE AVAILABLE LENGTH FROM UNDER THE HEAD TO THE EDGE OF THE HOLE

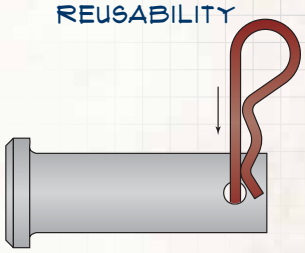
COMPATIBILITY

PIN MUST EASE ASSEMBLY AND MATE WITH ADJOINING PARTS



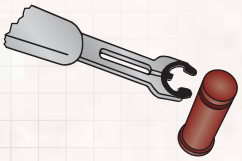
A HEADLESS PIN IS USED WHEN REMOVAL IS REQUIRED FROM BOTH DIRECTIONS

REUSABILITY



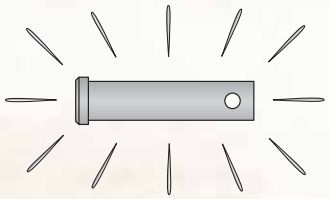
IF THE PIN IS TO BE INSTALLED OFTEN, CONSIDER THE USE OF A BRIDGE PIN OR COTTER PIN

ASSEMBLY



A GROOVED CLEVIS PINS HAS AUTOMATIC INSTALLATION ADVANTAGES OVER PIN AND COTTER FIXTURES

ENVIRONMENT



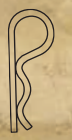
G.L. HUYETT IS UNIQUE IN OFFERING MARINE GRADE 316 STAINLESS STEEL FOR ENVIRONMENTAL USES

COMPARATIVE COST



THE MATING FASTENER WILL HAVE A DRAMATIC EFFECT ON TOTAL COST AND INSTALLATION INVESTMENT

WHERE TO FIND MATING PARTS



Bridge Pins
Page 106



Cotter Pins
Page 82

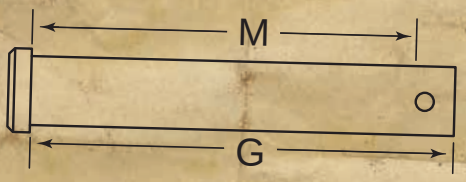


Hair Pins
Page 119



E-clips
Page 124

CLEVIS PIN MEASUREMENT



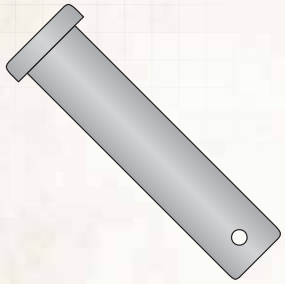
While effective length ("M") is most important, clevis pins are sized by their total length ("G").

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CLEVIS PIN TYPES

STANDARD

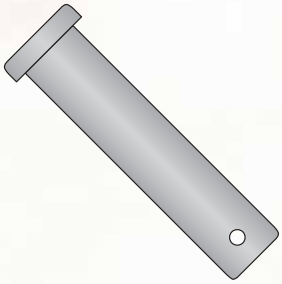
Used as a temporary quick-disconnect or permanent fastener in place of bolts and rivets. Requires a bridge pin or cotter pin.



PAGE 24

METRIC

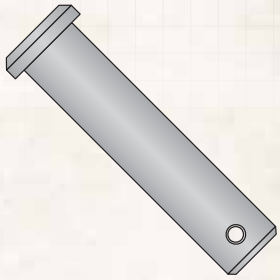
Similar to standard clevis pins, these metric dimensioned pins meet ISO 2341 specifications.



PAGE 28

SAE

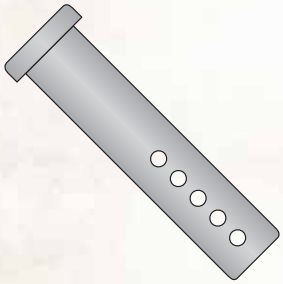
Standardized design established by the Society of Automotive Engineers (SAE). Chamfered end for easier installation.



PAGE 31

UNIVERSAL

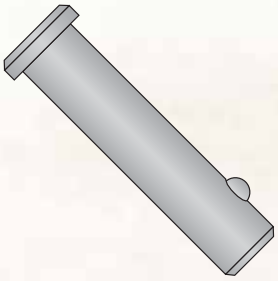
Also known as "adjustable" clevis pins, this style incorporates multiple holes for adaptation to varying lengths. The excess portion may be cut off.



PAGE 32

COTTERLESS

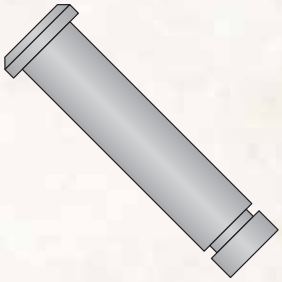
Standard clevis pin with spring loaded detent ball for a self-locking feature. Does not require a cotter pin or bridge pin.



PAGE 33

GROOVED

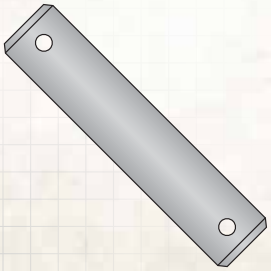
Standard clevis pin with a snap ring groove. These pins are best used in automated assembly or where lateral movement is undesirable. Designed for use with E-clips.



PAGE 34

HEADLESS

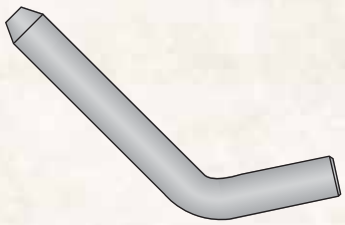
Commonly used with a yoke or hydraulic cylinders, headless pins can be used with cotter pins or bridge pins and are adaptable to many applications.



PAGE 35

BENT

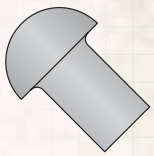
Low cost and very simple design for economical quick change applications. Use with cotter pin or bridge pin.



PAGE 39

RIVET

Non-holed, cold-headed parts used in automated assembly. After insertion the part is driven to displace the end material, which provides a permanent secure fit.



PAGE 40

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CLEVIS PINS

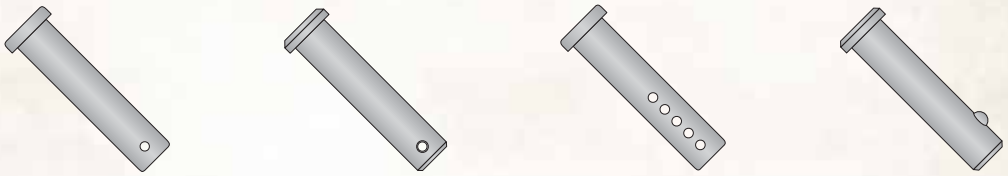
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QUICK REFERENCE GUIDE

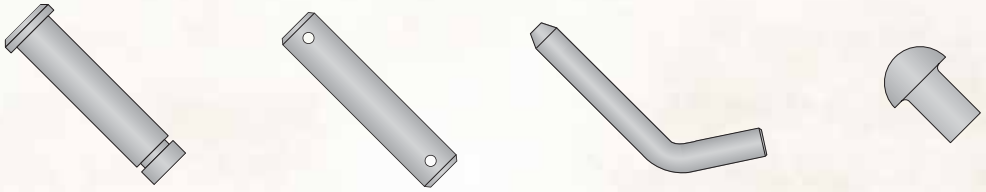
Clevis pins come in many shapes, styles, sizes, and materials. While using a bolt may seem to be a quick fix, bolts are designed to take tension forces while clevis pins are designed for shearing forces. In fact, some bolts are designed to shear under force.



	STANDARD	SAE	UNIVERSAL	COTTERLESS
COMMON NAMES	Cornpicker Pin, Flat Head Pin, Hitch Pin	SAE Clevis Pin, Clevis Pin	Adjustable Clevis, Multi-grip Clevis	Detent Clevis Pin
APPLICABLE STANDARDS	Metric pins specified by ISO 2341.	No specific known SAE number, just a recited "SAE Standard." The standard is more of a guideline than a specification.	None known. There are multiple designs in existence, with varying hole quantities and sizes.	None known.
FABRICATION	Turn or cold-head a blank. Cross drilling. Countersink may apply.	Turn or cold-head a blank. Cross drilling. Countersink is mandatory. End chamfer is mandatory.	Turn or cold-head a blank. Cross drilling. Countersink may apply.	Turn or cold-head a blank. Drill for detent cavity. Hydraulic press to install detent ball.
HOW TO IDENTIFY	Nominal diameter × length of pin from beneath the head to end of pin. The hole is located one hole diameter from the end of pin.	Standard nominal sizing based on diameter, as in "SAE clevis pin, half inch."	Nominal diameter × length of pin, count the number of holes.	Nominal diameter × length from beneath head to end of pin.
COMMON USES	Agricultural and power equipment, where there are non-precise movements. Used in moving linkages as a fulcrum or pivot, with low cost and quick disconnect feature.	Agricultural and power equipment, where there are non-precise movements. Used in moving linkages as a fulcrum or pivot, with low cost and quick disconnect feature.	Good aftermarket part where the user is not certain of length requirement. Also used for applications where adjustment is needed.	Used in applications where frequent reusability or adjustment is needed. Low lateral torque, so generally lighter duty.
COMMENTS	Be careful of effective length vs. total length. Also head diameter, special hardness, and materials can be critical. Use with hitch pin clip or cotter pin.	The SAE is an effort to develop common sizes, so as to reduce the number of clevis pins designed and in circulation.	Holes are typically 1/4" apart and should be aligned linearly. Some users cut off excess length after installation.	Two detent designs possible – synthetic rubber, considered cheaper, but low heat, versus metal spring, more expensive. *See "Detent Ball Apparatus," page 64.*

Prices, materials, dimensions, tolerances, designs, and grades subject to change without notice. © 2015 G.L. Huyett

QUICK REFERENCE GUIDE



	GROOVED	HEADLESS	BENT	RIVET
COMMON NAMES	Grooved Pin, Grooved Clevis	Clevis Pin, Yoke Pin, Hydraulic Pin, Cylinder Pin	Hitch Pin, Trailer Pin	Buttonhead, Truss Head, Flat Head Rivets
APPLICABLE STANDARDS	None known, other than for groove dimensions to match mating E-clip or hair pin.	None known.	None known.	ASME B18.8.1 for up to 7/16" diameter. ASME B18.8.2 for diameters greater than 7/16".
FABRICATION	Turned in one CNC operation; or cold-headed and then grooved in a secondary operation.	Turn. If with holes, cross drill holes. May be headed in certain applications.	Shear or saw cut to length. Drill hole or turn groove. Bend.	Cold-head. In highly specialized applications parts may be turned.
HOW TO IDENTIFY	Nominal diameter × length of pin from beneath the head to end of pin. Since the effective length is the critical measurement, the amount of pin after the groove is not standardized.	Nominal diameter × grip length (distance between grooves or holes).	Nominal diameter × effective length. Effective length is measured from "bend" to edge of hole.	Head design × nominal diameter × length beneath the head.
COMMON USES	Used in similar applications as clevis pins. Advantage of grooved design is better lateral resistance and more precise effective length control.	Tend to be larger diameter than clevis pins, and therefore heavier duty. Use where access from both sides is needed. Common in agriculture, power equipment, and construction applications.	As a hitch pin in lighter duty trailers. The bend is an economical method to realize a handle and end-stop.	Mostly original equipment. Used for permanent joining at a lower cost than threaded, but without torquing strength.
COMMENTS	Usually higher cost than standard clevis pins. Installation requires a special tool.	Three typical designs; with holes, with grooves, or with both. Grooved design in combination with E-clips has better lateral holding power. Also used with hair pins, bridge pins, or cotter pins.	Bent pins with holes are generally more common than those with grooves because holed versions are sturdier. Use with bridge pin, cotter pin, or hair pin.	Application specific.

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CLEVIS PINS

HUYETT.COM • 785-392-3017

BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

STANDARD – IMPERIAL

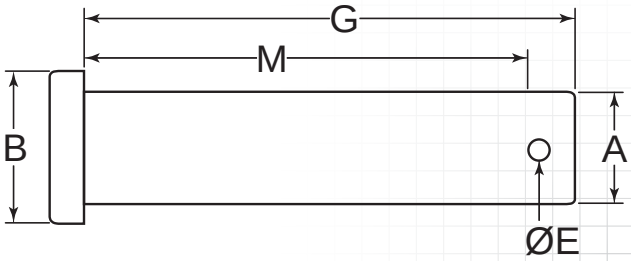
DESCRIPTION

Solid pin with standard flat head that secures with a hitch pin clip or cotter pin through a hole drilled in the opposite end. Clevis pins are used as a quick and secure fastener in many agricultural and industrial applications.

HOW TO IDENTIFY

1. Verify flat head pin with hole at opposite end.
2. Measure diameter (A).
3. Measure shank length (G).
4. Confirm effective length (M).
5. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CLP	=	LOW CARBON STEEL, PLAIN*
CLPS	=	STAINLESS STEEL
CLPS6	=	MARINE GRADE 316 STAINLESS STEEL
CLPZ	=	ZINC CLEAR
CLPY	=	ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3/16 (.188")

(A) Outside Diameter: .186/.181"

(B) Head Diameter: .310", .320/.302"
(E) Hole Diameter: .094", .103/.088"
(G) Tolerance: +.020/-.000" Use With: BP-223, Pg. 106

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0187-0500	.500" (1/2)	.359"
PREFIX-0187-0593	.594" (19/32)	.452"
PREFIX-0187-0625	.625" (5/8)	.484"
PREFIX-0187-0750	.750" (3/4)	.609"
PREFIX-0187-0875	.875" (7/8)	.734"
PREFIX-0187-1000	1.000" (1)	.859"
PREFIX-0187-1125	1.125" (1-1/8)	.984"
PREFIX-0187-1250	1.250" (1-1/4)	1.109"
PREFIX-0187-1500	1.500" (1-1/2)	1.359"
PREFIX-0187-1750	1.750" (1-3/4)	1.609"
PREFIX-0187-2000	2.000" (2)	1.859"
PREFIX-0187-2250	2.250" (2-1/4)	2.109"
PREFIX-0187-2500	2.500" (2-1/2)	2.359"
PREFIX-0187-3000	3.000" (3)	2.859"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:
CLP • CLPS • CLPS6
CLPZ • CLPY

1/4 (.250")

(A) Outside Diameter: .248/.243"

(B) Head Diameter: .370", .380/.365"
(E) Hole Diameter: .094", .103/.088"
(G) Tolerance +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0250-0500	.500" (1/2)	.359"
PREFIX-0250-0625	.625" (5/8)	.484"
PREFIX-0250-0750	.750" (3/4)	.609"
PREFIX-0250-0875	.875" (7/8)	.734"
PREFIX-0250-1000	1.000" (1)	.859"
PREFIX-0250-1125	1.125" (1-1/8)	.984"
PREFIX-0250-1250	1.250" (1-1/4)	1.109"
PREFIX-0250-1375	1.375" (1-3/8)	1.234"
PREFIX-0250-1500	1.500" (1-1/2)	1.359"
PREFIX-0250-1625	1.625" (1-5/8)	1.484"
PREFIX-0250-1750	1.750" (1-3/4)	1.609"
PREFIX-0250-1875	1.875" (1-7/8)	1.734"
PREFIX-0250-2000	2.000" (2)	1.859"
PREFIX-0250-2125	2.125" (2-1/8)	1.984"
PREFIX-0250-2250	2.250" (2-1/4)	2.109"
PREFIX-0250-2375	2.375" (2-3/8)	2.234"
PREFIX-0250-2437	2.437" (2-7/16)	2.296"
PREFIX-0250-2500	2.500" (2-1/2)	2.359"
PREFIX-0250-2625	2.625" (2-5/8)	2.484"
PREFIX-0250-2750	2.750" (2-3/4)	2.609"
PREFIX-0250-3000	3.000" (3)	2.859"
PREFIX-0250-3250	3.250" (3-1/4)	3.109"
PREFIX-0250-3500	3.500" (3-1/2)	3.359"
PREFIX-0250-3750	3.750" (3-3/4)	3.609"
PREFIX-0250-4000	4.000" (4)	3.859"
PREFIX-0250-4500	4.500" (4-1/2)	4.359"
PREFIX-0250-5000	5.000" (5)	4.859"
PREFIX-0250-5500	5.500" (5-1/2)	5.350"

5/16 (.313")

(A) Outside Diameter: .311/.306"

(B) Head Diameter: .434", .444/.437"
(E) Hole Diameter: .141", .150/.135"
(G) Tolerance +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0312-0500	.500" (1/2)	.281"
PREFIX-0312-0750	.750" (3/4)	.531"
PREFIX-0312-0875	.875" (7/8)	.656"
PREFIX-0312-0968	.968" (31/32)	.750"
PREFIX-0312-1000	1.000" (1)	.781"
PREFIX-0312-1125	1.125" (1-1/8)	.906"
PREFIX-0312-1187	1.187" (1-3/16)	.968"
PREFIX-0312-1250	1.250" (1-1/4)	1.031"
PREFIX-0312-1375	1.375" (1-3/8)	1.156"
PREFIX-0312-1500	1.500" (1-1/2)	1.281"

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

STANDARD – IMPERIAL

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0312-1625	1.625" (1-5/8)	1.406"
PREFIX-0312-1687	1.687" (1-11/16)	1.468"
PREFIX-0312-1750	1.750" (1-3/4)	1.531"
PREFIX-0312-1812	1.812" (1-13/16)	1.593"
PREFIX-0312-1875	1.875" (1-7/8)	1.656"
PREFIX-0312-1937	1.937" (1-15/16)	1.718"
PREFIX-0312-2000	2.000" (2)	1.781"
PREFIX-0312-2125	2.125" (2-1/8)	1.906"
PREFIX-0312-2187	2.187" (2-3/16)	1.968"
PREFIX-0312-2250	2.250" (2-1/4)	2.031"
PREFIX-0312-2375	2.375" (2-3/8)	2.156"
PREFIX-0312-2500	2.500" (2-1/2)	2.281"
PREFIX-0312-2625	2.625" (2-5/8)	2.406"
PREFIX-0312-2750	2.750" (2-3/4)	2.531"
PREFIX-0312-2812	2.812" (2-13/16)	2.593"
PREFIX-0312-2875	2.875" (2-7/8)	2.656"
PREFIX-0312-3000	3.000" (3)	2.781"
PREFIX-0312-3125	3.125" (3-1/8)	2.906"
PREFIX-0312-3250	3.250" (3-1/4)	3.031"
PREFIX-0312-3500	3.500" (3-1/2)	3.281"
PREFIX-0312-3750	3.750" (3-3/4)	3.531"
PREFIX-0312-4000	4.000" (4)	3.781"
PREFIX-0312-4500	4.500" (4-1/2)	4.281"
PREFIX-0312-5000	5.000" (5)	4.781"
PREFIX-0312-6000	6.000" (6)	5.781"

3/8 (.375")

(A) Outside Diameter: .373/.368"

(B) Head Diameter: .500", .510/.490"
(E) Hole Diameter: .156", .166/.151"
(G) Tolerance +.020/-.000" Use With: BP-213, Pg. 107

PREFIX-0375-0625	.625" (5/8)	.390"
PREFIX-0375-0750	.750" (3/4)	.515"
PREFIX-0375-0875	.875" (7/8)	.640"
PREFIX-0375-1000	1.000" (1)	.765"
PREFIX-0375-1093	1.093" (1-3/32)	.859"
PREFIX-0375-1125	1.125" (1-1/8)	.890"

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0375-1250	1.250" (1-1/4)	1.015"
PREFIX-0375-1312	1.312" (1-5/16)	1.078"
PREFIX-0375-1375	1.375" (1-3/8)	1.140"
PREFIX-0375-1500	1.500" (1-1/2)	1.265"
PREFIX-0375-1625	1.625" (1-5/8)	1.390"
PREFIX-0375-1750	1.750" (1-3/4)	1.515"
PREFIX-0375-1875	1.875" (1-7/8)	1.640"
PREFIX-0375-2000	2.000" (2)	1.765"
PREFIX-0375-2125	2.125" (2-1/8)	1.890"
PREFIX-0375-2250	2.250" (2-1/4)	2.015"
PREFIX-0375-2375	2.375" (2-3/8)	2.140"
PREFIX-0375-2500	2.500" (2-1/2)	2.265"
PREFIX-0375-2625	2.625" (2-5/8)	2.390"
PREFIX-0375-2750	2.750" (2-3/4)	2.515"
PREFIX-0375-3000	3.000" (3)	2.765"
PREFIX-0375-3250	3.250" (3-1/4)	3.015"
PREFIX-0375-3500	3.500" (3-1/2)	3.265"
PREFIX-0375-3750	3.750" (3-3/4)	3.515"
PREFIX-0375-4000	4.000" (4)	3.765"
PREFIX-0375-4500	4.500" (4-1/2)	4.265"
PREFIX-0375-5000	5.000" (5)	4.766"
PREFIX-0375-5250	5.250" (5-1/4)	5.016"
PREFIX-0375-5500	5.500" (5-1/2)	5.266"
PREFIX-0375-6000	6.000" (6)	5.766"
PREFIX-0375-6125	6.125" (6-1/8)	5.891"

7/16 (.437")

(A) Outside Diameter: .436/.431"

(B) Head Diameter: .560", .570/.552"
(E) Hole Diameter: .156", .166/.151"
(G) Tolerance +.020/-.000" Use With: BP-211, Pg. 109

PREFIX-0437-1000	1.000" (1)	.765"
PREFIX-0437-1250	1.250" (1-1/4)	1.015"
PREFIX-0437-1500	1.500" (1-1/2)	1.265"
PREFIX-0437-1625	1.625" (1-5/8)	1.390"
PREFIX-0437-1750	1.750" (1-3/4)	1.515"
PREFIX-0437-2000	2.000" (2)	1.765"

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0437-2250	2.250" (2-1/4)	2.015"
PREFIX-0437-2375	2.375" (2-3/8)	2.140"
PREFIX-0437-2500	2.500" (2-1/2)	2.265"
PREFIX-0437-2625	2.625" (2-5/8)	2.390"
PREFIX-0437-2750	2.750" (2-3/4)	2.515"
PREFIX-0437-3000	3.000" (3)	2.765"
PREFIX-0437-3500	3.500" (3-1/2)	3.265"
PREFIX-0437-4000	4.000" (4)	3.765"
PREFIX-0437-4500	4.500" (4-1/2)	4.265"
PREFIX-0437-5000	5.000" (5)	4.765"
PREFIX-0437-5500	5.500" (5-1/2)	5.265"
PREFIX-0437-6000	6.000" (6)	5.765"

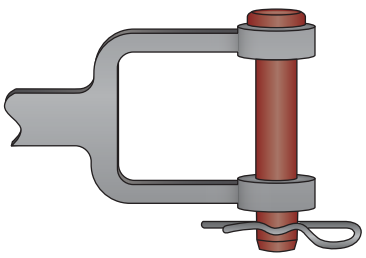
1/2 (.500")

(A) Outside Diameter: .496/.491"

(B) Head Diameter: .620", .630/.615"
(E) Hole Diameter: .156", .166/.151"
(G) Tolerance +.020/-.000" Use With: BP-211, Pg. 109

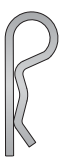
PREFIX-0500-0750	.750" (3/4)	.515"
PREFIX-0500-1000	1.000" (1)	.765"
PREFIX-0500-1250	1.250" (1-1/4)	1.015"
PREFIX-0500-1375	1.375" (1-3/8)	1.140"
PREFIX-0500-1500	1.500" (1-1/2)	1.265"
PREFIX-0500-1750	1.750" (1-3/4)	1.515"
PREFIX-0500-2000	2.000" (2)	1.765"
PREFIX-0500-2250	2.250" (2-1/4)	2.015"
PREFIX-0500-2500	2.500" (2-1/2)	2.265"
PREFIX-0500-2562	2.563" (2-9/16)	2.327"
PREFIX-0500-2625	2.625" (2-5/8)	2.390"
PREFIX-0500-2750	2.750" (2-3/4)	2.515"
PREFIX-0500-3000	3.000" (3)	2.765"
PREFIX-0500-3500	3.500" (3-1/2)	3.265"
PREFIX-0500-4000	4.000" (4)	3.765"
PREFIX-0500-4500	4.500" (4-1/2)	4.265"
PREFIX-0500-5000	5.000" (5)	4.765"
PREFIX-0500-6000	6.000" (6)	5.765"
PREFIX-0500-7500	7.500" (7-1/2)	7.265"

APPLICATION

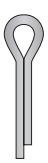


AS A SWIVELING HITCH

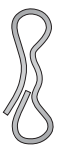
PEOPLE WHO BOUGHT THESE ALSO BOUGHT



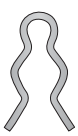
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CLEVIS PINS

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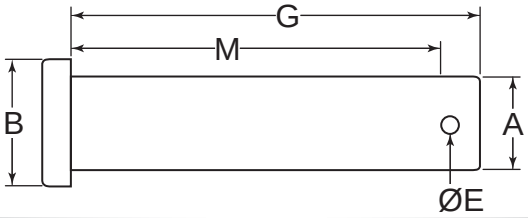
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STANDARD – IMPERIAL

PREFIX		MATERIAL/FINISH
CLP	=	LOW CARBON STEEL, PLAIN*
CLPS	=	STAINLESS STEEL
CLPS6	=	MARINE GRADE 316 STAINLESS STEEL
CLPZ	=	ZINC CLEAR
CLPY	=	ZINC YELLOW

Material/finish combinations may not be available in all sizes.



9/16 (.562")

(A) Outside Diameter: .558/.553"

(B) Head Diameter: .810", .820/.802"
(E) Hole Diameter: .156", .166/.151"
(G) Tolerance +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0562-1500	1.500" (1-1/2)	1.266"
PREFIX-0562-1750	1.750" (1-3/4)	1.516"
PREFIX-0562-2000	2.000" (2)	1.765"
PREFIX-0562-2250	2.250" (2-1/4)	2.016"
PREFIX-0562-2500	2.500" (2-1/2)	2.266"
PREFIX-0562-2750	2.750" (2-3/4)	2.516"
PREFIX-0562-3000	3.000" (3)	2.765"
PREFIX-0562-3500	3.500" (3-1/2)	3.266"
PREFIX-0562-4000	4.000" (4)	3.765"

5/8 (.625")

(A) Outside Diameter: .621/.616"

(B) Head Diameter: .810", .820/.802"
(E) Hole Diameter: .156", .166/.151"
(G) Tolerance +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0625-1250	1.250" (1-1/4)	1.015"
PREFIX-0625-1500	1.500" (1-1/2)	1.266"
PREFIX-0625-1750	1.750" (1-3/4)	1.515"
PREFIX-0625-2000	2.000" (2)	1.765"
PREFIX-0625-2250	2.250" (2-1/4)	2.016"
PREFIX-0625-2500	2.500" (2-1/2)	2.265"
PREFIX-0625-3000	3.000" (3)	2.765"
PREFIX-0625-3250	3.250" (3-1/4)	3.015"
PREFIX-0625-3500	3.500" (3-1/2)	3.266"
PREFIX-0625-4000	4.000" (4)	3.765"
PREFIX-0625-4250	4.500" (4-1/2)	4.015"
PREFIX-0625-4500	4.500" (4-1/2)	4.266"
PREFIX-0625-5000	5.000" (5)	4.765"
PREFIX-0625-5500	5.500" (5-1/2)	5.265"
PREFIX-0625-6000	6.000" (6)	5.765"

3/4 (.750")

(A) Outside Diameter: .746/.741"

(B) Head Diameter: .934", .944/.932"
(E) Hole Diameter: .156", .166/.151"
(G) Tolerance +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0750-2000	2.000" (2)	1.765"
PREFIX-0750-2500	2.500" (2-1/2)	2.265"
PREFIX-0750-2750	2.750" (2-3/4)	2.515"
PREFIX-0750-3000	3.000" (3)	2.765"
PREFIX-0750-3500	3.500" (3-1/2)	3.265"
PREFIX-0750-3750	3.750" (3-3/4)	3.515"
PREFIX-0750-4000	4.000" (4)	3.765"
PREFIX-0750-4500	4.500" (4-1/2)	4.265"
PREFIX-0750-5000	5.000" (5)	4.766"
PREFIX-0750-5500	5.500" (5-1/2)	5.266"
PREFIX-0750-6000	6.000" (6)	5.766"
PREFIX-0750-6500	6.500" (6-1/2)	6.266"

7/8 (.875")

(A) Outside Diameter: .871/.866"

(B) Head Diameter: 1.030", 1.040/1.020"
(E) Hole Diameter: .203", .213/.198"
(G) Tolerance +.020/-.000" Use With: BP-210, Pg. 110

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-0875-2000	2.000" (2)	1.703"
PREFIX-0875-2500	2.500" (2-1/2)	2.203"
PREFIX-0875-2750	2.750" (2-3/4)	2.453"
PREFIX-0875-3000	3.000" (3)	2.703"
PREFIX-0875-3500	3.500" (3-1/2)	3.203"
PREFIX-0875-4000	4.000" (4)	3.703"
PREFIX-0875-4500	4.500" (4-1/2)	4.203"
PREFIX-0875-5000	5.000" (5)	4.703"
PREFIX-0875-5500	5.500" (5-1/2)	5.203"
PREFIX-0875-6000	6.000" (6)	5.703"
PREFIX-0875-7000	7.000" (7)	6.703"
PREFIX-0875-8000	8.000" (8)	7.703"

1 (1.000")

(A) Outside Diameter: .996/.991"

(B) Head Diameter: 1.184", 1.194/1.182"
(E) Hole Diameter: .203", .213/.198"
(G) Tolerance +.020/-.000" Use With: BP-210, Pg. 110

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-1000-2000	2.000" (2)	1.703"
PREFIX-1000-2250	2.250" (2-1/4)	1.953"
PREFIX-1000-2500	2.500" (2-1/2)	2.203"
PREFIX-1000-2625	2.625" (2-5/8)	2.328"
PREFIX-1000-2750	2.750" (2-3/4)	2.453"
PREFIX-1000-2875	2.875" (2-7/8)	2.578"
PREFIX-1000-3000	3.000" (3)	2.703"
PREFIX-1000-3250	3.250" (3-1/4)	2.953"
PREFIX-1000-3500	3.500" (3-1/2)	3.203"
PREFIX-1000-3750	3.750" (3-3/4)	3.453"
PREFIX-1000-4000	4.000" (4)	3.703"
PREFIX-1000-4156	4.156" (4-5/32)	3.859"
PREFIX-1000-4500	4.500" (4-1/2)	4.203"
PREFIX-1000-5000	5.000" (5)	4.703"
PREFIX-1000-5500	5.500" (5-1/2)	5.203"
PREFIX-1000-5750	5.750" (5-3/4)	5.453"
PREFIX-1000-6000	6.000" (6)	5.703"
PREFIX-1000-6500	6.500" (6-1/2)	6.203"
PREFIX-1000-7000	7.000" (7)	6.703"
PREFIX-1000-8000	8.000" (8)	7.703"
PREFIX-1000-9000	9.000" (9)	8.703"
PREFIX-1000-9500	9.500" (9-1/2)	9.203"

1-1/8 (1.125")

(A) Outside Diameter: 1.125/1.105"

(B) Head Diameter: 1.375", 1.395/1.355"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: BP-208, Pg. 112

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-1125-3000	3.000" (3)	2.375"
PREFIX-1125-4000	4.000" (4)	3.375"
PREFIX-1125-4625	4.625" (4-5/8)	4.000"
PREFIX-1125-5000	5.000" (5)	4.375"
PREFIX-1125-6000	6.000" (6)	5.375"
PREFIX-1125-7000	7.000" (7)	6.375"
PREFIX-1125-8000	8.000" (8)	7.375"
PREFIX-1125-9000	9.000" (9)	8.375"

1-1/4 (1.250")

(A) Outside Diameter: 1.250/1.230"

(B) Head Diameter: 1.485", 1.500/1.470"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: BP-208, Pg. 112

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-1250-3000	3.000" (3)	2.375"
PREFIX-1250-4000	4.000" (4)	3.375"
PREFIX-1250-5000	5.000" (5)	4.375"
PREFIX-1250-6000	6.000" (6)	5.375"
PREFIX-1250-7000	7.000" (7)	6.625"
PREFIX-1250-8000	8.000" (8)	7.375"
PREFIX-1250-9000	9.000" (9)	8.375"

1-3/8 (1.375")

(A) Outside Diameter: 1.375/1.355"

(B) Head Diameter: 1.750", 1.765/1.735"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: BP-235, Pg. 112

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-1375-3000	3.000" (3)	2.375"
PREFIX-1375-4000	4.000" (4)	3.375"

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

STANDARD – IMPERIAL

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-1375-5000	5.000" (5)	4.375"
PREFIX-1375-6000	6.000" (6)	5.375"
PREFIX-1375-9000	9.000" (9)	8.375"

1-1/2 (1.500")

(A) Outside Diameter: 1.500/1.480"

(B) Head Diameter: 2.000", 2.020/1.980"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: BP-235, Pg. 112

PREFIX-1500-3000	3.000" (3)	2.375"
PREFIX-1500-4000	4.000" (4)	3.375"
PREFIX-1500-5000	5.000" (5)	4.375"
PREFIX-1500-6000	6.000" (6)	5.375"
PREFIX-1500-9000	9.000" (9)	8.375"

1-5/8 (1.625")

(A) Outside Diameter: 1.625/1.605"

(B) Head Diameter: 2.000", 2.020/.1.980"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: CP-250-2250, Pg. 84

PREFIX-1625-3000	3.000" (3)	2.375"
PREFIX-1625-4000	4.000" (4)	3.375"
PREFIX-1625-5000	5.000" (5)	4.375"
PREFIX-1625-6000	6.000" (6)	5.375"
PREFIX-1625-9000	9.000" (9)	8.375"

1-3/4 (1.750")

(A) Outside Diameter: 1.730/1.750"

(B) Head Diameter: 2.250", 2.223/2.227"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: CP-250-2500, Pg. 84

PREFIX-1750-3000	3.000" (3)	2.375"
PREFIX-1750-4000	4.000" (4)	3.375"
PREFIX-1750-5000	5.000" (5)	4.375"
PREFIX-1750-6000	6.000" (6)	5.375"
PREFIX-1750-9000	9.000" (9)	8.375"

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-1875-3000	3.000" (3)	2.375"
PREFIX-1875-4000	4.000" (4)	3.375"
PREFIX-1875-5000	5.000" (5)	4.375"
PREFIX-1875-6000	6.000" (6)	5.375"
PREFIX-1875-9000	9.000" (9)	8.375"

1-7/8 (1.875")

(A) Outside Diameter: 1.875/1.855"

(B) Head Diameter: 2.250", 2.227/2.223"
(E) Hole Diameter: .250", .260/.245"
(G) Tolerance +.020/-.000" Use With: CP-250-2500, Pg. 84

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
PREFIX-2000-3000	3.000" (3)	2.375"
PREFIX-2000-4000	4.000" (4)	3.375"
PREFIX-2000-5000	5.000" (5)	4.375"
PREFIX-2000-6000	6.000" (6)	5.375"
PREFIX-2000-9000	9.000" (9)	8.375"

2 (2.000")

(A) Outside Diameter: 2.000/1.980"

(B) Head Diameter: 2.375", 2.395/2.355"
(E) Hole Diameter: .250", .260/.2445"
(G) Tolerance +.020/-.000" Use With: CP-250-3000, Pg. 84

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CUSTOM ASSORTMENTS



CUSTOM MARKING



CUSTOM PACKAGING

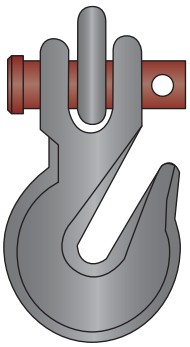


THE PACK LIST THAT WILL CHANGE YOUR LIFE™

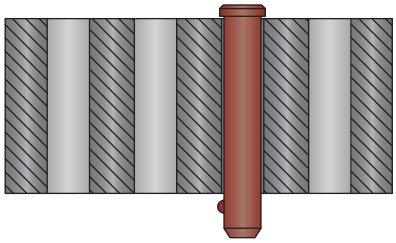


CUSTOMIZED DROP SHIP PACK LIST

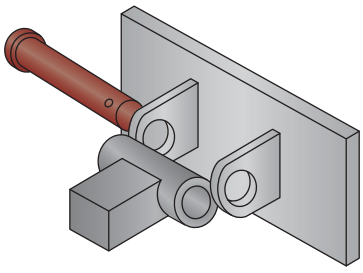
APPLICATIONS



AS A HOOK CONNECTOR



AS A POSITIONING POINT



AS A TOW BAR CONNECTION

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

CLEVIS PINS

HUYETT.COM • 785-392-3017

BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

STANDARD – METRIC

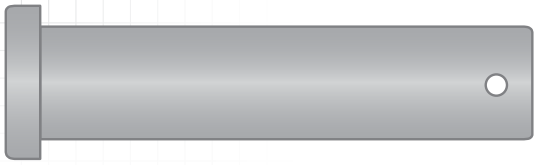
ISO 2341

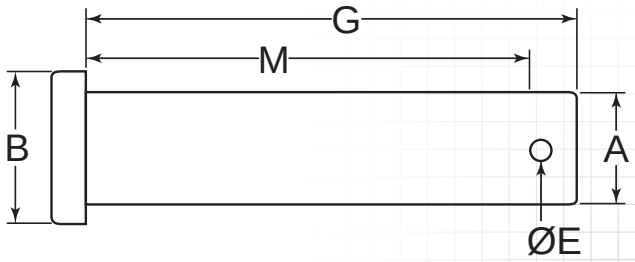
DESCRIPTION

Solid pin with standard flat head that secures with a hitch pin clip or cotter pin through a hole drilled in the opposite end. Clevis pins are used as a quick and secure fastener in many agricultural and industrial applications.

HOW TO IDENTIFY

1. Verify flat head pin with hole at opposite end.
2. Measure diameter (A).
3. Measure shank length (G).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

ISO 2341 identified by "-I" at end of item number.

CLPM = LOW CARBON STEEL, PLAIN*
CLPMS = STAINLESS STEEL, PLAIN
CLPMY = LOW CARBON STEEL, ZINC YELLOW
CLPMZ = LOW CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3.00 mm
(A) Outside Diameter: 3.00/2.94 mm

(B) Head Diameter: 5.00 mm, 5.00/4.98 mm
(E) Hole Diameter: 0.80 mm, 0.94/0.80 mm
Head Height: 1.00 mm, 1.12/0.88 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.25/-0.25 mm		
PREFIX-030-006-I	6.00 mm	4.00 mm
PREFIX-030-008-I	8.00 mm	6.00 mm
PREFIX-030-010-I	10.00 mm	8.00 mm
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-030-012-I	12.00 mm	10.00 mm
PREFIX-030-014-I	14.00 mm	12.00 mm
PREFIX-030-016-I	16.00 mm	14.00 mm
PREFIX-030-018-I	18.00 mm	16.00 mm
PREFIX-030-020-I	20.00 mm	18.00 mm
PREFIX-030-022-I	22.00 mm	20.00 mm
PREFIX-030-024-I	24.00 mm	22.00 mm
PREFIX-030-026-I	26.00 mm	24.00 mm
PREFIX-030-028-I	28.00 mm	26.00 mm
PREFIX-030-030-I	30.00 mm	28.00 mm

4.00 mm
(A) Outside Diameter: 4.00/3.925 mm

(B) Head Diameter: 6.00 mm, 6.00/5.70 mm
(E) Hole Diameter: 1.00 mm, 1.14/0.60 mm
Head Height: 1.00 mm, 1.12/0.88 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.25/-0.25 mm		
PREFIX-040-008-I	8.00 mm	5.30 mm
PREFIX-040-010-I	10.00 mm	7.30 mm
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-040-012-I	12.00 mm	9.30 mm
PREFIX-040-014-I	14.00 mm	11.30 mm
PREFIX-040-016-I	16.00 mm	13.30 mm
PREFIX-040-018-I	18.00 mm	15.30 mm
PREFIX-040-020-I	20.00 mm	17.30 mm
PREFIX-040-022-I	22.00 mm	19.30 mm
PREFIX-040-024-I	24.00 mm	21.30 mm
PREFIX-040-026-I	26.00 mm	23.30 mm
PREFIX-040-028-I	28.00 mm	25.30 mm
PREFIX-040-030-I	30.00 mm	27.30 mm
PREFIX-040-032-I	32.00 mm	29.30 mm
PREFIX-040-035-I	35.00 mm	32.30 mm
PREFIX-040-040-I	40.00 mm	37.30 mm

5.00 mm
(A) Outside Diameter: 5.00/4.925 mm

(B) Head Diameter: 8.00 mm, 8.00/7.64 mm
(E) Hole Diameter: 1.20 mm, 1.34/1.20 mm
Head Height: 1.60 mm, 1.72/1.48 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.25/-0.25 mm		
PREFIX-050-010-I	10.00 mm	6.50 mm
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-050-012-I	12.00 mm	8.50 mm
PREFIX-050-014-I	14.00 mm	10.50 mm
PREFIX-050-016-I	16.00 mm	12.50 mm
PREFIX-050-018-I	18.00 mm	14.50 mm
PREFIX-050-020-I	20.00 mm	16.50 mm
PREFIX-050-022-I	22.00 mm	18.50 mm
PREFIX-050-024-I	24.00 mm	20.50 mm
PREFIX-050-026-I	26.00 mm	22.50 mm
PREFIX-050-028-I	28.00 mm	24.50 mm
PREFIX-050-030-I	30.00 mm	26.50 mm
PREFIX-050-032-I	32.00 mm	28.50 mm
PREFIX-050-035-I	35.00 mm	31.50 mm
PREFIX-050-040-I	40.00 mm	36.50 mm
PREFIX-050-045-I	45.00 mm	41.50 mm
PREFIX-050-050-I	50.00 mm	46.50 mm

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

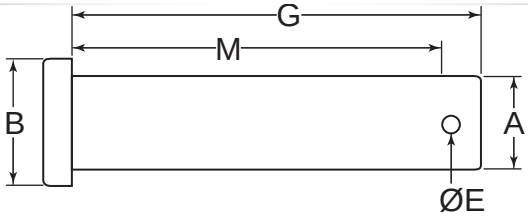
ISO 2341 STANDARD – METRIC

PREFIX	MATERIAL/FINISH

ISO 2341 identified by "-I" at end of item number.

CLPM	=	LOW CARBON STEEL, PLAIN*
CLPMS	=	STAINLESS STEEL, PLAIN
CLPMY	=	LOW CARBON STEEL, ZINC YELLOW
CLPMZ	=	LOW CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.



6.00 mm
(A) Outside Diameter: 6.00/5.925 mm

(B) Head Diameter: 10.00 mm, 10.00/9.64 mm
(E) Hole Diameter: 1.60 mm, 1.74/1.60 mm
Head Height: 2.00 mm, 2.12/1.88 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-060-012-I	12.00 mm	8.00 mm
PREFIX-060-014-I	14.00 mm	10.00 mm
PREFIX-060-016-I	16.00 mm	12.00 mm
PREFIX-060-018-I	18.00 mm	14.00 mm
PREFIX-060-020-I	20.00 mm	16.00 mm
PREFIX-060-022-I	22.00 mm	18.00 mm
PREFIX-060-024-I	24.00 mm	20.00 mm
PREFIX-060-026-I	26.00 mm	22.00 mm
PREFIX-060-028-I	28.00 mm	24.00 mm
PREFIX-060-030-I	30.00 mm	26.00 mm
PREFIX-060-032-I	32.00 mm	28.00 mm
PREFIX-060-035-I	35.00 mm	31.00 mm
PREFIX-060-040-I	40.00 mm	36.00 mm
PREFIX-060-045-I	45.00 mm	41.00 mm
PREFIX-060-050-I	50.00 mm	46.00 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-060-055-I	55.00 mm	51.00 mm
PREFIX-060-060-I	60.00 mm	56.00 mm

8.00 mm
(A) Outside Diameter: 8.00/7.91 mm

(B) Head Diameter: 14.00 mm, 14.00/13.57 mm
(E) Hole Diameter: 2.00 mm, 2.14/2.00 mm
Head Height: 3.00 mm, 3.12/2.88 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-080-016-I	16.00 mm	11.50 mm
PREFIX-080-018-I	18.00 mm	13.50 mm
PREFIX-080-020-I	20.00 mm	15.50 mm
PREFIX-080-022-I	22.00 mm	17.50 mm
PREFIX-080-024-I	24.00 mm	19.50 mm
PREFIX-080-026-I	26.00 mm	21.50 mm
PREFIX-080-028-I	28.00 mm	23.50 mm
PREFIX-080-030-I	30.00 mm	25.50 mm
PREFIX-080-032-I	32.00 mm	27.50 mm
PREFIX-080-035-I	35.00 mm	30.50 mm
PREFIX-080-040-I	40.00 mm	35.50 mm
PREFIX-080-045-I	45.00 mm	40.50 mm
PREFIX-080-050-I	50.00 mm	45.50 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-080-055-I	55.00 mm	50.50 mm
PREFIX-080-060-I	60.00 mm	55.50 mm
PREFIX-080-065-I	65.00 mm	60.50 mm
PREFIX-080-070-I	70.00 mm	65.50 mm
PREFIX-080-075-I	75.00 mm	70.50 mm
PREFIX-080-080-I	80.00 mm	75.50 mm

10.00 mm
(A) Outside Diameter

(B) Head Diameter: 18.00 mm
(E) Hole Diameter: 3.20 mm
Head Height: 4.00 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-100-018-I	18.00 mm	11.90 mm
PREFIX-100-020-I	20.00 mm	13.90 mm
PREFIX-100-022-I	22.00 mm	15.90 mm
PREFIX-100-024-I	24.00 mm	17.90 mm
PREFIX-100-026-I	26.00 mm	19.90 mm
PREFIX-100-028-I	28.00 mm	21.90 mm
PREFIX-100-030-I	30.00 mm	23.90 mm
PREFIX-100-032-I	32.00 mm	25.90 mm
PREFIX-100-035-I	35.00 mm	28.90 mm
PREFIX-100-040-I	40.00 mm	33.90 mm
PREFIX-100-045-I	45.00 mm	38.90 mm
PREFIX-100-050-I	50.00 mm	43.90 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-100-055-I	55.00 mm	48.90 mm
PREFIX-100-060-I	60.00 mm	53.90 mm
PREFIX-100-065-I	65.00 mm	58.90 mm
PREFIX-100-070-I	70.00 mm	63.90 mm
PREFIX-100-075-I	75.00 mm	68.90 mm
PREFIX-100-080-I	80.00 mm	73.90 mm
PREFIX-100-085-I	85.00 mm	78.90 mm
PREFIX-100-090-I	90.00 mm	83.90 mm
PREFIX-100-095-I	95.00 mm	88.90 mm
PREFIX-100-100-I	100.00 mm	93.90 mm

12.00 mm
(A) Outside Diameter: 12.00/11.89 mm

(B) Head Diameter: 20.00 mm, 20.00/19.48 mm
(E) Hole Diameter: 3.20 mm, 3.38/3.20 mm
Head Height: 4.00 mm, 4.15/3.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-120-024-I	24.00 mm	16.90 mm
PREFIX-120-026-I	26.00 mm	18.90 mm
PREFIX-120-028-I	28.00 mm	20.90 mm
PREFIX-120-030-I	30.00 mm	22.90 mm
PREFIX-120-032-I	32.00 mm	24.90 mm
PREFIX-120-035-I	35.00 mm	27.90 mm
PREFIX-120-040-I	40.00 mm	32.90 mm
PREFIX-120-045-I	45.00 mm	37.90 mm
PREFIX-120-050-I	50.00 mm	42.90 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-120-055-I	55.00 mm	47.90 mm
PREFIX-120-060-I	60.00 mm	52.90 mm
PREFIX-120-065-I	65.00 mm	57.90 mm
PREFIX-120-070-I	70.00 mm	62.90 mm
PREFIX-120-075-I	75.00 mm	67.90 mm
PREFIX-120-080-I	80.00 mm	72.90 mm
PREFIX-120-085-I	85.00 mm	77.90 mm
PREFIX-120-090-I	90.00 mm	82.90 mm
PREFIX-120-095-I	95.00 mm	87.90 mm
PREFIX-120-100-I	100.00 mm	92.90 mm
PREFIX-120-120-I	120.00 mm	112.90 mm

14.00 mm
(A) Outside Diameter: 14.00/13.89 mm

(B) Head Diameter: 22.00 mm, 22.00/21.48 mm
(E) Hole Diameter: 4.00 mm, 4.18/4.00 mm
Head Height: 4.00 mm, 4.15/3.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-140-028-I	28.00 mm	20.00 mm
PREFIX-140-030-I	30.00 mm	22.00 mm
PREFIX-140-032-I	32.00 mm	24.00 mm
PREFIX-140-035-I	35.00 mm	27.00 mm
PREFIX-140-040-I	40.00 mm	32.00 mm
PREFIX-140-045-I	45.00 mm	37.00 mm
PREFIX-140-050-I	50.00 mm	42.00 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-140-055-I	55.00 mm	47.00 mm
PREFIX-140-060-I	60.00 mm	52.00 mm
PREFIX-140-065-I	65.00 mm	57.00 mm
PREFIX-140-070-I	70.00 mm	62.00 mm
PREFIX-140-075-I	75.00 mm	67.00 mm
PREFIX-140-080-I	80.00 mm	72.00 mm
PREFIX-140-085-I	85.00 mm	77.00 mm
PREFIX-140-090-I	90.00 mm	82.00 mm
PREFIX-140-095-I	95.00 mm	87.00 mm
PREFIX-140-100-I	100.00 mm	92.00 mm

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CLEVIS PINS

HUYETT.COM • 785-392-3017

BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

STANDARD – METRIC

ISO 2341

14.00 mm
(A) Outside Diameter: 14.00/13.89 mm

(B) Head Diameter: 22.00 mm, 22.00/21.48 mm
(E) Hole Diameter: 4.00 mm, 4.18/4.00 mm
Head Height: 4.00 mm, 4.15/3.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
G) Shank Length: +0.75/-0.75 mm		
PREFIX-140-120-I	120.00 mm	112.00 mm
PREFIX-140-140-I	140.00 mm	132.00 mm

16.00 mm
(A) Outside Diameter: 16.00/15.89 mm

(B) Head Diameter: 25.00 mm, 25.00/24.48 mm
(E) Hole Diameter: 4.00 mm, 4.18/4.00 mm
Head Height: 4.50 mm, 4.65/4.35 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-160-032-I	32.00 mm	24.00 mm
PREFIX-160-035-I	35.00 mm	27.00 mm
PREFIX-160-040-I	40.00 mm	32.00 mm
PREFIX-160-045-I	45.00 mm	37.00 mm
PREFIX-160-050-I	50.00 mm	42.00 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-160-055-I	55.00 mm	47.00 mm
PREFIX-160-060-I	60.00 mm	52.00 mm
PREFIX-160-065-I	65.00 mm	57.00 mm
PREFIX-160-070-I	70.00 mm	62.00 mm
PREFIX-160-075-I	75.00 mm	67.00 mm
PREFIX-160-080-I	80.00 mm	72.00 mm
PREFIX-160-085-I	85.00 mm	77.00 mm
PREFIX-160-090-I	90.00 mm	82.00 mm
PREFIX-160-095-I	95.00 mm	87.00 mm
PREFIX-160-100-I	100.00 mm	92.00 mm
PREFIX-160-120-I	120.00 mm	112.00 mm
PREFIX-160-140-I	140.00 mm	132.00 mm
PREFIX-160-160-I	160.00 mm	152.00 mm

18.00 mm
(A) Outside Diameter: 18.00/17.89 mm

(B) Head Diameter: 28.00 mm, 28.00/27.48 mm
(E) Hole Diameter: 5.00 mm, 5.18/5.00 mm
Head Height: 5.00 mm, 5.15/4.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-180-035-I	35.00 mm	25.50 mm
PREFIX-180-040-I	40.00 mm	30.50 mm
PREFIX-180-045-I	45.00 mm	35.50 mm
PREFIX-180-050-I	50.00 mm	40.50 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-180-055-I	55.00 mm	45.50 mm
PREFIX-180-060-I	60.00 mm	50.50 mm
PREFIX-180-065-I	65.00 mm	55.50 mm
PREFIX-180-070-I	70.00 mm	60.50 mm
PREFIX-180-075-I	75.00 mm	65.50 mm
PREFIX-180-080-I	80.00 mm	70.50 mm
PREFIX-180-085-I	85.00 mm	75.50 mm
PREFIX-180-090-I	90.00 mm	80.50 mm
PREFIX-180-095-I	95.00 mm	85.50 mm
PREFIX-180-100-I	100.00 mm	90.50 mm
PREFIX-180-120-I	120.00 mm	110.50 mm
PREFIX-180-140-I	140.00 mm	130.50 mm
PREFIX-180-160-I	160.00 mm	150.50 mm
PREFIX-180-180-I	180.00 mm	170.50 mm

20.00 mm
(A) Outside Diameter: 20.00/19.87 mm

(B) Head Diameter: 30.00 mm, 30.00/29.48 mm
(E) Hole Diameter: 5.00 mm, 5.18/5.00 mm
Head Height: 5.00 mm, 5.15/4.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-200-035-I	35.00 mm	24.50 mm
PREFIX-200-040-I	40.00 mm	29.50 mm
PREFIX-200-045-I	45.00 mm	34.50 mm
PREFIX-200-050-I	50.00 mm	39.50 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-200-055-I	55.00 mm	44.50 mm
PREFIX-200-060-I	60.00 mm	49.50 mm
PREFIX-200-065-I	65.00 mm	54.50 mm
PREFIX-200-070-I	70.00 mm	59.50 mm
PREFIX-200-075-I	75.00 mm	64.50 mm
PREFIX-200-080-I	80.00 mm	69.50 mm
PREFIX-200-085-I	85.00 mm	74.50 mm
PREFIX-200-090-I	90.00 mm	79.50 mm
PREFIX-200-095-I	95.00 mm	84.50 mm
PREFIX-200-100-I	100.00 mm	89.50 mm
PREFIX-200-120-I	120.00 mm	109.50 mm
PREFIX-200-140-I	140.00 mm	129.50 mm
PREFIX-200-160-I	160.00 mm	149.50 mm
PREFIX-200-180-I	180.00 mm	169.50 mm
PREFIX-200-200-I	200.00 mm	189.50 mm

22.00 mm
(A) Outside Diameter: 22.00/21.87 mm

(B) Head Diameter: 33.00 mm, 33.00/32.38 mm
(E) Hole Diameter: 5.00 mm, 5.18/5.00 mm
Head Height: 5.50 mm, 5.65/5.35 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-220-045-I	45.00 mm	34.50 mm
PREFIX-220-050-I	50.00 mm	39.50 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-220-055-I	55.00 mm	44.50 mm
PREFIX-220-060-I	60.00 mm	49.50 mm
PREFIX-220-065-I	65.00 mm	54.50 mm
PREFIX-220-070-I	70.00 mm	59.50 mm
PREFIX-220-075-I	75.00 mm	64.50 mm
PREFIX-220-080-I	80.00 mm	69.50 mm
PREFIX-220-085-I	85.00 mm	74.50 mm
PREFIX-220-090-I	90.00 mm	79.50 mm
PREFIX-220-095-I	95.00 mm	84.50 mm
PREFIX-220-100-I	100.00 mm	89.50 mm
PREFIX-220-120-I	120.00 mm	109.50 mm
PREFIX-220-140-I	140.00 mm	129.50 mm
PREFIX-220-160-I	160.00 mm	149.50 mm
PREFIX-220-180-I	180.00 mm	169.50 mm
PREFIX-220-200-I	200.00 mm	189.50 mm

24.00 mm
(A) Outside Diameter: 24.00/23.87 mm

(B) Head Diameter: 36.00 mm, 36.00/35.38 mm
(E) Hole Diameter: 6.30 mm, 6.52/6.30 mm
Head Height: 6.00 mm, 6.15/5.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.50/-0.50 mm		
PREFIX-240-050-I	50.00 mm	37.85 mm
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-240-055-I	55.00 mm	42.85 mm
PREFIX-240-060-I	60.00 mm	47.85 mm
PREFIX-240-065-I	65.00 mm	52.85 mm
PREFIX-240-070-I	70.00 mm	57.85 mm
PREFIX-240-075-I	75.00 mm	62.85 mm
PREFIX-240-080-I	80.00 mm	67.85 mm
PREFIX-240-085-I	85.00 mm	72.85 mm
PREFIX-240-090-I	90.00 mm	77.85 mm
PREFIX-240-095-I	95.00 mm	82.85 mm
PREFIX-240-100-I	100.00 mm	87.85 mm
PREFIX-240-120-I	120.00 mm	107.85 mm
PREFIX-240-140-I	140.00 mm	127.85 mm
PREFIX-240-160-I	160.00 mm	147.85 mm
PREFIX-240-180-I	180.00 mm	167.85 mm
PREFIX-240-200-I	200.00 mm	187.85 mm

27.00 mm
(A) Outside Diameter: 27.00/26.87 mm

(B) Head Diameter: 40.00 mm, 40.00/39.38 mm
(E) Hole Diameter: 6.30 mm, 6.52/6.30 mm
Head Height: 6.00 mm, 6.15/5.85 mm

ITEM NUMBER	(G) SHANK LENGTH	(M) EFFECTIVE LENGTH
(G) Shank Length: +0.75/-0.75 mm		
PREFIX-270-055-I	55.00 mm	42.85 mm
PREFIX-270-060-I	60.00 mm	47.85 mm
PREFIX-270-065-I	65.00 mm	52.85 mm
PREFIX-270-070-I	70.00 mm	57.85 mm
PREFIX-270-075-I	75.00 mm	62.85 mm
PREFIX-270-080-I	80.00 mm	67.85 mm
PREFIX-270-085-I	85.00 mm	72.85 mm
PREFIX-270-090-I	90.00 mm	77.85 mm
PREFIX-270-095-I	95.00 mm	82.85 mm
PREFIX-270-100-I	100.00 mm	87.85 mm
PREFIX-270-120-I	120.00 mm	107.85 mm
PREFIX-270-140-I	140.00 mm	127.85 mm
PREFIX-270-160-I	160.00 mm	147.85 mm
PREFIX-270-180-I	180.00 mm	167.85 mm
PREFIX-270-200-I	200.00 mm	187.85 mm

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ASME B18.8.1

SAE

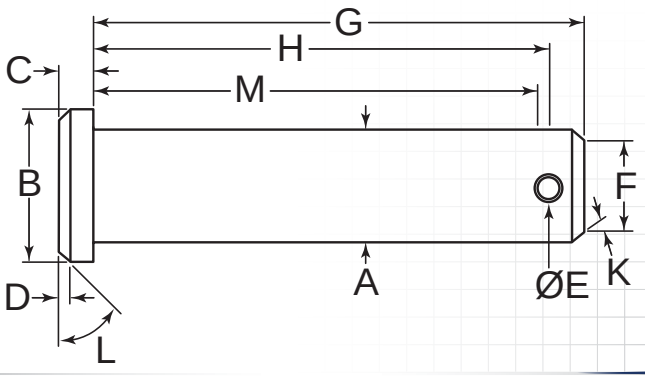
DESCRIPTION

Clevis pin manufactured to dimensional standards established by the Society of Automotive Engineers (SAE). *See "Specifications," page 14.*

HOW TO IDENTIFY

1. Verify flat head pin with a hole drilled at the opposite end.
2. Measure diameter (A).
3. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CLPSAE = LOW CARBON STEEL, PLAIN*
CLPSAEY = LOW CARBON STEEL, ZINC YELLOW
CLPSAEZ = LOW CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(A) OUTSIDE DIAMETER -.002/-.007"	(M) EFFECTIVE LENGTH	(G) SHANK LENGTH +.020/-.000"	(B) HEAD DIAMETER +.010/-.010"	(C) HEAD HEIGHT +.010/-.010"	(E) HOLE DIAMETER +.010/-.005"
PREFIX-0187	.188" (3/16)	(.440")	.580"	.310"	.060"	.088"
PREFIX-0250	.250" (1/4)	(.628")	.770"	.370"	.090"	.088"
PREFIX-0312	.313" (5/16)	(.752")	.940"	.430"	.090"	.119"
PREFIX-0375	.375" (3/8)	(.878")	1.060"	.500"	.120"	.119"
PREFIX-0437	.438" (7/16)	(1.002")	1.190"	.560"	.150"	.119"
PREFIX-0500	.500" (1/2)	(1.127")	1.360"	.620"	.150"	.151"
PREFIX-0625	.625" (5/8)	(1.337")	1.610"	.810"	.200"	.151"
PREFIX-0750	.750" (3/4)	(1.628")	1.910"	.930"	.250"	.182"
PREFIX-0875	.875" (7/8)	(1.878")	2.160"	1.030"	.310"	.182"
PREFIX-1000	1.000" (1)	(2.128")	2.410"	1.180"	.340"	.182"

ITEM NUMBER	(D) CHAMFER LENGTH +.010/-.010"	(F) POINT DIAMETER +.005/-.005"	(H) HEAD TO HOLE CENTER +.010/-.010"	(K) POINT ANGLE +2°/-2°	(L) CHAMFER ANGLE +2°/-2°	COMMONLY USED WITH COTTER PIN (SEE PG. 82)
PREFIX-0187	.020"	.145"	.494"	20°	45°	CP-062-0312
PREFIX-0250	.030"	.205"	.682"	20°	45°	CP-062-0375
PREFIX-0312	.030"	.255"	.822"	20°	45°	CP-093-0500
PREFIX-0375	.030"	.325"	.948"	20°	45°	CP-093-0500
PREFIX-0437	.040"	.385"	1.072"	20°	45°	CP-093-0625
PREFIX-0500	.040"	.435"	1.213"	20°	45°	CP-125-0625
PREFIX-0625	.060"	.555"	1.463"	20°	45°	CP-125-0750
PREFIX-0750	.070"	.675"	1.729"	20°	45°	CP-156-1000
PREFIX-0875	.090"	.795"	1.979"	20°	45°	CP-156-1000
PREFIX-1000	.100"	.925"	2.229"	20°	45°	CP-156-1250

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CLEVIS PINS

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BOX 232 • MINNEAPOLIS, KS • 67467

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UNIVERSAL

DESCRIPTION

Universal (adjustable) clevis pins are drilled with multiple holes. The excess holes can be cut off after installation, or retained to use the same pin in multiple applications. These pins are extremely versatile and are usually used as a replacement part.

HOW TO IDENTIFY

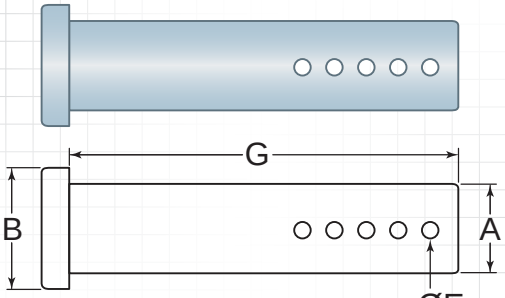
1. Verify flat head pin with multiple holes drilled at the opposite end.
2. Measure diameter (A).
3. Measure shank length (G).
4. Find the part in the chart below.

PREFIX MATERIAL/FINISH

CLPU = LOW CARBON STEEL, PLAIN*
CLPUS = 300 SERIES STAINLESS STEEL, PLAIN
CLPUY = LOW CARBON STEEL, ZINC YELLOW
CLPUZ = LOW CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ASSORTMENTS AVAILABLE
SEE PAGE 43



3/16 (.188")
(A) Outside Diameter: .181/.186"

(B) Head Diameter: .310"
(E) Hole Diameter: .094" (3/32)
(G) Tolerance: +.020/-.000" Use With: BP-223, Pg. 106

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0187-1000	1.000" (1)	3
PREFIX-0187-1500	1.500" (1-1/2)	5
PREFIX-0187-2000	2.000" (2)	5
PREFIX-0187-2500	2.500" (2-1/2)	5
PREFIX-0187-3000	3.000" (3)	5

1/4 (.250")
(A) Outside Diameter: .243/.248"

(B) Head Diameter: .370" .380/.365"
(E) Hole Diameter: .109" (7/64) .119/.104"
(G) Tolerance: +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0250-1000	1.000" (1)	3
PREFIX-0250-1500	1.500" (1-1/2)	5
PREFIX-0250-2000	2.000" (2)	6
PREFIX-0250-2500	2.500" (2-1/2)	7
PREFIX-0250-3000	3.000" (3)	7
PREFIX-0250-3500	3.500" (3-1/2)	7
PREFIX-0250-4000	4.000" (4)	7

5/16 (.313")
(A) Outside Diameter: .306/.311"

(B) Head Diameter: .434" .440/.428"
(E) Hole Diameter: .109" (7/64) .119/.104"
(G) Tolerance: +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0312-1000	1.000" (1)	3
PREFIX-0312-1500	1.500" (1-1/2)	5
PREFIX-0312-2000	2.000" (2)	6
PREFIX-0312-2500	2.500" (2-1/2)	7
PREFIX-0312-3000	3.000" (3)	7
PREFIX-0312-3500	3.500" (3-1/2)	7
PREFIX-0312-4000	4.000" (4)	7

3/8 (.375")
(A) Outside Diameter: .368/.373"

(B) Head Diameter: .500" (1/2) .510/.490"
(E) Hole Diameter: .140" .150/.135"
(G) Tolerance: +.020/-.000" Use With: BP-213, Pg. 107

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0375-1000	1.000" (1)	3
PREFIX-0375-1500	1.500" (1-1/2)	5
PREFIX-0375-2000	2.000" (2)	6
PREFIX-0375-2500	2.500" (2-1/2)	7
PREFIX-0375-3000	3.000" (3)	7
PREFIX-0375-3500	3.500" (3-1/2)	7
PREFIX-0375-4000	4.000" (4)	7

7/16 (.438")
(A) Outside Diameter: .431/.436"

(B) Head Diameter: .560".570/.552"
(E) Hole Diameter: .156" (5/32).166/.151"
(G) Tolerance: +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0437-2000	2.000" (2)	6
PREFIX-0437-2500	2.500" (2-1/2)	7
PREFIX-0437-3000	3.000" (3)	7
PREFIX-0437-3500	3.500" (3-1/2)	7
PREFIX-0437-4000	4.000" (4)	7

1/2 (.500")
(A) Outside Diameter: .491/.496"

(B) Head Diameter: .620" .630/.615"
(E) Hole Diameter: .156" (5/32) .166/.151"
(G) Tolerance: +.020/-.000 Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0500-2000	2.000" (2)	6
PREFIX-0500-2500	2.500" (2-1/2)	7
PREFIX-0500-3000	3.000" (3)	7
PREFIX-0500-3500	3.500" (3-1/2)	7
PREFIX-0500-4000	4.000" (4)	7

9/16 (.563")
(A) Outside Diameter: .553/.558"

(B) Head Diameter: .810" .820/.800"
(E) Hole Diameter: .156" (5/32) .166/.151"
(G) Tolerance: +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0562-2000	2.000" (2)	6
PREFIX-0562-3000	3.000" (3)	7
PREFIX-0562-4000	4.000" (4)	7

5/8 (.625")
(A) Outside Diameter: .616/.621"

(B) Head Diameter: .810" .820/.800"
(E) Hole Diameter: .156" (5/32) .166/.151"
(G) Tolerance: +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0625-2000	2.000" (2)	6
PREFIX-0625-3000	3.000" (3)	7
PREFIX-0625-4000	4.000" (4)	7

3/4 (.750")
(A) Outside Diameter: .741/.746"

(B) Head Diameter: .934" .940/.928"
(E) Hole Diameter: .156" (5/32) .166/.151"
(G) Tolerance: +.020/-.000" Use With: BP-211, Pg. 109

ITEM NUMBER	(G) SHANK LENGTH	HOLE QUANTITY
PREFIX-0750-2000	2.000" (2)	6
PREFIX-0750-3000	3.000" (3)	7
PREFIX-0750-4000	4.000" (4)	7

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COTTERLESS

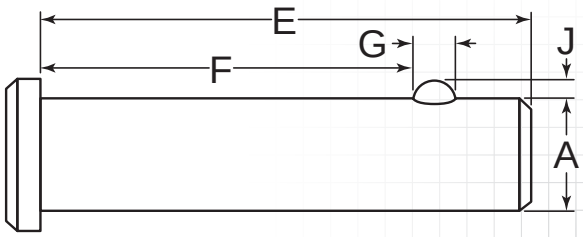
DESCRIPTION

Cotterless (detent) clevis pins feature a spring-loaded ball bearing for easy one-piece fastening. Typical uses include blind holes or in repetitive-use applications. *See also "Detent Pins," page 67.*

HOW TO IDENTIFY

1. Verify flat head pin with self-locking ball bearing at opposite end.
2. Measure diameter (A).
3. Measure shank length (G).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CLPCZ = LOW CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(E) SHANK LENGTH	(F) EFFECTIVE LENGTH
3/16 (.188") (A) Outside Diameter .186/.181"	(J) Ball Height: .017" .022/.012" (G) Ball Width: .078" (5/64) (E) Tolerance: +.020/-.000"	
CLPCZ-0187-1000	1.000" (1)	.812" (13/16)
CLPCZ-0187-1500	1.500" (1-1/2)	1.312" (1-5/16)
CLPCZ-0187-2000	2.000" (2)	1.812" (1-13/16)
CLPCZ-0187-2500	2.500" (2-1/2)	2.312" (2-5/16)
CLPCZ-0187-3000	3.000" (3)	2.812" (2-13/16)
1/4 (.250") (A) Outside Diameter .248/.243"	(J) Ball Height: .036" .041/.031" (G) Ball Width: .125" (1/8) (E) Tolerance: +.020/-.000"	
CLPCZ-0250-1000	1.000" (1)	.750" (3/4)
CLPCZ-0250-1500	1.500" (1-1/2)	1.250" (1-1/4)
CLPCZ-0250-2000	2.000" (2)	1.750" (1-3/4)
CLPCZ-0250-2500	2.500" (2-1/2)	2.250" (2-1/4)
CLPCZ-0250-3000	3.000" (3)	2.750" (2-3/4)
CLPCZ-0250-3500	3.500" (3-1/2)	3.250" (3-1/4)
CLPCZ-0250-4000	4.000" (4)	3.750" (3-3/4)
CLPCZ-0250-5000	5.000" (5)	4.750" (4-3/4)
5/16 (.313") (A) Outside Diameter .311/.306"	(J) Ball Height: .047" (3/64) .051/.041" (G) Ball Width: .156" (5/32) (E) Tolerance: +.020/-.000"	
CLPCZ-0312-1000	1.000" (1)	.625" (5/8)
CLPCZ-0312-1500	1.500" (1-1/2)	1.125" (1-1/8)
CLPCZ-0312-2000	2.000" (2)	1.625" (1-5/8)
CLPCZ-0312-2500	2.500" (2-1/2)	2.125" (2-1/8)
CLPCZ-0312-3000	3.000" (3)	2.625" (2-5/8)
CLPCZ-0312-3500	3.500" (3-1/2)	3.125" (3-1/8)
CLPCZ-0312-4000	4.000" (4)	3.625" (3-5/8)
3/8 (.375") (A) Outside Diameter .373/.368"	(J) Ball Height: .051" .056/.047" (G) Ball Width: .188" (3/16) (E) Tolerance: +.020/-.000"	
CLPCZ-0375-1000	1.000" (1)	.625" (5/8)
CLPCZ-0375-1500	1.500" (1-1/2)	1.125" (1-1/8)
CLPCZ-0375-2000	2.000" (2)	1.625" (1-5/8)
CLPCZ-0375-2500	2.500" (2-1/2)	2.125" (2-1/8)
CLPCZ-0375-3000	3.000" (3)	2.625" (2-5/8)
CLPCZ-0375-3500	3.500" (3-1/2)	3.125" (3-1/8)
CLPCZ-0375-4000	4.000" (4)	3.625" (3-5/8)
1/2 (.500") (A) Outside Diameter .496/.491"	(J) Ball Height: .059" .064/.054" (G) Ball Width: .250" (1/4) (E) Tolerance: +.020/-.000"	
CLPCZ-0500-1000	1.000" (1)	.500" (1/2)
CLPCZ-0500-1500	1.500" (1-1/2)	1.125" (1-1/8)
CLPCZ-0500-2000	2.000" (2)	1.500" (1-1/2)
CLPCZ-0500-2500	2.500" (2-1/2)	2.000" (2)
CLPCZ-0500-3000	3.000" (3)	2.500" (2-1/2)
CLPCZ-0500-3500	3.500" (3-1/2)	3.000" (3)
CLPCZ-0500-4000	4.000" (4)	3.500" (3-1/2)
CLPCZ-0500-4500	4.500" (4-1/2)	4.000" (4)
CLPCZ-0500-5000	5.000" (5)	4.500" (4-1/2)

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DESCRIPTION

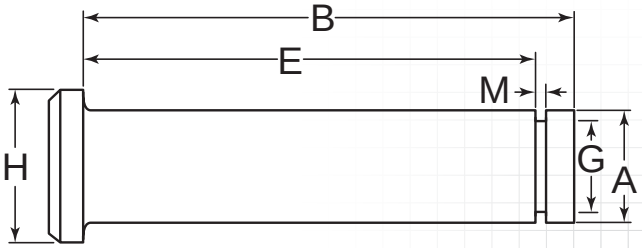
Standard clevis pin with an annular groove. These pins are best used in automated assembly or where lateral movement is undesirable.

PREFIX		MATERIAL/FINISH
CLPGS	=	18-8 STAINLESS STEEL, PLAIN

HOW TO IDENTIFY

1. Verify flat head pin with a groove around the opposite end.
2. Measure diameter (A).
3. Measure shank length (B).
4. Find the part in the chart below.





ITEM NUMBER	(B) SHANK LENGTH	(E) EFFECTIVE LENGTH
3/16 (.188") (A) Outside Diameter .186/.181"	(H) Head Diameter: .310" .320/.302" (G) Groove Diameter: .147" .149/.147" (M) Groove Width: .030" .032/.029" (E) Tolerance: +.020/-.000"	Use With: E-018, Pg. 124
CLPGS-0187-0500	.500" (1/2)	.406" (13/32)
CLPGS-0187-0750	.750" (3/4)	.656" (21/32)
CLPGS-0187-1000	1.000" (1)	.906" (29/32)
CLPGS-0187-1250	1.250" (1-1/4)	1.156" (1-5/32)
CLPGS-0187-1500	1.500" (1-1/2)	1.406" (1-13/32)
CLPGS-0187-2000	2.000" (2)	1.906" (1-29/32)
CLPGS-0187-2500	2.500" (2-1/2)	2.406" (2-13/32)
CLPGS-0187-3000	3.000" (3)	2.906" (2-29/32)
1/4 (.250") (A) Outside Diameter .248/.243"	(H) Head Diameter: .370" .380/.365" (G) Groove Diameter: .210" .213/.210" (M) Groove Width: .030" .032/.029" (E) Tolerance: +.020/-.000"	Use With: E-025, Pg. 124
CLPGS-0250-0500	.500" (1/2)	.406" (13/32)
CLPGS-0250-0750	.750" (3/4)	.656" (21/32)
CLPGS-0250-1000	1.000" (1)	.906" (29/32)
CLPGS-0250-1250	1.250" (1-1/4)	1.156" (1-5/32)
CLPGS-0250-1500	1.500" (1-1/2)	1.406" (1-13/32)
CLPGS-0250-2000	2.000" (2)	1.906" (1-29/32)
CLPGS-0250-2250	2.250" (2-1/4)	2.156" (1-5/32)
CLPGS-0250-2500	2.500" (2-1/2)	2.406" (1-13/32)
CLPGS-0250-3000	3.000" (3)	2.906" (2-29/32)

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(B) SHANK LENGTH	(E) EFFECTIVE LENGTH
5/16 (.313") (A) Outside Diameter .311/.306"	(H) Head Diameter: .434" .440/.420" (G) Groove Diameter: .250" (1/4) .253/.250" (M) Groove Width: .030" .032/.029" (E) Tolerance: +.020/-.000"	Use With: E-031, Pg. 124
CLPGS-0312-0750	.750" (3/4)	.609" (39/64)
CLPGS-0312-1000	1.000" (1)	.859" (55/64)
CLPGS-0312-1250	1.250" (1-1/4)	1.109" (1-7/64)
CLPGS-0312-1500	1.500" (1-1/2)	1.359" (1-23/64)
CLPGS-0312-2000	2.000" (2)	1.859" (1-55/64)
CLPGS-0312-2250	2.250" (2-1/4)	2.109" (2-7/64)
CLPGS-0312-2500	2.500" (2-1/2)	2.359" (2-23/64)
CLPGS-0312-3000	3.000" (3)	2.859" (2-55/64)
3/8 (.375") (A) Outside Diameter .373/.368"	(H) Head Diameter: .500" (1/2) .510/.490" (G) Groove Diameter: .303" .306/.303" (M) Groove Width: .040" .042/.039" (E) Tolerance: +.020/-.000"	Use With: E-037, Pg. 124
CLPGS-0375-1000	1.000" (1)	.843" (27/32)
CLPGS-0375-1250	1.250" (1-1/4)	1.093" (1-3/32)
CLPGS-0375-1500	1.500" (1-1/2)	1.343" (1-11/32)
CLPGS-0375-2000	2.000" (2)	1.843" (1-27/32)
CLPGS-0375-2250	2.250" (2-1/4)	2.093" (2-3/32)
CLPGS-0375-2500	2.500" (2-1/2)	2.343" (2-11/32)
CLPGS-0375-3000	3.000" (3)	2.843" (2-27/32)
1/2 (.500") (A) Outside Diameter .496/.491"	(H) Head Diameter: .620" .630/.615" (G) Groove Diameter: .396" .399/.396" (M) Groove Width: .048" .049/.047" (E) Tolerance: +.020/-.000"	Use With: E-050, Pg. 125
CLPGS-0500-1500	1.500" (1-1/2)	1.343" (1-11/32)
CLPGS-0500-2000	2.000" (2)	1.843" (1-27/32)
CLPGS-0500-2500	2.500" (2-1/2)	2.343" (2-11/32)
CLPGS-0500-3000	3.000" (3)	2.843" (2-27/32)

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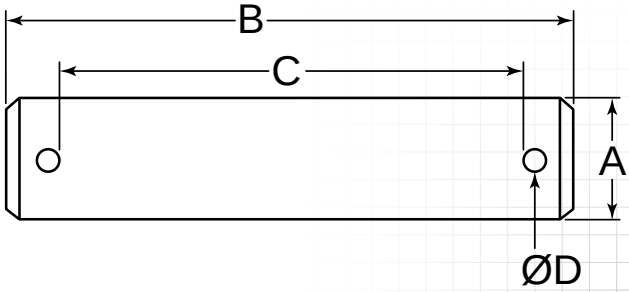
DESCRIPTION

These solid pins are drilled on each chamfered end. The pins are held in place by wire form pins. These pins are used in yokes or blind holes.

HOW TO IDENTIFY

1. Verify drilled holes on each end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

HLP = MEDIUM CARBON STEEL, ZINC CLEAR
HLPS = STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(A) OUTSIDE DIAMETER +.000/-.002"	(C) EFFECTIVE LENGTH +.030/-.000"	(B) OVERALL LENGTH +.025/-.025"	(D) HOLE DIAMETER +.010/-.005"
PREFIX-0187-0718	.188" (3/16)	.719" (23/32)	1.000" (1)	.078" (5/64)
PREFIX-0187-0750	.188" (3/16)	.750" (3/4)	1.031" (1-1/32)	.078" (5/64)
PREFIX-0187-1000	.188" (3/16)	1.000" (1)	1.281" (1-9/32)	.078" (5/64)
PREFIX-0187-1250	.188" (3/16)	1.250" (1-1/4)	1.531" (1-17/32)	.078" (5/64)
PREFIX-0187-1500	.188" (3/16)	1.500" (1-1/2)	1.719" (1-23/32)	.078" (5/64)
PREFIX-0250-0718	.250" (1/4)	.719" (23/32)	1.000" (1)	.078" (5/64)
PREFIX-0250-0750	.250" (1/4)	.750" (3/4)	1.031" (1-1/32)	.078" (5/64)
PREFIX-0250-1000	.250" (1/4)	1.000" (1)	1.281" (1-9/32)	.078" (5/64)
PREFIX-0250-1250	.250" (1/4)	1.250" (1-1/4)	1.531" (1-17/32)	.078" (5/64)
PREFIX-0250-1500	.250" (1/4)	1.500" (1-1/2)	1.781" (1-25/32)	.078" (5/64)
PREFIX-0312-0531	.313" (5/16)	.531" (17/32)	1.000" (1)	.109" (7/64)
PREFIX-0312-0750	.313" (5/16)	.750" (3/4)	1.094" (1-3/32)	.109" (7/64)
PREFIX-0312-1000	.313" (5/16)	1.000" (1)	1.344" (1-11/32)	.109" (7/64)
PREFIX-0312-1250	.313" (5/16)	1.250" (1-1/4)	1.594" (1-19/32)	.109" (7/64)
PREFIX-0312-1500	.313" (5/16)	1.500" (1-1/2)	1.844" (1-27/32)	.109" (7/64)
PREFIX-0375-0531	.375" (3/8)	.531" (17/32)	1.000" (1)	.109" (7/64)
PREFIX-0375-1000	.375" (3/8)	1.000" (1)	1.344" (1-11/32)	.109" (7/64)
PREFIX-0375-1250	.375" (3/8)	1.250" (1-1/4)	1.594" (1-19/32)	.109" (7/64)
PREFIX-0375-1500	.375" (3/8)	1.500" (1-1/2)	1.844" (1-27/32)	.109" (7/64)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:
HLP • HLPS

IN STOCK
ORDERS SHIP NEXT BUSINESS DAY

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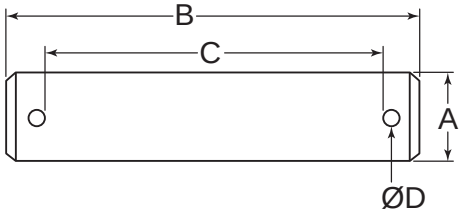
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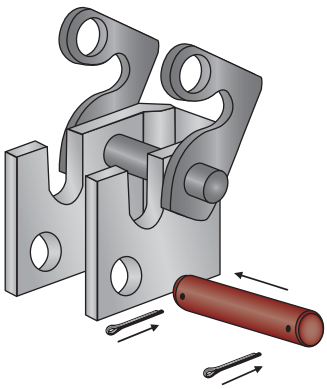
PREFIX		MATERIAL/FINISH
HLP	=	MEDIUM CARBON STEEL, ZINC CLEAR
HLPS	=	STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



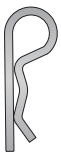
ITEM NUMBER	(A) OUTSIDE DIAMETER +.000/-.002"	(C) EFFECTIVE LENGTH +.030/-.000"	(B) OVERALL LENGTH +.025/-.025"	(D) HOLE DIAMETER +.010/-.005"
PREFIX-0375-2000	.375" (3/8)	2.000" (2)	2.344" (2-11/32)	.109" (7/64)
PREFIX-0375-2500	.375" (3/8)	2.500" (2-1/2)	2.844" (2-27/32)	.109" (7/64)
PREFIX-0375-3000	.375" (3/8)	3.000" (3)	3.344" (3-11/32)	.109" (7/64)
PREFIX-0437-0531	.438" (7/16)	.531" (17/32)	1.000" (1)	.141" (9/64)
PREFIX-0500-1000	.500" (1/2)	1.000" (1)	1.406" (1-13/32)	.141" (9/64)
PREFIX-0500-1250	.500" (1/2)	1.250" (1-1/4)	1.656" (1-21/32)	.141" (9/64)
PREFIX-0500-1500	.500" (1/2)	1.500" (1-1/2)	1.906" (1-29/32)	.141" (9/64)
PREFIX-0500-1531	.500" (1/2)	1.531" (1-17/32)	2.000" (2)	.141" (9/64)
PREFIX-0500-2000	.500" (1/2)	2.000" (2)	2.406" (2-13/32)	.141" (9/64)
PREFIX-0500-2500	.500" (1/2)	2.500" (2-1/2)	2.906" (2-29/32)	.141" (9/64)
PREFIX-0500-3000	.500" (1/2)	3.000" (3)	3.406" (3-13/32)	.141" (9/64)
PREFIX-0625-1531	.625" (5/8)	1.531" (1-17/32)	2.000" (2)	.156" (5/32)
PREFIX-0750-1531	.750" (3/4)	1.531" (1-17/32)	2.000" (2)	.156" (5/32)
PREFIX-0875-1390	.875" (7/8)	1.391" (1-25/64)	2.000" (2)	.203" (13/64)
PREFIX-1000-1390	1.000" (1)	1.391" (1-25/64)	2.000" (2)	.203" (13/64)
PREFIX-1125-2390	1.125" (1-1/8)	2.391" (2-25/64)	3.000" (3)	.203" (13/64)
PREFIX-1250-2250	1.250" (1-1/4)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)
PREFIX-1375-2250	1.375" (1-3/8)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)
PREFIX-1500-2250	1.500" (1-1/2)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)
PREFIX-1625-2250	1.625" (1-5/8)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)
PREFIX-1750-2250	1.750" (1-3/4)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)
PREFIX-1875-2250	1.875" (1-7/8)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)
PREFIX-2000-2250	2.000" (2)	2.250" (2-1/4)	3.000" (3)	.250" (1/4)

APPLICATION

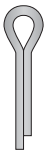


USED IN COMBINATION WITH COTTER PINS TO SECURE A TRAILER HITCH

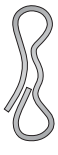
PEOPLE WHO BOUGHT THESE ALSO BOUGHT



BRIDGE PINS
Page 106



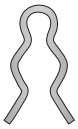
COTTER PINS
Page 82



BOW TIE COTTER PINS
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DOUBLE-LOOP BRIDGE PINS
Page 116



HAIR PINS
Page 119



CIRCLE COTTER PINS
Page 98



RING COTTER PINS
Page 97

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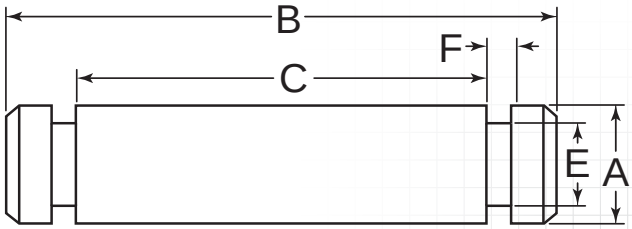
DESCRIPTION

These pins are used in applications with high lateral forces and are desgined to be held in place by E-clips inserted into the grooves on each chamfered end. *See "E-clips," page 124.*

HOW TO IDENTIFY

1. Verify grooves on each end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

HLPG = LOW CARBON STEEL, ZINC CLEAR
HLPGS = STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER +.000/-.030"	(C) EFFECTIVE LENGTH +.020/-.000"	(B) OVERALL LENGTH +.050/-.025"	(E) GROOVE DIAMETER	(F) GROOVE WIDTH +.002/-.000"
PREFIX-0187-0750	.188" (3/16)	.750" (3/4)	1.031" (1-1/32)	.147"	.029"
PREFIX-0187-1000	.188" (3/16)	1.000" (1)	1.281" (1-9/32)	.147"	.029"
PREFIX-0187-1250	.188" (3/16)	1.250" (1-1/4)	1.531" (1-17/32)	.147"	.029"
PREFIX-0187-1500	.188" (3/16)	1.500" (1-1/2)	1.781" (1-25/32)	.147"	.029"
PREFIX-0250-0750	.250" (1/4)	.750" (3/4)	1.031" (1-1/32)	.210"	.029"
PREFIX-0250-1000	.250" (1/4)	1.000" (1)	1.281" (1-9/32)	.210"	.029"
PREFIX-0250-1250	.250" (1/4)	1.250" (1-1/4)	1.531" (1-17/32)	.210"	.029"
PREFIX-0250-1500	.250" (1/4)	1.500" (1-1/2)	1.781" (1-25/32)	.210"	.029"
PREFIX-0312-0750	.313" (5/16)	.750" (3/4)	1.094" (1-3/32)	.250" (1/4)	.029"
PREFIX-0312-1000	.313" (5/16)	1.000" (1)	1.344" (1-11/32)	.250" (1/4)	.029"
PREFIX-0312-1250	.313" (5/16)	1.250" (1-1/4)	1.594" (1-19/32)	.250" (1/4)	.029"
PREFIX-0312-1500	.313" (5/16)	1.500" (1-1/2)	1.844" (1-27/32)	.250" (1/4)	.029"
PREFIX-0375-1000	.375" (3/8)	1.000" (1)	1.344" (1-11/32)	.303"	.039"
PREFIX-0375-1250	.375" (3/8)	1.250" (1-1/4)	1.594" (1-19/32)	.303"	.039"
PREFIX-0375-1500	.375" (3/8)	1.500" (1-1/2)	1.844" (1-27/32)	.303"	.039"
PREFIX-0375-2000	.375" (3/8)	2.000" (2)	2.344" (2-11/32)	.303"	.039"
PREFIX-0375-2500	.375" (3/8)	2.500" (2-1/2)	2.844" (2-27/32)	.303"	.039"
PREFIX-0375-3000	.375" (3/8)	3.000" (3)	3.344" (3-11/32)	.303"	.039"
PREFIX-0437-2500	.438" (7/16)	2.500" (2-1/2)	2.770"	.367"	.039"
PREFIX-0500-1000	.500" (1/2)	1.000" (1)	1.406" (1-13/32)	.396"	.047" (3/64)
PREFIX-0500-1250	.500" (1/2)	1.250" (1-1/4)	1.656" (1-21/32)	.396"	.047" (3/64)
PREFIX-0500-1500	.500" (1/2)	1.500" (1-1/2)	1.906" (1-29/32)	.396"	.047" (3/64)
PREFIX-0500-2000	.500" (1/2)	2.000" (2)	2.406" (2-13/32)	.396"	.047" (3/64)
PREFIX-0500-2500	.500" (1/2)	2.500" (2-1/2)	2.906" (2-29/32)	.396"	.047" (3/64)
PREFIX-0500-3000	.500" (1/2)	3.000" (3)	3.406" (3-13/32)	.396"	.047" (3/64)

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HEADLESS – GROOVED & DRILLED

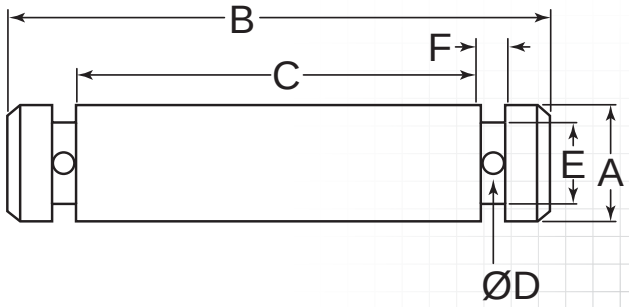
DESCRIPTION

These solid pins have a groove and drilled hole on each chamfered end. They can be held in place with either clips or wire form pins.

HOW TO IDENTIFY

1. Verify both grooves and drilled holes on each end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





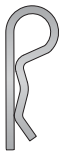
PREFIX MATERIAL/FINISH

HLPC = LOW CARBON STEEL, ZINC CLEAR

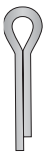
ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER +.000/-.002"	(C) EFFECTIVE LENGTH +.020/-.000"	(B) OVERALL LENGTH +.025/-.025"	(D) HOLE DIAMETER +.010/-.005"	(E) GROOVE DIAMETER	(F) GROOVE WIDTH +.004/-.006"
HLPC-1000-2125	1.000" (1)	2.125" (2-1/8)	2.938" (2-15/16)	.203" (13/64)	.835"	.188" (3/16)
HLPC-1000-2250	1.000" (1)	2.250" (2-1/4)	3.000" (3)	.203" (13/64)	.835"	.188" (3/16)
HLPC-1000-2750	1.000" (1)	2.750" (2-3/4)	3.500" (3-1/2)	.203" (13/64)	.835"	.188" (3/16)
HLPC-1000-2875	1.000" (1)	2.875" (2-7/8)	3.625" (3-5/8)	.203" (13/64)	.835"	.188" (3/16)
HLPC-1000-3000	1.000" (1)	3.000" (3)	3.750" (3-3/4)	.203" (13/64)	.835"	.188" (3/16)
HLPC-1000-3250	1.000" (1)	3.250" (3-1/4)	4.000" (4)	.203" (13/64)	.835"	.188" (3/16)
HLPC-1250-3250	1.250" (1-1/4)	3.250" (3-1/4)	4.000" (4)	.203" (13/64)	1.160"	.188" (3/16)

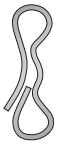
PEOPLE WHO BOUGHT THESE ALSO BOUGHT



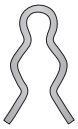
BRIDGE PINS
Page 106



COTTER PINS
Page 82



BOW TIE COTTER PINS
Page 96



HAIR PINS
Page 119



DOUBLE-LOOP BRIDGE PINS
Page 116

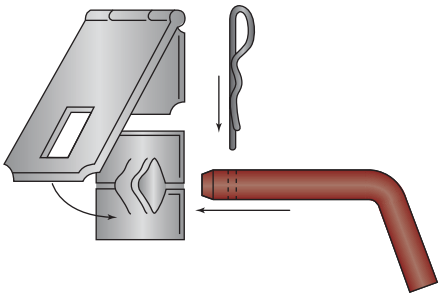


CIRCLE COTTER PINS
Page 98



RING COTTER PINS
Page 97

APPLICATION



A BENT PIN CAN BE SECURED WITH A HITCH PIN CLIP OR COTTER PIN

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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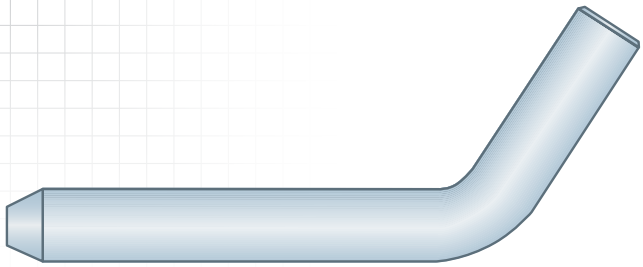
BENT

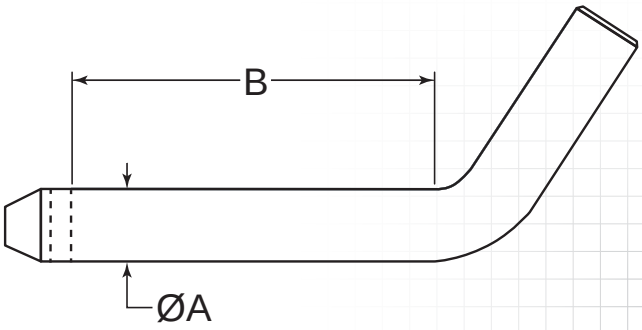
DESCRIPTION

Bent pins are simple pins with one straight end and a 25° bend at the opposite end. This low cost pin is drilled and generally used with a wire form pin.

HOW TO IDENTIFY

1. Verify bent pin with a hole drilled through the straight end.
2. Measure diameter (A).
3. Measure effective length (B).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

BTP = LOW CARBON STEEL, ZINC CLEAR
####-BP = BRIDGE PIN COMBO OPTION
Material/finish combinations may not be available in all sizes.

NEED A BRIDGE PIN TO GO WITH YOUR BENT PIN?
ADD "-BP" TO THE END OF THE PART NUMBER.

ITEM NUMBER	(A) OUTSIDE DIAMETER	(B) EFFECTIVE LENGTH	HOLE DIAMETER	COMMONLY USED WITH BRIDGE PIN (SEE PG. 106)
	-.002/-.007"			
BTP-0312-2500	.313" (5/16)	2.500" (2-1/2)	.093"	BP-213
BTP-0312-3000	.313" (5/16)	3.000" (3)	.093"	BP-213
BTP-0375-2500	.375" (3/8)	2.500" (2-1/2)	.093"	BP-213
BTP-0375-3000	.375" (3/8)	3.000" (3)	.093"	BP-213
BTP-0375-3500	.375" (3/8)	3.500" (3-1/2)	.093"	BP-213
BTP-0375-4000	.375" (3/8)	4.000" (4)	.093"	BP-213
	-.004/-.009"			
BTP-0500-2500	.500" (1/2)	2.500" (2-1/2)	.156"	BP-211
BTP-0500-3000	.500" (1/2)	3.000" (3)	.156"	BP-211
BTP-0500-4000	.500" (1/2)	4.000" (4)	.156"	BP-211
BTP-0500-4500	.500" (1/2)	4.500" (4-1/2)	.156"	BP-211
BTP-0500-5000	.500" (1/2)	5.000" (5)	.156"	BP-211
BTP-0625-3000	.625" (5/8)	3.000" (3)	.203"	BP-211
BTP-0625-4000	.625" (5/8)	4.000" (4)	.203"	BP-211
BTP-0625-5000	.625" (5/8)	5.000" (5)	.203"	BP-211
BTP-0750-3500	.750" (3/4)	3.500" (3-1/2)	.203"	BP-211
BTP-0750-4500	.750" (3/4)	4.500" (4-1/2)	.203"	BP-211
BTP-0750-5000	.750" (3/4)	5.000" (5)	.203"	BP-211
BTP-1000-4750	1.000" (1)	4.750" (4-3/4)	.203"	BP-210
BTP-1000-6750	1.000" (1)	6.750" (6-3/4)	.203"	BP-210

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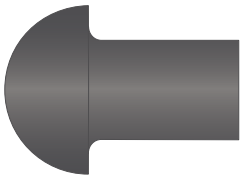
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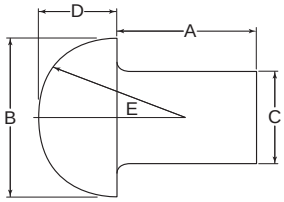
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RIVETS – BUTTON HEAD

PREFIX		MATERIAL/FINISH
RVB	=	CARBON STEEL, PLAIN*

Non-holed, cold-headed parts with rounded head used in automated assembly. After insertion the part is driven to displace the end material, which provides a permanent secure fit.





ITEM NUMBER	(C) SHANK DIAMETER	(A) LENGTH	(E) HEAD RADIUS	(D) HEAD HEIGHT	(B) HEAD DIAMETER
	+.002/-.004"				
RVB-0125-0500	.125" (1/8)	.500" (1/2)	.111"	.100/.088"	.235/.215"
RVB-0125-0750	.125" (1/8)	.750" (3/4)	.111"	.100/.088"	.235/.215"
RVB-0125-1000	.125" (1/8)	1.000" (1)	.111"	.100/.088"	.235/.215"
	+.003/-.006"				
RVB-0187-0500	.188" (3/16)	.500" (1/2)	.166"	.147/.133"	.348/.322"
RVB-0187-0625	.188" (3/16)	.625" (5/8)	.166"	.147/.133"	.348/.322"
RVB-0187-0750	.188" (3/16)	.750" (3/4)	.166"	.147/.133"	.348/.322"
RVB-0187-1000	.188" (3/16)	1.000" (1)	.166"	.147/.133"	.348/.322"
RVB-0187-1250	.188" (3/16)	1.250" (1-1/4)	.166"	.147/.133"	.348/.322"
RVB-0187-1500	.188" (3/16)	1.500" (1-1/2)	.166"	.147/.133"	.348/.322"
RVB-0250-0500	.250" (1/4)	.500" (1/2)	.221"	.196/.180"	.460/.430"
RVB-0250-0625	.250" (1/4)	.625" (5/8)	.221"	.196/.180"	.460/.430"
RVB-0250-0750	.250" (1/4)	.750" (3/4)	.221"	.196/.180"	.460/.430"
RVB-0250-1000	.250" (1/4)	1.000" (1)	.221"	.196/.180"	.460/.430"
RVB-0250-1250	.250" (1/4)	1.250" (1-1/4)	.221"	.196/.180"	.460/.430"
RVB-0250-1500	.250" (1/4)	1.500" (1-1/2)	.221"	.196/.180"	.460/.430"
RVB-0250-3000	.250" (1/4)	3.000" (3)	.221	.196/.180"	.460/.430"
RVB-0312-0500	.313" (5/16)	.500" (1/2)	.276"	.243/.225"	.572/.538"
RVB-0312-0625	.313" (5/16)	.625" (5/8)	.276"	.243/.225"	.572/.538"
RVB-0312-0750	.313" (5/16)	.750" (3/4)	.276"	.243/.225"	.572/.538"
RVB-0312-1000	.313" (5/16)	1.000" (1)	.276"	.243/.225"	.572/.538"
RVB-0312-1250	.313" (5/16)	1.250" (1-1/4)	.276"	.243/.225"	.572/.538"
RVB-0312-1500	.313" (5/16)	1.500" (1-1/2)	.276"	.243/.225"	.572/.538"
	+.005/-.010"				
RVB-0375-0500	.375" (3/8)	.500" (1/2)	.332"	.291/.271"	.684/.646"
RVB-0375-0625	.375" (3/8)	.625" (5/8)	.332"	.291/.271"	.684/.646"
RVB-0375-0750	.375" (3/8)	.750" (3/4)	.332"	.291/.271"	.684/.646"
RVB-0375-1000	.375" (3/8)	1.000" (1)	.332"	.291/.271"	.684/.646"
RVB-0375-1250	.375" (3/8)	1.250" (1-1/4)	.332"	.291/.271"	.684/.646"
RVB-0375-1500	.375" (3/8)	1.500" (1-1/2)	.332"	.291/.271"	.684/.646"
	+.020/-.022"				
RVB-0500-1000	.500" (1/2)	1.000" (1)	.443"	.406/.375"	.938/.844"
RVB-0500-1500	.500" (1/2)	1.500" (1-1/2)	.443"	.406/.375"	.938/.844"
RVB-0500-2000	.500" (1/2)	2.000" (2)	.443"	.406/.375"	.938/.844"
RVB-0500-3000	.500" (1/2)	3.000" (3)	.443"	.406/.375"	.938/.844"

PROUD DISTRIBUTORS OF:

Heritage — Clevis Pins, Bridge Pins, Cotter Pins, Hitch Pins, Machine Keys, & Grease Fittings

ROTOR CLIP — Retaining Rings, Circlips, Hose Clamps, Constant Section Rings, Spiral Rings, & Wave Springs

ALEMITE — Premium Lubrication Fittings & Equipment

Shakeproof group — Clevis Pins

SPIROL — Rolled Pins, Spacers, & Thrust Washers

Cotter Pins & Wire Forms

DRIVLOK — Grooved Pins

LINCOLN — Domestic Lubrication Fittings & Equipment

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

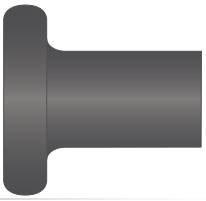
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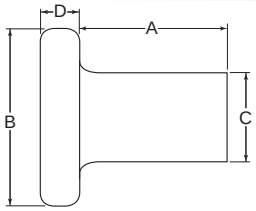
**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

RIVETS – FLAT HEAD

PREFIX		MATERIAL/FINISH
RVF	=	CARBON STEEL, PLAIN*

Non-holed, cold-headed parts with flat head used in automated assembly. After insertion the part is driven to displace the end material, which provides a permanent secure fit.

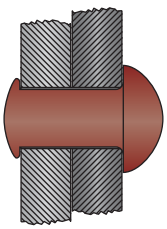




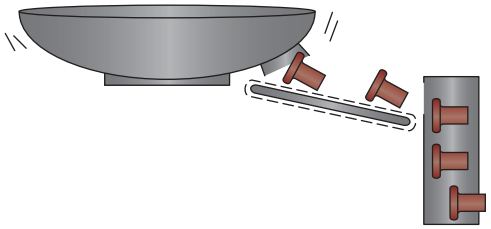
ITEM NUMBER	(C) SHANK DIAMETER	(A) LENGTH	(D) HEAD HEIGHT	(B) HEAD DIAMETER
	+.002/-.004"			
RVF-0125-0500	.125" (1/8) .127/.121"	.500" (1/2)	.048/.036"	.260/.240"
RVF-0125-0750	.125" (1/8) .127/.121"	.750" (3/4)	.048/.036"	.260/.240"
RVF-0125-1000	.125" (1/8) .127/.121"	1.000" (1)	.048/.036"	.260/.240"
	+.003/-.006"			
RVF-0187-0500	.188" (3/16) .191/.182"	.500" (1/2)	.069/.055"	.387/.361"
RVF-0187-0625	.188" (3/16) .191/.182"	.625" (5/8)	.069/.055"	.387/.361"
RVF-0187-0750	.188" (3/16) .191/.182"	.750" (3/4)	.069/.055"	.387/.361"
RVF-0187-1000	.188" (3/16) .191/.182"	1.000" (1)	.069/.055"	.387/.361"
RVF-0187-1250	.188" (3/16) .191/.182"	1.250" (1-1/4)	.069/.055"	.387/.361"
RVF-0187-1500	.188" (3/16) .191/.182"	1.500" (1-1/2)	.069/.055"	.387/.361"
RVF-0250-0500	.250" (1/4) .253/.244"	.500" (1/2)	.091/.075"	.515/.485"
RVF-0250-0625	.250" (1/4) .253/.244"	.625" (5/8)	.091/.075"	.515/.485"
RVF-0250-0750	.250" (1/4) .253/.244"	.750" (3/4)	.091/.075"	.515/.485"
RVF-0250-1000	.250" (1/4) .253/.244"	1.000" (1)	.091/.075"	.515/.485"
RVF-0250-1250	.250" (1/4) .253/.244"	1.250" (1-1/4)	.091/.075"	.515/.485"
RVF-0250-1500	.250" (1/4) .253/.244"	1.500" (1-1/2)	.091/.075"	.515/.485"
RVF-0250-3250	.250" (1/4) .253/.244"	3.250" (3-1/4)	.091/.075"	.515/.485"
RVF-0312-0500	.313" (5/16) .316/.304"	.500" (1/2)	.113/.095"	.641/.607"
RVF-0312-0625	.313" (5/16) .316/.304"	.625" (5/8)	.113/.095"	.641/.607"
RVF-0312-0750	.313" (5/16) .316/.304"	.750" (3/4)	.113/.095"	.641/.607"
RVF-0312-0875	.313" (5/16) .316/.304"	.875" (7/8)	.113/.095"	.641/.607"
RVF-0312-1000	.313" (5/16) .316/.304"	1.000" (1)	.113/.095"	.641/.607"
RVF-0312-1250	.313" (5/16) .316/.304"	1.250" (1-1/4)	.113/.095"	.641/.607"
RVF-0312-1500	.313" (5/16) .316/.304"	1.500" (1-1/2)	.113/.095"	.641/.607"
	+.005/-.010"			
RVF-0375-0500	.375" (3/8) .380/.365"	.500" (1/2)	.135/.115"	.769/.731"
RVF-0375-0625	.375" (3/8) .380/.365"	.625" (5/8)	.135/.115"	.769/.731"
RVF-0375-0750	.375" (3/8) .380/.365"	.750" (3/4)	.135/.115"	.769/.731"
RVF-0375-1000	.375" (3/8) .380/.365"	1.000" (1)	.135/.115"	.769/.731"
RVF-0375-1250	.375" (3/8) .380/.365"	1.250" (1-1/4)	.135/.115"	.769/.731"
RVF-0375-1500	.375" (3/8) .380/.365"	1.500" (1-1/2)	.135/.115"	.769/.731"
	+.020/-.022"			
RVF-0500-1000	.500" (1/2) .520/.478"	1.000" (1)	.178/.155"	1.023/.973"
RVF-0500-1500	.500" (1/2) .520/.478"	1.500" (1-1/2)	.178/.155"	1.023/.973"
RVF-0500-2000	.500" (1/2) .520/.478"	2.000" (2)	.178/.155"	1.023/.973"
RVF-0500-3000	.500" (1/2) .520/.478"	3.000" (3)	.178/.155"	1.023/.973"

APPLICATIONS

DRIVEN TAIL FORMS INTO A SECURE ANCHOR



IDEAL FOR AUTOMATIC ASSEMBLY



FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

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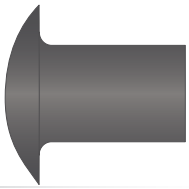
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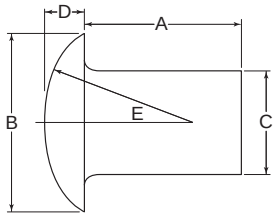
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RIVETS – TRUSS HEAD

PREFIX		MATERIAL/FINISH
RVT	=	CARBON STEEL, PLAIN*

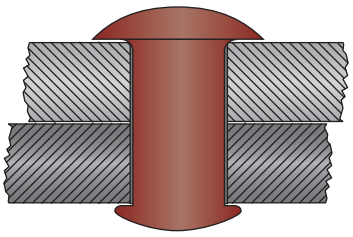
Non-holed, cold-headed parts with truss head used in automated assembly. After insertion the part is driven to displace the end material, which provides a permanent secure fit.





ITEM NUMBER	(C) SHANK DIAMETER	(A) LENGTH	(E) HEAD RADIUS	(D) HEAD HEIGHT	(B) HEAD DIAMETER
	+.002/-.004"				
RVT-0125-0500	.125" (1/8) .128/.119"	.500" (1/2)	.314"	.047/.035"	.288/.258"
RVT-0125-0750	.125" (1/8) .128/.119"	.750" (3/4)	.314"	.047/.035"	.288/.258"
RVT-0125-1000	.125" (1/8) .128/.119"	1.000" (1)	.314"	.047/.035"	.288/.258"
	+.003/-.006"				
RVT-0187-0500	.188" (3/16) .191/.182"	.500" (1/2)	.470"	.069/.055"	.452/.422"
RVT-0187-0625	.188" (3/16) .191/.182"	.625" (5/8)	.470"	.069/.055"	.452/.422"
RVT-0187-0750	.188" (3/16) .191/.182"	.750" (3/4)	.470"	.069/.055"	.452/.422"
RVT-0187-1000	.188" (3/16) .191/.182"	1.000" (1)	.470"	.069/.055"	.452/.422"
RVT-0187-1250	.188" (3/16) .191/.182"	1.250" (1-1/4)	.470"	.069/.055"	.452/.422"
RVT-0187-1500	.188" (3/16) .191/.182"	1.500" (1-1/2)	.470"	.069/.055"	.452/.422"
RVT-0250-0500	.250" (1/4) .253/.244"	.500" (1/2)	.628"	.091/.075"	.590/.560"
RVT-0250-0625	.250" (1/4) .253/.244"	.625" (5/8)	.628"	.091/.075"	.590/.560"
RVT-0250-0750	.250" (1/4) .253/.244"	.750" (3/4)	.628"	.091/.075"	.590/.560"
RVT-0250-1000	.250" (1/4) .253/.244"	1.000" (1)	.628"	.091/.075"	.590/.560"
RVT-0250-1250	.250" (1/4) .253/.244"	1.250" (1-1/4)	.628"	.091/.075"	.590/.560"
RVT-0250-1500	.250" (1/4) .253/.244"	1.500" (1-1/2)	.628"	.091/.075"	.590/.560"
RVT-0312-0500	.313" (5/16) .316/.304"	.500" (1/2)	.784"	.113/.095"	.732/.702"
RVT-0312-0625	.313" (5/16) .316/.304"	.625" (5/8)	.784"	.113/.095"	.732/.702"
RVT-0312-0750	.313" (5/16) .316/.304"	.750" (3/4)	.784"	.113/.095"	.732/.702"
RVT-0312-1000	.313" (5/16) .316/.304"	1.000" (1)	.784"	.113/.095"	.732/.702"
RVT-0312-1250	.313" (5/16) .316/.304"	1.250" (1-1/4)	.784"	.113/.095"	.732/.702"
RVT-0312-1500	.313" (5/16) .316/.304"	1.500" (1-1/2)	.784"	.113/.095"	.732/.702"
	+.005/-.010"				
RVT-0375-0500	.375" (3/8) .380/.365"	.500" (1/2)	.942"	.135/.115"	.878/.848"
RVT-0375-0625	.375" (3/8) .380/.365"	.625" (5/8)	.942"	.135/.115"	.878/.848"
RVT-0375-0750	.375" (3/8) .380/.365"	.750" (3/4)	.942"	.135/.115"	.878/.848"
RVT-0375-1000	.375" (3/8) .380/.365"	1.000" (1)	.942"	.135/.115"	.878/.848"
RVT-0375-1250	.375" (3/8) .380/.365"	1.250" (1-1/4)	.942"	.135/.115"	.878/.848"
RVT-0375-1500	.375" (3/8) .380/.365"	1.500" (1-1/2)	.942"	.135/.115"	.878/.848"
RVT-0375-1625	.375" (3/8) .380/.365"	1.625" (1-5/8)	.942"	.135/.115"	.878/.848"

APPLICATION



THE TRUSS HEAD PROVIDES A CLEAN VISUAL APPEARANCE

DESIGN CONSIDERATIONS

Rivets provide permanent assembly of multiple components. Once installed, they provide excellent clamping force with a high shear strength.

RIVET BENEFITS:

- A simple, one-piece design
- Use on multiple types of applications
- Permanent application
- Requires no maintenance

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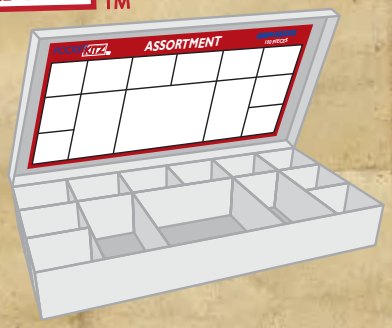
**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

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- Sampling opportunities
- Special promotions
- Specific applications
- Maintenance kits



Small Diameter
DISP-CLP120

120 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CLPZ-0187-0625	3/16" x 5/8"	10
CLPZ-0187-0750	3/16" x 3/4"	10
CLPZ-0187-1000	3/16" x 1"	10
CLPZ-0187-1250	3/16" x 1-1/4"	10
CLPZ-0250-0750	1/4" x 3/4"	10
CLPZ-0250-1000	1/4" x 1"	10
CLPZ-0250-1250	1/4" x 1-1/4"	10
CLPZ-0250-1500	1/4" x 1-1/2"	10
CLPZ-0375-1000	3/8" x 1"	10
CLPZ-0375-1250	3/8" x 1-1/4"	10
CLPZ-0375-1500	3/8" x 1-1/2"	10
CLPZ-0375-2000	3/8" x 2"	10

Large Diameter
DISP-CLP90

90 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CLPZ-0375-2000	3/8" x 2"	10
CLPZ-0375-3000	3/8" x 3"	10
CLPZ-0437-1000	7/16" x 1"	10
CLPZ-0437-1500	7/16" x 1-1/2"	10
CLPZ-0437-2000	7/16" x 2"	10
CLPZ-0500-1000	1/2" x 1"	10
CLPZ-0500-1500	1/2" x 1-1/2"	10
CLPZ-0500-2000	1/2" x 2"	10
CLPZ-0500-3000	1/2" x 3"	10

Stainless Steel
DISP-CLPS120

120 Pieces
Stainless Steel, Plain

Parts Included	Size	Quantity
CLPS-0187-0625	3/16" x 5/8"	10
CLPS-0187-0750	3/16" x 3/4"	10
CLPS-0187-1000	3/16" x 1"	10
CLPS-0187-1250	3/16" x 1-1/4"	10
CLPS-0250-0750	1/4" x 3/4"	10
CLPS-0250-1000	1/4" x 1"	10
CLPS-0250-1250	1/4" x 1-1/4"	10
CLPS-0250-1500	1/4" x 1-1/2"	10
CLPS-0375-1000	3/8" x 1"	10
CLPS-0375-1500	3/8" x 1-1/2"	10
CLPS-0375-1250	3/8" x 1-1/4"	10
CLPS-0375-2000	3/8" x 2"	10

Universal
DISP-CLPU40

40 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CLPUZ-0187-2000	3/16" x 2"	3
CLPUZ-0250-1000	1/4" x 1"	3
CLPUZ-0250-2000	1/4" x 2"	2
CLPUZ-0250-3000	1/4" x 3"	2
CLPUZ-0312-1000	5/16" x 1"	3
CLPUZ-0312-2000	5/16" x 2"	2
CLPUZ-0312-3000	5/16" x 3"	2
CLPUZ-0375-1500	3/8" x 1-1/2"	3
CLPUZ-0375-2000	3/8" x 2"	2
CLPUZ-0375-3000	3/8" x 3"	2
CLPUZ-0375-4000	3/8" x 4"	1
CLPUZ-0437-2000	7/16" x 2"	2
CLPUZ-0437-3000	7/16" x 3"	2
CLPUZ-0437-4000	7/16" x 4"	1
CLPUZ-0500-2000	1/2" x 2"	2
CLPUZ-0500-3000	1/2" x 3"	2
CLPUZ-0500-4000	1/2" x 4"	1
CLPUZ-0562-4000	9/16" x 4"	1
CLPUZ-0625-2000	5/8" x 2"	2
CLPUZ-0625-3000	5/8" x 3"	1
CLPUZ-0625-4000	5/8" x 4"	1





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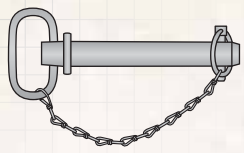
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THREE-POINT PIN FEATURES

Innovations in three-point pin designs have accelerated in recent years, as these devices are now available in more styles and materials than ever before. Most of the designs have been made to improve the compatibility and flexibility of three-point hitches found on the back of agricultural equipment. Three-point hitches provide linkage between the power take off (PTO), hydraulics, and hauling capabilities of tractors to compatible implements which can be used for everything from plowing, sowing, and harvesting to mowing, snow removal, and chemical spraying.

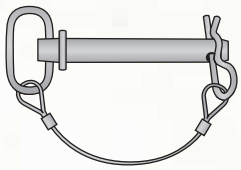
DESIGN CONSIDERATIONS

COMBINATIONS



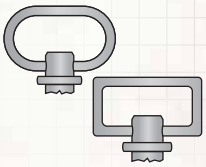
LIMITED ONLY BY IMAGINATION

TETHERS



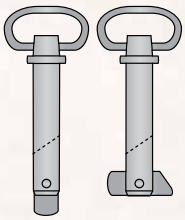
CAN BE ATTACHED TO MOST THREE-POINT PINS

HANDLE STYLE



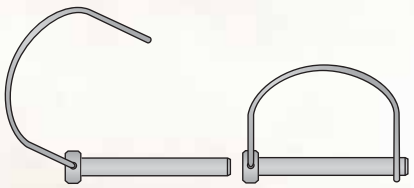
ACCOMODATES ERGONOMICS AND STYLE CHOICES

SWIVEL LOCK



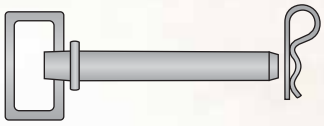
THE SWIVEL LOCK WILL "OPEN" TO INSERT THE PIN AND GRAVITY WILL ALLOW IT TO FALL PERPENDICULAR TO THE PIN SECURING IT WITHOUT THE RISK OF LOOSING A MATING PART

WIRE LOCK



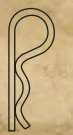
THE PIVOTING WIRE SNAPS SECURELY AROUND THE PIN TO PREVENT THE PIN FROM FALLING OUT

REUSABILITY



HITCH PINS ACCOMPANIED BY MATING PARTS SECURELY CONNECT THE TWO PARTS TOGETHER WHILE ALLOWING FOR QUICK DISASSEMBLY

WHERE TO FIND MATING PARTS



Bridge Pins

Page 106



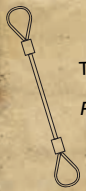
Cotter Pins

Page 82



Hair Pins

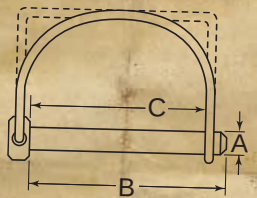
Page 119



Tethers

Page 128

THREE-POINT PIN MEASUREMENT



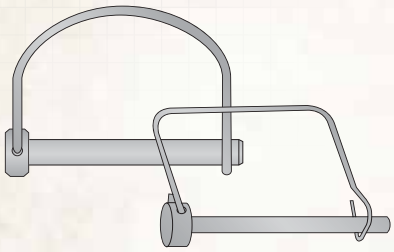
Pins in this category are measured by the shank diameter (A) and effective length (C), not the shank length (B).

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THREE-POINT PIN TYPES

SINGLE-WIRE SNAP

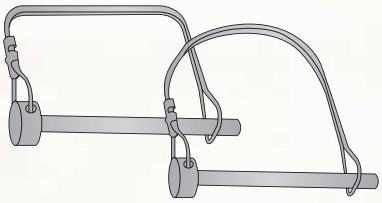
A less expensive version of the double-wire snap pin. Pin is self-locking requring no mating pin.



PAGE 48

DOUBLE-WIRE SNAP

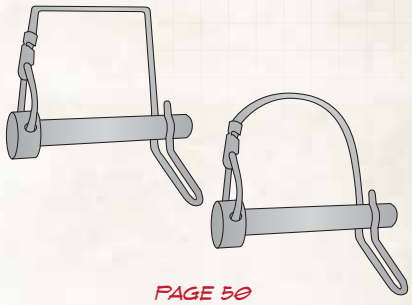
Double-wire snap pins are designed for heavier duty applications. Snap pins should not be used where lateral movement is present.



PAGE 49

SINGLE-WIRE TAB LOCK

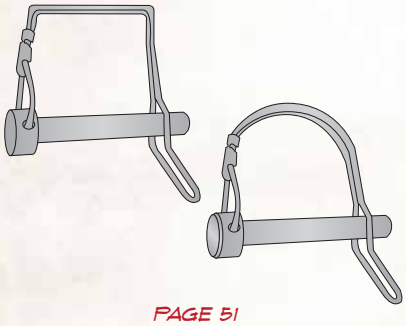
Single-wire snap pins provide a small cost savings vs. double-wire snap pins. Protrusion of tab should be considered in application.



PAGE 50

DOUBLE-WIRE TAB LOCK

Two wires are coiled over the end of the pin into a "tab" shape. This tab provides a lever for quick removal and reinstallation.



PAGE 51

COIL TENSION

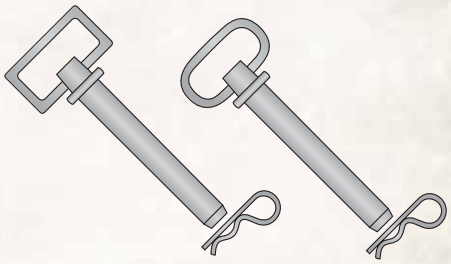
The coiled design provides a spring resistance that helps maintain locking action in presence of lateral movement. A heavy duty version is also available when an application requires more locking strength.



PAGE 52

HITCH

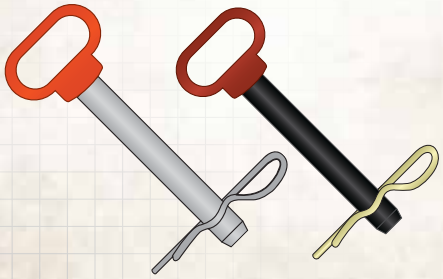
Big grip handle is ideal for trailers and wagons. Handle swivels for comfortable ergonomic use.



PAGE 54

COLOR HANDLE HITCH

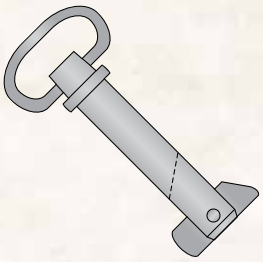
Handle is PVC coated in orange or red for an ergonomic grip and easy identification. Pin is heat treated for additional strength.



PAGE 58

SWIVEL LOCK

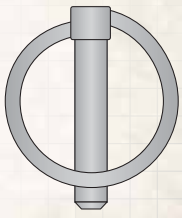
Swivel lock eliminates the need for a secondary part for fastening. These pins should not be used in high-vibration environments.



PAGE 60

LYNCH

Single-piece design uses a spring-tempered ring that snaps securely in place for rigid control.



PAGE 61

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THREE-POINT PINS

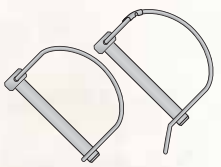
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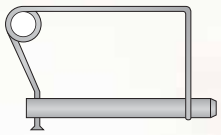
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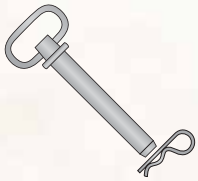
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QUICK REFERENCE GUIDE

Snap pins are a self-locking, one-piece pin with either a rounded or square handle in a single or double-wire strand. Tab style eases installation and removal. Hitch pins are used to attach trailers and various turf and agricultural implements, and are manufactured from heat treated steel.





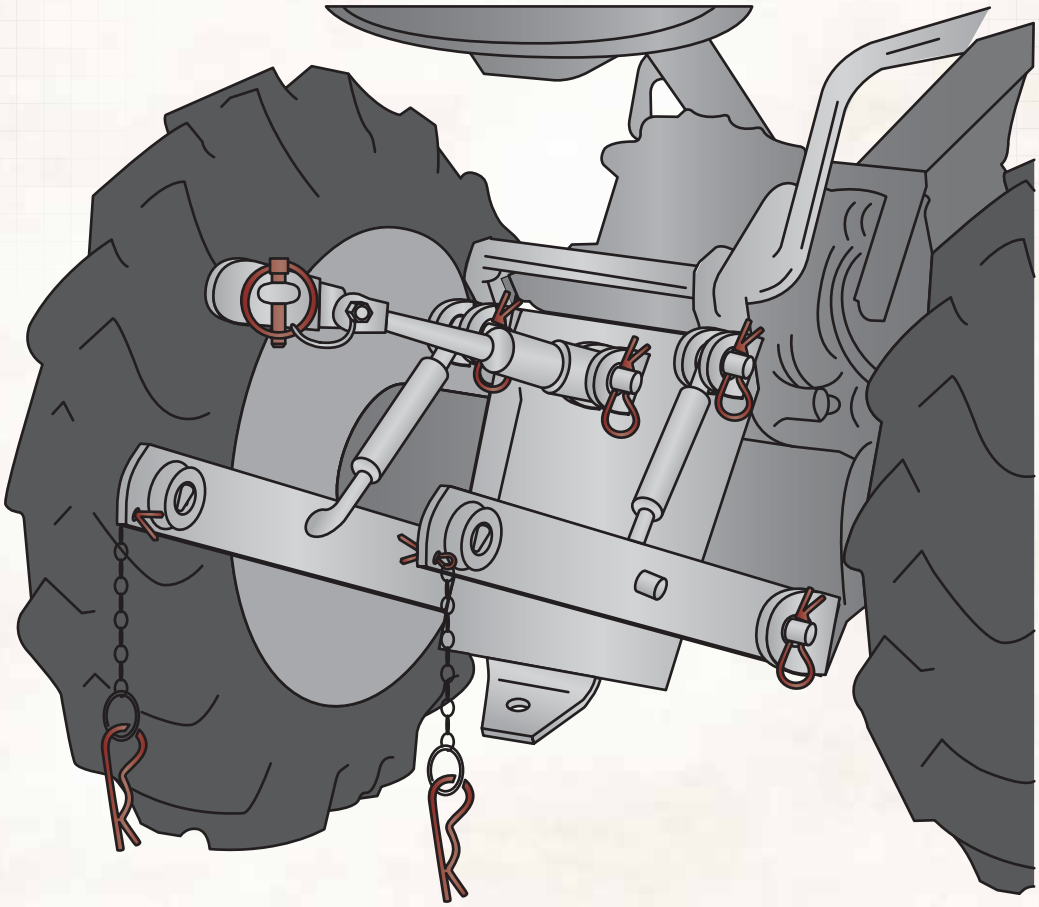




	SNAP & TAB LOCK	COIL TENSION	HITCH	LYNCH
COMMON NAMES	Snap Pin, Snapper Pin, Wire Lock Pin, Click Pin, Lynch Pin, Lock Pin, Retainer Pin	Tractor Pin, Snap Pin, Snapper Pin, Three-point Pin, Lock Pin	Trailer Pin, Red Handle Pin	Snap Pin, Self-locking Pin, Click Pin, Lock Pin
APPLICABLE STANDARDS	None known.	None known.	None known.	None known. DIN 11023 for metric.
FABRICATION	Cold-forging of the pin; wire forming of the loop; hand assembly.	Cold-forging of the pin; welding of collar for heavy duty version; wire forming of the loop; hand assembly.	Cold-forging; welding of collar; cross drilling; wire forming of handles; hand assembly; heat treatment; dipping of handle where applied.	Hot-forging of the pin; formation of the wire; hand assembly.
HOW TO IDENTIFY	Nominal diameter × effective length; single-wire vs. double-wire; square loop vs. rounded loop.	Nominal diameter × effective length; standard duty vs. heavy duty.	Nominal diameter × effective length; handle shape.	Nominal diameter × effective length.
COMMON USES	Three-point attachments on tractors and turf equipment. Moorings for sails, canvas, tarps, and grommeted covers. Best for frequent removal applications.	Heavy duty agriculture and industrial attachments, where the extra protrusion of the wire spring loop does not interfere.	Trailers, especially light duty commercial and agricultural. Use where frequent disconnect is needed.	Lighter duty agriculture. More constrained length limits use to retaining rather than as a pivot or lock mechanism. Usually a round pin but square pins are available.
COMMENTS	Handles are available in single-wire or double-wire versions with rounded or square shapes. Tab lock provides easy-grip handle for removal.	Wire is coiled to allow lateral play for heavier duty stretching of wire lock mechanism. Welded collar acts as a stop for heavy duty applications. Pin shaft is grooved to mate with wire assembly for added strength.	Use with bridge pin. Numerous design styles and types. Loose fitting allows designs to be interchangeable.	Lynch pins can be supplied with chain and cotter for fixed attachment eliminating accidental loss.

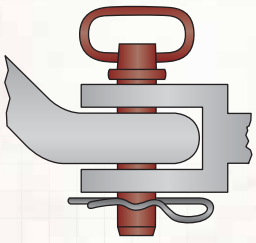
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USING THREE-POINT PINS



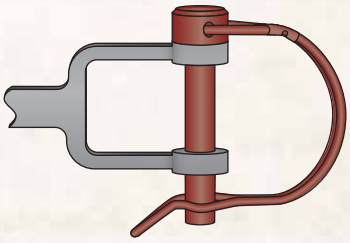
When used in a three-point hitch application three-point pins and their mating parts provide easy connects/disconnects between an implement and a tractor. Using tethers to semi-permanently attach the pins to the hitch eliminates separate storage or potential loss.

HITCH PIN



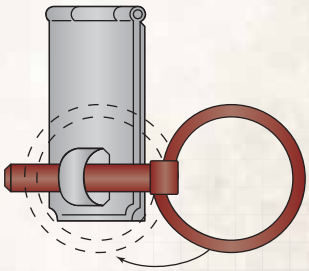
EXAMPLE OF A HITCH PIN USED TO COUPLE A TRAILER HITCH AND SECURED WITH A BRIDGE PIN

TAB LOCK PIN



EXAMPLE OF A TAB LOCK PIN USED IN A CLEVIS ASSEMBLY

LYNCH PIN



EXAMPLE OF A LYNCH PIN USED TO FASTEN A ONE-PIECE HASP

LOOP SNAPS OVER TO SECURE THE LOCK

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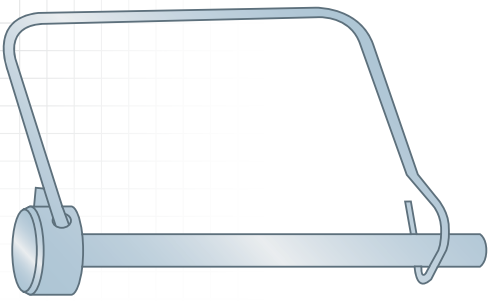
SNAP – SINGLE-WIRE

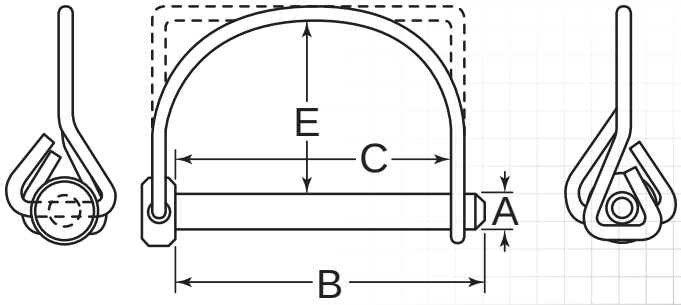
DESCRIPTION

Single-wire snap pins are intended for standard duty applications. These pins are self-locking requiring no mating part.

HOW TO IDENTIFY

1. Verify pin with attached round or square handle single-wire lock.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.



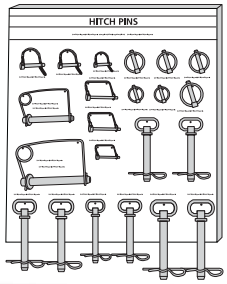


PREFIX MATERIAL/FINISH

SNIP = LOW CARBON STEEL, ZINC CLEAR

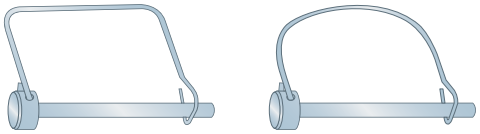
ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER -.002/-.007"	(C) EFFECTIVE LENGTH .000/-.250"	(E) HEIGHT	(B) SHANK LENGTH
Round Handle				
SNIP-250-1750R	.250" (1/4)	1.750" (1-3/4)	1.625" (1-5/8)	2.000" (2)
SNIP-312-1750R	.313" (5/16)	1.750" (1-3/4)	1.750" (1-3/4)	2.000" (2)
SNIP-375-1750R	.375" (3/8)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
Square Handle				
SNIP-250-2500S	.250" (1/4)	2.500" (2-1/2)	1.625" (1-5/8)	2.750" (2-3/4)
SNIP-312-2500S	.313" (5/16)	2.500" (2-1/2)	1.750" (1-3/4)	2.750" (2-3/4)
SNIP-312-3500S	.313" (5/16)	3.500" (3-1/2)	1.750" (1-3/4)	3.750" (3-3/4)
SNIP-375-2250S	.375" (3/8)	2.250" (2-1/4)	1.500" (1-1/2)	2.500" (2-1/2)
SNIP-375-2500S	.375" (3/8)	2.500" (2-1/2)	1.500" (1-1/2)	2.750" (2-3/4)
SNIP-375-3000S	.375" (3/8)	3.000" (3)	1.500" (1-1/2)	3.250" (3-1/4)



THREE-POINT PIN ASSORTMENT AVAILABLE ON PAGE 63

SINGLE-WIRE SNAP PINS ARE AVAILABLE IN BOTH SQUARE AND ROUND HANDLE



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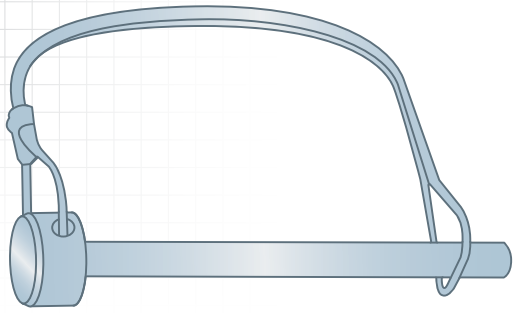
SNAP – DOUBLE-WIRE

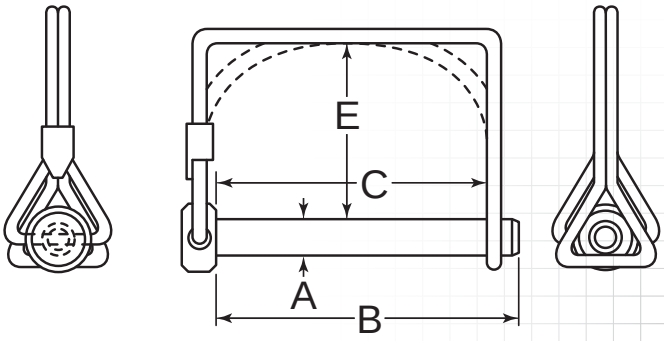
DESCRIPTION

Double-wire snap pins are intended for heavier duty applications than single-wire snap pins; however, these pins should not be used in applications which subject the pin to lateral forces.

HOW TO IDENTIFY

1. Verify pin with attached round or square handle double-wire lock.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

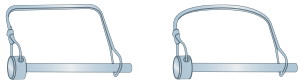
SNAP	=	LOW CARBON STEEL, ZINC CLEAR
SNAPS	=	300 SERIES STAINLESS STEEL, PASSIVATED
SNAPY	=	LOW CARBON STEEL, ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER -.0002/-.0007"	(C) EFFECTIVE LENGTH .0001/-.250"	(E) HEIGHT	(B) SHANK LENGTH
Round Handle				
PREFIX-250-1375R	.250" (1/4)	1.375" (1-3/8)	1.625" (1-5/8)	1.625" (1-5/8)
PREFIX-250-1750R	.250" (1/4)	1.750" (1-3/4)	1.625" (1-5/8)	2.000" (2)
PREFIX-250-2500R	.250" (1/4)	2.500" (2-1/2)	1.625" (1-5/8)	2.750" (2-3/4)
PREFIX-312-1375R	.313" (5/16)	1.375" (1-3/8)	1.750" (1-3/4)	1.625" (1-5/8)
PREFIX-312-1750R	.313" (5/16)	1.750" (1-3/4)	1.750" (1-3/4)	2.000" (2)
PREFIX-312-2250R	.313" (5/16)	2.250" (2-1/4)	1.750" (1-3/4)	2.500" (2-1/2)
PREFIX-312-2500R	.313" (5/16)	2.500" (2-1/2)	2.000" (2)	2.750" (2-3/4)
PREFIX-375-1375R	.375" (3/8)	1.375" (1-3/8)	1.500" (1-1/2)	1.625" (1-5/8)
PREFIX-375-1500R	.375" (3/8)	1.500" (1-1/2)	1.500" (1-1/2)	1.750" (1-3/4)
PREFIX-375-1750R	.375" (3/8)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
PREFIX-375-2250R	.375" (3/8)	2.250" (2-1/4)	1.500" (1-1/2)	2.500" (2-1/2)
PREFIX-375-2500R	.375" (3/8)	2.500" (2-1/2)	1.500" (1-1/2)	2.750" (2-3/4)
Square Handle				
PREFIX-250-2250S	.250" (1/4)	2.250" (2-1/4)	1.625" (1-5/8)	2.500" (2-1/2)
PREFIX-250-2500S	.250" (1/4)	2.500" (2-1/2)	1.625" (1-5/8)	2.750" (2-3/4)
PREFIX-312-2250S	.313" (5/16)	2.250" (2-1/4)	1.750" (1-3/4)	2.500" (2-1/2)
PREFIX-312-2500S	.313" (5/16)	2.500" (2-1/2)	1.750" (1-3/4)	2.750" (2-3/4)
PREFIX-312-3000S	.313" (5/16)	3.000" (3)	1.750" (1-3/4)	3.250" (3-1/4)
PREFIX-375-2250S	.375" (3/8)	2.250" (2-1/4)	1.500" (1-1/2)	2.500" (2-1/2)
PREFIX-375-2500S	.375" (3/8)	2.500" (2-1/2)	1.500" (1-1/2)	2.750" (2-3/4)
PREFIX-375-3000S	.375" (3/8)	3.000" (3)	1.500" (1-1/2)	3.250" (3-1/4)

DOUBLE-WIRE SNAP PINS ARE AVAILABLE IN BOTH SQUARE AND ROUND HANDLE



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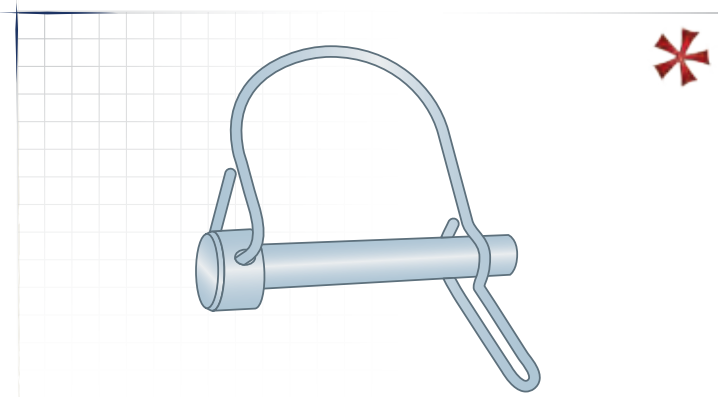
TAB LOCK – SINGLE-WIRE

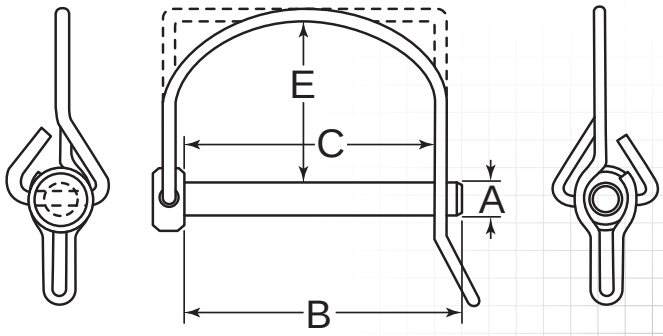
DESCRIPTION

Single-wire tab lock pins provide a small cost savings compared to double-wire tab lock pins. The tab protrusion should be considered in application design and use.

HOW TO IDENTIFY

1. Verify pin with attached round or square handle single-wire tab lock.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





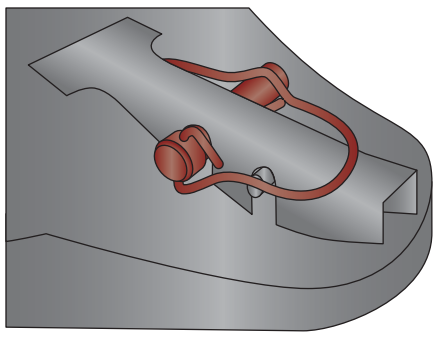
PREFIX MATERIAL/FINISH

SNIT = LOW CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

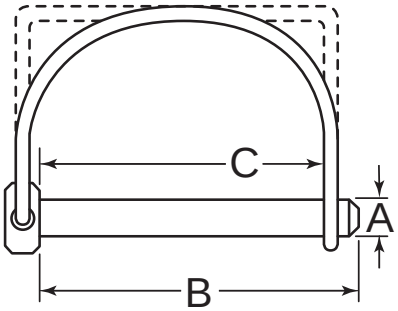
ITEM NUMBER	(A) OUTSIDE DIAMETER -.002/-.007"	(C) EFFECTIVE LENGTH +.125/-.125"	(E) HEIGHT	(B) SHANK LENGTH
Round Handle				
SNIT-250-1750R	.250" (1/4)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
SNIT-312-1750R	.313" (5/16)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
SNIT-375-1750R	.375" (3/8)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
Square Handle				
SNIT-250-2500S	.250" (1/4)	2.500" (2-1/2)	1.500" (1-1/2)	2.750" (2-3/4)
SNIT-312-2500S	.313" (5/16)	2.500" (2-1/2)	1.500" (1-1/2)	2.750" (2-3/4)
SNIT-375-2500S	.375" (3/8)	2.500" (2-1/2)	1.500" (1-1/2)	2.750" (2-3/4)

APPLICATION



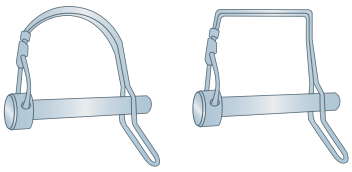
SECURES A TRAILER LATCH MECHANISM

MEASUREMENT



Pins in this category are measured by the shank diameter (A) and effective length (C), not the shank length (B).

SINGLE-WIRE AND DOUBLE WIRE TAB LOCK PINS ARE AVAILABLE IN BOTH SQUARE AND ROUND HANDLE



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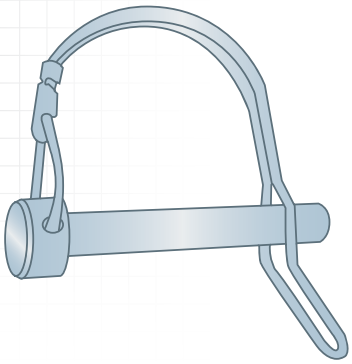
TAB LOCK – DOUBLE-WIRE

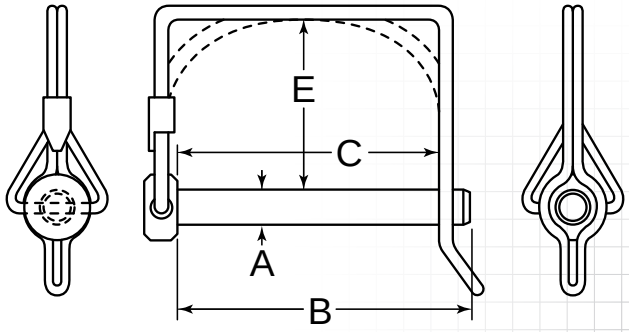
DESCRIPTION

Double-wire tab lock pins feature a double-wire folded into a tab handle sandwiching the pin and locking it in place. The tab handle facilitates quick and easy installation or removal.

HOW TO IDENTIFY

1. Verify pin with attached round or square handle double-wire tab lock.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

SNAT	=	LOW CARBON STEEL, ZINC CLEAR
SNATS	=	300 SERIES STAINLESS STEEL, PASSIVATED
SNATY	=	LOW CARBON STEEL, ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

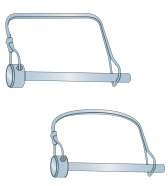
ITEM NUMBER	(A) OUTSIDE DIAMETER -.002/-.007"	(C) EFFECTIVE LENGTH +.125/-.125"	(E) HEIGHT	(B) SHANK LENGTH
Round Handle				
PREFIX-250-1750R	.250" (1/4)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
PREFIX-312-1750R	.313" (5/16)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
PREFIX-375-1750R	.375" (3/8)	1.750" (1-3/4)	1.500" (1-1/2)	2.000" (2)
Square Handle				
PREFIX-375-2250S	.375" (3/8)	2.250" (2-1/4)	1.500" (1-1/2)	2.750" (2-3/4)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

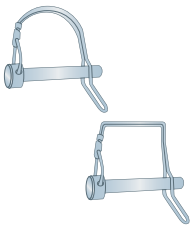
SNAT • SNATS • SNATY

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

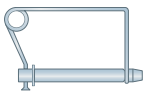
THREE-POINT DESIGNS



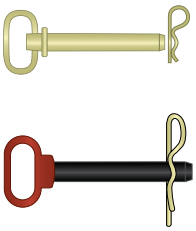
SNAP PIN
Page 48



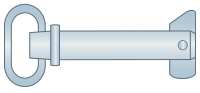
TAB LOCK
Page 50



COIL TENSION
Page 52



HITCH PIN
Page 54



SWIVEL
Page 60



LYNCH
Page 61

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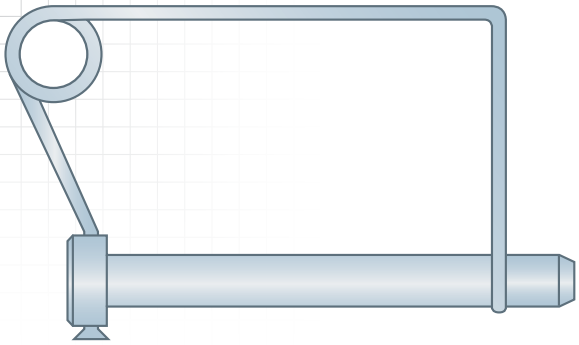
COIL TENSION – STANDARD DUTY

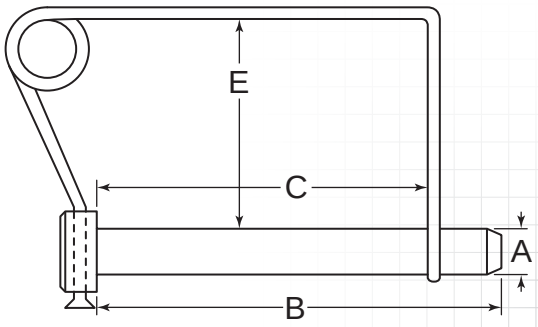
DESCRIPTION

The coiled design provides a spring resistance that helps maintain locking action in presence of lateral movement.

HOW TO IDENTIFY

1. Verify pin with attached coiled handle wire lock.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

SNIC = LOW CARBON STEEL, ZINC CLEAR
SNICS = 300 SERIES STAINLESS STEEL

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER -.002/-.007"	(C) EFFECTIVE LENGTH +.020/-.000"	(E) HEIGHT	(B) SHANK LENGTH
PREFIX-0250-1750	.250" (1/4)	1.750" (1-3/4)	1.500" (1-1/2)	2.250" (2-1/4)
PREFIX-0250-2125	.250" (1/4)	2.125" (2-1/8)	1.500" (1-1/2)	2.625" (2-5/8)
PREFIX-0250-2250	.250" (1/4)	2.250" (2-1/4)	1.500" (1-1/2)	2.750" (2-3/4)
PREFIX-0250-2500	.250" (1/4)	2.500" (2-1/2)	1.500" (1-1/2)	3.000" (3)
PREFIX-0250-3000	.250" (1/4)	3.000" (3)	1.625" (1-5/8)	3.438" (3-7/16)
PREFIX-0250-3500	.250" (1/4)	3.500" (3-1/2)	1.750" (1-3/4)	3.938" (3-15/16)
PREFIX-0250-4000	.250" (1/4)	4.000" (4)	2.000" (2)	4.438" (4-7/16)
PREFIX-0312-2250	.313" (5/16)	2.250" (2-1/4)	1.500" (1-1/2)	2.750" (2-3/4)
PREFIX-0312-2500	.313" (5/16)	2.500" (2-1/2)	1.500" (1-1/2)	3.000" (3)
PREFIX-0312-2750	.313" (5/16)	2.750" (2-3/4)	1.500" (1-1/2)	3.250" (3-1/4)
PREFIX-0312-3000	.313" (5/16)	3.000" (3)	1.563" (1-9/16)	3.438" (3-7/16)
PREFIX-0312-3500	.313" (5/16)	3.500" (3-1/2)	1.750" (1-3/4)	3.938" (3-15/16)
PREFIX-0312-4000	.313" (5/16)	4.000" (4)	2.000" (2)	4.438" (4-7/16)
PREFIX-0375-2250	.375" (3/8)	2.250" (2-1/4)	1.500" (1-1/2)	2.750" (2-3/4)
PREFIX-0375-2500	.375" (3/8)	2.500" (2-1/2)	1.500" (1-1/2)	3.000" (3)
PREFIX-0375-3000	.375" (3/8)	3.000" (3)	1.500" (1-1/2)	3.438" (3-7/16)
PREFIX-0375-3500	.375" (3/8)	3.500" (3-1/2)	1.750" (1-3/4)	3.938" (3-15/16)
PREFIX-0375-4000	.375" (3/8)	4.000" (4)	2.000" (2)	4.438" (4-7/16)
	-.002/.010"	+.020/-.000"		
PREFIX-0500-3500	.500" (1/2)	3.500" (3-1/2)	2.500" (2-1/2)	3.938" (3-15/16)
	-.004/.009"	+.125/-.000"		
PREFIX-0625-4000	.625" (5/8)	4.250" (4-1/4)	3.000" (3)	4.875" (4-7/8)
PREFIX-0750-4000	.750" (3/4)	4.000" (4)	2.000" (2)	5.750" (5-3/4)
PREFIX-0750-6000	.750" (3/4)	6.000" (6)	3.000" (3)	7.313" (7-5/16)

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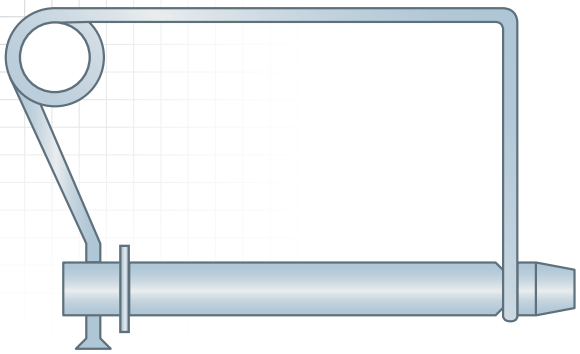
COIL TENSION – HEAVY DUTY

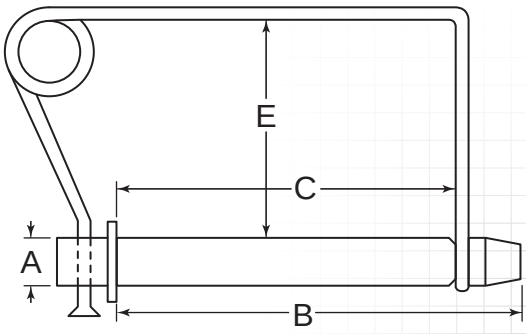
DESCRIPTION

A heftier version with a welded collar for heavy duty applications. Additionally, the pin shaft is grooved to mate with wire assembly for added strength.

HOW TO IDENTIFY

1. Verify pin with attached coiled handle wire lock.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Heavy duty identified by "H" at end of item number.

SNIC = LOW CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER -.004/-.009"	(C) EFFECTIVE LENGTH +.125/-.000"	(E) HEIGHT	(B) SHANK LENGTH
SNIC-0500-3500H	.500" (1/2)	3.500" (3-1/2)	2.750" (2-3/4)	4.125" (4-1/8)
SNIC-0500-4250H	.500" (1/2)	4.250" (4-1/4)	3.000" (3)	4.875" (4-7/8)
SNIC-0625-4000H	.625" (5/8)	4.000" (4)	3.000" (3)	4.734" (4-47/64)
SNIC-0625-4250H	.625" (5/8)	4.250" (4-1/4)	3.000" (3)	4.984" (4-63/64)
SNIC-0625-4500H	.625" (5/8)	4.500" (4-1/2)	3.000" (3)	5.234" (5-15/64)
SNIC-0750-4000H	.750" (3/4)	4.000" (4)	3.000" (3)	4.797" (4-51/64)
SNIC-0750-4250H	.750" (3/4)	4.250" (4-1/4)	3.000" (3)	5.047" (5-3/64)
SNIC-0750-4500H	.750" (3/4)	4.500" (4-1/2)	3.000" (3)	5.297" (5-19/64)
SNIC-0750-6000H	.750" (3/4)	6.000" (6)	3.000" (3)	6.797" (6-51/64)
SNIC-0750-6250H	.750" (3/4)	6.250" (6-1/4)	3.000" (3)	7.047" (7-3/64)
SNIC-0875-5500H	.875" (7/8)	5.500" (5-1/2)	3.000" (3)	6.311"
SNIC-0875-6000H	.875" (7/8)	6.000" (6)	3.000" (3)	6.813" (6-13/16)
SNIC-0875-6250H	.875" (7/8)	6.250" (6-1/4)	3.000" (3)	7.061"
SNIC-1000-5500H	1.000" (1)	5.500" (5-1/2)	3.000" (3)	6.438" (6-7/16)
SNIC-1000-6250H	1.000" (1)	6.250" (6-1/4)	3.000" (3)	7.061"

ALSO AVAILABLE:


Grease Fittings & Accessories


Machine Keys & Keystock


Retaining Rings & Clips


Pins & Wireforms


Shafting & Shaft Collars


Washers, Bushings, & Shims

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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HITCH – ROUND HANDLE

DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with swivel handle.

HOW TO IDENTIFY

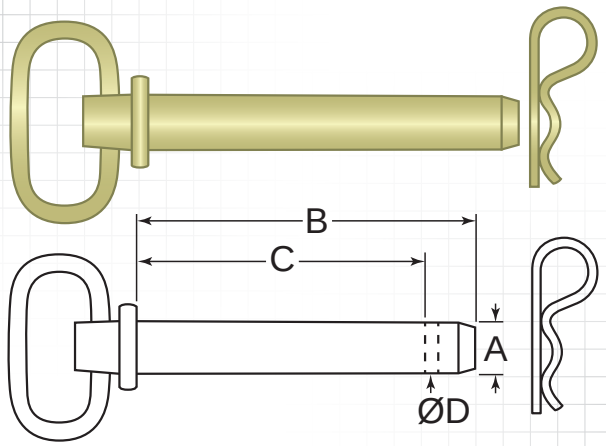
1. Verify pin with swivel handle and drilled hole at opposite end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.

PREFIX MATERIAL/FINISH

HP	=	C1035-1045 STEEL, ZINC YELLOW
HPZ	=	C1035-1045 STEEL, ZINC CLEAR
HPLN	=	C1035-1045 STEEL, ZINC CLEAR WITH OPTIONAL TETHER

Bridge pin included with HP, HPZ, and HPLN.
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST



ITEM NUMBER	(C) EFFECTIVE LENGTH +.030/-.000"	(B) SHANK LENGTH +.030/-.000"
3/8 (.375") (A) Outside Diameter .375/.365"	(D) Hole Diameter: .156" (5/32).166/.151" Head Diameter: .690" .700/.680"	
PREFIX-0375-3000R	3.000" (3)	3.375" (3-3/8)
PREFIX-0375-4000R	4.000" (4)	4.375" (4-3/8)
PREFIX-0375-4250R	4.250" (4-1/4)	4.625" (4-5/8)
1/2 (.500") (A) Outside Diameter .500/.490"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: .910" .920/.900"	
PREFIX-0500-3500R	3.500" (3-1/2)	4.250" (4-1/4)
PREFIX-0500-4000R	4.000" (4)	4.750" (4-3/4)
PREFIX-0500-4250R	4.250" (4-1/4)	5.000" (5)
PREFIX-0500-5750R	5.750" (5-3/4)	6.500" (6-1/2)
5/8 (.625") (A) Outside Diameter .625/.615"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.080" 1.090/1.070"	
PREFIX-0625-4000R	4.000" (4)	4.750" (4-3/4)
PREFIX-0625-4250R	4.250" (4-1/4)	5.000" (5)
PREFIX-0625-4500R	4.500" (4-1/2)	5.250" (5-1/4)
PREFIX-0625-5000R	5.000" (5)	5.750" (5-3/4)
PREFIX-0625-5750R	5.750" (5-3/4)	6.500" (6-1/2)
PREFIX-0625-6000R	6.000" (6)	6.750" (6-3/4)
PREFIX-0625-6250R	6.250" (6-1/4)	7.000" (7)
3/4 (.750") (A) Outside Diameter .750/.740"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.270" 1.280/1.260"	
PREFIX-0750-4000R	4.000" (4)	4.750" (4-3/4)
PREFIX-0750-4250R	4.250" (4-1/4)	5.000" (5)
PREFIX-0750-4500R	4.500" (4-1/2)	5.250" (5-1/4)
PREFIX-0750-6000R	6.000" (6)	6.750" (6-3/4)
PREFIX-0750-6250R	6.250" (6-1/4)	7.000" (7)
7/8 (.875") (A) Outside Diameter 875/.865"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.450" 1.460/1.440"	
PREFIX-0875-4250R	4.250" (4-1/4)	5.250" (5-1/4)
PREFIX-0875-4500R	4.500" (4-1/2)	5.500" (5-1/2)
PREFIX-0875-6000R	6.000" (6)	7.000" (7)
PREFIX-0875-6250R	6.250" (6-1/4)	7.250" (7-1/4)
PREFIX-0875-7000R	7.000" (7)	8.000" (8)
1 (1.000") (A) Outside Diameter 1.000/.990"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.640" 1.650/1.630"	
PREFIX-1000-4250R	4.250" (4-1/4)	5.250" (5-1/4)
PREFIX-1000-4500R	4.500" (4-1/2)	5.500" (5-1/2)
PREFIX-1000-6000R	6.000" (6)	7.000" (7)
PREFIX-1000-6250R	6.250" (6-1/4)	7.250" (7-1/4)
PREFIX-1000-7000R	7.000" (7)	8.000" (8)
1-1/8 (1.125") (A) Outside Diameter 1.125/1.115"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 1.810" 1.820/1.800"	
PREFIX-1125-7000R	7.000" (7)	7.750" (7-3/4)
1-1/4 (1.250") (A) Outside Diameter 1.250/1.240"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 1.856" 1.866/1.846"	
PREFIX-1250-7000R	7.000" (7)	7.750" (7-3/4)
1-1/2 (1.500") (A) Outside Diameter 1.500/1.490"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 2.500" (2-1/2) 2.510/2.490"	
PREFIX-1500-8000R	8.000" (8)	9.000" (9)

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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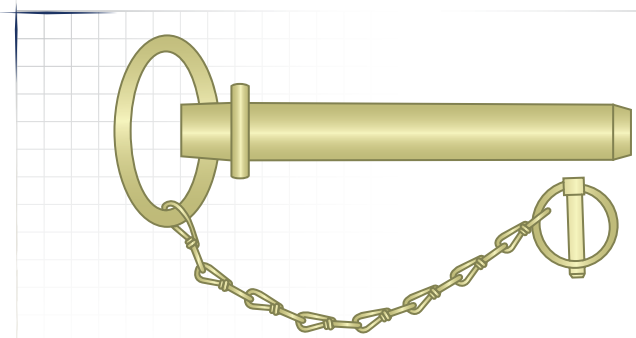
HITCH – ROUND HANDLE W/ LYNCH

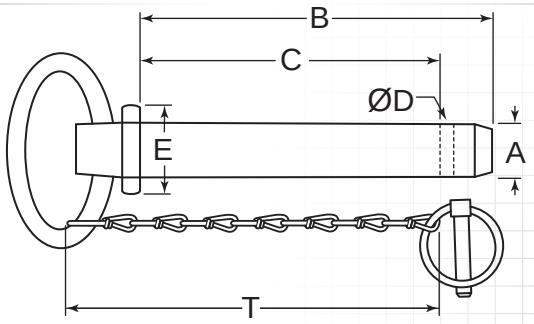
DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with swivel handle.

HOW TO IDENTIFY

1. Verify pin with swivel handle and drilled hole at opposite end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

HPL = C1035-1045 STEEL, ZINC YELLOW WITH 12" CHAIN (T) AND LYNCH PIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(C) EFFECTIVE LENGTH +.030/-.000"	(B) SHANK LENGTH +.030/-.000"
3/8 (.375") (A) Outside Diameter +.010/-.010"	(D) Hole Diameter: .156" (5/32) +.010/-.005" (E) Head Diameter: .690" +.010/-.010" Includes LP-187-1250	
HPL-0375-3000R	3.000" (3)	3.375" (3-3/8)
HPL-0375-4000R	4.000" (4)	4.375" (4-3/8)
HPL-0375-4250R	4.250" (4-1/4)	4.625" (4-5/8)
1/2 (.500") (A) Outside Diameter .500/.490"	(D) Hole Diameter: .203" (13/64) .23/.198" (E) Head Diameter: .910" .920/.900" Includes LP-187-1250	
HPL-0500-3500R	3.500" (3-1/2)	4.250" (4-1/4)
HPL-0500-4000R	4.000" (4)	4.750" (4-3/4)
HPL-0500-4250R	4.250" (4-1/4)	5.000" (5)
HPL-0500-5750R	5.750" (5-3/4)	6.500" (6-1/2)
5/8 (.625") (A) Outside Diameter .625/.615"	(D) Hole Diameter: .203" (13/64).213/.198" (E) Head Diameter: 1.080" 1.090/1.070" Includes LP-187-1250	
HPL-0625-4000R	4.000" (4)	4.750" (4-3/4)
HPL-0625-4250R	4.250" (4-1/4)	5.000" (5)
HPL-0625-4500R	4.500" (4-1/2)	5.250" (5-1/4)
HPL-0625-5000R	5.000" (5)	5.750" (5-3/4)
HPL-0625-5750R	5.750" (5-3/4)	6.500" (6-1/2)
HPL-0625-6000R	6.000" (6)	6.750" (6-3/4)
HPL-0625-6250R	6.250" (6-1/4)	7.000" (7)
3/4 (.750") (A) Outside Diameter .750/.740"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: 1.270" 1.280/1.260" Includes LP-187-1250	
HPL-0750-4000R	4.000" (4)	4.750" (4-3/4)
HPL-0750-4250R	4.250" (4-1/4)	5.000" (5)
HPL-0750-4500R	4.500" (4-1/2)	5.250" (5-1/4)
HPL-0750-6000R	6.000" (6)	6.750" (6-3/4)
HPL-0750-6250R	6.250" (6-1/4)	7.000" (7)
7/8 (.875") (A) Outside Diameter .875/.865"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: 1.450" 1.460/1.440" Includes LP-187-1250	
HPL-0875-4250R	4.250" (4-1/4)	5.250" (5-1/4)
HPL-0875-4500R	4.500" (4-1/2)	5.500" (5-1/2)
HPL-0875-6000R	6.000" (6)	7.000" (7)
HPL-0875-6250R	6.250" (6-1/4)	7.250" (7-1/4)
HPL-0875-7000R	7.000" (7)	8.000" (8)
1 (1.000") (A) Outside Diameter 1.000/.990"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: 1.640" 1.650/1.630" Includes LP-187-1250	
HPL-1000-4250R	4.250" (4-1/4)	5.250" (5-1/4)
HPL-1000-4500R	4.500" (4-1/2)	5.500" (5-1/2)
HPL-1000-6000R	6.000" (6)	7.000" (7)
HPL-1000-6250R	6.250" (6-1/4)	7.250" (7-1/4)
HPL-1000-7000R	7.000" (7)	8.000" (8)
1-1/8 (1.125") (A) Outside Diameter 1.125/1.115"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 1.810" 1.820/1.800" Includes LP-187-1250	
HPL-1125-7000R	7.000" (7)	7.750" (7-3/4)
1-1/4 (1.250") (A) Outside Diameter 1.250/1.240"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 1.856" 1.866/1.846" Includes LP-187-1312	
HPL-1250-7000R	7.000" (7)	7.750" (7-3/4)
1-1/2 (1.500") (A) Outside Diameter 1.500/1.490"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 2.500" (2-1/2) 2.510/2.490" Includes LP-250-1750	
HPL-1500-8000R	8.000" (8)	9.000" (9)

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HITCH – SQUARE HANDLE

DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with swivel handle.

HOW TO IDENTIFY

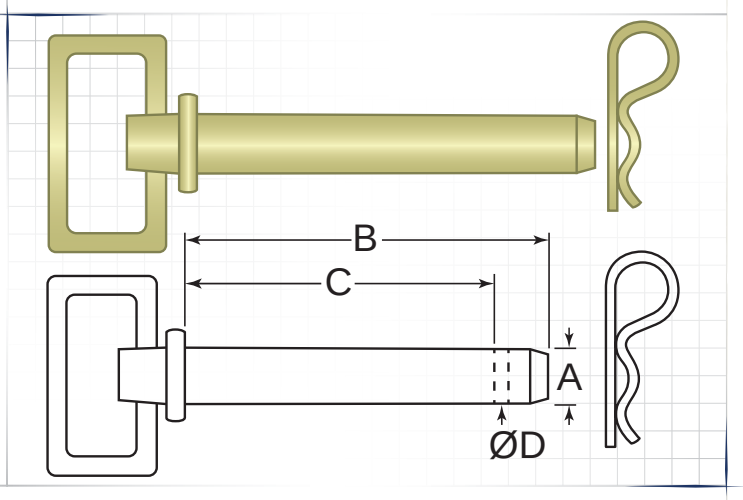
1. Verify pin with swivel handle and drilled hole at opposite end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.

PREFIX MATERIAL/FINISH

HP	=	C1035-1045 STEEL, ZINC YELLOW
HPZ	=	C1035-1045 STEEL, ZINC CLEAR
HPLN	=	C1035-1045 STEEL, ZINC CLEAR WITH OPTIONAL TETHER

Bridge pin included with HP, HPZ, and HPLN.
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST



ITEM NUMBER	(C) EFFECTIVE LENGTH +.030/-.000"	(B) SHANK LENGTH +.030/-.000"
3/8 (.375") (A) Outside Diameter .375/.365"	(D) Hole Diameter: .156" (5/32) .166/.151" Head Diameter: .690" .700/.680"	
PREFIX-0375-4000S	4.000" (4)	4.375" (4-3/8)
1/2 (.500") (A) Outside Diameter .500/.490"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: .910" .920/.900"	
PREFIX-0500-4250S	4.250" (4-1/4)	5.000" (5)
5/8 (.625") (A) Outside Diameter .625/.615"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.080" 1.090/1.070"	
PREFIX-0625-4000S	4.000" (4)	4.750" (4-3/4)
PREFIX-0625-5000S	5.000" (5)	5.750" (5-3/4)
PREFIX-0625-5750S	5.750" (5-3/4)	6.500" (6-1/2)
PREFIX-0625-6000S	6.000" (6)	6.750" (6-3/4)
PREFIX-0625-6250S	6.250" (6-1/4)	7.000" (7)
3/4 (.750") (A) Outside Diameter .750/.740"	(D) Hole Diameter: .203" (13/64).213/.198" Head Diameter: 1.270" 1.280/1.260"	
PREFIX-0750-4000S	4.000" (4)	4.750" (4-3/4)
PREFIX-0750-4250S	4.250" (4-1/4)	5.000" (5)
PREFIX-0750-5250S	5.250" (5-1/4)	6.000" (6)
PREFIX-0750-6250S	6.250" (6-1/4)	7.000" (7)
7/8 (.875") (A) Outside Diameter .875/.865"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.450" 1.460/1.440"	
PREFIX-0875-4250S	4.250" (4-1/4)	5.250" (5-1/4)
PREFIX-0875-6250S	6.250" (6-1/4)	7.250" (7-1/4)
PREFIX-0875-6500S	6.500" (6-1/2)	7.500" (7-1/2)
PREFIX-0875-7000S	7.000" (7)	8.000" (8)
1 (1.000") (A) Outside Diameter 1.000/.900"	(D) Hole Diameter: .203" (13/64) .213/.198" Head Diameter: 1.640" 1.650/1.630"	
PREFIX-1000-4750S	4.750" (4-3/4)	5.750" (5-3/4)
PREFIX-1000-6250S	6.250" (6-1/4)	7.250" (7-1/4)
PREFIX-1000-6750S	6.750" (6-3/4)	7.750" (7-3/4)
PREFIX-1000-7000S	7.000" (7)	8.000" (8)
1-1/8 (1.125") (A) Outside Diameter 1.125/1.115"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 1.810" 1.820/1.800"	
PREFIX-1125-6250S	6.250" (6-1/4)	7.000" (7)
PREFIX-1125-7000S	7.000" (7)	7.750" (7-3/4)
1-1/4 (1.250") (A) Outside Diameter 1.250/1.240"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 1.856" 1.866/1.846"	
PREFIX-1250-6250S	6.250" (6-1/4)	7.000" (7)
PREFIX-1250-7000S	7.000" (7)	7.750" (7-3/4)
1-3/8 (1.375") (A) Outside Diameter 1.375/1.365"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 2.500" (2-1/2) 2.510/2.490"	
PREFIX-1375-8000S	8.000" (8)	9.000" (9)
1-1/2 (1.500") (A) Outside Diameter 1.500/1.490"	(D) Hole Diameter: .250" (1/4) .260/.245" Head Diameter: 2.500" (2-1/2) 2.510/2.490"	
PREFIX-1500-8000S	8.000" (8)	9.000" (9)

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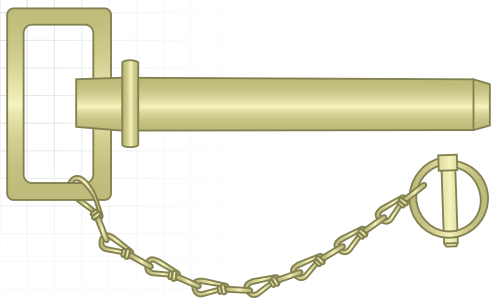
HITCH – SQUARE HANDLE W/ LYNCH

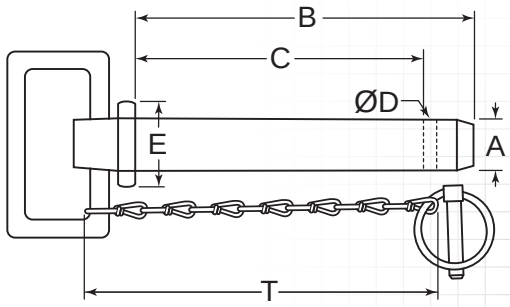
DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with swivel handle.

HOW TO IDENTIFY

1. Verify pin with swivel handle and drilled hole at opposite end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

HPL = C1035-1045 STEEL, ZINC YELLOW WITH 12" CHAIN (T) AND LYNCH PIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(C) EFFECTIVE LENGTH	(B) SHANK LENGTH
3/8 (.375") (A) Outside Diameter .375/.365"	(D) Hole Diameter: .156" (5/32) .166/.151" (E) Head Diameter: .690" .700/.680"	
HPL-0375-4000S	4.000" (4)	4.375" (4-3/8)
1/2 (.500") (A) Outside Diameter .500/.490"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: .910" .920/.900"	
HPL-0500-4250S	4.250" (4-1/4)	5.000" (5)
5/8 (.625") (A) Outside Diameter .625/.615"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: 1.080" 1.090/1.070"	
HPL-0625-4000S	4.000" (4)	4.750" (4-3/4)
HPL-0625-5000S	5.000" (5)	5.750" (5-3/4)
HPL-0625-5750S	5.750" (5-3/4)	6.500" (6-1/2)
HPL-0625-6000S	6.000" (6)	6.750" (6-3/4)
HPL-0625-6250S	6.250" (6-1/4)	7.000" (7)
3/4 (.750") (A) Outside Diameter .750/.740"	(D) Hole Diameter: .203" (13/64).213/.198" (E) Head Diameter: 1.270" 1.280/1.260"	
HPL-0750-4000S	4.000" (4)	4.750" (4-3/4)
HPL-0750-4250S	4.250" (4-1/4)	5.000" (5)
HPL-0750-5250S	5.250" (5-1/4)	6.000" (6)
HPL-0750-6250S	6.250" (6-1/4)	7.000" (7)
7/8 (.875") (A) Outside Diameter .875/.865"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: 1.450" 1.460/1.440"	
HPL-0875-4250S	4.250" (4-1/4)	5.250" (5-1/4)
HPL-0875-6250S	6.250" (6-1/4)	7.250" (7-1/4)
HPL-0875-6500S	6.500" (6-1/2)	7.500" (7-1/2)
HPL-0875-7000S	7.000" (7)	8.000" (8)
1 (1.000") (A) Outside Diameter 1.000/.900"	(D) Hole Diameter: .203" (13/64) .213/.198" (E) Head Diameter: 1.640" 1.650/1.630"	
HPL-1000-4750S	4.750" (4-3/4)	5.750" (5-3/4)
HPL-1000-6250S	6.250" (6-1/4)	7.250" (7-1/4)
HPL-1000-6750S	6.750" (6-3/4)	7.750" (7-3/4)
HPL-1000-7000S	7.000" (7)	8.000" (8)
1-1/8 (1.125") (A) Outside Diameter 1.125/1.115"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 1.810" 1.820/1.800"	
HPL-1125-6250S	6.250" (6-1/4)	7.000" (7)
HPL-1125-7000S	7.000" (7)	7.750" (7-3/4)
1-1/4 (1.250") (A) Outside Diameter 1.250/1.240"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 1.856" 1.866/1.846"	
HPL-1250-6250S	6.250" (6-1/4)	7.000" (7)
HPL-1250-7000S	7.000" (7)	7.750" (7-3/4)
1-3/8 (1.375") (A) Outside Diameter 1.375/1.365"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 2.500" (2-1/2) 2.510/2.490"	
HPL-1375-8000S	8.000" (8)	9.000" (9)
1-1/2 (1.500") (A) Outside Diameter 1.500/1.490"	(D) Hole Diameter: .250" (1/4) .260/.245" (E) Head Diameter: 2.500" (2-1/2) 2.510/2.490"	
HPL-1500-8000S	8.000" (8)	9.000" (9)

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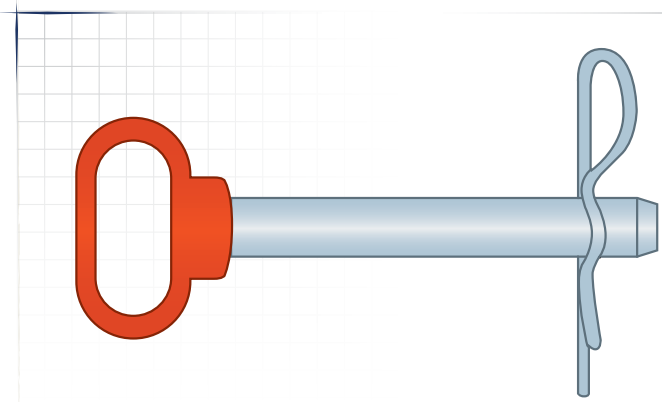
HITCH – ORANGE HANDLE

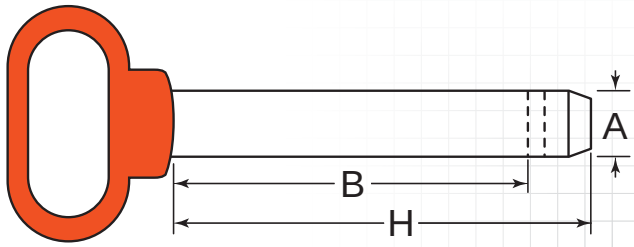
DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with a PVC coated handle. Hardness rating: HRC 25-34. Meets grade 5 standards.

HOW TO IDENTIFY

1. Verify pin with orange handle and drilled hole at opposite end.
2. Measure diameter (A).
3. Measure effective length (B).
4. Find the part in the chart below.





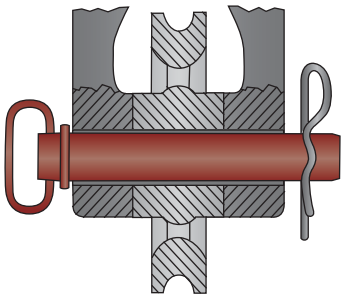
PREFIX MATERIAL/FINISH

HPRZ = C1035-1045 STEEL, ZINC CLEAR
Bridge pin included.

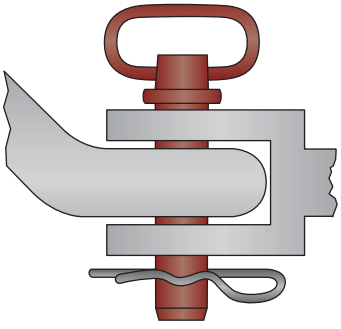
ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER +.000/-.010"	(B) EFFECTIVE LENGTH +.125/-.000"	(H) SHANK LENGTH +.125/-.000"	HOLE DIAMETER +.008/-.000"	INCLUDED BRIDGE PIN
HPRZ-0500-4000	.500" (1/2)	4.000" (4)	4.844" (4-27/32)	.156" (5/32)	BPY-210
HPRZ-0625-4500	.625" (5/8)	4.500" (4-1/2)	5.344" (5-11/32)	.191"	BPY-210
HPRZ-0625-6000	.625" (5/8)	6.000" (6)	6.750" (6-3/4)	.091"	BPY-210
HPRZ-0750-4500	.750" (3/4)	4.500" (4-1/2)	5.375" (5-3/8)	.091"	BPY-210
HPRZ-0750-6500	.750" (3/4)	6.500" (6-1/2)	7.375" (7-3/8)	.091"	BPY-210
HPRZ-0875-4500	.875" (7/8)	4.500" (4-1/2)	5.875" (5-7/8)	.091"	BPY-210
HPRZ-0875-6500	.875" (7/8)	6.500" (6-1/2)	7.875" (7-7/8)	.091"	BPY-210
HPRZ-1000-4500	1.000" (1)	4.500" (4-1/2)	5.875" (5-7/8)	.091"	BPY-210
HPRZ-1000-6500	1.000" (1)	6.500" (6-1/2)	7.875" (7-7/8)	.091"	BPY-210
HPRZ-1125-7000	1.125" (1-1/8)	7.000" (7)	8.375" (8-3/8)	.091"	BPY-210
HPRZ-1250-7000	1.250" (1-1/4)	7.000" (7)	8.375" (8-3/8)	.091"	BPY-210

APPLICATIONS



EXAMPLE OF A HITCH PIN USED TO COUPLE A TRAILER HITCH AND SECURED WITH A BRIDGE PIN



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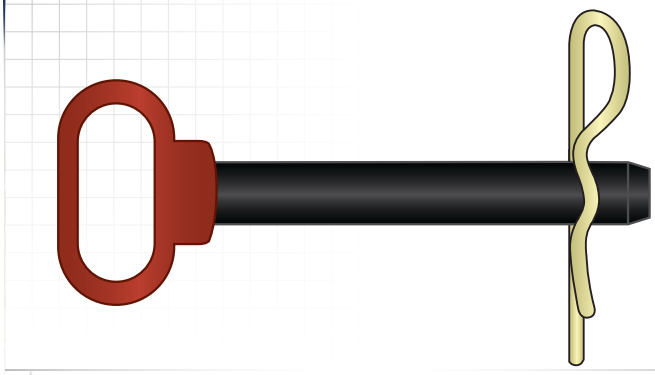
HITCH – RED HANDLE

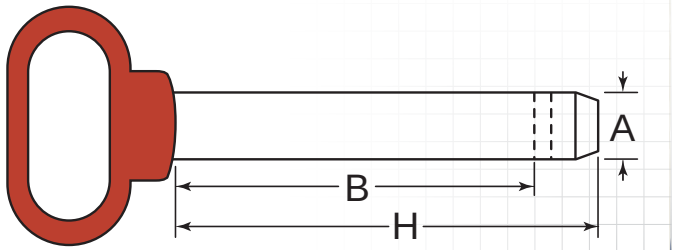
DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with a PVC coated handle. Hardness rating: HRC 27-33. Meets grade 5 standards.

HOW TO IDENTIFY

1. Verify pin with red handle, black shaft, and drilled hole at opposite end.
2. Measure diameter (A).
3. Measure effective length (B).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

HPR = AISI 1539 / EN15 STEEL, POWDER COATED BLACK

Bridge pin included.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER +.000/-.010"	(B) EFFECTIVE LENGTH +.125/-.000"	(H) SHANK LENGTH +.125/-.000"	HOLE DIAMETER +.008/-.000"	INCLUDED BRIDGE PIN
HPR-0375-4000	.375" (3/8)	4.000" (4)	4.625" (4-5/8)	.281"	BPY-210
HPR-0500-3625	.500" (1/2)	3.625" (3-5/8)	4.250" (4-1/4)	.281"	BPY-210
HPR-0625-4000	.625" (5/8)	4.000" (4)	4.625" (4-5/8)	.281"	BPY-210
HPR-0625-4250	.625" (5/8)	4.250" (4-1/4)	4.875" (4-7/8)	.281"	BPY-210
HPR-0625-4500	.625" (5/8)	4.500" (4-1/2)	5.125" (5-1/8)	.281"	BPY-210
HPR-0625-5500	.625" (5/8)	5.500" (5-1/2)	6.125" (6-1/8)	.281"	BPY-210
HPR-0750-4000	.750" (3/4)	4.000" (4)	4.625" (4-5/8)	.281"	BPY-210
HPR-0750-6500	.750" (3/4)	6.500" (6-1/2)	7.125" (7-1/8)	.281"	BPY-210
HPR-0875-4000	.875" (7/8)	4.000" (4)	4.625" (4-5/8)	.281"	BPY-210
HPR-0875-4250	.875" (7/8)	4.250" (4-1/4)	4.875" (4-7/8)	.281"	BPY-210
HPR-0875-6250	.875" (7/8)	6.250" (6-1/4)	6.875" (6-7/8)	.281"	BPY-210
HPR-0875-6500	.875" (7/8)	6.500" (6-1/2)	7.125" (7-1/8)	.281"	BPY-210
HPR-1000-4500	1.000" (1)	4.500" (4-1/2)	5.125" (5-1/8)	.281"	BPY-210
HPR-1000-7500	1.000" (1)	7.500" (7-1/2)	8.125" (8-1/8)	.281"	BPY-210
HPR-1125-8500	1.125" (1-1/8)	8.500" (8-1/2)	9.125" (9-1/8)	.281"	BPY-2109
HPR-1250-8500	1.250" (1-1/4)	8.500" (8-1/2)	9.125" (9-1/8)	.281"	BPY-2109
HPR-1500-8500	1.500" (1-1/2)	8.500" (8-1/2)	9.125" (9-1/8)	.281"	BPY-2109

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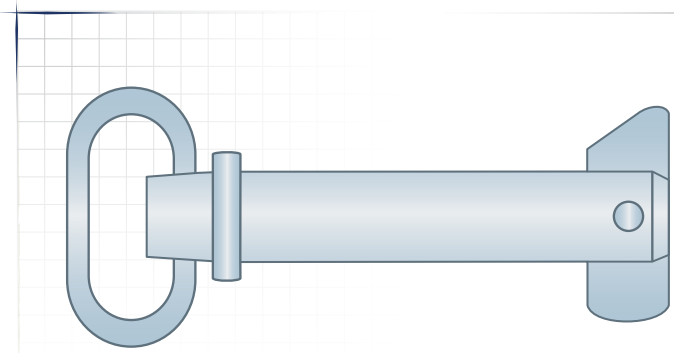
HITCH – SWIVEL LOCK

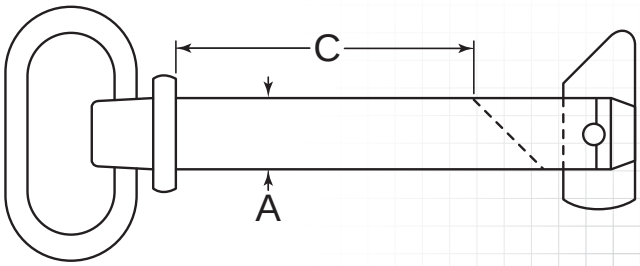
DESCRIPTION

Hitch pins are used to attach trailers and various turf and agricultural implements. Manufactured from heat treated steel with swivel handle and swivel tab lock.

HOW TO IDENTIFY

1. Verify pin with swivel handle and swivel tab lock at opposite end.
2. Measure diameter (A).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

HPSL = MEDIUM CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(C) EFFECTIVE LENGTH +.060/-.000"	HEAD DIAMETER
	+.000/-.004"		+.020/-.020"
HPSL-0375-2750	.375" (3/8)	2.750" (2-3/4)	1.000" (1)
HPSL-0375-4000	.375" (3/8)	4.000" (4)	1.000" (1)
	+.000/-.005"		
HPSL-0500-3500	.500" (1/2)	3.500" (3-1/2)	1.250" (1-1/4)
HPSL-0500-5500	.500" (1/2)	5.500" (5-1/2)	1.250" (1-1/4)
			+.010/-.010"
HPSL-0625-3500	.625" (5/8)	3.500" (3-1/2)	1.500" (1-1/2)
HPSL-0625-5500	.625" (5/8)	5.500" (5-1/2)	1.500" (1-1/2)
HPSL-0750-3500	.750" (3/4)	3.500" (3-1/2)	1.500" (1-1/2)
HPSL-0750-6000	.750" (3/4)	6.000" (6)	1.500" (1-1/2)
HPSL-0812-6250	.812" (4/5)	6.250" (6-1/4)	1.500" (1-1/2)
HPSL-0875-3500	.875" (7/8)	3.500" (3-1/2)	1.500" (1-1/2)
HPSL-0875-6000	.875" (7/8)	6.000" (6)	1.500" (1-1/2)
			+.060/-.060"
HPSL-1000-3500	1.000" (1)	3.500" (3-1/2)	1.875" (1-7/8)
HPSL-1000-6000	1.000" (1)	6.000" (6)	1.875" (1-7/8)

MANUFACTURING CAPABILITIES:



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LYNCH – IMPERIAL

DESCRIPTION

A solid pin with an attached self-locking ring that snaps down firmly to hold the part securely in place. Also available with attached chain and cotter pin.

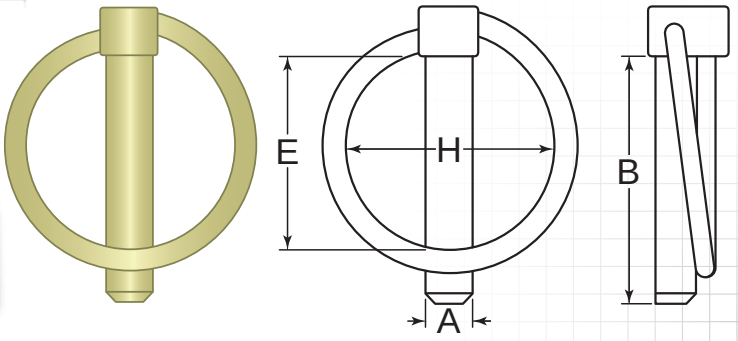
HOW TO IDENTIFY

1. Verify pin with attached self-locking ring.
2. Measure pin diameter (A).
3. Measure effective length (E).
4. Find the part in the chart below.

PREFIX		MATERIAL/FINISH
LP	=	CARBON STEEL, ZINC YELLOW
LP-##-H	=	HEAVY DUTY VERSION
LPC	=	CARBON STEEL, ZINC YELLOW, OPTIONAL CHAIN AND COTTER INCLUDED

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST



ITEM NUMBER	(A) OUTSIDE DIAMETER	(E) EFFECTIVE LENGTH +.079/-.039"	(B) SHANK LENGTH +.040/-.040"	(H) INSIDE DIAMETER
	-.002/-.007"			
PREFIX-187-0875	.188" (3/16)	.875" (7/8)	1.125" (1-1/8)	1.000" (1)
PREFIX-187-1000	.188" (3/16)	1.000" (1)	1.250" (1-1/4)	1.125" (1-1/8)
PREFIX-187-1250	.188" (3/16)	1.250" (1-1/4)	1.563" (1-9/16)	1.406" (1-13/32)
PREFIX-187-1312	.188" (3/16)	1.313" (1-5/16)	1.563" (1-9/16)	1.438" (1-7/16)
PREFIX-250-1250	.250" (1/4)	1.250" (1-1/4)	1.563" (1-9/16)	1.406" (1-13/32)
PREFIX-250-1250A	.250" (1/4)	1.250" (1-1/4)	1.750" (1-3/4)	1.406" (1-13/32)
PREFIX-250-1312	.250" (1/4)	1.313" (1-5/16)	1.750" (1-3/4)	1.438" (1-7/16)
PREFIX-250-1375	.250" (1/4)	1.375" (1-3/8)	1.750" (1-3/4)	1.500" (1-1/2)
PREFIX-250-1500	.250" (1/4)	1.500" (1-1/2)	1.750" (1-3/4)	1.563" (1-9/16)
PREFIX-250-1625	.250" (1/4)	1.625" (1-5/8)	1.750" (1-3/4)	1.688" (1-11/16)
PREFIX-250-1750	.250" (1/4)	1.750" (1-3/4)	2.000" (2)	1.875" (1-7/8)
PREFIX-312-1250	.313" (5/16)	1.250" (1-1/4)	1.563" (1-9/16)	1.406" (1-13/32)
PREFIX-312-1250A	.313" (5/16)	1.250" (1-1/4)	1.750" (1-3/4)	1.406" (1-13/32)
PREFIX-312-1375	.313" (5/16)	1.375" (1-3/8)	1.750" (1-3/4)	1.500" (1-1/2)
PREFIX-312-1500	.313" (5/16)	1.500" (1-1/2)	1.750" (1-3/4)	1.563" (1-9/16)
PREFIX-312-1625	.313" (5/16)	1.625" (1-5/8)	2.344" (2-11/32)	1.875" (1-7/8)
PREFIX-312-1625A	.313" (5/16)	1.625" (1-5/8)	2.375" (2-3/8)	1.875" (1-7/8)
PREFIX-312-1750	.313" (5/16)	1.750" (1-3/4)	2.000" (2)	1.875" (1-7/8)
PREFIX-312-2062	.313" (5/16)	2.063" (2-1/16)	2.344" (2-11/32)	2.188" (2-3/16)
	-.002/-.020"			
PREFIX-437-1250	.438" (7/16)	1.250" (1-1/4)	1.750" (1-3/4)	1.406" (1-13/32)
PREFIX-437-1343	.438" (7/16)	1.344" (1-11/32)	1.563" (1-9/16)	1.531" (1-17/32)
PREFIX-437-1343A	.438" (7/16)	1.344" (1-11/32)	1.969" (1-31/32)	1.531" (1-17/32)
PREFIX-437-1375	.438" (7/16)	1.375" (1-3/8)	1.750" (1-3/4)	1.500" (1-1/2)
PREFIX-437-1437	.438" (7/16)	1.438" (1-7/16)	2.000" (2)	1.531" (1-17/32)
PREFIX-437-1500	.438" (7/16)	1.500" (1-1/2)	2.000" (2)	1.563" (1-9/16)
PREFIX-437-1500A	.438" (7/16)	1.500" (1-1/2)	1.750" (1-3/4)	1.563" (1-9/16)
PREFIX-437-1500B	.438" (7/16)	1.500" (1-1/2)	1.969" (1-31/32)	1.563" (1-9/16)
PREFIX-437-1625	.438" (7/16)	1.625" (1-5/8)	1.938" (1-15/16)	1.875" (1-7/8)
PREFIX-437-1750	.438" (7/16)	1.750" (1-3/4)	2.250" (2-1/4)	2.000" (2)
PREFIX-437-2250	.438" (7/16)	2.250" (2-1/4)	2.500" (2-1/2)	2.625" (2-5/8)

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THREE-POINT PINS

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LYNCH – METRIC

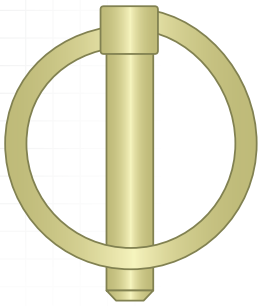
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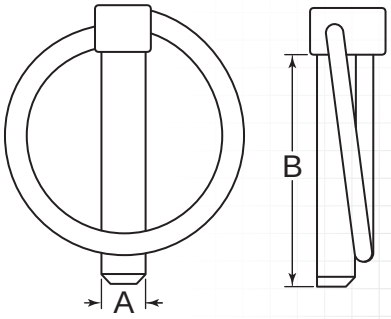
DESCRIPTION

A solid pin with an attached self-locking ring that snaps down firmly to hold the part securely in place.

HOW TO IDENTIFY

1. Verify pin with attached self-locking ring.
2. Measure pin diameter (A).
3. Measure shank length (B).
4. Find the part in the chart below.





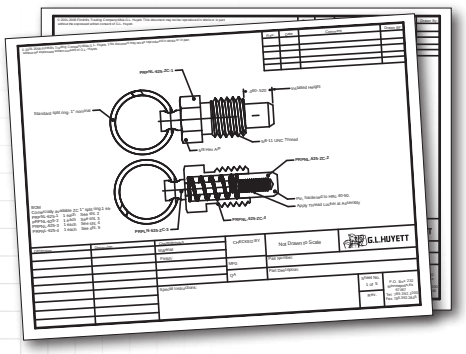
PREFIX MATERIAL/FINISH

LPM = CARBON STEEL, ZINC YELLOW

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(B) SHANK LENGTH
LPM-040-027	4.00 mm	27.00 mm
LPM-045-032	4.50 mm	32.00 mm
LPM-060-040	6.00 mm	40.00 mm
LPM-070-040	7.00 mm	40.00 mm
LPM-080-045	8.00 mm	45.00 mm
LPM-090-045	9.00 mm	45.00 mm
LPM-100-045	10.00 mm	45.00 mm
LPM-110-045	11.00 mm	45.00 mm

CUSTOM SOLUTIONS



NEED A CUSTOM PART?

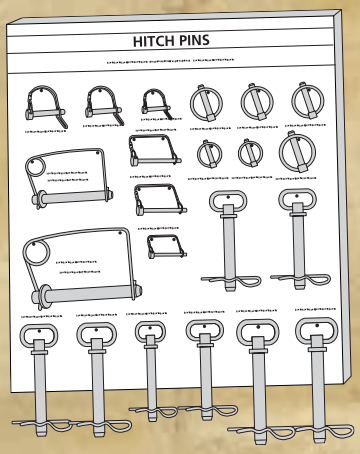
For multiple cross-holes, turning and grooving, or milling and grinding, visit huyett.com to find out what G.L. Huyett can do for you.

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ASSORTMENTS



THREE-POINT PINS FOR ANY OCCASION

This assortment includes a backboard with hooks for each type and size of pin. Suitable for use as storage in a shop or POS display in a store.

Also available without the backboard for easy restocking.

92 Piece
DISP-LHS90

See specific part for material and finish.
Display included.
Parts Only = DISP-LHS90R

Parts Included	Size	Quantity
Clevis Pins		
CLPZ-0312-1000	5/16" x 1"	2
Hitch Pins		
HP-0500-4000R	1/2" x 4"	4
HP-0500-5750R	1/2" x 5-3/4"	4
HP-0625-4000R	5/8" x 4"	4
HP-0625-5750R	5/8" x 5-3/4"	4
HP-0750-6250R	3/4" x 6-1/4"	4
HP-1000-7000R	1" x 7"	4
Lynch Pins		
LP-187-1250	3/16" x 1-1/4"	5
LP-250-1250	1/4" x 1-1/4"	5
LP-250-1312	1/4" x 1-5/16"	5
LP-312-1250	5/16" x 1-1/4"	5
LP-437-1343	7/16" x 1-11/32"	5
LP-437-1625	7/16" x 1-5/8"	5
Snap Pins		
SNAP-250-1750R	1/4" x 1-3/4"	5
SNAP-250-2500S	1/4" x 2-1/2"	5
SNAP-312-1750R	5/16" x 1-3/4"	5
SNAP-312-2500S	5/16" x 2-1/2"	5
SNAP-375-1500R	3/8" x 1-1/2"	5
SNAP-375-2500S	3/8" x 2-1/2"	5
SNIC-0500-4250H	1/2" x 4-1/4"	3
SNIC-0750-6250H	3/4" x 6-1/4"	3

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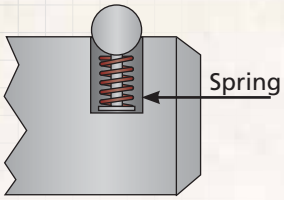
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POSITIVE LOCK PIN FEATURES

Self-locking pins are made from precision materials using more sophisticated production techniques. The convenient features of a single-piece design are available for highly demanding applications and where repetitive usage is present.

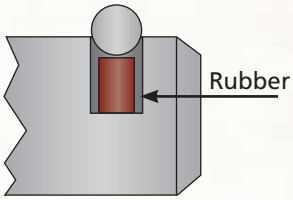
DETENT BALL APPARATUS

STEEL SPRING WORKS



USE IN HIGH TEMPERATURE APPLICATIONS AND ENVIRONMENTS

SYNTHETIC RUBBER WORKS

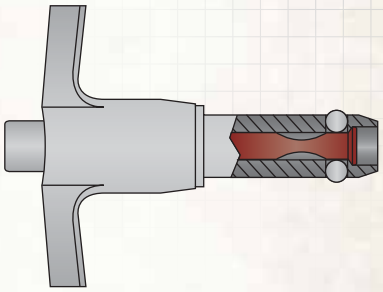


PREVENTS FOREIGN MATTER FROM ENTERING HOUSING, WHICH CAN CAUSE CORROSION AND IMPEDE PERFORMANCE

MAY MELT IN HIGH TEMPERATURE ENVIRONMENTS

Available as a special order

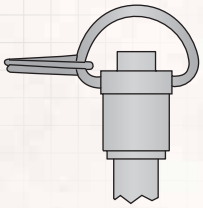
MECHANICAL WORKS



HIGHEST QUALITY AND BEST PERFORMANCE IF MADE FROM CORROSION RESISTANT MATERIALS

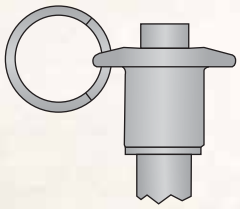
DESIGN CONSIDERATIONS

RING



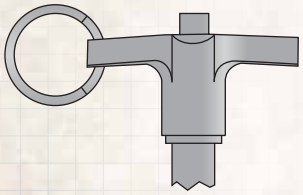
LOWEST COST

BUTTON



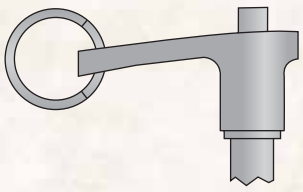
HIGHEST PROFILE, MOST CONSISTENT

T-HANDLE



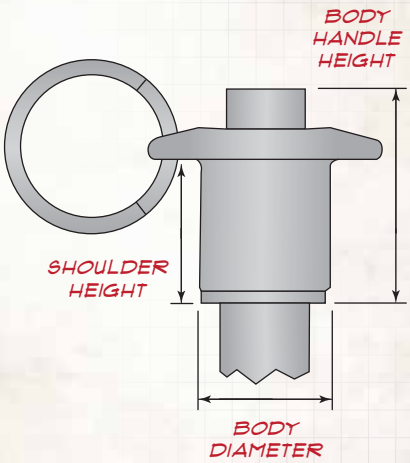
PROVIDES OPERATOR FIRMEST GRIP

L-HANDLE



WHEN THERE IS NOT ENOUGH ROOM FOR A T-HANDLE

ANATOMY OF THE PIN



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POSITIVE LOCK PIN TYPES

DETENT

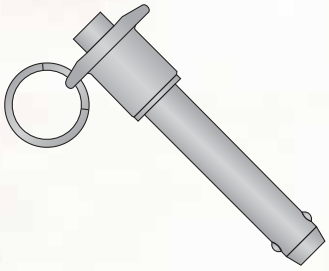
Also known as cotterless hitch pins, detent pins offer the most sizes and lowest cost in the class. Available in carbon steel and stainless steel.



PAGE 67

BUTTON HEAD

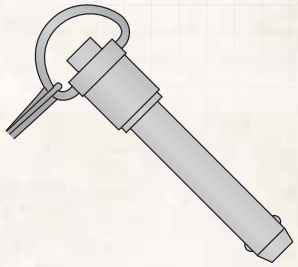
The large protruding button at the end of the pin provides an easily-accessible method of detent ball release. Shank is precision ground for straight alignment.



PAGE 70

RING HANDLE

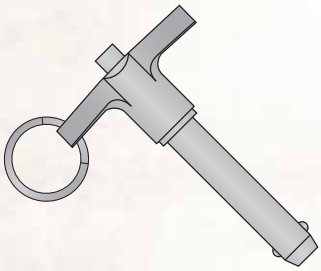
Ring handle pin eases removal for reuse after the button is depressed. Also used in recesses where an L-/T-handle will not fit.



PAGE 72

T-HANDLE

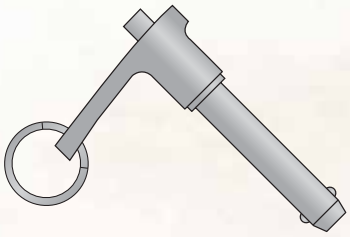
Handle style provides maximum grip for removal. This style is very common in aerospace ground applications. Shank is precision ground.



PAGE 74

L-HANDLE

This style is used frequently in applications where a T-handle cannot fit.

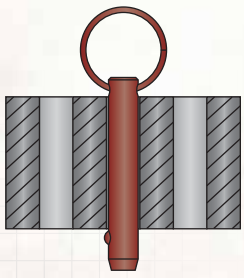


PAGE 76

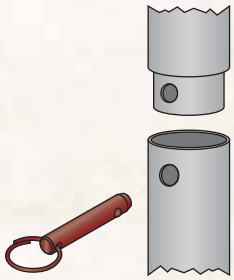
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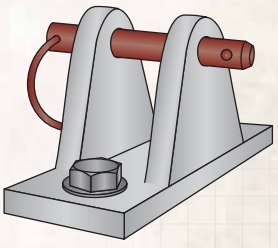
APPLICATIONS



AS LOCATOR PINS TO POSITION A WORKPIECE



TO CONNECT TWO POLES



ON SAILBOATS IN COMBINATION WITH TIE-DOWNS

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POSITIVE LOCK PINS

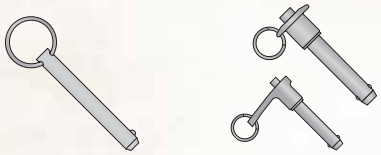
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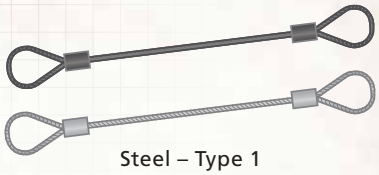
Positive lock pins are designed to use in temporary quick disconnect operations. The detent pin has a ball bearing on one end with a steel spring works that depresses and springs out to lock the pin into place. Self-locking pins use a mechanical works that releases the ball when the button on the handle is depressed.



	DETENT	SELF LOCKING
COMMON NAMES	Cotterless Pins, Fast Pins, Ring Grip Pins, Quick Release Pins	High Profile, Quick Release Pins, Aircraft Pins, Push Button Pins, Positive Lock Pins
APPLICABLE STANDARDS	None known.	None known.
FABRICATION	Turn or cold-head of pin; cross-drill detent pilot; assembly.	Turn pin shaft; centerless grind shaft; installation of interior works; assembly.
HOW TO IDENTIFY	Nominal diameter x effective length.	Style x nominal diameter x effective length.
COMMON USES	Canvas and sailing applications, where quick disconnect and lighter duty retention is acceptable.	Locating and tool and die applications, where precision and reuse is needed. Aerospace ground equipment and military.
COMMENTS	Ball protrusion, detent pressure, and spring design are leading causes of failure. Detent is best designed with metal spring, versus synthetic rubber, for high temperature environments.	Available with many handle types. Tethers and accessories are available.

NYLON & STEEL TETHERS

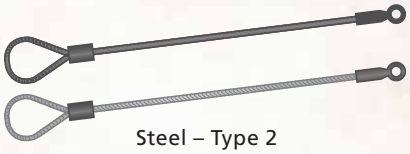
Tethers are an economical method of protecting against loss by attaching pins to their mating parts. *See page 128.*



Steel – Type 1
Plain & Nylon Coated



Steel – Type 1 Tabbed
Plain & Nylon Coated



Steel – Type 2
Plain & Nylon Coated



Steel – Type 3
Plain & Nylon Coated



Nylon – Type 1



Nylon – Type 2

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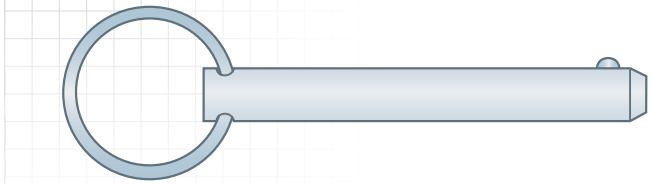
DETENT

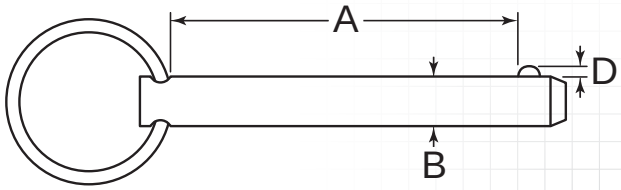
DESCRIPTION

Detent pins are designed for use in temporary quick disconnect operations. The pin has a ball bearing on one end with a steel spring works that depresses and springs out to lock the pin into place. *See also "Cotterless Clevis Pins," page 33.*

HOW TO IDENTIFY

1. Verify ring grip pin with spring loaded detent ball at opposite end.
2. Measure diameter (B).
3. Measure effective length (A).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DTP	=	MEDIUM CARBON STEEL, ZINC CLEAR
DTPS	=	300 SERIES STAINLESS STEEL, PLAIN
DTPS6	=	316 STAINLESS STEEL, PLAIN
####-Y	=	MEDIUM CARBON STEEL, ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3/16 (.188")

(B) Outside Diameter: .188/.184"

(D) Ball Height: .017" .022/.012"
Maximum Hole Diameter: .194"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0187-0400	.400"
PREFIX-0187-0500	.500" (1/2)
PREFIX-0187-0600	.600"
PREFIX-0187-0700	.700"
PREFIX-0187-0800	.800"
PREFIX-0187-0812	.813" (13/16)
PREFIX-0187-0900	.900"
PREFIX-0187-1000	1.000" (1)
PREFIX-0187-1100	1.100"
PREFIX-0187-1200	1.200"
PREFIX-0187-1300	1.300"
PREFIX-0187-1312	1.313" (1-5/16)
PREFIX-0187-1400	1.400"
PREFIX-0187-1500	1.500" (1-1/2)
PREFIX-0187-1600	1.600"
PREFIX-0187-1700	1.700"
PREFIX-0187-1800	1.800"
PREFIX-0187-1812	1.813" (1-13/16)
PREFIX-0187-1900	1.900"
PREFIX-0187-2000	2.000" (2)
PREFIX-0187-2312	2.313" (2-5/16)
PREFIX-0187-2500	2.500" (2-1/2)
PREFIX-0187-2600	2.600"
PREFIX-0187-2812	2.813" (2-13/16)
PREFIX-0187-3000	3.000" (3)
PREFIX-0187-3500	3.500" (3-1/2)
PREFIX-0187-4000	4.000" (4)

1/4 (.250")

(B) Outside Diameter: .250/.247"

(D) Ball Height: .036" .041/.031"
Maximum Hole Diameter: .254"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0250-0400	.400"
PREFIX-0250-0500	.500" (1/2)
PREFIX-0250-0600	.600"
PREFIX-0250-0700	.700"
PREFIX-0250-0750	.750" (3/4)
PREFIX-0250-0800	.800"
PREFIX-0250-0900	.900"
PREFIX-0250-1000	1.000" (1)
PREFIX-0250-1100	1.100"
PREFIX-0250-1200	1.200"
PREFIX-0250-1250	1.250" (1-1/4)
PREFIX-0250-1300	1.300"
PREFIX-0250-1400	1.400"
PREFIX-0250-1500	1.500" (1-1/2)
PREFIX-0250-1600	1.600"
PREFIX-0250-1700	1.700"
PREFIX-0250-1750	1.750" (1-3/4)
PREFIX-0250-1800	1.800"
PREFIX-0250-1900	1.900"
PREFIX-0250-2000	2.000" (2)
PREFIX-0250-2100	2.100"
PREFIX-0250-2200	2.200"
PREFIX-0250-2250	2.250" (2-1/4)
PREFIX-0250-2300	2.300"
PREFIX-0250-2400	2.400"
PREFIX-0250-2500	2.500" (2-1/2)
PREFIX-0250-2700	2.700"
PREFIX-0250-2750	2.750" (2-3/4)
PREFIX-0250-3000	3.000" (3)
PREFIX-0250-3200	3.200"
PREFIX-0250-3250	3.250" (3-1/4)
PREFIX-0250-3500	3.500" (3-1/2)
PREFIX-0250-3750	3.750" (3-3/4)
PREFIX-0250-4000	4.000" (4)
PREFIX-0250-4250	4.250" (4-1/4)

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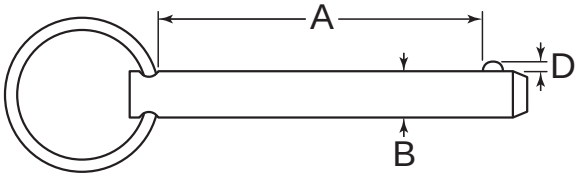
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DETENT

PREFIX		MATERIAL/FINISH
DTP	=	MEDIUM CARBON STEEL, ZINC CLEAR
DTP-####-Y	=	MEDIUM CARBON STEEL, ZINC YELLOW
DTPS	=	300 SERIES STAINLESS STEEL, PLAIN
DTPS6	=	316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



1/4 (.250")

(B) Outside Diameter: .250/.247"

(D) Ball Height: .036" .041/.031"
Maximum Hole Diameter: .254"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0250-4300	4.300"
PREFIX-0250-4500	4.500" (4-1/2)
PREFIX-0250-4750	4.750" (4-3/4)
PREFIX-0250-5000	5.000" (5)
PREFIX-0250-6000	6.000" (6)

5/16 (.313")

(B) Outside Diameter: .313/.309"

(D) Ball Height: .047" (3/64) .051/.041"
Maximum Hole Diameter: .317"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0312-0625	.625" (5/8)
PREFIX-0312-0750	.750" (3/4)
PREFIX-0312-0800	.800"
PREFIX-0312-1000	1.000" (1)
PREFIX-0312-1125	1.125" (1-1/8)
PREFIX-0312-1200	1.200"
PREFIX-0312-1250	1.250" (1-1/4)
PREFIX-0312-1300	1.300"
PREFIX-0312-1400	1.400"
PREFIX-0312-1500	1.500" (1-1/2)
PREFIX-0312-1600	1.600"
PREFIX-0312-1625	1.625" (1-5/8)
PREFIX-0312-1700	1.700"
PREFIX-0312-1800	1.800"
PREFIX-0312-1900	1.900"
PREFIX-0312-2000	2.000" (2)
PREFIX-0312-2125	2.125" (2-1/8)
PREFIX-0312-2200	2.200"
PREFIX-0312-2500	2.500" (2-1/2)
PREFIX-0312-2625	2.625" (2-5/8)
PREFIX-0312-3000	3.000" (3)
PREFIX-0312-3125	3.125" (3-1/8)
PREFIX-0312-3500	3.500" (3-1/2)
PREFIX-0312-3625	3.625" (3-5/8)
PREFIX-0312-4000	4.000" (4)
PREFIX-0312-4125	4.125" (4-1/8)
PREFIX-0312-4500	4.500" (4-1/2)
PREFIX-0312-4625	4.625" (4-5/8)
PREFIX-0312-4700	4.700"
PREFIX-0312-5000	5.000" (5)
PREFIX-0312-5125	5.125" (5-1/8)
PREFIX-0312-5500	5.500" (5-1/2)
PREFIX-0312-6000	6.000" (6)
PREFIX-0312-6800	6.800"

3/8 (.375")

(B) Outside Diameter: .375/.372"

(D) Ball Height: .051" .056/.047"
Maximum Hole Diameter: .379"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0375-0500	.500" (1/2)
PREFIX-0375-0600	.600"
PREFIX-0375-0625	.625" (5/8)
PREFIX-0375-0700	.700"
PREFIX-0375-0750	.750" (3/4)
PREFIX-0375-0800	.800"
PREFIX-0375-0900	.900"
PREFIX-0375-1000	1.000" (1)
PREFIX-0375-1100	1.100"
PREFIX-0375-1125	1.125" (1-1/8)
PREFIX-0375-1200	1.200"
PREFIX-0375-1300	1.300"
PREFIX-0375-1400	1.400"
PREFIX-0375-1500	1.500" (1-1/2)
PREFIX-0375-1600	1.600"
PREFIX-0375-1625	1.625" (1-5/8)
PREFIX-0375-1700	1.700"
PREFIX-0375-1750	1.750" (1-3/4)
PREFIX-0375-1800	1.800"
PREFIX-0375-1900	1.900"
PREFIX-0375-2000	2.000" (2)
PREFIX-0375-2100	2.100"
PREFIX-0375-2125	2.125" (2-1/8)
PREFIX-0375-2200	2.200"
PREFIX-0375-2300	2.300"
PREFIX-0375-2400	2.400"
PREFIX-0375-2500	2.500" (2-1/2)
PREFIX-0375-2600	2.600"
PREFIX-0375-2625	2.625" (2-5/8)
PREFIX-0375-2700	2.700"
PREFIX-0375-2800	2.800"
PREFIX-0375-2900	2.900"
PREFIX-0375-3000	3.000" (3)
PREFIX-0375-3125	3.125" (3-1/8)
PREFIX-0375-3500	3.500" (3-1/2)
PREFIX-0375-3625	3.625" (3-5/8)
PREFIX-0375-4000	4.000" (4)
PREFIX-0375-4125	4.125" (4-1/8)
PREFIX-0375-4500	4.500" (4-1/2)
PREFIX-0375-4625	4.625" (4-5/8)
PREFIX-0375-5000	5.000" (5)
PREFIX-0375-5125	5.125" (5-1/8)
PREFIX-0375-6000	6.000" (6)
PREFIX-0375-6200	6.200"
PREFIX-0375-7000	7.000" (7)

7/16 (.438")

(B) Outside Diameter: .438/.434"

(D) Ball Height: .059" .064/.054"
Maximum Hole Diameter: .443"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0437-0562	.563" (9/16)
PREFIX-0437-1000	1.000" (1)
PREFIX-0437-1062	1.063" (1-1/16)
PREFIX-0437-1500	1.500" (1-1/2)
PREFIX-0437-1562	1.563" (1-9/16)
PREFIX-0437-2000	2.000" (2)
PREFIX-0437-2062	2.063" (2-1/16)
PREFIX-0437-2500	2.500" (2-1/2)
PREFIX-0437-2562	2.563" (2-9/16)
PREFIX-0437-3000	3.000" (3)
PREFIX-0437-3062	3.063" (3-1/16)
PREFIX-0437-3500	3.500" (3-1/2)
PREFIX-0437-3562	3.563" (3-9/16)
PREFIX-0437-4000	4.000" (4)
PREFIX-0437-4062	4.063" (4-1/16)
PREFIX-0437-4500	4.500" (4-1/2)
PREFIX-0437-4562	4.563" (4-9/16)
PREFIX-0437-5000	5.000" (5)
PREFIX-0437-5062	5.063" (5-1/16)

1/2 (.500")

(B) Outside Diameter: .500/.497"

(D) Ball Height: .070" .075/.065"
Maximum Hole Diameter: .505"

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0500-0500	.500" (1/2)
PREFIX-0500-0600	.600"
PREFIX-0500-0800	.800"
PREFIX-0500-1000	1.000" (1)
PREFIX-0500-1100	1.100"
PREFIX-0500-1200	1.200"
PREFIX-0500-1300	1.300"

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ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"
PREFIX-0500-1400	1.400"
PREFIX-0500-1500	1.500" (1-1/2)
PREFIX-0500-1600	1.600"
PREFIX-0500-1700	1.700"
PREFIX-0500-1800	1.800"
PREFIX-0500-1900	1.900"
PREFIX-0500-2000	2.000" (2)
PREFIX-0500-2100	2.100"
PREFIX-0500-2200	2.200"
PREFIX-0500-2300	2.300"
PREFIX-0500-2400	2.400"
PREFIX-0500-2500	2.500" (2-1/2)
PREFIX-0500-2600	2.600"
PREFIX-0500-2700	2.700"
PREFIX-0500-2800	2.800"
PREFIX-0500-3000	3.000" (3)
PREFIX-0500-3100	3.100"
PREFIX-0500-3200	3.200"
PREFIX-0500-3300	3.300"
PREFIX-0500-3500	3.500" (3-1/2)
PREFIX-0500-3800	3.800"
PREFIX-0500-4000	4.000" (4)
PREFIX-0500-4300	4.300"
PREFIX-0500-4500	4.500" (4-1/2)
PREFIX-0500-5000	5.000" (5)
PREFIX-0500-5500	5.500" (5-1/2)
PREFIX-0500-6000	6.000" (6)
PREFIX-0500-7000	7.000" (7)
PREFIX-0500-8000	8.000" (8)

5/8 (.625")

(B) Outside Diameter: .625/.622"

(D) Ball Height: .085" .090/.080"
Maximum Hole Diameter: .630"

PREFIX-0625-1000	1.000" (1)
PREFIX-0625-1300	1.300"
PREFIX-0625-1500	1.500" (1-1/2)
PREFIX-0625-1700	1.700"
PREFIX-0625-2000	2.000" (2)
PREFIX-0625-2500	2.500" (2-1/2)
PREFIX-0625-3000	3.000" (3)
PREFIX-0625-3500	3.500" (3-1/2)
PREFIX-0625-4000	4.000" (4)
PREFIX-0625-4500	4.500" (4-1/2)
PREFIX-0625-5000	5.000" (5)
PREFIX-0625-5500	5.500" (5-1/2)
PREFIX-0625-6000	6.000" (6)
PREFIX-0625-7000	7.000" (7)
PREFIX-0625-8000	8.000" (8)

TETHERS AVAILABLE
SEE PAGE 128

ITEM NUMBER	(A) EFFECTIVE LENGTH +.060/-.000"

3/4 (.750")

(B) Outside Diameter: .750/.747"

(D) Ball Height: .106" .111/.101"
Maximum Hole Diameter: .757"

PREFIX-0750-1000	1.000" (1)
PREFIX-0750-1300	1.300"
PREFIX-0750-1500	1.500" (1-1/2)
PREFIX-0750-1750	1.750" (1-3/4)
PREFIX-0750-2000	2.000" (2)
PREFIX-0750-2500	2.500" (2-1/2)
PREFIX-0750-2600	2.600"
PREFIX-0750-3000	3.000" (3)
PREFIX-0750-3100	3.100"
PREFIX-0750-3500	3.500" (3-1/2)
PREFIX-0750-4000	4.000" (4)
PREFIX-0750-4500	4.500" (4-1/2)
PREFIX-0750-5000	5.000" (5)
PREFIX-0750-5500	5.500" (5-1/2)
PREFIX-0750-6000	6.000" (6)
PREFIX-0750-6500	6.500" (6-1/2)
PREFIX-0750-7000	7.000" (7)
PREFIX-0750-8000	8.000" (8)
PREFIX-0750-8750	8.750" (8-3/4)

1 (1.000")

(B) Outside Diameter: 1.000/.997"

(D) Ball Height: .141" (9/64) .142/.135"
Maximum Hole Diameter: 1.010"

PREFIX-1000-2000	2.000" (2)
PREFIX-1000-2500	2.500" (2-1/2)
PREFIX-1000-2600	2.600"
PREFIX-1000-3000	3.000" (3)
PREFIX-1000-3500	3.500" (3-1/2)
PREFIX-1000-4000	4.000" (4)
PREFIX-1000-4500	4.500" (4-1/2)
PREFIX-1000-4800	4.800"
PREFIX-1000-5000	5.000" (5)
PREFIX-1000-5500	5.500" (5-1/2)
PREFIX-1000-6000	6.000" (6)
PREFIX-1000-6500	6.500" (6-1/2)
PREFIX-1000-7000	7.000" (7)
PREFIX-1000-8000	8.000" (8)

1-1/4 (1.250")

(B) Outside Diameter: 1.250/1.247"

(D) Ball Height: .141" (9/64) .145/.135"
Maximum Hole Diameter: 1.260"

PREFIX-1250-7000	7.000" (7)
PREFIX-1250-12500	12.500" (12-1/2)

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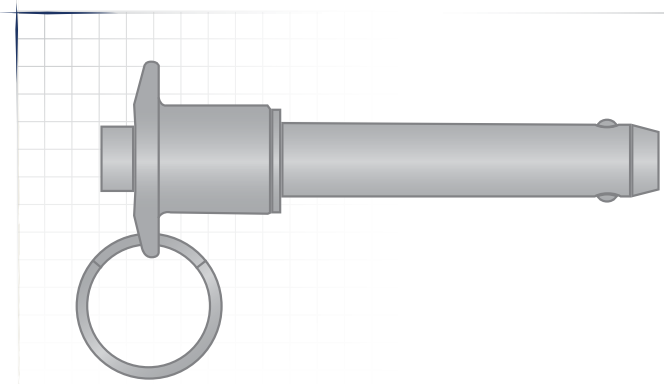
BUTTON HEAD

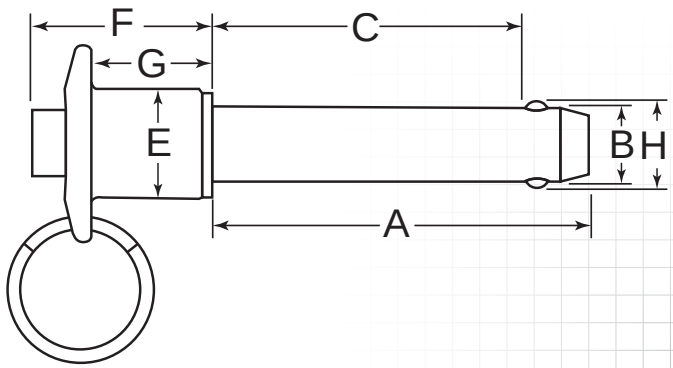
DESCRIPTION

Button head positive lock pins are the most commonly used in this particular line of pins. Self-locking pins use a mechanical works to release the locking ball when the handle is depressed.

HOW TO IDENTIFY

1. Verify button head design.
2. Measure diameter (B).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

PLB = 4130 ALLOY STEEL, CADMIUM
PLBS = 17-4 PH STAINLESS STEEL, PASSIVATED
PLBS3 = 304 STAINLESS STEEL, PASSIVATED
Material/finish combinations may not be available in all sizes.

TETHERS AVAILABLE
SEE PAGE 128

3/16 (.1875")
(B) Outside Diameter: .1885/.1870"
(E) Body Diameter: .4375" (7/16)
(F) Body Handle Height: .8125" (13/16)
(G) Shoulder Height: .625" (5/8)
(H) Double Ball Dimension: .2200"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0187-0500	.500" (1/2)	.760"
PREFIX-0187-0750	.750" (3/4)	1.010"
PREFIX-0187-1000	1.000" (1)	1.260"
PREFIX-0187-1250	1.250" (1-1/4)	1.510"
PREFIX-0187-1500	1.500" (1-1/2)	1.760"
PREFIX-0187-2000	2.000" (2)	2.260"
PREFIX-0187-2500	2.500" (2-1/2)	2.760"
PREFIX-0187-3000	3.000" (3)	3.260"
PREFIX-0187-4000	4.000" (4)	4.260"

1/4 (.2500")
(B) Outside Diameter
(E)Body Diameter: .4375" (7/16)
(F) Body Handle Height: .8750" (7/8)
(G) Shoulder Height: .625" (5/8)
(H) Double Ball Dimension: .2890"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0250-0500	.500" (1/2)	.790"
PREFIX-0250-0750	.750" (3/4)	1.040"
PREFIX-0250-1000	1.000" (1)	1.290"
PREFIX-0250-1250	1.250" (1-1/4)	1.540"
PREFIX-0250-1500	1.500" (1-1/2)	1.790"
PREFIX-0250-1750	1.750" (1-3/4)	2.040"
PREFIX-0250-2000	2.000" (2)	2.290"
PREFIX-0250-2500	2.500" (2-1/2)	2.790"
PREFIX-0250-3000	3.000" (3)	3.290"
PREFIX-0250-3500	3.500" (3-1/2)	3.790"
PREFIX-0250-4000	4.000" (4)	4.290"

5/16 (.3125")
(B) Outside Diameter
(E)Body Diameter: .4375" (7/16)
(F) Body Handle Height: .9063" (29/32)
(G) Shoulder Height: .625" (5/8)
(H) Double Ball Dimension: .3750" (3/8)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0312-0500	.500" (1/2)	.830"
PREFIX-0312-0750	.750" (3/4)	1.080"
PREFIX-0312-1000	1.000" (1)	1.330"
PREFIX-0312-1250	1.250" (1-1/4)	1.580"
PREFIX-0312-1500	1.500" (1-1/2)	1.830"
PREFIX-0312-1600	1.600"	1.930"
PREFIX-0312-2000	2.000" (2)	2.330"
PREFIX-0312-2500	2.500" (2-1/2)	2.830"
PREFIX-0312-3000	3.000" (3)	3.330"
PREFIX-0312-3500	3.500" (3-1/2)	3.830"
PREFIX-0312-4000	4.000" (4)	4.330"
PREFIX-0312-4500	4.500" (4-1/2)	4.830"
PREFIX-0312-5000	5.000" (5)	5.330"
PREFIX-0312-6000	6.000" (6)	6.330"

3/8 (.3750")
(B) Outside Diameter
(E)Body Diameter: .5625" (9/16)
(F) Body Handle Height: 1.0313" (1-1/32)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .4400"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0375-0500	.500" (1/2)	.865"
PREFIX-0375-1000	1.000" (1)	1.365"
PREFIX-0375-1250	1.250" (1-1/4)	1.615"
PREFIX-0375-1500	1.500" (1-1/2)	1.865"
PREFIX-0375-1750	1.750" (1-3/4)	2.115"
PREFIX-0375-2000	2.000" (2)	2.365"
PREFIX-0375-2250	2.250" (2-1/4)	2.615"
PREFIX-0375-2500	2.500" (2-1/2)	2.865"
PREFIX-0375-3000	3.000" (3)	3.365"
PREFIX-0375-3500	3.500" (3-1/2)	3.865"
PREFIX-0375-4000	4.000" (4)	4.365"
PREFIX-0375-4500	4.500" (4-1/2)	4.865"
PREFIX-0375-5000	5.000" (5)	5.365"
PREFIX-0375-5500	5.500" (5-1/2)	5.865"
PREFIX-0375-6000	6.000" (6)	6.365"

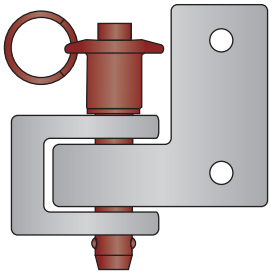
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BUTTON HEAD

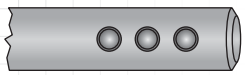
ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
7/16 (.4375") (B) Outside Diameter		
(E) Body Diameter: .5625" (9/16)		
(F) Body Handle Height: 1.0938" (1-3/32)		
(G) Shoulder Height: .750" (3/4)		
(H) Double Ball Dimension: .5090"		
PREFIX-0437-1000	1.000" (1)	1.380"
PREFIX-0437-1500	1.500" (1-1/2)	1.880"
PREFIX-0437-2000	2.000" (2)	2.380"
PREFIX-0437-2500	2.500" (2-1/2)	2.880"
PREFIX-0437-3000	3.000" (3)	3.380"
PREFIX-0437-4000	4.000" (4)	4.380"
1/2 (.5000") (B) Outside Diameter		
(E)Body Diameter: .7188" (23/32)		
(F) Body Handle Height: 1.1875" (1-3/16)		
(G) Shoulder Height: .813" (13/16)		
(H) Double Ball Dimension: .5940" (19/32)		
PREFIX-0500-1000	1.000" (1)	1.460"
PREFIX-0500-1250	1.250" (1-1/4)	1.710"
PREFIX-0500-1500	1.500" (1-1/2)	1.960"
PREFIX-0500-1750	1.750" (1-3/4)	2.210"
PREFIX-0500-2000	2.000" (2)	2.460"
PREFIX-0500-2500	2.500" (2-1/2)	2.960"
PREFIX-0500-3000	3.000" (3)	3.460"
PREFIX-0500-3500	3.500" (3-1/2)	3.960"
PREFIX-0500-4000	4.000" (4)	4.460"
PREFIX-0500-4500	4.500" (4-1/2)	4.960"
PREFIX-0500-5000	5.000" (5)	5.460"
PREFIX-0500-5500	5.500" (5-1/2)	5.960"
PREFIX-0500-6000	6.000" (6)	6.460"
9/16 (.5625") (B) Outside Diameter		
(E)Body Diameter: .7188" (23/32)		
(F) Body Handle Height: 1.3750" (1-3/8)		
(G) Shoulder Height: 1.000" (1)		
(H) Double Ball Dimension: .6660"		
PREFIX-0562-2000	2.000" (2)	2.510"
PREFIX-0562-3000	3.000" (3)	3.510"
5/8 (.6250") (B) Outside Diameter		
(E) Body Diameter: .8438" (27/32)		
(F) Body Handle Height: 1.5000" (1-1/2)		
(G) Shoulder Height: 1.063" (1-1/16)		
(H) Double Ball Dimension: .7500" (3/4)		
PREFIX-0625-1500	1.500" (1-1/2)	2.080"
PREFIX-0625-2000	2.000" (2)	2.580"
PREFIX-0625-2500	2.500" (2-1/2)	3.080"
PREFIX-0625-3000	3.000" (3)	3.580"
PREFIX-0625-3500	3.500" (3-1/2)	4.080"
PREFIX-0625-4000	4.000" (4)	4.580"
PREFIX-0625-4500	4.500" (4-1/2)	5.080"
PREFIX-0625-5000	5.000" (5)	5.580"
PREFIX-0625-5500	5.500" (5-1/2)	6.080"
PREFIX-0625-6000	6.000" (6)	6.580"
3/4 (.7500") (B) Outside Diameter		
(E) Body Diameter: .9375" (15/16)		
(F) Body Handle Height: 1.6563" (1-21/32)		
(G) Shoulder Height: 1.156" (1-5/32)		
(H) Double Ball Dimension: .8870"		
PREFIX-0750-1500	1.500" (1-1/2)	2.170"
PREFIX-0750-2000	2.000" (2)	2.670"
PREFIX-0750-2500	2.500" (2-1/2)	3.170"
PREFIX-0750-3000	3.000" (3)	3.670"
PREFIX-0750-3500	3.500" (3-1/2)	4.170"
PREFIX-0750-4000	4.000" (4)	4.670"
PREFIX-0750-4500	4.500" (4-1/2)	5.170"
PREFIX-0750-4875	4.875" (4-7/8)	5.545"
PREFIX-0750-5000	5.000" (5)	5.670"
PREFIX-0750-5500	5.500" (5-1/2)	6.170"
PREFIX-0750-6000	6.000" (6)	6.670"
7/8 (.8750") (B) Outside Diameter		
(E) Body Diameter: 1.1250" (1-1/8)		
(F) Body Handle Height: 1.9688" (1-31/32)		
(G) Shoulder Height: 1.500" (1-1/2)		
(H) Double Ball Dimension: 1.0470" (1-3/64)		
PREFIX-0875-3000	3.000" (3)	3.760"
PREFIX-0875-4000	4.000" (4)	4.760"
1 (1.0000") (B) Outside Diameter		
(E) Body Diameter: 1.1875" (1-3/16)		
(F) Body Handle Height: 2.1250" (2-1/8)		
(G) Shoulder Height: 1.500" (1-1/2)		
(H) Double Ball Dimension: 1.2190" (1-7/32)		
PREFIX-1000-2000	2.000" (2)	2.890"
PREFIX-1000-3000	3.000" (3)	3.890"
PREFIX-1000-4000	4.000" (4)	4.890"
PREFIX-1000-6000	6.000" (6)	6.890"
PREFIX-1000-2500	2.500" (2-1/2)	3.390"
PREFIX-1000-5000	5.000" (5)	5.890"

APPLICATION

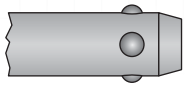


AS A SECURE, QUICK DISCONNECT LINKING MECHANISM

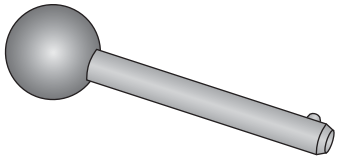
SPECIAL STYLES



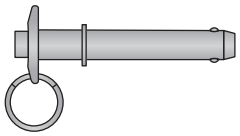
Multi-ball alignment for progressive insertion and spacing



Four-ball end for additional pullout strength and even distribution of ball contact force



Ball handle pin allows for easy grip and removal



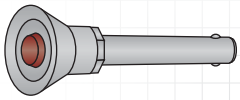
Collared pins for recessed holes or in applications where profile of button mechanism is considered



Cold-headed styles, which tend to be less precise but lower cost



Threaded end pin is versatile, allowing any type of knob or handle to be added



Recessed button for safety applications where a protruding button can be accidentally depressed

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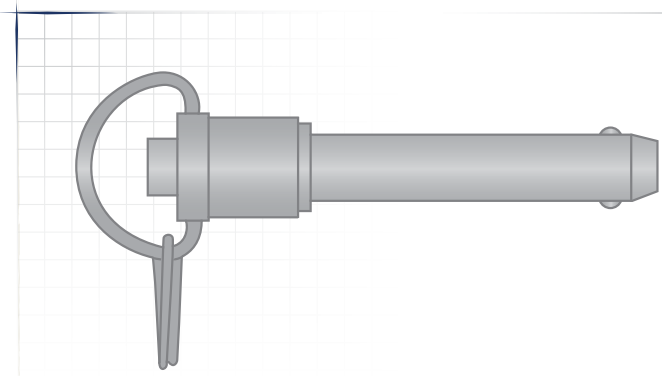
RING HANDLE

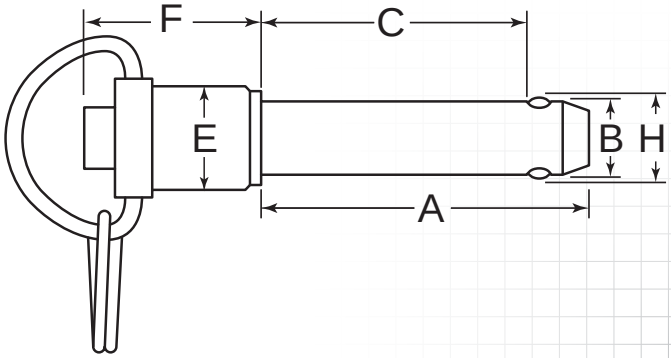
DESCRIPTION

These pins feature a secure locking mechanism with an easy grip ring handle that is small enough to fit into recesses. Ring handle positive lock pins are the most economical of the group.

HOW TO IDENTIFY

1. Verify ring grip.
2. Measure diameter (B).
3. Measure effective length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

PLR = 4130 ALLOY STEEL, CADMIUM
PLRS = 17-4 PH STAINLESS STEEL, PASSIVATED
PLRS3 = 304 STAINLESS STEEL, PASSIVATED
Material/finish combinations may not be available in all sizes.

TETHERS AVAILABLE
SEE PAGE 128

3/16 (.1875")
(B) Outside Diameter: .1885/.1870"

(E) Body Diameter: .4375" (7/16)
(F) Body Handle Height: .8125" (13/16)
(H) Double Ball Dimension: .2200"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0187-0500	.500" (1/2)	.760"
PREFIX-0187-0750	.750" (3/4)	1.010"
PREFIX-0187-1000	1.000" (1)	1.260"
PREFIX-0187-1250	1.250" (1-1/4)	1.510"
PREFIX-0187-1500	1.500" (1-1/2)	1.760"
PREFIX-0187-2000	2.000" (2)	2.260"
PREFIX-0187-2500	2.500" (2-1/2)	2.760"
PREFIX-0187-3000	3.000" (3)	3.260"
PREFIX-0187-4000	4.000" (4)	4.260"

1/4 (.2500")
(B) Outside Diameter: .2485/.2470"

(E) Body Diameter: .4375" (7/16)
(F) Body Handle Height: .8125" (13/16)
(H) Double Ball Dimension: .2890"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0250-0500	.500" (1/2)	.790"
PREFIX-0250-0750	.750" (3/4)	1.040"
PREFIX-0250-1000	1.000" (1)	1.290"
PREFIX-0250-1250	1.250" (1-1/4)	1.540"
PREFIX-0250-1500	1.500" (1-1/2)	1.790"
PREFIX-0250-1750	1.750" (1-3/4)	2.040"
PREFIX-0250-2000	2.000" (2)	2.290"
PREFIX-0250-2500	2.500" (2-1/2)	2.790"
PREFIX-0250-3000	3.000" (3)	3.290"
PREFIX-0250-3500	3.500" (3-1/2)	3.790"
PREFIX-0250-4000	4.000" (4)	4.290"

5/16 (.3125")
(B) Outside Diameter: .3110/.3095"

(E) Body Diameter: .4375" (7/16)
(F) Body Handle Height: .8438" (27/32)
(H) Double Ball Dimension: .3750" (3/8)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0312-0500	.500" (1/2)	.830"
PREFIX-0312-0750	.750" (3/4)	1.080"
PREFIX-0312-1000	1.000" (1)	1.330"
PREFIX-0312-1250	1.250" (1-1/4)	1.580"
PREFIX-0312-1500	1.500" (1-1/2)	1.830"
PREFIX-0312-2000	2.000" (2)	2.330"
PREFIX-0312-2500	2.500" (2-1/2)	2.830"
PREFIX-0312-3000	3.000" (3)	3.330"
PREFIX-0312-3500	3.500" (3-1/2)	3.830"
PREFIX-0312-4000	4.000" (4)	4.330"
PREFIX-0312-4500	4.500" (4-1/2)	4.830"
PREFIX-0312-5000	5.000" (5)	5.330"
PREFIX-0312-6000	6.000" (6)	6.330"

3/8 (.3750")
(B) Outside Diameter: .3735/.3720"

(E) Body Diameter: .5625" (9/16)
(F) Body Handle Height: 1.0000" (1)
(H) Double Ball Dimension: .4400"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0375-0500	.500" (1/2)	.865"
PREFIX-0375-1000	1.000" (1)	1.365"
PREFIX-0375-1250	1.250" (1-1/4)	1.615"
PREFIX-0375-1500	1.500" (1-1/2)	1.865"
PREFIX-0375-1750	1.750" (1-3/4)	2.115"
PREFIX-0375-2000	2.000" (2)	2.365"
PREFIX-0375-2250	2.250" (2-1/4)	2.615"
PREFIX-0375-2500	2.500" (2-1/2)	2.865"
PREFIX-0375-3000	3.000" (3)	3.365"
PREFIX-0375-3500	3.500" (3-1/2)	3.865"
PREFIX-0375-4000	4.000" (4)	4.365"
PREFIX-0375-4500	4.500" (4-1/2)	4.865"
PREFIX-0375-5000	5.000" (5)	5.365"
PREFIX-0375-5500	5.500" (5-1/2)	5.865"
PREFIX-0375-6000	6.000" (6)	6.365"

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RING HANDLE

7/16 (.4375")
(B) Outside Diameter: .4360/.4345"

(E) Body Diameter: .5625" (9/16)
(F) Body Handle Height: 1.0000" (1)
(H) Double Ball Dimension: .5090"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0437-1000	1.000" (1)	1.380"
PREFIX-0437-2000	2.000" (2)	2.380"
PREFIX-0437-2500	2.500" (2-1/2)	2.880"
PREFIX-0437-3000	3.000" (3)	3.380"
PREFIX-0437-4000	4.000" (4)	4.380"

1/2 (.5000")
(B) Outside Diameter: .4985/.4970"

(E) Body Diameter: .6875" (11/16)
(F) Body Handle Height: 1.2500" (1-1/4)
(H) Double Ball Dimension: .5940" (19/32)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0500-1000	1.000" (1)	1.460"
PREFIX-0500-1250	1.250" (1-1/4)	1.710"
PREFIX-0500-1500	1.500" (1-1/2)	1.960"
PREFIX-0500-1750	1.750" (1-3/4)	2.210"
PREFIX-0500-2000	2.000" (2)	2.460"
PREFIX-0500-2500	2.500" (2-1/2)	2.960"
PREFIX-0500-3000	3.000" (3)	3.460"
PREFIX-0500-3500	3.500" (3-1/2)	3.960"
PREFIX-0500-4000	4.000" (4)	4.460"
PREFIX-0500-4500	4.500" (4-1/2)	4.960"
PREFIX-0500-5000	5.000" (5)	5.460"
PREFIX-0500-5500	5.500" (5-1/2)	5.960"
PREFIX-0500-6000	6.000" (6)	6.460"

9/16 (.5625")
(B) Outside Diameter: .5610/.5595"

(E) Body Diameter: .6875" (11/16)
(F) Body Handle Height: 1.2500" (1-1/4)
(H) Double Ball Dimension: .6660"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0562-2000	2.000" (2)	2.510"
PREFIX-0562-3000	3.000" (3)	3.510"

5/8 (.6250")
(B) Outside Diameter: .6235/.6220"

(E) Body Diameter: .9375" (15/16)
(F) Body Handle Height: 1.6875" (1-11/16)
(H) Double Ball Dimension: .7500" (3/4)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0625-1500	1.500" (1-1/2)	2.080"
PREFIX-0625-2000	2.000" (2)	2.580"
PREFIX-0625-2500	2.500" (2-1/2)	3.080"
PREFIX-0625-3000	3.000" (3)	3.580"
PREFIX-0625-3500	3.500" (3-1/2)	4.080"
PREFIX-0625-4000	4.000" (4)	4.580"
PREFIX-0625-4500	4.500" (4-1/2)	5.080"
PREFIX-0625-5000	5.000" (5)	5.580"
PREFIX-0625-5500	5.500" (5-1/2)	6.080"
PREFIX-0625-6000	6.000" (6)	6.580"

3/4 (.7500")
(B) Outside Diameter: .7485/.7470"

(E) Body Diameter: .9375" (15/16)
(F) Body Handle Height: 1.8125" (1-13/16)
(H) Double Ball Dimension: .8870"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0750-1500	1.500" (1-1/2)	2.170"
PREFIX-0750-2000	2.000" (2)	2.670"
PREFIX-0750-2500	2.500" (2-1/2)	3.170"
PREFIX-0750-3000	3.000" (3)	3.670"
PREFIX-0750-3500	3.500" (3-1/2)	4.170"
PREFIX-0750-4000	4.000" (4)	4.670"
PREFIX-0750-4500	4.500" (4-1/2)	5.170"
PREFIX-0750-5000	5.000" (5)	5.670"
PREFIX-0750-5500	5.500" (5-1/2)	6.170"
PREFIX-0750-6000	6.000" (6)	6.670"

7/8 (.8750")
(B) Outside Diameter: .8735/.8720"

(E) Body Diameter: 1.1875" (1-3/16)
(F) Body Handle Height: 2.1875" (2-3/16)
(H) Double Ball Dimension: 1.0470" (1-3/64)

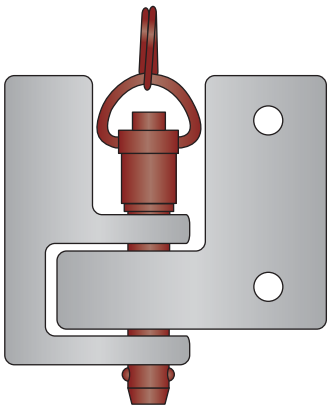
ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0875-3000	3.000" (3)	3.760"
PREFIX-0875-4000	4.000" (4)	4.760"

1 (1.0000")
(B) Outside Diameter: .9985/.9970"

(E) Body Diameter: 1.1875" (1-3/16)
(F) Body Handle Height: 2.1250" (2-1/8)
(H) Double Ball Dimension: 1.2190" (1-7/32)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-1000-2000	2.000" (2)	2.890"
PREFIX-1000-3000	3.000" (3)	3.890"
PREFIX-1000-4000	4.000" (4)	4.890"
PREFIX-1000-6000	6.000" (6)	6.890"

APPLICATION

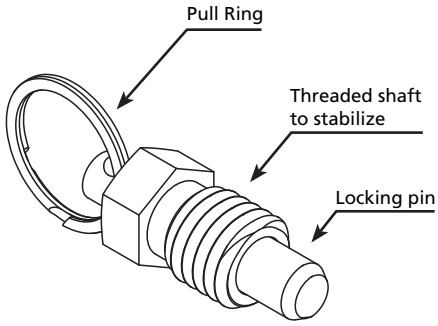


RING ASSISTS REMOVAL IN RECESSED AREAS

CASE STUDY

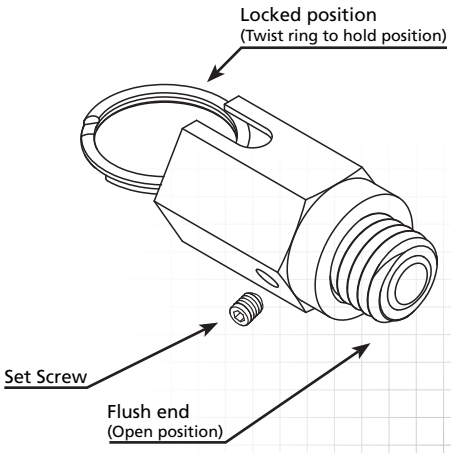
PROBLEM:

A medical supply company approached us with a challenge to create a ring pull pin with a threaded shaft. Our sales team and engineers worked with the company to develop a cost-effective solution. They came back to us with a need for a locking mechanism that would allow them to keep the pin in an open position. They only needed a small quantity, and they needed them as quickly as possible.



SOLUTION:

A corrosion-resistant hex shaft was used to create collars for the locking pins. After the shaft was cut to length, each collar was turned, threaded, finished, and combined with the existing ring pull pin. The finished assembly allowed the ring pin to be pulled, twisted, and locked in an open position. Additionally, a hole was threaded in one side of the collar so that a set screw could be added to the assembly to safely lock the ring pin in an open or closed position.



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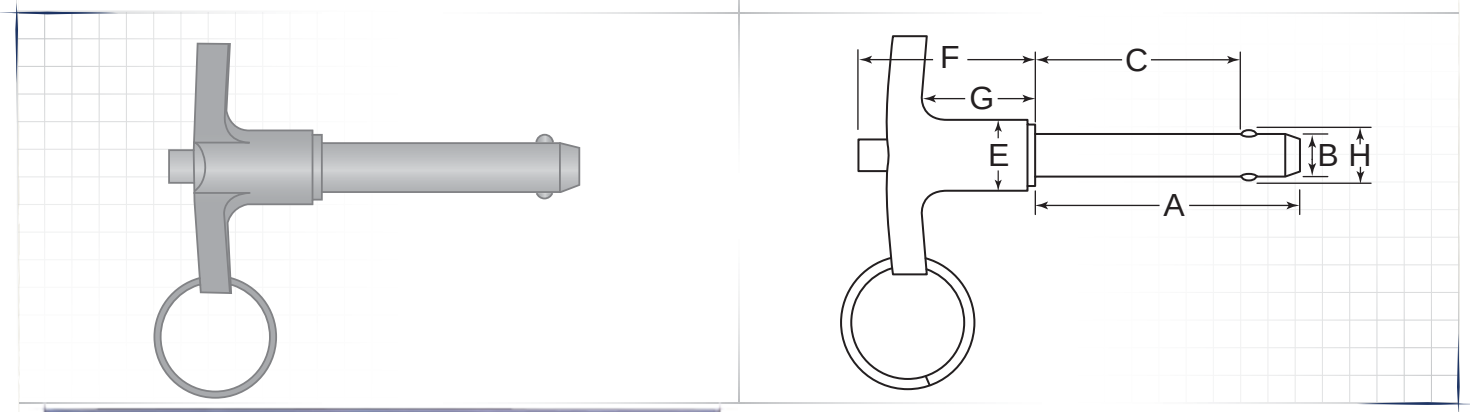
T-HANDLE

DESCRIPTION

T-handle pins provide a comfortable, firm grip for quick release of the pin from its application site. They are especially helpful when used as a positioning device or in repetitive use situations.

HOW TO IDENTIFY

1. Verify T-shaped handle.
2. Measure diameter (B).
3. Measure effective length (C).
4. Find the part in the chart below.



PREFIX MATERIAL/FINISH

PLT = 4130 ALLOY STEEL, CADMIUM
PLTS = 17-4 PH STAINLESS STEEL, PASSIVATED
PLTS3 = 304 STAINLESS STEEL, PASSIVATED
Material/finish combinations may not be available in all sizes.

TETHERS AVAILABLE
SEE PAGE 128

3/16 (.1875")
(B) Outside Diameter: .1885/.1870"
(E) Body Diameter: .5000" (1/2)
(F) Body Handle Height: 1.2500" (1-1/4)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .2200"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0187-0500	.500" (1/2)	.760"
PREFIX-0187-0750	.750" (3/4)	1.010"
PREFIX-0187-1000	1.000" (1)	1.260"
PREFIX-0187-1250	1.250" (1-1/4)	1.510"
PREFIX-0187-1500	1.500" (1-1/2)	1.760"
PREFIX-0187-2000	2.000" (2)	2.260"
PREFIX-0187-2500	2.500" (2-1/2)	2.760"
PREFIX-0187-3000	3.000" (3)	3.260"
PREFIX-0187-4000	4.000" (4)	4.260"

1/4 (.2500")
(B) Outside Diameter: .2485/.2470"
(E) Body Diameter: .5000" (1/2)
(F) Body Handle Height: 1.2500" (1-1/4)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .2890"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0250-0500	.500" (1/2)	.790"
PREFIX-0250-0750	.750" (3/4)	1.040"
PREFIX-0250-1000	1.000" (1)	1.290"
PREFIX-0250-1250	1.250" (1-1/4)	1.540"
PREFIX-0250-1500	1.500" (1-1/2)	1.790"
PREFIX-0250-1750	1.750" (1-3/4)	2.040"
PREFIX-0250-2000	2.000" (2)	2.290"
PREFIX-0250-2500	2.500" (2-1/2)	2.790"
PREFIX-0250-3000	3.000" (3)	3.290"
PREFIX-0250-3500	3.500" (3-1/2)	3.790"
PREFIX-0250-4000	4.000" (4)	4.290"

5/16 (.3125")
(B) Outside Diameter: .3110/.3095"
(E) Body Diameter: .5000" (1/2)
(F) Body Handle Height: 1.2500" (1-1/4)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .3750" (3/8)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0312-0500	.500" (1/2)	.830"
PREFIX-0312-0750	.750" (3/4)	1.080"
PREFIX-0312-1000	1.000" (1)	1.330"
PREFIX-0312-1250	1.250" (1-1/4)	1.580"
PREFIX-0312-1500	1.500" (1-1/2)	1.830"
PREFIX-0312-2000	2.000" (2)	2.330"
PREFIX-0312-2500	2.500" (2-1/2)	2.830"
PREFIX-0312-3000	3.000" (3)	3.330"
PREFIX-0312-3500	3.500" (3-1/2)	3.830"
PREFIX-0312-4000	4.000" (4)	4.330"
PREFIX-0312-4500	4.500" (4-1/2)	4.830"
PREFIX-0312-5000	5.000" (5)	5.330"
PREFIX-0312-6000	6.000" (6)	6.330"

3/8 (.3750")
(B) Outside Diameter: .3735/.3720"
(E) Body Diameter: .5938" (19/32)
(F) Body Handle Height: 1.4375" (1-7/16)
(G) Shoulder Height: .938" (15/16)
(H) Double Ball Dimension: .4400"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0375-0500	.500" (1/2)	.865"
PREFIX-0375-0750	.750" (3/4)	1.115"
PREFIX-0375-1000	1.000" (1)	1.365"
PREFIX-0375-1250	1.250" (1-1/4)	1.615"
PREFIX-0375-1500	1.500" (1-1/2)	1.865"
PREFIX-0375-1750	1.750" (1-3/4)	2.115"
PREFIX-0375-2000	2.000" (2)	2.365"
PREFIX-0375-2250	2.250" (2-1/4)	2.615"
PREFIX-0375-2500	2.500" (2-1/2)	2.865"
PREFIX-0375-3000	3.000" (3)	3.365"
PREFIX-0375-3500	3.500" (3-1/2)	3.865"
PREFIX-0375-4000	4.000" (4)	4.365"
PREFIX-0375-4500	4.500" (4-1/2)	4.865"
PREFIX-0375-5000	5.000" (5)	5.365"
PREFIX-0375-5500	5.500" (5-1/2)	5.865"
PREFIX-0375-6000	6.000" (6)	6.365"

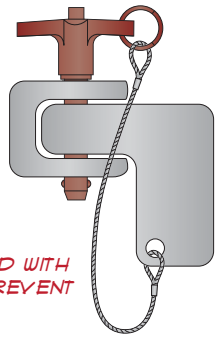
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T-HANDLE

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
7/16 (.4375") (B) Outside Diameter: .4360/.4345"		
(E) Body Diameter: .5938" (19/32) (F) Body Handle Height: 1.4375" (1-7/16) (G) Shoulder Height: .938" (15/16) (H) Double Ball Dimension: .5090"		
PREFIX-0437-1000	1.000" (1)	1.380"
PREFIX-0437-1500	1.500" (1-1/2)	1.880"
PREFIX-0437-2000	2.000" (2)	2.380"
PREFIX-0437-2500	2.500" (2-1/2)	2.880"
PREFIX-0437-3000	3.000" (3)	3.380"
PREFIX-0437-4000	4.000" (4)	4.380"
1/2 (.5000") (B) Outside Diameter: .4985/.4970"		
(E) Body Diameter: .7500" (3/4) (F) Body Handle Height: 1.6250" (1-5/8) (G) Shoulder Height: 1.000" (1) (H) Double Ball Dimension: .5940" (19/32)		
PREFIX-0500-1000	1.000" (1)	1.460"
PREFIX-0500-1250	1.250" (1-1/4)	1.710"
PREFIX-0500-1500	1.500" (1-1/2)	1.960"
PREFIX-0500-1750	1.750" (1-3/4)	2.210"
PREFIX-0500-2000	2.000" (2)	2.460"
PREFIX-0500-2250	2.250" (2-1/4)	2.710"
PREFIX-0500-2500	2.500" (2-1/2)	2.960"
PREFIX-0500-3000	3.000" (3)	3.460"
PREFIX-0500-3500	3.500" (3-1/2)	3.960"
PREFIX-0500-4000	4.000" (4)	4.460"
PREFIX-0500-4500	4.500" (4-1/2)	4.960"
PREFIX-0500-5000	5.000" (5)	5.460"
PREFIX-0500-5500	5.500" (5-1/2)	5.960"
PREFIX-0500-6000	6.000" (6)	6.460"
9/16 (.5625") (B) Outside Diameter: .5610/.5595"		
(E) Body Diameter: .7500" (3/4) (F) Body Handle Height: 1.6250" (1-5/8) (G) Shoulder Height: 1.000" (1) (H) Double Ball Dimension: .6660"		
PREFIX-0562-2000	2.000" (2)	2.510"
PREFIX-0562-2500	2.500" (2-1/2)	3.010"
PREFIX-0562-3000	3.000" (3)	3.510"
5/8 (.6250") (B) Outside Diameter: .6235/.6220"		
(E) Body Diameter: .9375" (15/16) (F) Body Handle Height: 1.9688" (1-31/32) (G) Shoulder Height: 1.188" (1-3/16) (H) Double Ball Dimension: .7500" (3/4)		
PREFIX-0625-1500	1.500" (1-1/2)	2.080"
PREFIX-0625-2000	2.000" (2)	2.580"
PREFIX-0625-2500	2.500" (2-1/2)	3.080"
PREFIX-0625-3000	3.000" (3)	3.580"
PREFIX-0625-3500	3.500" (3-1/2)	4.080"
PREFIX-0625-4000	4.000" (4)	4.580"
PREFIX-0625-4500	4.500" (4-1/2)	5.080"
PREFIX-0625-5000	5.000" (5)	5.580"
PREFIX-0625-5500	5.500" (5-1/2)	6.080"
PREFIX-0625-6000	6.000" (6)	6.580"
3/4 (.7500") (B) Outside Diameter: .7485/.7470"		
(E) Body Diameter: .9375" (15/16) (F) Body Handle Height: 1.9688" (1-31/32) (G) Shoulder Height: 1.188" (1-3/16) (H) Double Ball Dimension: .8870"		
PREFIX-0750-1500	1.500" (1-1/2)	2.170"
PREFIX-0750-2000	2.000" (2)	2.670"
PREFIX-0750-2500	2.500" (2-1/2)	3.170"
PREFIX-0750-3000	3.000" (3)	3.670"
PREFIX-0750-3500	3.500" (3-1/2)	4.170"
PREFIX-0750-4000	4.000" (4)	4.670"
PREFIX-0750-4500	4.500" (4-1/2)	5.170"
PREFIX-0750-5000	5.000" (5)	5.670"
PREFIX-0750-5500	5.500" (5-1/2)	6.170"
PREFIX-0750-6000	6.000" (6)	6.670"
7/8 (.8750") (B) Outside Diameter: .8735/.8720"		
(E) Body Diameter: 1.2500" (1-1/4) (F) Body Handle Height: 2.2500" (2-1/4) (G) Shoulder Height: 1.344" (1-11/32) (H) Double Ball Dimension: 1.0470" (1-3/64)		
PREFIX-0875-3000	3.000" (3)	3.760"
PREFIX-0875-4000	4.000" (4)	4.760"
1 (1.0000") (B) Outside Diameter: .9985/.9970"		
(E) Body Diameter: 1.2500" (1-1/4) (F) Body Handle Height: 2.2500" (2-1/4) (G) Shoulder Height: 1.344" (1-11/32) (H) Double Ball Dimension: 1.2190" (1-7/32)		
PREFIX-1000-2000	2.000" (2)	2.890"
PREFIX-1000-2500	2.500" (2-1/2)	3.390"
PREFIX-1000-3000	3.000" (3)	3.890"
PREFIX-1000-4000	4.000" (4)	4.890"
PREFIX-1000-5000	5.000" (5)	5.890"
PREFIX-1000-6000	6.000" (6)	6.890"

APPLICATION



EASILY SECURED WITH A TETHER TO PREVENT PIN LOSS

SHEAR STRENGTH

Shear strength measures the stress required to produce fracture in a pin. A single shear is the force required to break a pin into two pieces. Double shear measures the force required to break the pin into three pieces. *See "Measuring Steel Strength," page 10.*

304 STAINLESS

DIAMETER	PULLOUT STRENGTH (LBS.)	CALCULATED DOUBLE SHEAR STRENGTH (LBS.)
1/4"	180	2,200
5/16"	400	3,500
3/8"	450	4,500
1/2"	900	11,500
5/8"	1,500	20,000

17-4 STAINLESS

DIAMETER	PULLOUT STRENGTH (LBS.)	CALCULATED DOUBLE SHEAR STRENGTH (LBS.)
1/4"	–	–
5/16"	–	–
3/8"	575	20,600
1/2"	1,160	36,800
5/8"	2,070	57,500

4130 STEEL

DIAMETER	PULLOUT STRENGTH (LBS.)	CALCULATED DOUBLE SHEAR STRENGTH (LBS.)
1/4"	230	8,200
5/16"	510	12,800
3/8"	575	18,400
1/2"	1,160	32,800
5/8"	2,070	51,200

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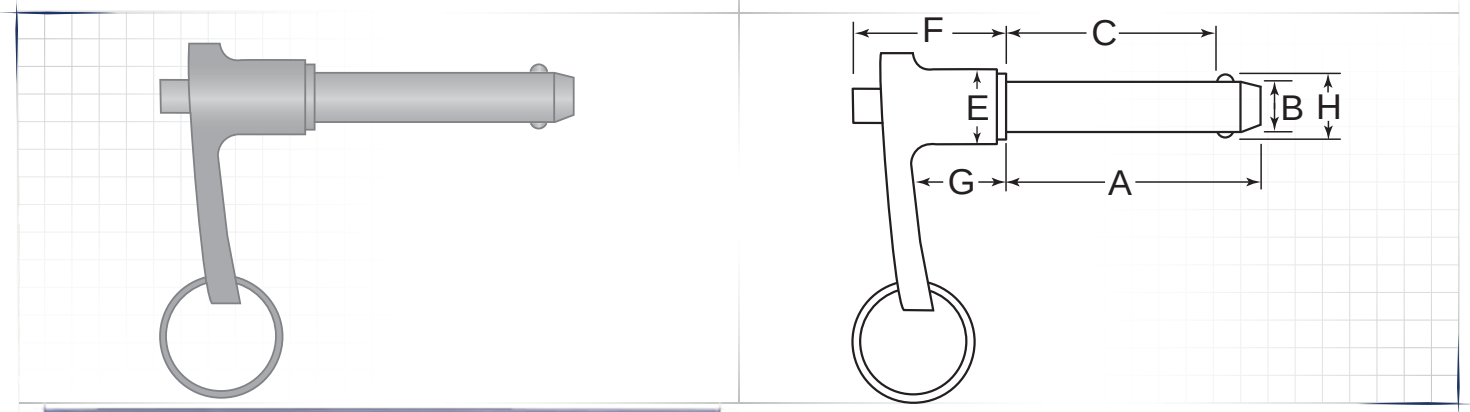
L-HANDLE

DESCRIPTION

Same design and features as T-handle pins. L-handle design allows use in recesses or against barriers where space will not permit a full handle.

HOW TO IDENTIFY

1. Verify L-shaped handle.
2. Measure diameter (B).
3. Measure effective length (C).
4. Find the part in the chart below.



PREFIX MATERIAL/FINISH

PLL = 4130 ALLOY STEEL, CADMIUM
PLLS = 17-4 PH STAINLESS STEEL, PASSIVATED
PLLS3 = 304 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

3/16 (.1875")
(B) Outside Diameter

(E) Body Diameter: .5000" (1/2)
(F) Body Handle Height: 1.2500" (1-1/4)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .2200"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0187-0500	.500" (1/2)	.760"
PREFIX-0187-1000	1.000" (1)	1.260"
PREFIX-0187-1500	1.500" (1-1/2)	1.760"
PREFIX-0187-2000	2.000" (2)	2.260"
PREFIX-0187-3000	3.000" (3)	3.260"
PREFIX-0187-4000	4.000" (4)	4.260"

1/4 (.2500")
(B) Outside Diameter

(E) Body Diameter: .5000" (1/2)
(F) Body Handle Height: 1.2500" (1-1/4)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .2890"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0250-0500	.500" (1/2)	.790"
PREFIX-0250-0750	.750" (3/4)	1.040"
PREFIX-0250-1000	1.000" (1)	1.290"
PREFIX-0250-1250	1.250" (1-1/4)	1.540"
PREFIX-0250-1500	1.500" (1-1/2)	1.790"
PREFIX-0250-1750	1.750" (1-3/4)	2.040"
PREFIX-0250-2000	2.000" (2)	2.290"
PREFIX-0250-2500	2.500" (2-1/2)	2.790"
PREFIX-0250-3000	3.000" (3)	3.290"
PREFIX-0250-3500	3.500" (3-1/2)	3.790"
PREFIX-0250-4000	4.000" (4)	4.290"

5/16 (.3125")
(B) Outside Diameter

(E) Body Diameter: .5000" (1/2)
(F) Body Handle Height: 1.2500" (1-1/4)
(G) Shoulder Height: .750" (3/4)
(H) Double Ball Dimension: .3750" (3/8)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0312-0500	.500" (1/2)	.830"
PREFIX-0312-1000	1.000" (1)	1.330"
PREFIX-0312-1500	1.500" (1-1/2)	1.830"
PREFIX-0312-2000	2.000" (2)	2.330"
PREFIX-0312-2500	2.500" (2-1/2)	2.830"
PREFIX-0312-3000	3.000" (3)	3.330"
PREFIX-0312-3500	3.500" (3-1/2)	3.830"
PREFIX-0312-4000	4.000" (4)	4.330"
PREFIX-0312-4500	4.500" (4-1/2)	4.830"
PREFIX-0312-5000	5.000" (5)	5.330"
PREFIX-0312-6000	6.000" (6)	6.330"

3/8 (.3750")
(B) Outside Diameter

(E) Body Diameter: .5938" (19/32)
(F) Body Handle Height: 1.4375" (1-7/16)
(G) Shoulder Height: .938" (15/16)
(H) Double Ball Dimension: .4400"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0375-0500	.500" (1/2)	.865"
PREFIX-0375-0750	.750" (3/4)	1.115"
PREFIX-0375-1000	1.000" (1)	1.365"
PREFIX-0375-1250	1.250" (1-1/4)	1.615"
PREFIX-0375-1500	1.500" (1-1/2)	1.865"
PREFIX-0375-1750	1.750" (1-3/4)	2.115"
PREFIX-0375-2000	2.000" (2)	2.365"
PREFIX-0375-2250	2.250" (2-1/4)	2.615"
PREFIX-0375-2500	2.500" (2-1/2)	2.865"
PREFIX-0375-3000	3.000" (3)	3.365"
PREFIX-0375-3500	3.500" (3-1/2)	3.865"
PREFIX-0375-4000	4.000" (4)	4.365"
PREFIX-0375-4500	4.500" (4-1/2)	4.865"
PREFIX-0375-5000	5.000" (5)	5.365"
PREFIX-0375-5500	5.500" (5-1/2)	5.865"
PREFIX-0375-6000	6.000" (6)	6.365"

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L-HANDLE

7/16 (.4375")
(B) Outside Diameter

(E) Body Diameter: .5938" (19/32)
(F) Body Handle Height: 1.4375" (1-7/16)
(G) Shoulder Height: .938" (15/16)
(H) Double Ball Dimension: .5090"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0437-1000	1.000" (1)	1.380"
PREFIX-0437-1500	1.500" (1-1/2)	1.880"
PREFIX-0437-2000	2.000" (2)	2.380"
PREFIX-0437-2500	2.500" (2-1/2)	2.880"
PREFIX-0437-3000	3.000" (3)	3.380"
PREFIX-0437-4000	4.000" (4)	4.380"

1/2 (.5000")
(B) Outside Diameter

(E) Body Diameter: .7500" (3/4)
(F) Body Handle Height: 1.6250" (1-5/8)
(G) Shoulder Height: 1.000" (1)
(H) Double Ball Dimension: .5940" (19/32)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0500-1000	1.000" (1)	1.460"
PREFIX-0500-1250	1.250" (1-1/4)	1.710"
PREFIX-0500-1500	1.500" (1-1/2)	1.960"
PREFIX-0500-1750	1.750" (1-3/4)	2.210"
PREFIX-0500-2000	2.000" (2)	2.460"
PREFIX-0500-2500	2.500" (2-1/2)	2.960"
PREFIX-0500-3000	3.000" (3)	3.460"
PREFIX-0500-3500	3.500" (3-1/2)	3.960"
PREFIX-0500-4000	4.000" (4)	4.460"
PREFIX-0500-4500	4.500" (4-1/2)	4.960"
PREFIX-0500-5000	5.000" (5)	5.460"
PREFIX-0500-5500	5.500" (5-1/2)	5.960"
PREFIX-0500-6000	6.000" (6)	6.460"

9/16 (.5625")
(B) Outside Diameter

(E) Body Diameter: .7500" (3/4)
(F) Body Handle Height: 1.6250" (1-5/8)
(G) Shoulder Height: 1.000" (1)
(H) Double Ball Dimension: .6660"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0562-2000	2.000" (2)	2.510"
PREFIX-0562-2500	2.500" (2-1/2)	3.010"
PREFIX-0562-3000	3.000" (3)	3.510"

5/8 (.6250")
(B) Outside Diameter

(E) Body Diameter: .9375" (15/16)
(F) Body Handle Height: 1.9688" (1-31/32)
(G) Shoulder Height: 1.188" (1-3/16)
(H) Double Ball Dimension: .7500" (3/4)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0625-1500	1.500" (1-1/2)	2.080"
PREFIX-0625-2000	2.000" (2)	2.580"
PREFIX-0625-2500	2.500" (2-1/2)	3.080"
PREFIX-0625-3000	3.000" (3)	3.580"
PREFIX-0625-3500	3.500" (3-1/2)	4.080"
PREFIX-0625-4000	4.000" (4)	4.580"
PREFIX-0625-4500	4.500" (4-1/2)	5.080"
PREFIX-0625-5000	5.000" (5)	5.580"
PREFIX-0625-5500	5.500" (5-1/2)	6.080"
PREFIX-0625-6000	6.000" (6)	6.580"

3/4 (.7500")
(B) Outside Diameter

(E) Body Diameter: .9375" (15/16)
(F) Body Handle Height: 1.9688" (1-31/32)
(G) Shoulder Height: 1.188" (1-3/16)
(H) Double Ball Dimension: .8870"

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0750-2000	2.000" (2)	2.670"
PREFIX-0750-2500	2.500" (2-1/2)	3.170"
PREFIX-0750-3000	3.000" (3)	3.670"
PREFIX-0750-3500	3.500" (3-1/2)	4.170"
PREFIX-0750-4000	4.000" (4)	4.670"
PREFIX-0750-4500	4.500" (4-1/2)	5.170"
PREFIX-0750-5000	5.000" (5)	5.670"
PREFIX-0750-5500	5.500" (5-1/2)	6.170"
PREFIX-0750-6000	6.000" (6)	6.670"

7/8 (.8750")
(B) Outside Diameter

(E) Body Diameter: 1.2500" (1-1/4)
(F) Body Handle Height: 2.2500" (2-1/4)
(G) Shoulder Height: 1.344" (1-11/32)
(H) Double Ball Dimension: 1.0470" (1-3/64)

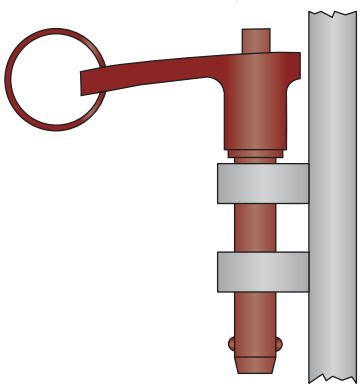
ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-0875-3000	3.000" (3)	3.760"
PREFIX-0875-4000	4.000" (4)	4.760"

1 (1.0000")
(B) Outside Diameter

(E) Body Diameter: 1.2500" (1-1/4)
(F) Body Handle Height: 2.2500" (2-1/4)
(G) Shoulder Height: 1.344" (1-11/32)
(H) Double Ball Dimension: 1.2190" (1-7/32)

ITEM NUMBER	(C) EFF. LENGTH +.020/-.000"	(A) SHANK LENGTH
PREFIX-1000-2000	2.000" (2)	2.890"
PREFIX-1000-3000	3.000" (3)	3.890"
PREFIX-1000-4000	4.000" (4)	4.890"
PREFIX-1000-5000	5.000" (5)	5.890"
PREFIX-1000-6000	6.000" (6)	6.890"

APPLICATION



WORKS WELL IN APPLICATIONS WHERE SPACE IS LIMITED

ALSO AVAILABLE:



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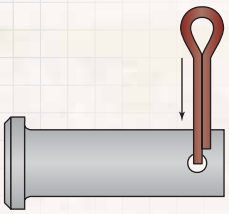
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COTTER PIN FEATURES

Cotter pins are wire formed pins with two prongs that separate during installation. They are used as a locking device to hold pins or castle nuts in place. These low-cost and highly versatile fasteners are used virtually everywhere.

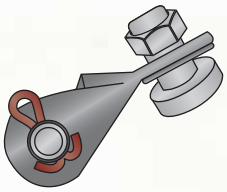
DESIGN CONSIDERATIONS

EASY TO INSTALL



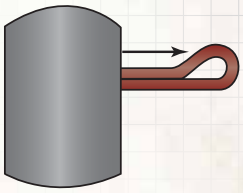
COTTER PINS CAN BE INSTALLED QUICKLY WITH NO SPECIAL TOOLS

EASY LOCKING



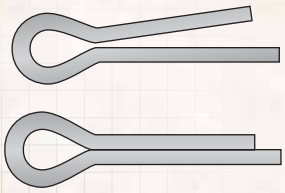
DESIGNED TO BE EASILY LOCKED IN PLACE, COTTER PINS PROVIDE SECURE FASTENING

REUSABLE



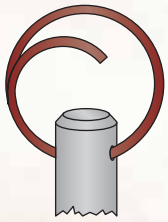
MOST COTTER PINS ARE EASILY REMOVED AND REUSED, SAVING TIME AND MONEY

EXTENDED PRONG



EXTENDED PRONG MAKES SEPARATION OF THE PRONGS EASIER

SPECIALIZED FORMS



SPECIALIZED COTTER PINS PROVIDE UNIQUE DESIGN POSSIBILITIES AND ELIMINATE BENDING TO INSTALL

WIRE FORM PINS ARE INTERCHANGEABLE IN MANY APPLICATIONS



Bridge Pins
Page 106



Cotter Pins
Page 82



Ring Cotter Pins
Page 97



Grip Clip Pins
Page 118



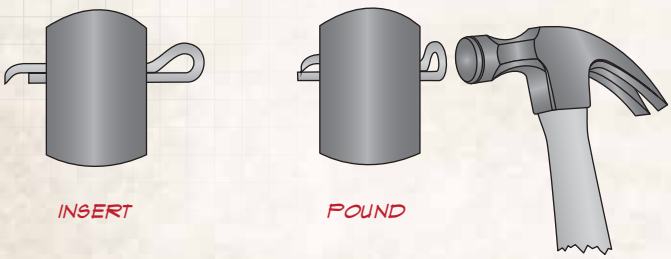
Bow Tie Pins
Page 96



Circle Cotter Pins
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INSTALLATION CONSIDERATIONS

INSTALLATION OF A HAMMERLOCK PIN

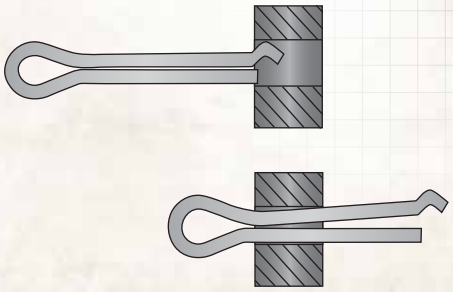


INSERT

POUND

PRONGS ARE FORCED APART TO LOCK THE PIN IN PLACE

INSTALLATION OF A CLINCH PIN



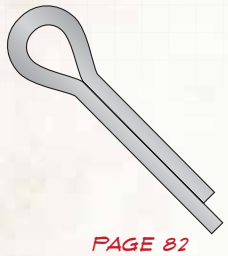
END SPRINGS OPEN TO LOCK CLINCH PIN INTO PLACE

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COTTER PIN TYPES

STANDARD

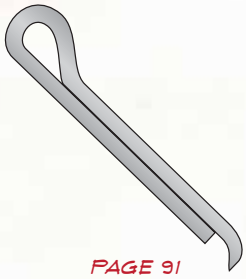
Cotter pins are available in imperial and metric sizes. Standard materials are steel, zinc plated steel, and stainless in extended prong style. Metric is manufactured to DIN 94 specifications.



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HAMMERLOCK

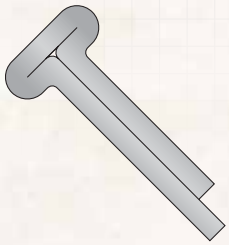
Used with castle nuts, this design allows for fast and accurate assembly. Available in 3/64" through 1/2" diameters.



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T-HEAD

Same function as standard cotter pins, but designed for use in applications with limited clearance. Available in plain steel, zinc plated steel, and stainless steel.



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WEDGEFAST

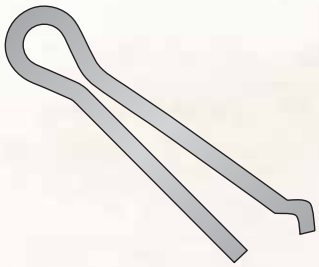
Heavier-duty style with self-locking mechanism incorporated into the design. Available in 5/16" and 3/8" diameters only.



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CLINCH

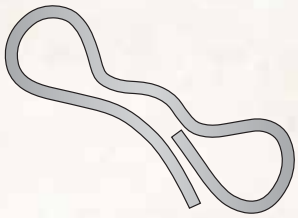
Clinch pins are self-locking reducing installation time by eliminating additional bending after insertion.



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BOW TIE

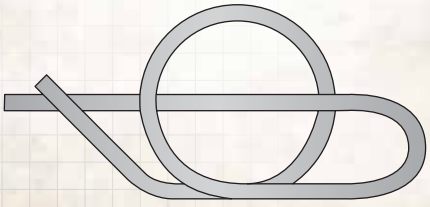
Unique double-end design allows pin to be pulled or pushed into hole from either side. Dual ends provide stronger locking mechanism vs. conventional styles.



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RING

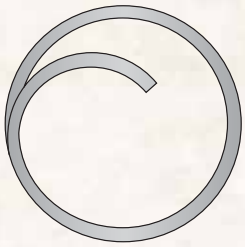
This light/medium duty pin automatically locks into place when the ring slides over the pin. Bending the straight prong after insertion provides additional locking protection.



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CIRCLE

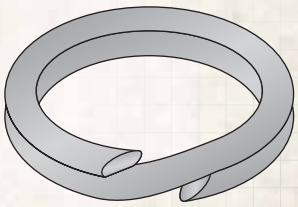
Sharp point is internal to part, thus circle cotters are often used where sharp points are not desirable. Examples include fabric and rubber-sealed environments.



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SPLIT RING

Heavy duty wire with an off-set or “kickout” to ease installation. Generally made from heavier gauge wire than circle cotters.



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COTTER PINS

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QUICK REFERENCE GUIDE

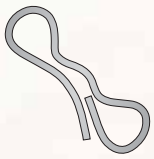
Cotter pins are manufactured from a single strand of half-round wire that is passed through a series of dies and shaped to have a loop at one end to create the head. The formed pin is then inserted into a drilled hole of a clevis pin, shaft, or other mating assembly. Once the prongs are spread apart, the cotter pin becomes the locking mechanism. Specialized designs do not require bending to lock in place.

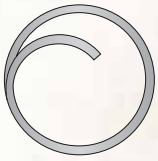
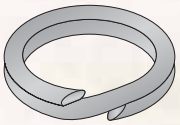


	COTTER	HAMMERLOCK	WEDGEFAST	CLINCH
COMMON NAMES	Castle Key, Cotter Key, Split Pin, Wire Pin	Castle Key, Castle Nut Cotter	Self-locking Cotter Pin	Single Action Cotter, Self-locking Cotter Pin
APPLICABLE STANDARDS	ASME B18.8.1, MS 24665, MS 9245, DIN 94, ASME B18.8.6	ASME B18.8.1, MS 24665, MS 9245, DIN 94, ASME B18.8.6	None known.	None known.
FABRICATION	Wire formation.	Wire formation.	Wire formation, and then assembly.	Wire formation.
HOW TO IDENTIFY	Style × nominal diameter × effective length.	Style × nominal diameter × effective length.	Style × nominal diameter ×effective length.	Style × nominal diameter × effective length.
COMMON USES	Simple attachment of pins with holes. Common in agricultural and outdoor power equipment where simple design is desired.	Use in castellated nuts, where cotter is used as a locking mechanism. End is intended to "pound" into place.	Use in heavier duty applications. Limited size range of just two diameters, 5/16" and 3/8".	Light duty and special applications. Part is driven into hole and humped design at end combined with spring action of prongs self-locks the part.
COMMENTS	Most common problems are end design, head design, or burrs. Extended prong with square cut is most common. Head design of metric is more rounded than ANSI.	Cotter pins are not heat treated making the pin pliable to retain bent form rather than springing back to original shape.	Requires a tap hammer or similar tool to drive the wedge after installation into hole.	Appeared on the market as a special use pin, but usage is more widespread because of self-locking feature.

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QUICK REFERENCE GUIDE



	BOW TIE	RING	CIRCLE	SPLIT RING
COMMON NAMES	Double Bridge Pin, Bow Tie	Rue Ring	Cotter Ring	Key Ring, Circle Ring
APPLICABLE STANDARDS	None known.	None known.	None known.	None known.
FABRICATION	Wire formation. Part requires more specialized tooling. Heat treatment for spring tempering.	Wire formation. Part requires more specialized tooling. Heat treatment for spring tempering.	Wire formation. Part requires more specialized tooling. Heat treatment for spring tempering.	Wire formation. Part requires more specialized tooling. Heat treatment for spring tempering.
HOW TO IDENTIFY	Nominal wire diameter × nominal length.	Nominal wire diameter × nominal length.	Wire diameter × outside diameter.	Wire diameter × inside diameter.
COMMON USES	Extra loop provides additional security. Pin can be pushed or pulled to install.	Heavier duty versions use a heavier gauge wire. When installed ring encircles mating pin locking itself in place.	Lighter duty. Used in applications where protection from prong ends is required.	Heavier duty, for use as a handle for removal rather than a locking device.
COMMENTS	More secure than a standard bridge pin.	Straight prong can be bent over to provide a nearly immovable lock feature.	Uses a round wire cross section.	Manufactured from heavier duty half-round wire which enhances threading through the hole of the mating part.

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COTTER PINS

HUYETT.COM • 785-392-3017

BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

STANDARD – IMPERIAL

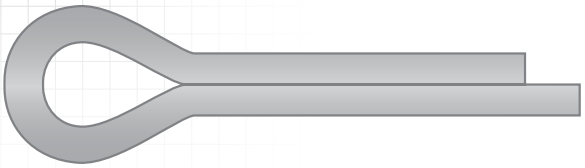
ASME B18.8.1

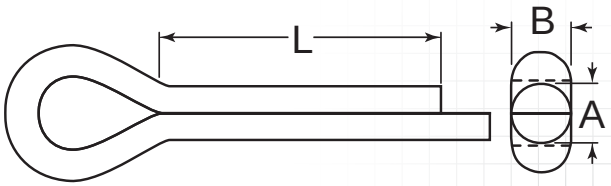
DESCRIPTION

A split pin manufactured from half-round steel wire that is fastened, after passing through a hole, by bending the ends. Cotter pins provide simple, low-cost, yet secure locking between parts.

HOW TO IDENTIFY

1. Verify half-round wire with extended prong.
2. Measure outside diameter (A).
3. Measure effective length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CP	=	CARBON STEEL, ZINC CLEAR
CPA	=	ALUMINUM, PLAIN
CPB	=	BRASS, PLAIN
CPC	=	CARBON STEEL, CADMIUM
CPMO	=	MONEL, PLAIN
CPP	=	CARBON STEEL, PLAIN*
CPS	=	18-8 STAINLESS STEEL, PLAIN
CPS16	=	MARINE GRADE 316 STAINLESS STEEL, PLAIN
CPY	=	CARBON STEEL, ZINC YELLOW

Material/finish combinations may not be available in all sizes.

1/32 (.031")

(A) Outside Diameter: .034/.028"

(B) Width: .031" .032/.022"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-031-0250	.250" (1/4)
PREFIX-031-0312	.313" (5/16)
PREFIX-031-0375	.375" (3/8)
PREFIX-031-0437	.438" (7/16)
PREFIX-031-0500	.500" (1/2)
PREFIX-031-0625	.625" (5/8)
PREFIX-031-0750	.750" (3/4)
PREFIX-031-1000	1.000" (1)
PREFIX-031-1250	1.250" (1-1/4)
PREFIX-031-1500	1.500" (1-1/2)
PREFIX-031-2000	2.000" (2)

3/64 (.047")

(A) Outside Diameter: .050/.044"

(B) Width: .047" .048/.035"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-046-0250	.250" (1/4)
PREFIX-046-0312	.313" (5/16)
PREFIX-046-0375	.375" (3/8)
PREFIX-046-0437	.438" (7/16)
PREFIX-046-0500	.500" (1/2)
PREFIX-046-0625	.625" (5/8)
PREFIX-046-0750	.750" (3/4)
PREFIX-046-0875	.875" (7/8)
PREFIX-046-1000	1.000" (1)
PREFIX-046-1250	1.250" (1-1/4)
PREFIX-046-1500	1.500" (1-1/2)
PREFIX-046-2000	2.000" (2)

1/16 (.063")

(A) Outside Diameter: .062/.056"

(B) Width: .060" .060/.044"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-062-0250	.250" (1/4)
PREFIX-062-0312	.313" (5/16)
PREFIX-062-0375	.375" (3/8)
PREFIX-062-0437	.438" (7/16)
PREFIX-062-0500	.500" (1/2)
PREFIX-062-0625	.625" (5/8)
PREFIX-062-0750	.750" (3/4)
PREFIX-062-0875	.875" (7/8)
PREFIX-062-1000	1.000" (1)
PREFIX-062-1250	1.250" (1-1/4)
PREFIX-062-1500	1.500" (1-1/2)
PREFIX-062-1750	1.750" (1-3/4)
PREFIX-062-2000	2.000" (2)
PREFIX-062-2250	2.250" (2-1/4)
PREFIX-062-2500	2.500" (2-1/2)
PREFIX-062-3000	3.000" (3)
PREFIX-062-3500	3.500" (3-1/2)

5/64 (.078")

(A) Outside Diameter: .078/.072"

(B) Width: .076" .076/.057"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-078-0500	.500" (1/2)
PREFIX-078-0625	.625" (5/8)
PREFIX-078-0750	.750" (3/4)
PREFIX-078-0875	.875" (7/8)
PREFIX-078-1000	1.000" (1)
PREFIX-078-1125	1.125" (1-1/8)
PREFIX-078-1250	1.250" (1-1/4)
PREFIX-078-1375	1.375" (1-3/8)
PREFIX-078-1500	1.500" (1-1/2)
PREFIX-078-1625	1.625" (1-5/8)
PREFIX-078-1750	1.750" (1-3/4)
PREFIX-078-2000	2.000" (2)
PREFIX-078-2250	2.250" (2-1/4)
PREFIX-078-2500	2.500" (2-1/2)
PREFIX-078-3000	3.000" (3)

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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ASME B18.8.1 STANDARD – IMPERIAL

3/32 (.094")
(A) Outside Diameter: .094/.086"

(B) Width: .090" .090/.069"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-093-0500	.500" (1/2)
PREFIX-093-0625	.625" (5/8)
PREFIX-093-0750	.750" (3/4)
PREFIX-093-0875	.875" (7/8)
PREFIX-093-1000	1.000" (1)
PREFIX-093-1125	1.125" (1-1/8)
PREFIX-093-1250	1.250" (1-1/4)
PREFIX-093-1375	1.375" (1-3/8)
PREFIX-093-1500	1.500" (1-1/2)
PREFIX-093-1625	1.625" (1-5/8)
PREFIX-093-1750	1.750" (1-3/4)
PREFIX-093-2000	2.000" (2)
PREFIX-093-2250	2.250" (2-1/4)
PREFIX-093-2500	2.500" (2-1/2)
PREFIX-093-3000	3.000" (3)
PREFIX-093-3500	3.500" (3-1/2)
PREFIX-093-4000	4.000" (4)

7/64 (.109")
(A) Outside Diameter: .107/.100"

(B) Width: .104" .104/.080"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-109-0500	.500" (1/2)
PREFIX-109-0625	.625" (5/8)
PREFIX-109-0750	.750" (3/4)
PREFIX-109-1000	1.000" (1)
PREFIX-109-1250	1.250" (1-1/4)
PREFIX-109-1500	1.500" (1-1/2)
PREFIX-109-1750	1.750" (1-3/4)
PREFIX-109-2000	2.000" (2)
PREFIX-109-2250	2.250" (2-1/4)
PREFIX-109-2500	2.500" (2-1/2)
PREFIX-109-3000	3.000" (3)
PREFIX-109-3500	3.500" (3-1/2)
PREFIX-109-4000	4.000" (4)

1/8 (.125")
(A) Outside Diameter: .124/.116"

(B) Width: .120" .120/.094"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-125-0500	.500" (1/2)
PREFIX-125-0625	.625" (5/8)
PREFIX-125-0750	.750" (3/4)
PREFIX-125-0875	.875" (7/8)
PREFIX-125-1000	1.000" (1)
PREFIX-125-1125	1.125" (1-1/8)
PREFIX-125-1250	1.250" (1-1/4)
PREFIX-125-1375	1.375" (1-3/8)
PREFIX-125-1500	1.500" (1-1/2)
PREFIX-125-1625	1.625" (1-5/8)
PREFIX-125-1750	1.750" (1-3/4)
PREFIX-125-2000	2.000" (2)
PREFIX-125-2250	2.250" (2-1/4)
PREFIX-125-2500	2.500" (2-1/2)
PREFIX-125-3000	3.000" (3)
PREFIX-125-3500	3.500" (3-1/2)
PREFIX-125-4000	4.000" (4)
PREFIX-125-5000	5.000" (5)
PREFIX-125-11000	11.000" (11)

9/64 (.141")
(A) Outside Diameter: .138/.130"

(B) Width: .134" .134/.104"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-140-0750	.750" (3/4)
PREFIX-140-1000	1.000" (1)
PREFIX-140-1250	1.250" (1-1/4)
PREFIX-140-1500	1.500" (1-1/2)
PREFIX-140-1750	1.750" (1-3/4)
PREFIX-140-2000	2.000" (2)
PREFIX-140-2250	2.250" (2-1/4)
PREFIX-140-2500	2.500" (2-1/2)
PREFIX-140-3000	3.000" (3)
PREFIX-140-3500	3.500" (3-1/2)
PREFIX-140-4000	4.000" (4)

5/32 (.156")
(A) Outside Diameter: .154/.146"

(B) Width: .150" .150/.116"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-156-0500	.500" (1/2)
PREFIX-156-0625	.625" (5/8)
PREFIX-156-0750	.750" (3/4)
PREFIX-156-1000	1.000" (1)
PREFIX-156-1125	1.125" (1-1/8)
PREFIX-156-1250	1.250" (1-1/4)
PREFIX-156-1375	1.375" (1-3/8)
PREFIX-156-1500	1.500" (1-1/2)
PREFIX-156-1625	1.625" (1-5/8)
PREFIX-156-1750	1.750" (1-3/4)
PREFIX-156-2000	2.000" (2)
PREFIX-156-2250	2.250" (2-1/4)
PREFIX-156-2500	2.500" (2-1/2)
PREFIX-156-2750	2.750" (2-3/4)
PREFIX-156-3000	3.000" (3)
PREFIX-156-3500	3.500" (3-1/2)
PREFIX-156-4000	4.000" (4)

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3/16 (.188")
(A) Outside Diameter: .180/.172"

(B) Width: .176" .176/.137"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-187-0500	.500" (1/2)
PREFIX-187-0750	.750" (3/4)
PREFIX-187-1000	1.000" (1)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1625	1.625" (1-5/8)
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-2000	2.000" (2)
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)
PREFIX-187-2750	2.750" (2-3/4)
PREFIX-187-3000	3.000" (3)
PREFIX-187-3500	3.500" (3-1/2)
PREFIX-187-4000	4.000" (4)
PREFIX-187-4500	4.500" (4-1/2)
PREFIX-187-5000	5.000" (5)
PREFIX-187-6000	6.000" (6)
PREFIX-187-7000	7.000" (7)
PREFIX-187-8000	8.000" (8)
PREFIX-187-12000	12.000" (12)

7/32 (.219")
(A) Outside Diameter: .212/.202"

(B) Width: .207" .207/.161"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-218-1000	1.000" (1)
PREFIX-218-1250	1.250" (1-1/4)
PREFIX-218-1500	1.500" (1-1/2)
PREFIX-218-1750	1.750" (1-3/4)
PREFIX-218-2000	2.000" (2)
PREFIX-218-2250	2.250" (2-1/4)
PREFIX-218-2500	2.500" (2-1/2)
PREFIX-218-3000	3.000" (3)
PREFIX-218-3500	3.500" (3-1/2)
PREFIX-218-4000	4.000" (4)
PREFIX-218-4500	4.500" (4-1/2)
PREFIX-218-5000	5.000" (5)
PREFIX-218-6000	6.000" (6)

1/4 (.250")
(A) Outside Diameter: .230/.220"

(B) Width: .225" .225/.176"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-250-0750	.750" (3/4)
PREFIX-250-1000	1.000" (1)
PREFIX-250-1125	1.125" (1-1/8)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1500	1.500" (1-1/2)

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

COTTER PINS

HUYETT.COM • 785-392-3017

BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

STANDARD – IMPERIAL

ASME B18.8.1

PREFIX		MATERIAL/FINISH
CP	=	CARBON STEEL, ZINC CLEAR
CPA	=	ALUMINUM, PLAIN
CPB	=	BRASS, PLAIN
CPC	=	CARBON STEEL, CADMIUM
CPMO	=	MONEL, PLAIN
CPP	=	CARBON STEEL, PLAIN*
CPS	=	18-8 STAINLESS STEEL, PLAIN
CPS16	=	MARINE GRADE 316 STAINLESS STEEL, PLAIN
CPY	=	CARBON STEEL, ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-2000	2.000" (2)
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-2750	2.750" (2-3/4)
PREFIX-250-3000	3.000" (3)
PREFIX-250-3500	3.500" (3-1/2)
PREFIX-250-4000	4.000" (4)
PREFIX-250-4500	4.500" (4-1/2)
PREFIX-250-5000	5.000" (5)
PREFIX-250-6000	6.000" (6)
PREFIX-250-7000	7.000" (7)
PREFIX-250-8000	8.000" (8)
PREFIX-250-12000	12.000" (12)

5/16 (.313")

(A) Outside Diameter: .286/.275"

(B) Width: .280" .280/.220"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

PREFIX-312-1000	1.000" (1)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-2000	2.000" (2)
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-4000	4.000" (4)
PREFIX-312-4500	4.500" (4-1/2)
PREFIX-312-5000	5.000" (5)
PREFIX-312-5250	5.250" (5-1/4)
PREFIX-312-6000	6.000" (6)
PREFIX-312-8000	8.000" (8)
PREFIX-312-11000	11.000" (11)

3/8 (.375")

(A) Outside Diameter: .341/.329"

(B) Width: .335" .335/.263"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-2000	2.000" (2)

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-2750	2.750" (2-3/4)
PREFIX-375-3000	3.000" (3)
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-4000	4.000" (4)
PREFIX-375-4500	4.500" (4-1/2)
PREFIX-375-5000	5.000" (5)
PREFIX-375-5500	5.500" (5-1/2)
PREFIX-375-6000	6.000" (6)
PREFIX-375-7000	7.000" (7)
PREFIX-375-8000	8.000" (8)
PREFIX-375-10000	10.000" (10)
PREFIX-375-11000	11.000" (11)
PREFIX-375-12000	12.000" (12)

7/16 (.438")

(A) Outside Diameter: .412/.400"

(B) Width: .406" .406/.320"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

PREFIX-437-2000	2.000" (2)
PREFIX-437-2250	2.250" (2-1/4)
PREFIX-437-2500	2.500" (2-1/2)
PREFIX-437-3000	3.000" (3)
PREFIX-437-3500	3.500" (3-1/2)
PREFIX-437-4000	4.000" (4)
PREFIX-437-5000	5.000" (5)
PREFIX-437-5500	5.500" (5-1/2)
PREFIX-437-6000	6.000" (6)
PREFIX-437-7000	7.000" (7)
PREFIX-437-8000	8.000" (8)

1/2 (.500")

(A) Outside Diameter: .480/.467"

(B) Width: .473" .473/.373"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

PREFIX-500-2000	2.000" (2)
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-3000	3.000" (3)
PREFIX-500-3500	3.500" (3-1/2)
PREFIX-500-4000	4.000" (4)
PREFIX-500-4500	4.500" (4-1/2)
PREFIX-500-5000	5.000" (5)
PREFIX-500-6000	6.000" (6)

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-500-6500	6.500" (6-1/2)
PREFIX-500-7000	7.000" (7)
PREFIX-500-8000	8.000" (8)
PREFIX-500-9000	9.000" (9)
PREFIX-500-10000	10.000" (10)

5/8 (.625")

(A) Outside Diameter: .605/.590"

(B) Width: .598" .598/.472"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

PREFIX-625-3000	3.000" (3)
PREFIX-625-3500	3.500" (3-1/2)
PREFIX-625-4000	4.000" (4)
PREFIX-625-5000	5.000" (5)
PREFIX-625-6000	6.000" (6)
PREFIX-625-7000	7.000" (7)
PREFIX-625-8000	8.000" (8)
PREFIX-625-8500	8.500" (8-1/2)
PREFIX-625-10000	10.000" (10)
PREFIX-625-11000	11.000" (11)
PREFIX-625-12000	12.000" (12)
PREFIX-625-14000	14.000" (14)

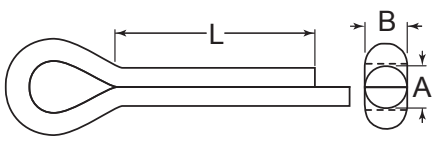
3/4 (.750")*

(A) Outside Diameter: .785/.715"

(B) Width: .750" .785/.715"
(L) +.060/-.060"

PREFIX-750-3000	3.000" (3)
PREFIX-750-3500	3.500" (3-1/2)
PREFIX-750-4000	4.000" (4)
PREFIX-750-5000	5.000" (5)
PREFIX-750-6000	6.000" (6)
PREFIX-750-7000	7.000" (7)
PREFIX-750-8000	8.000" (8)
PREFIX-750-8500	8.500" (8-1/2)
PREFIX-750-12000	12.000" (12)
PREFIX-750-13000	13.000" (13)

* 3/4" Cotter Pins are not ASME B18.8.1 compliant.



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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

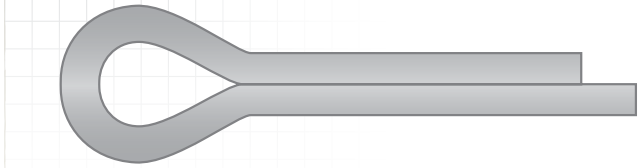
DIN 94 STANDARD – DIN METRIC

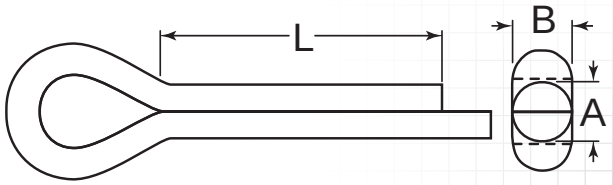
DESCRIPTION

A split pin manufactured from half-round steel wire that is fastened, after passing through a hole, by bending the ends. Cotter pins provide simple, low-cost, yet secure locking between parts.

HOW TO IDENTIFY

1. Verify half-round wire with extended prong.
2. Measure outside diameter (A).
3. Measure effective length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CPMS = STAINLESS STEEL, PLAIN
CPMY = CARBON STEEL, ZINC YELLOW
CPMZ = CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.00 mm
(A) Outside Diameter: 0.90/0.80 mm

(B) Width: 1.00 mm 0.90/0.80 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-010-006	6.00 mm
PREFIX-010-008	8.00 mm
PREFIX-010-010	10.00 mm
PREFIX-010-012	12.00 mm
PREFIX-010-014	14.00 mm
PREFIX-010-016	16.00 mm
PREFIX-010-018	18.00 mm
PREFIX-010-020	20.00 mm
PREFIX-010-022	22.00 mm
PREFIX-010-025	25.00 mm
	+1.50/-1.50 mm
PREFIX-010-032	32.00 mm
PREFIX-010-036	36.00 mm

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE: CPMS • CPMY • CPMZ

1.20 mm
(A) Outside Diameter: 1.00/.0.90 mm

(B) Width: 1.20 mm 1.00/0.90 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-012-008	8.00 mm
PREFIX-012-010	10.00 mm
PREFIX-012-012	12.00 mm
PREFIX-012-014	14.00 mm
PREFIX-012-016	16.00 mm
PREFIX-012-018	18.00 mm
PREFIX-012-020	20.00 mm
PREFIX-012-022	22.00 mm
PREFIX-012-025	25.00 mm
PREFIX-012-028	28.00 mm

1.60 mm
(A) Outside Diameter: 1.40/1.30 mm

(B) Width: 1.60 mm 1.40/1.30 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-016-006	6.00 mm
PREFIX-016-008	8.00 mm
PREFIX-016-010	10.00 mm
PREFIX-016-012	12.00 mm
PREFIX-016-014	14.00 mm
PREFIX-016-016	16.00 mm
PREFIX-016-018	18.00 mm
PREFIX-016-020	20.00 mm
PREFIX-016-022	22.00 mm
PREFIX-016-025	25.00 mm
PREFIX-016-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-016-032	32.00 mm
PREFIX-016-036	36.00 mm
PREFIX-016-040	40.00 mm

2.00 mm
(A) Outside Diameter: 1.80/1.70 mm

(B) Width: 2.00 mm 1.80/1.70 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-020-006	6.00 mm
PREFIX-020-010	10.00 mm
PREFIX-020-012	12.00 mm
PREFIX-020-014	14.00 mm
PREFIX-020-016	16.00 mm
PREFIX-020-018	18.00 mm
PREFIX-020-020	20.00 mm

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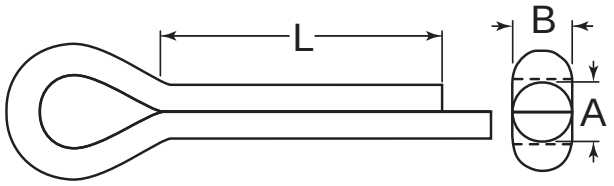
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STANDARD – DIN METRIC

DIN 94

PREFIX		MATERIAL/FINISH
CPMS	=	STAINLESS STEEL, PLAIN
CPMY	=	CARBON STEEL, ZINC YELLOW
CPMZ	=	CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.



2.00 mm
(A) Outside Diameter: 1.80/1.70 mm

(B) Width: 2.00 mm 1.80/1.70 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-020-022	22.00 mm
PREFIX-020-025	25.00 mm
PREFIX-020-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-020-032	32.00 mm
PREFIX-020-036	36.00 mm
PREFIX-020-040	40.00 mm
PREFIX-020-045	45.00 mm
PREFIX-020-050	50.00 mm

2.50 mm
(A) Outside Diameter: 2.30/2.10 mm

(B) Width: 2.50 mm 2.30/2.10 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-025-010	10.00 mm
PREFIX-025-012	12.00 mm
PREFIX-025-014	14.00 mm
PREFIX-025-016	16.00 mm
PREFIX-025-018	18.00 mm
PREFIX-025-020	20.00 mm
PREFIX-025-022	22.00 mm
PREFIX-025-025	25.00 mm
PREFIX-025-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-025-032	32.00 mm
PREFIX-025-036	36.00 mm
PREFIX-025-040	40.00 mm
PREFIX-025-045	45.00 mm
PREFIX-025-050	50.00 mm

3.20 mm
(A) Outside Diameter: 2.90/2.70 mm

(B) Width: 3.20 mm 2.90/2.70 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-032-010	10.00 mm
PREFIX-032-012	12.00 mm
PREFIX-032-016	16.00 mm
PREFIX-032-018	18.00 mm
PREFIX-032-020	20.00 mm
PREFIX-032-022	22.00 mm
PREFIX-032-025	25.00 mm
PREFIX-032-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-032-032	32.00 mm
PREFIX-032-036	36.00 mm
PREFIX-032-040	40.00 mm
PREFIX-032-045	45.00 mm
PREFIX-032-050	50.00 mm
PREFIX-032-056	56.00 mm
PREFIX-032-063	63.00 mm
PREFIX-032-071	71.00 mm

3.50 mm
(A) Outside Diameter: 3.20/3.00 mm

(B) Width: 3.50 mm 3.20/3.00 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-035-016	16.00 mm
PREFIX-035-018	18.00 mm
PREFIX-035-020	20.00 mm
PREFIX-035-022	22.00 mm
PREFIX-035-025	25.00 mm
PREFIX-035-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-035-032	32.00 mm
PREFIX-035-036	36.00 mm
PREFIX-035-040	40.00 mm
PREFIX-035-045	45.00 mm
PREFIX-035-050	50.00 mm
PREFIX-035-056	56.00 mm
PREFIX-035-063	63.00 mm
PREFIX-035-071	71.00 mm
PREFIX-035-080	80.00 mm

4.00 mm
(A) Outside Diameter: 3.70/3.50 mm

(B) Width: 4.00 mm 3.70/3.50 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-040-016	16.00 mm
PREFIX-040-018	18.00 mm
PREFIX-040-020	20.00 mm
PREFIX-040-022	22.00 mm
PREFIX-040-025	25.00 mm
PREFIX-040-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-040-032	32.00 mm
PREFIX-040-036	36.00 mm
PREFIX-040-040	40.00 mm
PREFIX-040-045	45.00 mm
PREFIX-040-050	50.00 mm
PREFIX-040-056	56.00 mm
PREFIX-040-063	63.00 mm
PREFIX-040-071	71.00 mm
PREFIX-040-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-040-100	100.00 mm

4.50 mm
(A) Outside Diameter: 4.20/4.00 mm

(B) Width: 4.50 mm 4.20/4.00 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-045-016	16.00 mm
PREFIX-045-018	18.00 mm
PREFIX-045-020	20.00 mm
PREFIX-045-022	22.00 mm
PREFIX-045-025	25.00 mm
PREFIX-045-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-045-032	32.00 mm
PREFIX-045-036	36.00 mm
PREFIX-045-040	40.00 mm
PREFIX-045-045	45.00 mm
PREFIX-045-050	50.00 mm
PREFIX-045-056	56.00 mm
PREFIX-045-063	63.00 mm
PREFIX-045-071	71.00 mm

5.00 mm
(A) Outside Diameter: 4.60/4.40 mm

(B) Width: 5.00 mm 4.60/4.40 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-050-016	16.00 mm
PREFIX-050-020	20.00 mm
PREFIX-050-022	22.00 mm

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ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-050-025	25.00 mm
PREFIX-050-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-050-032	32.00 mm
PREFIX-050-036	36.00 mm
PREFIX-050-040	40.00 mm
PREFIX-050-045	45.00 mm
PREFIX-050-050	50.00 mm
PREFIX-050-056	56.00 mm
PREFIX-050-063	63.00 mm
PREFIX-050-071	71.00 mm
PREFIX-050-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-050-090	90.00 mm
PREFIX-050-100	100.00 mm

6.30 mm
(A) Outside Diameter: 5.90/5.70 mm

(B) Width: 6.30 mm 5.90/5.70 mm

	+1.00/-1.00 mm
PREFIX-063-020	20.00 mm
PREFIX-063-025	25.00 mm
PREFIX-063-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-063-032	32.00 mm
PREFIX-063-036	36.00 mm
PREFIX-063-040	40.00 mm
PREFIX-063-045	45.00 mm
PREFIX-063-050	50.00 mm
PREFIX-063-056	56.00 mm
PREFIX-063-063	63.00 mm
PREFIX-063-071	71.00 mm
PREFIX-063-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-063-090	90.00 mm
PREFIX-063-100	100.00 mm
PREFIX-063-112	112.00 mm
PREFIX-063-120	120.00 mm
PREFIX-063-125	125.00 mm

7.00 mm
(A) Outside Diameter: 6.60/6.40 mm

(B) Width: 7.00 mm 6.60/6.40 mm

	+1.50/-1.50 mm
PREFIX-070-032	32.00 mm
PREFIX-070-036	36.00 mm
PREFIX-070-040	40.00 mm
PREFIX-070-045	45.00 mm
PREFIX-070-050	50.00 mm
PREFIX-070-056	56.00 mm
PREFIX-070-063	63.00 mm
PREFIX-070-071	71.00 mm
PREFIX-070-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-070-090	90.00 mm
PREFIX-070-100	100.00 mm
PREFIX-070-112	112.00 mm
PREFIX-070-120	120.00 mm
PREFIX-070-125	125.00 mm

8.00 mm
(A) Outside Diameter: 7.50/7.30 mm

(B) Width: 8.00 mm 7.50/7.30 mm

	+1.00/-1.00 mm
PREFIX-080-025	25.00 mm
PREFIX-080-028	28.00 mm
	+1.50/-1.50 mm
PREFIX-080-032	32.00 mm
PREFIX-080-036	36.00 mm
PREFIX-080-040	40.00 mm
PREFIX-080-045	45.00 mm
PREFIX-080-050	50.00 mm
PREFIX-080-056	56.00 mm
PREFIX-080-063	63.00 mm
PREFIX-080-071	71.00 mm
PREFIX-080-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-080-090	90.00 mm
PREFIX-080-100	100.00 mm
PREFIX-080-112	112.00 mm
PREFIX-080-125	125.00 mm
PREFIX-080-140	140.00 mm

9.00 mm
(A) Outside Diameter: 8.50/8.30 mm

(B) Width: 9.00 mm 8.50/8.30 mm

	+1.50/-1.50 mm
PREFIX-090-045	45.00 mm
PREFIX-090-050	50.00 mm
PREFIX-090-056	56.00 mm
PREFIX-090-063	63.00 mm
PREFIX-090-071	71.00 mm
PREFIX-090-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-090-090	90.00 mm
PREFIX-090-100	100.00 mm
PREFIX-090-112	112.00 mm
PREFIX-090-125	125.00 mm
PREFIX-090-140	140.00 mm
PREFIX-090-160	160.00 mm

10.00 mm
(A) Outside Diameter: 9.50/9.30 mm

(B) Width: 10.00 mm 9.50/9.30 mm

	+1.50/-1.50 mm
PREFIX-100-040	40.00 mm
PREFIX-100-050	50.00 mm
PREFIX-100-056	56.00 mm
PREFIX-100-063	63.00 mm
PREFIX-100-071	71.00 mm
PREFIX-100-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-100-090	90.00 mm
PREFIX-100-100	100.00 mm
PREFIX-100-112	112.00 mm
PREFIX-100-125	125.00 mm
PREFIX-100-140	140.00 mm
PREFIX-100-160	160.00 mm
PREFIX-100-180	180.00 mm

12.00 mm
(A) Outside Diameter: 11.50/11.30 mm

(B) Width: 12.00 mm 11.50/11.30 mm

	+1.50/-1.50 mm
PREFIX-120-063	63.00 mm
PREFIX-120-071	71.00 mm
PREFIX-120-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-120-090	90.00 mm
PREFIX-120-100	100.00 mm
PREFIX-120-112	112.00 mm
PREFIX-120-125	125.00 mm
PREFIX-120-140	140.00 mm
PREFIX-120-160	160.00 mm
PREFIX-120-180	180.00 mm

13.00 mm
(A) Outside Diameter: 12.40/12.10 mm

(B) Width: 13.00 mm 12.40/12.10 mm

	+1.50/-1.50 mm
PREFIX-130-071	71.00 mm
PREFIX-130-080	80.00 mm
	+2.00/-2.00 mm
PREFIX-130-090	90.00 mm
PREFIX-130-100	100.00 mm
PREFIX-130-112	112.00 mm
PREFIX-130-125	125.00 mm
PREFIX-130-140	140.00 mm
PREFIX-130-150	150.00 mm
PREFIX-130-160	160.00 mm
PREFIX-130-180	180.00 mm

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COTTER PINS

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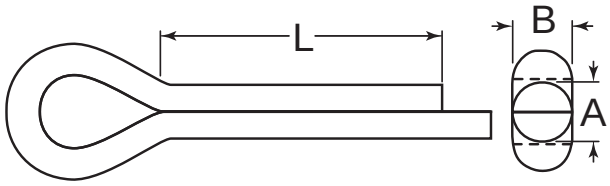
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STANDARD – DIN METRIC

DIN 94

PREFIX		MATERIAL/FINISH
CPMS	=	STAINLESS STEEL, PLAIN
CPMY	=	CARBON STEEL, ZINC YELLOW
CPMZ	=	CARBON STEEL, ZINC CLEAR

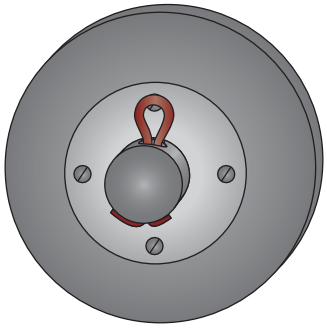
Material/finish combinations may not be available in all sizes.



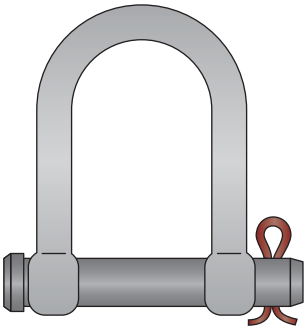
ITEM NUMBER	(L) EFFECTIVE LENGTH
13.00 mm (A) Outside Diameter: 12.40/12.10 mm	
(B) Width: 13.00 mm 12.40/12.10 mm	
	+2.00/-2.00 mm
PREFIX-130-200	200.00 mm
PREFIX-130-224	224.00 mm
14.00 mm (A) Outside Diameter: 13.40/13.10 mm	
(B) Width: 14.00 mm 13.40/13.10 mm	
	+2.00/-2.00 mm
PREFIX-140-100	100.00 mm
PREFIX-140-112	112.00 mm
PREFIX-140-125	125.00 mm
PREFIX-140-140	140.00 mm
PREFIX-140-160	160.00 mm
PREFIX-140-180	180.00 mm
PREFIX-140-200	200.00 mm
PREFIX-140-224	224.00 mm
16.00 mm (A) Outside Diameter: 15.40/15.10 mm	
(B) Width: 16.00 mm 15.40/15.10 mm	
	+2.00/-2.00 mm
PREFIX-160-100	100.00 mm
PREFIX-160-112	112.00 mm
PREFIX-160-125	125.00 mm
PREFIX-160-130	130.00 mm
PREFIX-160-140	140.00 mm
PREFIX-160-160	160.00 mm
PREFIX-160-180	180.00 mm
PREFIX-160-200	200.00 mm
PREFIX-160-224	224.00 mm

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

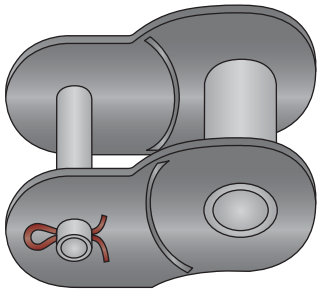
APPLICATIONS



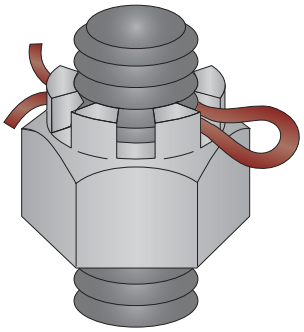
AS A HOLDING PIN



TO SECURE A CLEVIS PIN



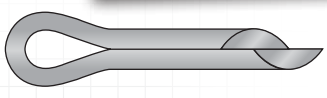
ON A CHAIN LINK



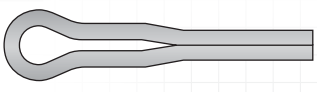
FOR USE WITH A CASTLE NUT

CUSTOM SOLUTIONS

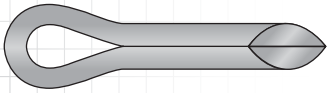
Cotter pin design is limited only by imagination. Call today for a quote on your per print design.
785-392-3017



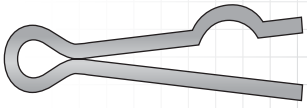
EXTENDED PRONG TAPER POINT



SELF-LOCKING COTTER PIN



FLUSH CUT TAPER POINT



HUMPED COTTER PIN

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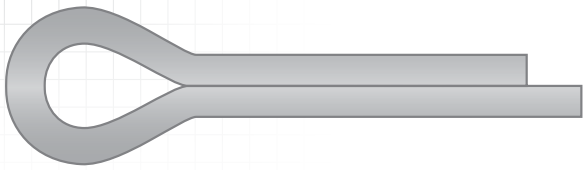
ASME B18.8.6M STANDARD – ASME METRIC

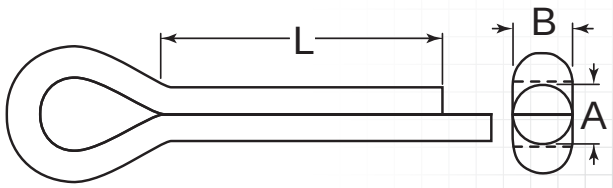
DESCRIPTION

A split pin manufactured from half-round steel wire that is fastened, after passing through a hole, by bending the ends. Cotter pins provide simple, low-cost, yet secure locking between parts.

HOW TO IDENTIFY

1. Verify half-round wire with extended prong.
2. Measure outside diameter (A).
3. Measure effective length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

ASME B18.8.6M Identified by "-A" at end of item number.

CPM = CARBON STEEL, PLAIN*
CPMZ = CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.20 mm
(A) Outside Diameter: 1.00/0.90 mm

(B) Width: 1.20 mm 1.00/.080 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-012-008-A	8.00 mm
PREFIX-012-012-A	12.00 mm
PREFIX-012-014-A	14.00 mm
PREFIX-012-020-A	20.00 mm
PREFIX-012-025-A	25.00 mm

1.60 mm
(A) Outside Diameter: 1.40/1.30 mm

(B) Width: 1.60 mm 1.40/1.10 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-016-008-A	8.00 mm
PREFIX-016-010-A	10.00 mm
PREFIX-016-012-A	12.00 mm
PREFIX-016-014-A	14.00 mm
PREFIX-016-016-A	16.00 mm
PREFIX-016-020-A	20.00 mm
PREFIX-016-025-A	25.00 mm
	+1.50/-1.50 mm
PREFIX-016-032-A	32.00 mm

2.00 mm
(A) Outside Diameter: 1.80/1.70 mm

(B) Width: 2.00 mm 1.80/1.40 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-020-012-A	12.00 mm
PREFIX-020-014-A	14.00 mm
PREFIX-020-016-A	16.00 mm
PREFIX-020-018-A	18.00 mm
PREFIX-020-020-A	20.00 mm
PREFIX-020-025-A	25.00 mm
	+1.50/-1.50 mm
PREFIX-020-032-A	32.00 mm
PREFIX-020-040-A	40.00 mm

2.50 mm
(A) Outside Diameter: 2.30/2.10 mm

(B) Width: 2.50 mm 2.30/1.70 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-025-014-A	14.00 mm
PREFIX-025-016-A	16.00 mm
PREFIX-025-018-A	18.00 mm
PREFIX-025-020-A	20.00 mm
PREFIX-025-025-A	25.00 mm
	+1.50/-1.50 mm
PREFIX-025-032-A	32.00 mm
PREFIX-025-036-A	36.00 mm
PREFIX-025-040-A	40.00 mm
PREFIX-025-050-A	50.00 mm

3.20 mm
(A) Outside Diameter: 2.90/2.70 mm

(B) Width: 3.20 mm 2.90/2.20 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-032-016-A	16.00 mm
PREFIX-032-020-A	20.00 mm
PREFIX-032-025-A	25.00 mm
PREFIX-032-028-A	28.00 mm
	+1.50/-1.50 mm
PREFIX-032-032-A	32.00 mm
PREFIX-032-040-A	40.00 mm
PREFIX-032-050-A	50.00 mm

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

COTTER PINS

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STANDARD – ASME METRIC

ASME B18.8.6M

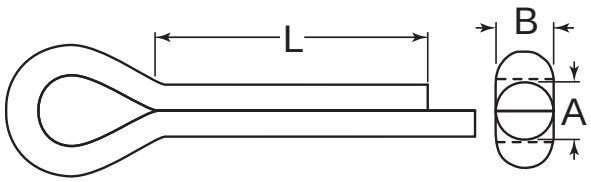
PREFIX MATERIAL/FINISH

ASME B18.8.6M Identified by "-A" at end of item number.

CPM = CARBON STEEL, PLAIN*

CPMZ = CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.



4.00 mm

(A) Outside Diameter: 3.70/3.50 mm

(B) Width: 4.00 mm 3.70/2.80 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-040-025-A	25.00 mm
PREFIX-040-028-A	28.00 mm
	+1.50/-1.50 mm
PREFIX-040-032-A	32.00 mm
PREFIX-040-040-A	40.00 mm
PREFIX-040-045-A	45.00 mm
PREFIX-040-050-A	50.00 mm
PREFIX-040-063-A	63.00 mm

5.00 mm

(A) Outside Diameter: 4.60/4.40 mm

(B) Width: 5.00 mm 4.60/3.50 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.00/-1.00 mm
PREFIX-050-025-A	25.00 mm
	+1.50/-1.50 mm
PREFIX-050-032-A	32.00 mm
PREFIX-050-040-A	40.00 mm
PREFIX-050-045-A	45.00 mm
PREFIX-050-050-A	50.00 mm
PREFIX-050-063-A	63.00 mm
PREFIX-050-071-A	71.00 mm

6.30 mm

(A) Outside Diameter: 5.90/5.70 mm

(B) Width: 6.30 mm 5.90/4.60

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.50/-1.50 mm
PREFIX-063-032-A	32.00 mm
PREFIX-063-040-A	40.00 mm
PREFIX-063-045-A	45.00 mm
PREFIX-063-050-A	50.00 mm
PREFIX-063-063-A	63.00 mm
PREFIX-063-071-A	71.00 mm
PREFIX-063-080-A	80.00 mm

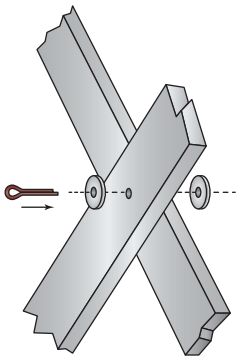
8.00 mm

(A) Outside Diameter: 7.50/7.30 mm

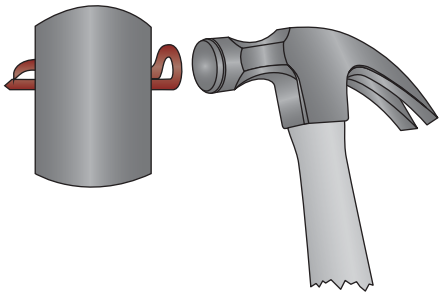
(B) Width: 8.00 mm 7.50/5.90 mm

ITEM NUMBER	(L) EFFECTIVE LENGTH
	+1.50/-1.50 mm
PREFIX-080-040-A	40.00 mm
PREFIX-080-045-A	45.00 mm
PREFIX-080-050-A	50.00 mm
PREFIX-080-063-A	63.00 mm
PREFIX-080-071-A	71.00 mm
PREFIX-080-080-A	80.00 mm
	+2.00/-2.00 mm
PREFIX-080-090-A	90.00 mm
PREFIX-080-100-A	100.00 mm

APPLICATIONS



AS A FASTENER IN A LATTICE ASSEMBLY



AS THE HEAD IS STRUCK THE PRONGS SPREAD APART LOCKING THE PIN AUTOMATICALLY

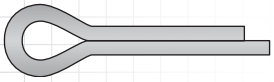
MILITARY COTTER PINS

Call for a quote on military grade cotter pins.

MS24665

MILITARY

Manufactured to MS24665 specifications. Extended prong with square point is standard.



MS9245

NONFERROUS MILITARY

Manufactured for corrosion and heat resistant specification AMS 7211; and heat treated. Parts will be dark gray or black in color.

END DESIGNS PERMITTED IN MS9245



STYLE A STYLE B STYLE C STYLE D

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ASME B18.8.1 HAMMERLOCK

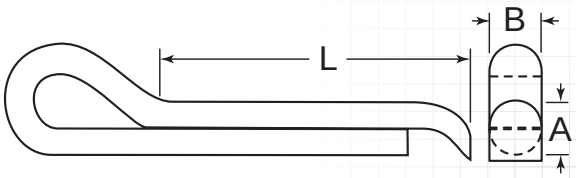
DESCRIPTION

A uniquely designed cotter pin with an extended curved prong. When struck with a hammer the shorter prong moves past the curved prong spreading the tines apart and locking the pin in place. The permanent deformation makes these pins non-reusable.

HOW TO IDENTIFY

1. Verify longer prong with curved end.
2. Measure outside diameter (A).
3. Measure effective length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CPH	=	CARBON STEEL, PLAIN*
CPHS	=	STAINLESS STEEL, PLAIN
CPHS16	=	316 STAINLESS STEEL, PLAIN
CPHZ	=	CARBON STEEL, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3/64 (.047")
(A) Outside Diameter: .048/.044"

(B) Width: .207" .207/.161"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-046-0500	.500" (1/2)
PREFIX-046-0750	.750" (3/4)
PREFIX-046-1000	1.000" (1)
PREFIX-046-1250	1.250" (1-1/4)
PREFIX-046-1500	1.500" (1-1/2)

1/16 (.063")
(A) Outside Diameter: .060/.056"

(B) Width: .060" .060/.044"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-062-0250	.250" (1/4)
PREFIX-062-0500	.500" (1/2)
PREFIX-062-0625	.625" (5/8)
PREFIX-062-0750	.750" (3/4)
PREFIX-062-1000	1.000" (1)
PREFIX-062-1250	1.250" (1-1/4)
PREFIX-062-1500	1.500" (1-1/2)
PREFIX-062-1750	1.750" (1-3/4)
PREFIX-062-2000	2.000" (2)
PREFIX-062-2250	2.250" (2-1/4)
PREFIX-062-2500	2.500" (2-1/2)
PREFIX-062-3000	3.000" (3)

5/64 (.078")
(A) Outside Diameter: .076/.072"

(B) Width: .076" .076/.057"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-078-0500	.500" (1/2)
PREFIX-078-0625	.625" (5/8)
PREFIX-078-0750	.750" (3/4)
PREFIX-078-0875	.875" (7/8)
PREFIX-078-1000	1.000" (1)
PREFIX-078-1250	1.250" (1-1/4)
PREFIX-078-1500	1.500" (1-1/2)
PREFIX-078-1750	1.750" (1-3/4)
PREFIX-078-2000	2.000" (2)
PREFIX-078-2250	2.250" (2-1/4)
PREFIX-078-2500	2.500" (2-1/2)
PREFIX-078-3000	3.000" (3)
PREFIX-078-3500	3.500" (3-1/2)
PREFIX-078-4000	4.000" (4)

3/32 (.094")
(A) Outside Diameter: .090/.086"

(B) Width: .090" .090/.069"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-093-0500	.500" (1/2)
PREFIX-093-0625	.625" (5/8)
PREFIX-093-0750	.750" (3/4)
PREFIX-093-0875	.875" (7/8)
PREFIX-093-1000	1.000" (1)
PREFIX-093-1250	1.250" (1-1/4)
PREFIX-093-1500	1.500" (1-1/2)
PREFIX-093-1750	1.750" (1-3/4)
PREFIX-093-2000	2.000" (2)
PREFIX-093-2250	2.250" (2-1/4)
PREFIX-093-2500	2.500" (2-1/2)
PREFIX-093-3000	3.000" (3)
PREFIX-093-3500	3.500" (3-1/2)
PREFIX-093-4000	4.000" (4)

7/64 (.109")
(A) Outside Diameter: .104/.100"

(B) Width: .104" .104/.080"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-109-0500	.500" (1/2)
PREFIX-109-0625	.625" (5/8)
PREFIX-109-0750	.750" (3/4)
PREFIX-109-0875	.875" (7/8)
PREFIX-109-1000	1.000" (1)
PREFIX-109-1250	1.250" (1-1/4)
PREFIX-109-1500	1.500" (1-1/2)
PREFIX-109-1750	1.750" (1-3/4)

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HAMMERLOCK

ASME B18.8.1

1/8 (.125")
(A) Outside Diameter: .120/.116"

(B) Width: .120" .120/.094"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-125-0500	.500" (1/2)
PREFIX-125-0625	.625" (5/8)
PREFIX-125-0750	.750" (3/4)
PREFIX-125-0875	.875" (7/8)
PREFIX-125-1000	1.000" (1)
PREFIX-125-1250	1.250" (1-1/4)
PREFIX-125-1500	1.500" (1-1/2)
PREFIX-125-1750	1.750" (1-3/4)
PREFIX-125-2000	2.000" (2)
PREFIX-125-2250	2.250" (2-1/4)
PREFIX-125-2500	2.500" (2-1/2)
PREFIX-125-3000	3.000" (3)
PREFIX-125-3500	3.500" (3-1/2)
PREFIX-125-4000	4.000" (4)

9/64 (.141")
(A) Outside Diameter: .134/.130"

(B) Width: .134" .134/.104"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-140-0750	.750" (3/4)
PREFIX-140-0875	.875" (7/8)
PREFIX-140-1000	1.000" (1)
PREFIX-140-1250	1.250" (1-1/4)
PREFIX-140-1500	1.500" (1-1/2)
PREFIX-140-1750	1.750" (1-3/4)
PREFIX-140-2000	2.000" (2)
PREFIX-140-2250	2.250" (2-1/4)
PREFIX-140-2500	2.500" (2-1/2)
PREFIX-140-3000	3.000" (3)
PREFIX-140-3500	3.500" (3-1/2)
PREFIX-140-4000	4.000" (4)

5/32 (.156")
(A) Outside Diameter: .150/.146"

(B) Width: .150" .150/.116"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-156-0750	.750" (3/4)
PREFIX-156-0875	.875" (7/8)
PREFIX-156-1000	1.000" (1)
PREFIX-156-1250	1.250" (1-1/4)
PREFIX-156-1500	1.500" (1-1/2)
PREFIX-156-1750	1.750" (1-3/4)
PREFIX-156-2000	2.000" (2)
PREFIX-156-2250	2.250" (2-1/4)
PREFIX-156-2500	2.500" (2-1/2)
PREFIX-156-3000	3.000" (3)
PREFIX-156-3500	3.500" (3-1/2)
PREFIX-156-4000	4.000" (4)

3/16 (.188")
(A) Outside Diameter: .176/.172"

(B) Width: .176" .176/.137"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-187-0750	.750" (3/4)
PREFIX-187-0875	.875" (7/8)
PREFIX-187-1000	1.000" (1)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-2000	2.000" (2)
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)
PREFIX-187-3000	3.000" (3)
PREFIX-187-3500	3.500" (3-1/2)
PREFIX-187-4000	4.000" (4)

7/32 (.219")
(A) Outside Diameter: .207/.202"

(B) Width: .207" .207/.161"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-218-1000	1.000" (1)
PREFIX-218-1250	1.250" (1-1/4)
PREFIX-218-1500	1.500" (1-1/2)
PREFIX-218-1750	1.750" (1-3/4)
PREFIX-218-2000	2.000" (2)
PREFIX-218-2250	2.250" (2-1/4)
PREFIX-218-2500	2.500" (2-1/2)
PREFIX-218-3000	3.000" (3)
PREFIX-218-3500	3.500" (3-1/2)
PREFIX-218-4000	4.000" (4)
PREFIX-218-4500	4.500" (4-1/2)
PREFIX-218-5000	5.000" (5)
PREFIX-218-6000	6.000" (6)

1/4 (.250")
(A) Outside Diameter: .225/.220"

(B) Width: .225" .225/.176"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-250-1000	1.000" (1)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-2000	2.000" (2)
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-3000	3.000" (3)
PREFIX-250-3500	3.500" (3-1/2)
PREFIX-250-4000	4.000" (4)
PREFIX-250-4500	4.500" (4-1/2)
PREFIX-250-5000	5.000" (5)
PREFIX-250-6000	6.000" (6)

5/16 (.313")
(A) Outside Diameter: .280/.275"

(B) Width: .280" .280/.220"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-312-1000	1.000" (1)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-2000	2.000" (2)
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-4000	4.000" (4)
PREFIX-312-5000	5.000" (5)
PREFIX-312-6000	6.000" (6)

3/8 (.375")
(A) Outside Diameter: .335/.329"

(B) Width: .335" .335/.263"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-2000	2.000" (2)
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-3000	3.000" (3)
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-4000	4.000" (4)
PREFIX-375-5000	5.000" (5)
PREFIX-375-6000	6.000" (6)

7/16 (.438")
(A) Outside Diameter: .406/.400"

(B) Width: .406" .406/.320"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-437-4000	4.000" (4)

1/2 (.500")
(A) Outside Diameter: .473/.467"

(B) Width: .473" .473/.373"
(L) <1" is +030/-.030" >=1" is +.060/-.060"

ITEM NUMBER	(L) EFFECTIVE LENGTH
PREFIX-500-6000	6.000" (6)

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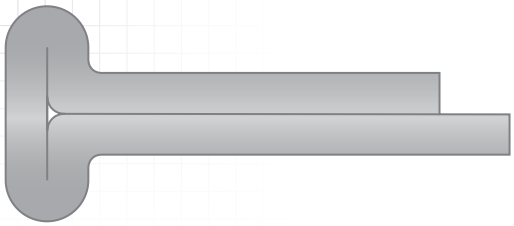
T-HEAD

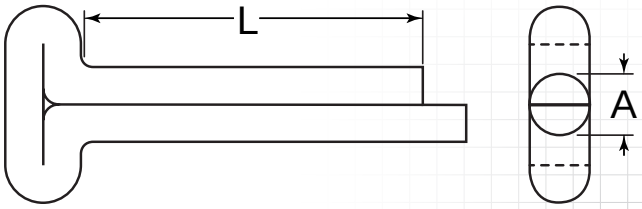
DESCRIPTION

A T-head cotter pin has the same design functions of a standard cotter pin. However the head is flattened to a "T" shape for applications where limited clearance is required.

HOW TO IDENTIFY

1. Verify two-prong pin with flattened "T" head.
2. Measure the diameter of the combined prongs (A).
3. Measure the length of the shorter prong (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CPT = CARBON STEEL, ZINC CLEAR
CPTP = CARBON STEEL, PLAIN*
CPTS = STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) EFFECTIVE LENGTH
PREFIX-062-0500	.063" (1/16)	.500" (1/2)
PREFIX-062-0750	.063" (1/16)	.750" (3/4)
PREFIX-093-0625	.094" (3/32)	.625" (5/8)
PREFIX-125-0500	.125" (1/8)	.500" (1/2)
PREFIX-125-1000	.125" (1/8)	1.000" (1)
PREFIX-218-1500	.219" (7/32)	1.500" (1-1/2)

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) EFFECTIVE LENGTH
PREFIX-250-1250	.250" (1/4)	1.250" (1-1/4)
PREFIX-250-2000	.250" (1/4)	2.000" (2)
PREFIX-250-2250	.250" (1/4)	2.250" (2-1/4)
PREFIX-312-1000	.313" (5/16)	1.000" (1)
PREFIX-312-1000	.313" (5/16)	1.000" (1)
PREFIX-375-1000	.375" (3/8)	1.000" (1)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

CPT • CPTP • CPTS

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Machine Keys & Keystock


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Shafting & Shaft Collars


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WEDGEFAST

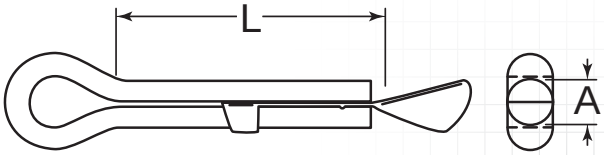
DESCRIPTION

Designed with a unique mechanism that allows the pin to be permanently self-locking. The inner tab stays in place when hammered, while the cotter pin slides down over the tab forcing the prongs to open and lock.

HOW TO IDENTIFY

1. Verify cotter pin with sliding tab insert.
2. Measure outside diameter (A).
3. Measure effective length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

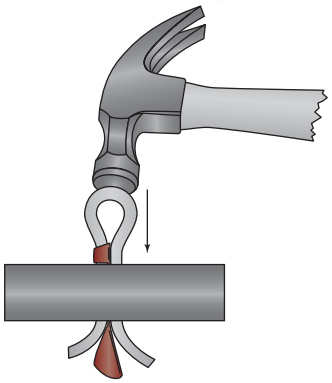
CPW = CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) EFFECTIVE LENGTH
5/16 (.313") (A) Outside Diameter	
CPW-312-2000	2.000" (2)
CPW-312-2500	2.500" (2-1/2)
CPW-312-3000	3.000" (3)
CPW-312-3500	3.500" (3-1/2)

ITEM NUMBER	(L) EFFECTIVE LENGTH
3/8 (.375") (A) Outside Diameter	
CPW-375-2500	2.500" (2-1/2)
CPW-375-3000	3.000" (3)

APPLICATION



PRONGS SPREAD APART FOR A PERMANENT FIT

THE MATING PART HOLE DIAMETER MUST BE ONLY SLIGHTLY LARGER THAN THE OUTSIDE DIAMETER OF THE PIN TO KEEP THE CLASP FROM SLIDING THROUGH

PEOPLE WHO BOUGHT THESE ALSO BOUGHT



CLEVIS PINS

Page 24



UNIVERSAL CLEVIS PINS

Page 32



HEADLESS CLEVIS PINS

Page 35



GROOVED HEADLESS CLEVIS PINS

Page 37

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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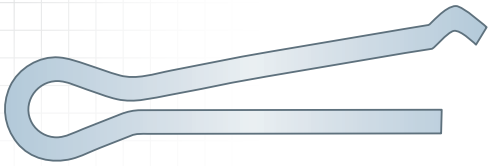
CLINCH

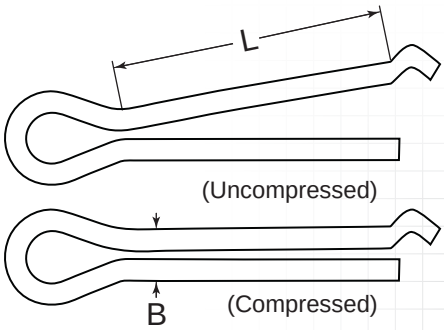
DESCRIPTION

This hook-ended cotter pin is designed so that the prongs must be compressed together to install it. The spring tension holds the hooked end of the longer prong against the hole edge to keep the pin in place.

HOW TO IDENTIFY

1. Verify cotter pin with hooked end prong.
2. Measure outside diameter (B).
3. Measure effective length (L).
4. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
CLNP	=	CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) EFFECTIVE LENGTH
3/16 (.188") (B) Outside Diameter	
CLNP-187-1000	1.000" (1)
CLNP-187-1250	1.250" (1-1/4)
CLNP-187-1500	1.500" (1-1/2)
CLNP-187-1750	1.750" (1-3/4)
CLNP-187-2000	2.000" (2)
CLNP-187-2250	2.250" (2-1/4)
CLNP-187-2500	2.500" (2-1/2)
CLNP-187-2750	2.750" (2-3/4)
CLNP-187-3000	3.000" (3)
1/4 (.250") (B) Outside Diameter	
CLNP-250-1000	1.000" (1)
CLNP-250-1250	1.250" (1-1/4)
CLNP-250-1500	1.500" (1-1/2)
CLNP-250-1750	1.750" (1-3/4)
CLNP-250-2000	2.000" (2)
CLNP-250-2250	2.250" (2-1/4)
CLNP-250-2500	2.500" (2-1/2)
CLNP-250-2750	2.750" (2-3/4)
CLNP-250-3000	3.000" (3)

ITEM NUMBER	(L) EFFECTIVE LENGTH
5/16 (.313") (B) Outside Diameter	
CLNP-312-1000	1.000" (1)
CLNP-312-1250	1.250" (1-1/4)
CLNP-312-1500	1.500" (1-1/2)
CLNP-312-1750	1.750" (1-3/4)
CLNP-312-2000	2.000" (2)
CLNP-312-2250	2.250" (2-1/4)
CLNP-312-2500	2.500" (2-1/2)
CLNP-312-2750	2.750" (2-3/4)
CLNP-312-3000	3.000" (3)
3/8 (.375") (B) Outside Diameter	
CLNP-375-1000	1.000" (1)
CLNP-375-1250	1.250" (1-1/4)
CLNP-375-1500	1.500" (1-1/2)
CLNP-375-1750	1.750" (1-3/4)
CLNP-375-2000	2.000" (2)
CLNP-375-2250	2.250" (2-1/4)
CLNP-375-2500	2.500" (2-1/2)
CLNP-375-2750	2.750" (2-3/4)
CLNP-375-3000	3.000" (3)

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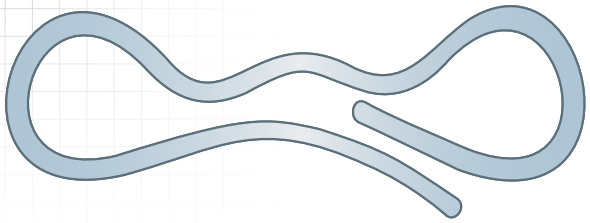
BOW TIE

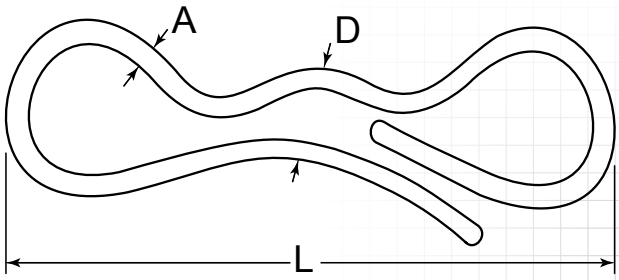
DESCRIPTION

Unique double-end design allows pin to be pulled or pushed into hole from either side. Dual ends provide stronger locking mechanism vs. conventional styles.

HOW TO IDENTIFY

1. Verify cotter pin with double-end design.
2. Measure wire diameter (A).
3. Measure application shaft size.
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

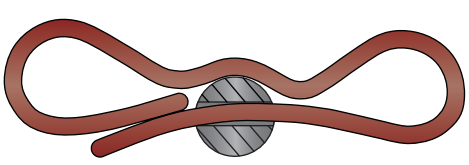
BTC = SPRING WIRE, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) WIRE DIAMETER	FITS SHAFT SIZE	(D) WIDTH	(L) OVERALL LENGTH
BTC-072-0250	.072"	1/4"	.260"	1.375" (1-3/8)
BTC-091-0312	.091"	5/16" to 3/8"	.305"	1.875" (1-7/8)
BTC-120-0437	.120"	7/16" to 1/2"	.430"	2.750" (2-3/4)
BTC-120-0625	.120"	5/8"	.490"	2.750" (2-3/4)
BTC-120-0750	.120"	3/4"	.545"	2.750" (2-3/4)
BTC-148-0625	.148"	5/8"	.540"	3.578" (3-37/64)
BTC-148-0750	.148"	3/4"	.600"	3.578" (3-37/64)
BTC-177-1000	.177"	1"	.762"	4.578" (4-37/64)

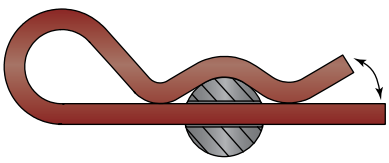
BOW TIE VS. BRIDGE PIN

BOW TIE COTTER PIN



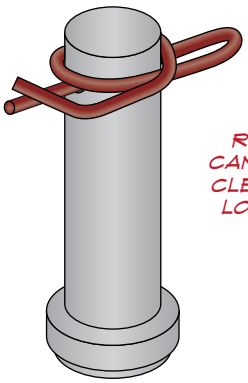
SECURE TWO-SIDED FIT

BRIDGE PIN



OPEN ENDED FIT WHICH COULD POTENTIALLY SEPARATE

APPLICATION



RING COTTERS CAN BE USED WITH CLEVIS PINS AS A LOCKING AGENT

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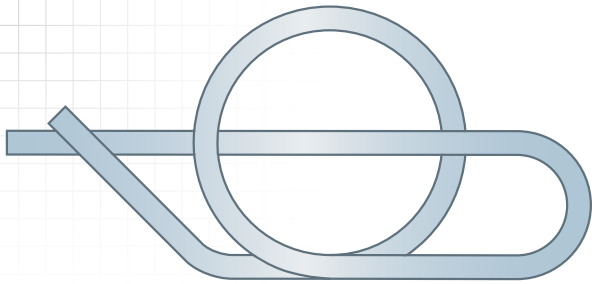
RING

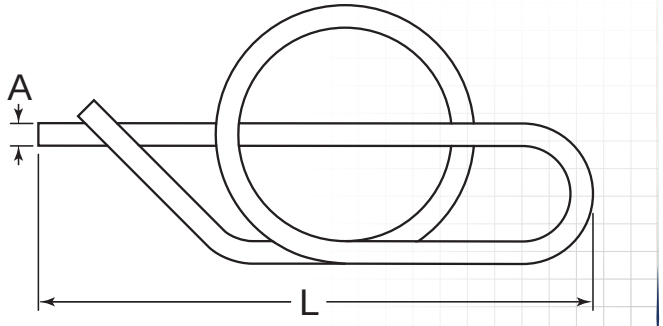
DESCRIPTION

A single-action bent wire form that loops around pin end while the straight end locks into position. The loop adds strength and security to the lock.

HOW TO IDENTIFY

1. Verify cotter pin with loop wire design.
2. Measure wire diameter (A).
3. Measure application shaft size.
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

RC = CARBON STEEL, ZINC CLEAR
RCSS = STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	FITS SHAFT SIZE	(A) WIRE DIAMETER	(L) OVERALL LENGTH	PERFORMANCE GRADE
Carbon Steel, Zinc Clear				
RC-0250-H	1/4"	.041"	.844" (27/32)	Heavy
RC-0250-XH	1/4"	.054"	.936"	Extra-Heavy
RC-0312	5/16"	.047" (3/64)	1.044"	Regular
RC-0375	3/8"	.054"	1.214"	Regular
RC-0500	1/2"	.062"	1.420"	Regular
RC-0500-H	1/2"	.072"	1.456"	Heavy
RC-0625	5/8"	.072"	1.690"	Regular
RC-0750	3/4"	.080"	2.081"	Regular
RC-0750-H	3/4"	.091"	2.166"	Heavy
RC-0875-H	7/8"	.105"	2.506"	Heavy
RC-1000	1"	.105"	2.756"	Regular
Stainless Steel, Plain				
RCSS-0250-H	1/4"	.041"	.844" (27/32)	Standard
RCSS-0312	5/16"	.047" (3/64)	1.044"	Standard
RCSS-0375	3/8"	.054"	1.214"	Standard
RCSS-0500-H	1/2"	.072"	1.456"	Heavy
RCSS-0625	5/8"	.072"	1.690"	Standard
RCSS-0750-H	3/4"	.091"	2.166"	Heavy

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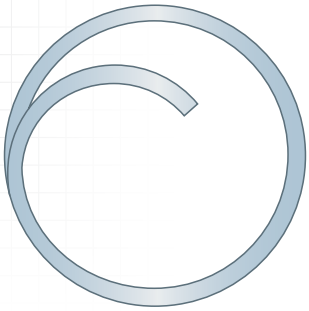
CIRCLE

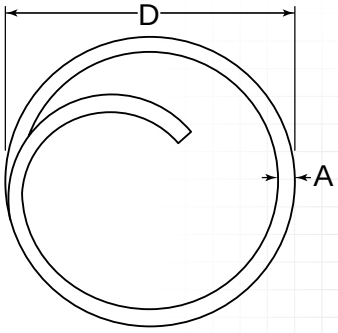
DESCRIPTION

The end of this pin is turned toward the inside of the circle making it safe to use on fabric or rubber applications where a point would not be desirable.

HOW TO IDENTIFY

1. Verify circular cotter pin with end turned in.
2. Measure wire diameter (A).
3. Measure outside diameter (D).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

CC = CARBON STEEL, ZINC CLEAR
CCP = CARBON STEEL, PLAIN*
CCS = STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

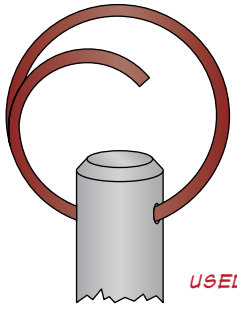
ITEM NUMBER	(A) WIRE DIAMETER	(D) OUTSIDE DIAMETER	FITS SHAFT SIZE
PREFIX-048-0625	.048"	.625" (5/8)	3/16" to 1/4"
PREFIX-048-0750	.048"	.750" (3/4)	1/4" to 5/16"
PREFIX-060-1000	.060"	1.000" (1)	3/8" to 7/16"
PREFIX-062-1000	.063" (1/16)	1.000" (1)	3/8" to 7/16"
PREFIX-072-1125	.072"	1.125" (1-1/8)	7/16" to 1/2"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

CC • CCP • CCS

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

APPLICATION



USED TO SECURE A CLEVIS PIN

RETAINING RINGS CATALOG





SNAP RINGS



CLIPS



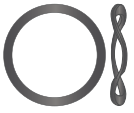
SPIRAL RINGS



WIRE RINGS



PUSH-ON RINGS



WAVE SPRINGS

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

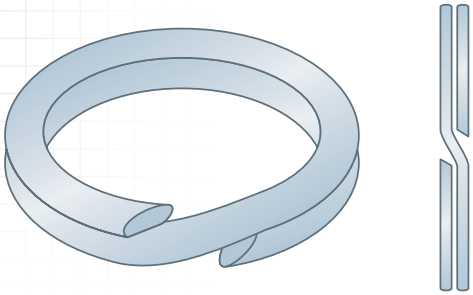
SPLIT RING

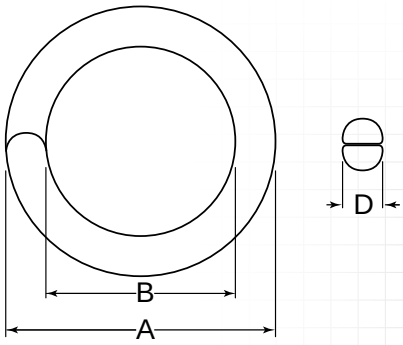
DESCRIPTION

Heavy duty wire with an off-set or "kickout" to ease installation. Generally made from heavier gauge wire than circle cotters.

HOW TO IDENTIFY

1. Verify circular loop with offset.
2. Measure inside diameter (B).
3. Measure outside diameter (A).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

SRN	=	SPRING TEMPERED STEEL, NICKEL
SRZ	=	SPRING TEMPERED STEEL, ZINC CLEAR
SRS	=	STAINLESS STEEL, PLAIN
SRS6	=	316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(B) INSIDE DIAMETER	(A) OUTSIDE DIAMETER	(D) WIDTH
PREFIX-0107	.107"	.165"	.029"
PREFIX-0128	.128"	.190"	.031" (1/32)
PREFIX-0150	.150"	.220"	.035"
PREFIX-0174	.174"	.254"	.040"
PREFIX-0212	.212"	.292"	.040"
PREFIX-0242	.242"	.334"	.047" (3/64)
PREFIX-0288	.288"	.380"	.047" (3/64)
PREFIX-0328	.328" (21/64)	.430"	.051"
PREFIX-0382	.382"	.484" (31/64)	.051"
PREFIX-0428	.428"	.542"	.057"
PREFIX-0460	.460"	.604"	.072"
PREFIX-0526	.526"	.670"	.072"
PREFIX-0596	.596"	.740"	.072"
PREFIX-0707	.707"	.875"	.084"

ITEM NUMBER	(B) INSIDE DIAMETER	(A) OUTSIDE DIAMETER	(D) WIDTH
PREFIX-0802	.802"	.970"	.084"
PREFIX-0932	.932"	1.100"	.084"
PREFIX-0956	.956"	1.100"	.072"
PREFIX-1062	1.063" (1-1/16)	1.250" (1-1/4)	.094" (3/32)
PREFIX-1159	1.159"	1.375" (1-3/8)	.108"
PREFIX-1264	1.264"	1.480"	.108"
PREFIX-1396	1.396"	1.640"	.122"
PREFIX-1635	1.635"	1.865"	.115"
PREFIX-2016	2.016" (2-1/64)	2.240"	.112"
PREFIX-0392	.392"	.484" (31/64)	.040"
PREFIX-0740	.740"	.990"	.115"
PREFIX-2832	2.832"	3.063" (3-1/16)	.175"
PREFIX-1187	1.188" (1-3/16)	1.375" (1-3/8)	.188" (3/16)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

SRN • SRZ • SRS • SRS6

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

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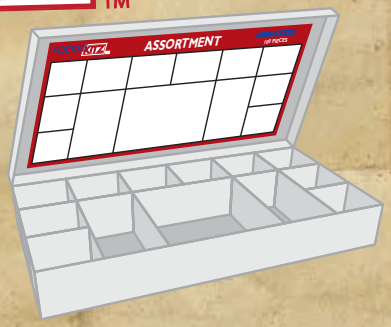
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Standard Imperial DISP-CPS550

550 Pieces
18-8 Stainless Steel, Plain

Parts Included	Size	Quantity
CPS-062-1000	1/16" x 1"	125
CPS-093-0750	3/32" x 3/4"	80
CPS-093-1000	3/32" x 1"	125
CPS-093-1500	3/32" x 1-1/2"	70
CPS-125-1000	1/8" x 1"	60
CPS-125-1500	1/8" x 1-1/2"	50
CPS-125-2000	1/8" x 2"	40

Standard Imperial DISP-CP750

750 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CP-062-1000	1/16" x 1"	320
CP-093-1000	3/32" x 1"	150
CP-093-1750	3/32" x 1-3/4"	90
CP-125-1250	1/8" x 1-1/4"	95
CP-125-2000	1/8" x 2"	60
CP-156-2500	5/32" x 2-1/2"	35

Standard Imperial DISP-CP1500

1500 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CP-062-0750	1/16" x 3/4"	350
CP-078-1000	5/64" x 1"	140
CP-093-1000	3/32" x 1"	200
CP-093-1750	3/32" x 1-3/4"	150
CP-109-0500	7/64" x 1/2"	275
CP-125-1250	1/8" x 1-1/4"	180
CP-125-2000	1/8" x 2"	125
CP-156-2500	5/32" x 2-1/2"	80

Ring Cotters Imperial DISP-RC100

100 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
RC-0250-H	1/4"	20
RC-0312	5/16"	20
RC-0375	3/8"	20
RC-0500	1/2"	20
RC-0625	5/8"	10
RC-0750	3/4"	10

Standard Imperial DISP-CP100

120 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CP-093-0750	3/32" x 3/4"	10
CP-093-1000	3/32" x 1"	10
CP-093-1500	3/32" x 1-1/2"	4
CP-125-1000	1/8" x 1"	10
CP-125-1250	1/8" x 1-1/4"	10
CP-125-1500	1/8" x 1-1/2"	8
CP-156-1500	5/32" x 1-1/2"	4
CP-187-1000	3/16" x 1"	10
CP-187-1500	3/16" x 1-1/2"	10
CP-187-2000	3/16" x 2"	8
CP-250-1500	1/4" x 1-1/2"	6
CP-250-2000	1/4" x 2"	6
CP-312-2000	5/16" x 2"	2
CP-312-2500	5/16" x 2-1/2"	2

Standard Metric DISP-CPMZ850

850 Pieces
Carbon Steel, Zinc Clear

Parts Included	Size	Quantity
CPMZ-016-010	1.6 mm x 10 mm	100
CPMZ-016-016	1.6 mm x 16 mm	100
CPMZ-016-025	1.6 mm x 25 mm	100
CPMZ-020-012	2 mm x 12 mm	100
CPMZ-020-020	2 mm x 20 mm	100
CPMZ-020-032	2 mm x 32 mm	100
CPMZ-032-016	3.2 mm x 16 mm	50
CPMZ-032-025	3.2 mm x 25 mm	50
CPMZ-032-032	3.2 mm x 32 mm	25
CPMZ-032-040	3.2 mm x 40 mm	25
CPMZ-040-020	4 mm x 20 mm	20
CPMZ-040-036	4 mm x 36 mm	20
CPMZ-040-050	4 mm x 50 mm	10
CPMZ-050-032	5 mm x 32 mm	20
CPMZ-050-040	5 mm x 40 mm	10
CPMZ-050-045	5 mm x 45 mm	10
CPMZ-050-056	5 mm x 56 mm	10

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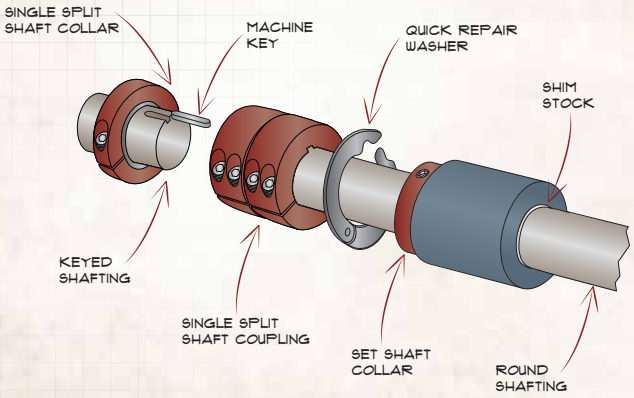
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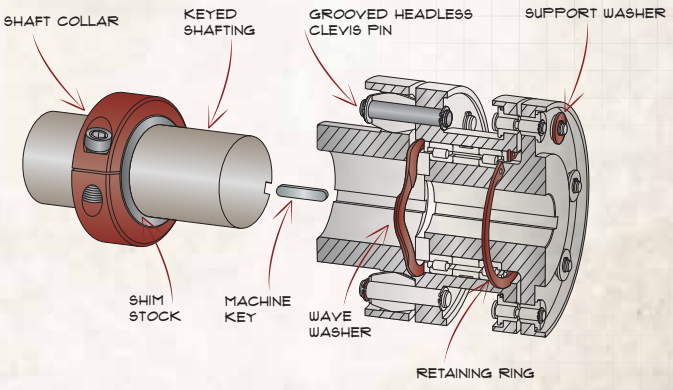
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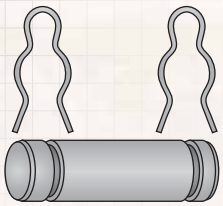
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HITCH PIN CLIP FEATURES

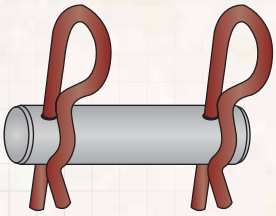
Hitch pin clips, often referred to as bridge pins, are the mating part to many types of pins, and should be carefully considered and designed into the application. Most hitch pin clips are manufactured from spring wire or stainless steel; however, specialty materials such as marine grade 316 stainless steel can also be used. In designing an application, the engineer should consider factors such as manufacturing cost, integrity of the locking mechanism, and whether or not a tether should be used.

DESIGN CONSIDERATIONS

MANUFACTURING COSTS



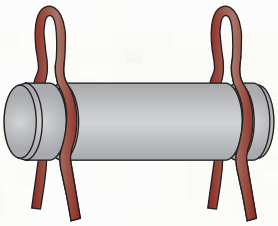
GROOVED (EXTERNAL) DESIGN WITH HAIR PIN



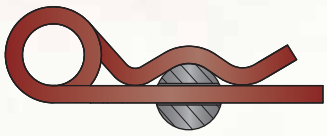
HOLED (INTERNAL) DESIGN WITH BRIDGE PIN

GENERALLY, IT COSTS LESS TO TURN A GROOVE THAN TO DRILL A HOLE

INTEGRITY

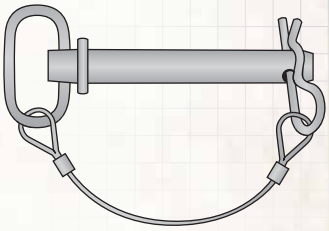


A LATERAL FORCE COULD KNOCK ONE, OR BOTH, OF THE HAIR PINS OUT OF THE GROOVE

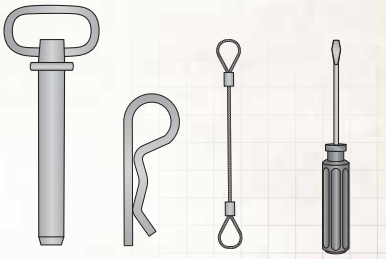


A DOUBLE-LOOPED BRIDGE PIN USES A COIL TO DISTRIBUTE STRESSES AND IS MORE DURABLE THAN A CONVENTIONAL BRIDGE PIN

COMPONENTS



TETHERS PREVENT SEPARATION OF THE PIN FROM THE CLIP...



BUT AT A HIGHER COST

HITCH PIN CLIPS ARE INTERCHANGEABLE IN MANY APPLICATIONS



Bridge Pins
Page 106



Cotter Pins
Page 82



Ring Cotter Pins
Page 97



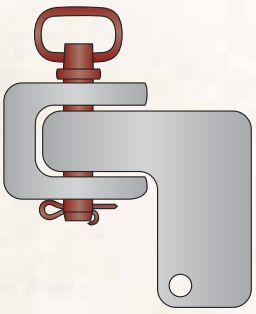
Grip Clips
Page 118



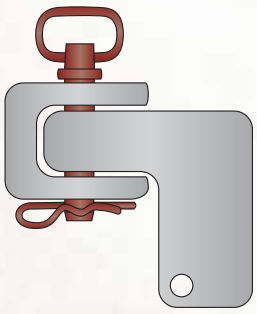
Bow Tie Cotter Pins
Page 96



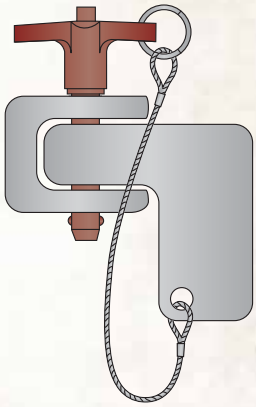
Circle Cotter Pins
Page 98



HITCH PIN FASTENED WITH COTTER PIN



HITCH PIN FASTENED WITH BRIDGE PIN



TETHERED T-HANDLE POSITIVE LOCK PIN

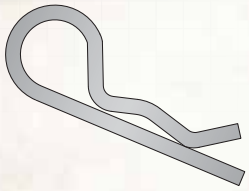
Ease of use vs. cost should be considered when evaluating pin alternatives. Cotter pins are economical but are not easily removed and reused. Bridge pins are easily installed, reusable, and can accomodate varying diameters. Positive lock pins do not require a mating pin and are quickly installed.

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HITCH PIN CLIP TYPES

BRIDGE

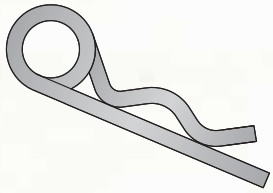
Bridge pins are the most common mating part to clevis and hitch pins. Available in steel zinc and stainless steel, these pins are easily tethered to prevent loss.



PAGE 106

DOUBLE-LOOP

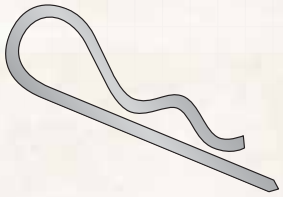
Heavy duty version of a bridge pin that uses a double loop to distribute stresses evenly. Lasts longer and possesses a wider application range.



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LOCK

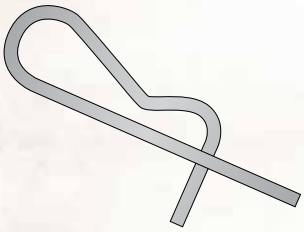
The only pin in this category manufactured to a specification (AA55487). These stainless steel pins come in standard and variable versions.



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GRIP

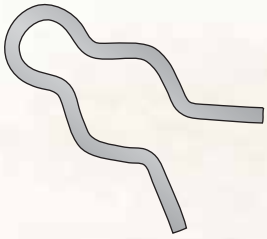
As this pin is inserted into the mating pin the bent leg snaps over the mating pin's tail providing additional security.



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HAIR

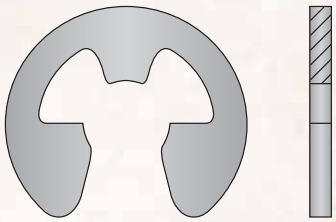
Similar action as bridge pins except hair pins are retained in a groove instead of a hole.



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E-CLIP

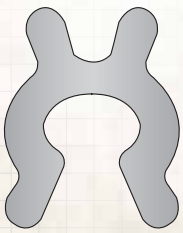
Stamped clips for deep grooves with three prongs that yield high thrust load capacity. Excellent for applications where lateral movement is present.



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X-RING

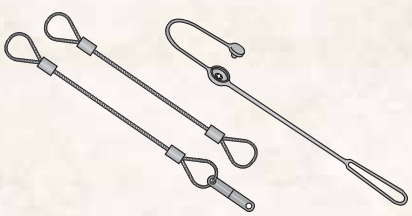
Externally applied retainer that is "pinched" into the groove of a shaft or pin using pliers. Suitable for automated environments due to their low profile.



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TETHER

Nylon, plain steel cable, or nylon coated wire cables used to attach a pin to its mating part or application to prevent loss. Also known as lanyards.



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HITCH PIN CLIPS

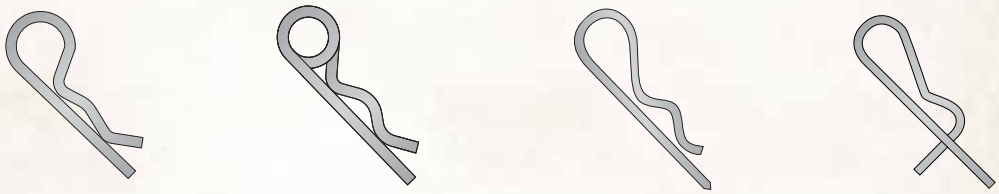
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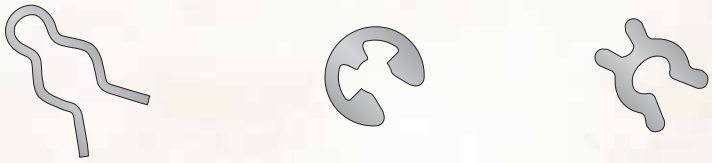
Hitch pin clips are simple and extremely versatile designed wire forms used as locking devices. Hairpins and X-rings accommodate wide groove diameter variations. They are reusable and cost effective. Commonly used with clevis pins, hitch pins, and shafts.



	BRIDGE	DOUBLE-LOOP	LOCK	GRIP
COMMON NAMES	Hitch Pin Clip, Hair Pin Cotter, Cotter Key	Bridge Pin, Ring Pin	None known.	Twist Clip, Self-locking Pin
APPLICABLE STANDARDS	None known.	None known.	AA55487. This specification used by the aerospace industry.	None known.
FABRICATION	Wire formation. Part requires specialized tooling. Heat treatment for spring tempering.	Wire formation. Part requires specialized tooling. Heat treatment for spring tempering.	Wire formation. Part requires specialized tooling. Heat treatment for spring tempering.	Wire formation. Part requires specialized tooling. Heat treatment for spring tempering.
HOW TO IDENTIFY	Very difficult; silhouettes are best. Otherwise; manufacturer number or use nominal wire diameter × total length.	Very difficult; silhouettes are best. Otherwise; manufacturer number or use nominal wire diameter × total length.	Limited size availability. Each wire diameter has a specific length.	Only four common sizes available. Identify by wire diameter × length.
COMMON USES	Specialized retention of pins such as clevis pins and hitch pins that use a hole for attachment.	Heavier duty version of a bridge pin. Double loop coil distributes more locking force on the pin.	Specialized retention of pins such as clevis pins and hitch pins that use a hole for attachment. Specified for aerospace usage.	Bent leg snaps over mating pin to lock in place. Intended for light to medium duty applications.
COMMENTS	Easier to remove and reuse than a cotter pin, and more heavy duty. Ring-like end serves as a handle for hand removal and installation. Identification can be challenging.	Longer life span, well suited for very high use applications. Fewer sizes available.	Manufactured from marine grade 316 stainless steel. Well suited for extreme environments.	Bent leg is an easy self-locking device.

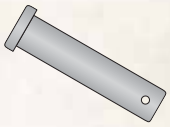
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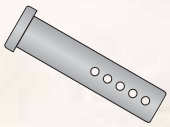


	HAIR	E-CLIP	X-RING
COMMON NAMES	Hair Pin Clip, Hitch Pin Clip, Retaining Pin	None known.	Crimp Ring Retainer, Snap Ring, Pinch Ring, Clinch Ring
APPLICABLE STANDARDS	None known.	None known.	None known.
FABRICATION	Wire formation. Part requires specialized tooling. Heat treatment for spring tempering.	Stamped part.	Stamped part.
HOW TO IDENTIFY	Very difficult; silhouettes are best. Otherwise; manufacturer number or use nominal wire diameter × total length.	Circular clip with three inward facing tabs.	Sized for a standard retaining ring groove; size is identified by the shaft on which the part is applied.
COMMON USES	Medium duty and more specialized retention of clevis pins and hitch pins, or any pin that uses a groove for attachment.	Nearly universal. Can be found in most applications where a pin is used as an axle.	Used on grooved shafts where removal using common pliers is a consideration. Not recommended for reuse after removal.
COMMENTS	Not as heavy duty or precise as an E-clip or snap ring. More common with use on headless pins.	Extremely efficient in automated assembly. Ideal for applications with lateral forces. Greater thrust load ratings than wire rings.	More common on original equipment. Design is somewhat dated.

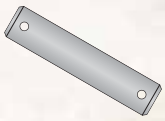
USED WITH



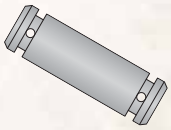
CLEVIS PINS
Page 24



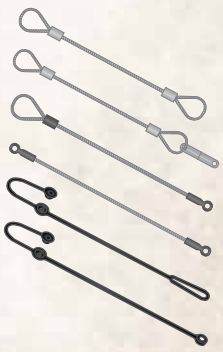
UNIVERSAL CLEVIS PINS
Page 32



HEADLESS CLEVIS PINS
Page 35



GROOVED HEADLESS CLEVIS PINS
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STEEL & NYLON TETHERS
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BRIDGE – IMPERIAL

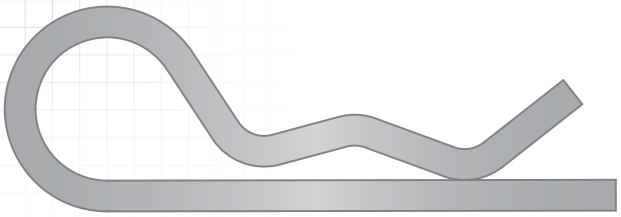
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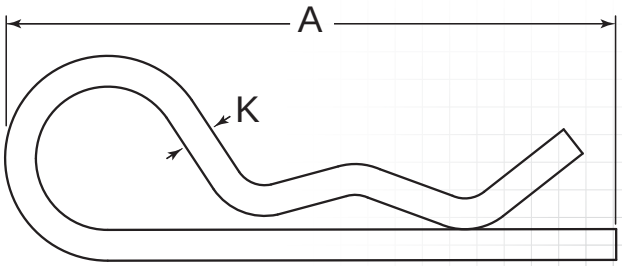
Bridge pins are simple and extremely versatile wire forms used as locking devices. They are reusable and cost effective. Commonly used on clevis pins and shafts.

HOW TO IDENTIFY

1. Verify bridge pin shaped wire form.
2. Measure wire diameter (K).
3. Measure length (A).
4. Find the part in the chart below.
   Or:
   Compare to part silhouette in chart below.

SEE IMAGES BELOW FOR EXACT CONFIGURATIONS





PREFIX MATERIAL/FINISH

BP	=	MB SPRING WIRE, ZINC CLEAR
BPP	=	MB SPRING WIRE, PLAIN*
BPS	=	302/304 STAINLESS STEEL, PLAIN
BPS6	=	316 STAINLESS STEEL, PLAIN
BPY	=	MB SPRING WIRE, ZINC YELLOW

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM #	PREFIX-141	PREFIX-131	PREFIX-121	PREFIX-165	PREFIX-231	PREFIX-2101	PREFIX-145	PREFIX-226	PREFIX-112
(K) WIRE DIA.	.026"	.026"	.026"	.028"	.028"	.030"	.032"	.032"	.032"
(A) LENGTH	.344" (11/32)	.469" (15/32)	.484" (31/64)	.484" (31/64)	.600"	.594" (19/32)	.359" (23/64)	.438" (7/16)	.563" (9/16)
EYE DIA.	–	–	–	–	.094" (3/32)	.179"	–	.078" (5/64)	–
FITS SHAFT	3/64"	5/64"	3/32"	3/32"	1/8" to 5/32"	1/8" to 3/16"	7/64"	7/64" to 9/64"	1/8"

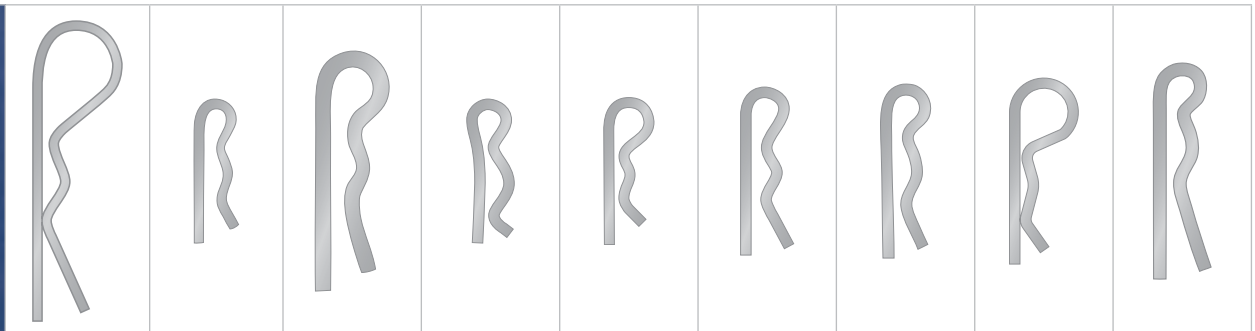
ITEM #	PREFIX-123	PREFIX-142	PREFIX-191	PREFIX-232	PREFIX-2102	PREFIX-223	PREFIX-111	PREFIX-144	PREFIX-221
(K) WIRE DIA.	.035"	.041"	.041"	.042"	.042"	.042"	.047" (3/64)	.047" (3/64)	.047" (3/64)
(A) LENGTH	.438" (7/16)	.625" (5/8)	1.000" (1)	.438" (7/16)	.938" (15/16)	1.000" (1)	.578" (37/64)	.578" (37/64)	.594" (19/32)
EYE DIA.	–	–	–	.080"	.258"	.250" (1/4)	–	–	.125" (1/8)
FITS SHAFT	1/16"	9/64"	5/64"	1/16" to 1/8"	3/16" to 1/4"	3/16" to 1/4"	3/32"	3/32"	1/8" to 3/16"

Images are approximate actual size.

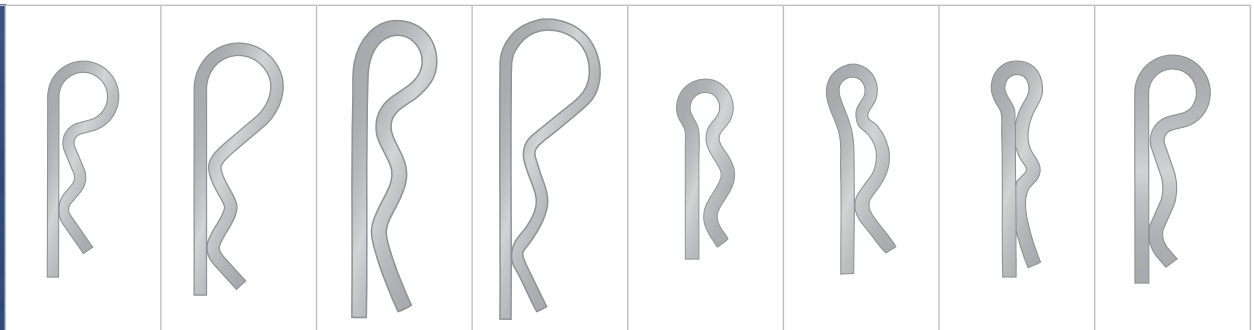
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*Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.

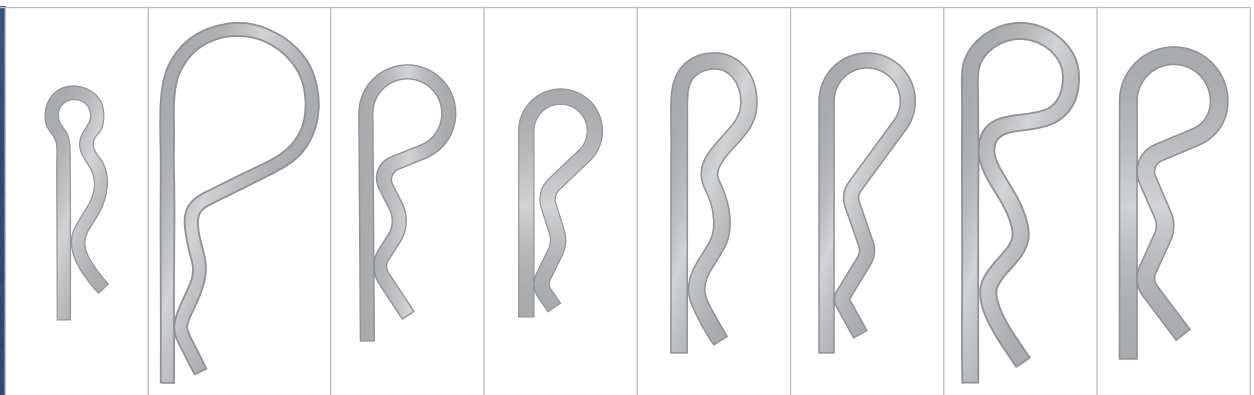
BRIDGE – IMPERIAL



ITEM #	PREFIX-224	PREFIX-148	PREFIX-119	PREFIX-236	PREFIX-178	PREFIX-237	PREFIX-120	PREFIX-0002	PREFIX-127
(K) WIRE DIA.	.047" (3/64)	.051"	.051"	.054"	.054"	.054"	.054"	.054"	.054"
(A) LENGTH	1.563" (1-9/16)	.750" (3/4)	1.250" (1-1/4)	.750" (3/4)	.766" (49/64)	.875" (7/8)	.906" (29/32)	.969" (31/32)	1.125" (1-1/8)
EYE DIA.	.313" (5/16)	–	–	.125" (1/8)	–	.141" (9/64)	–	.243"	–
FITS SHAFT	1/4" to 3/8"	–	7/64"	3/16" to 1/4"	3/32"	1/4" to 3/8"	9/64"	3/16" to 1/4"	9/64"



ITEM #	PREFIX-2103	PREFIX-222	PREFIX-114	PREFIX-218	PREFIX-179	PREFIX-225	PREFIX-118	PREFIX-0004
(K) WIRE DIA.	.059"	.062" (1/16)	.062" (1/16)	.062" (1/16)	.072"	.072"	.072"	.072"
(A) LENGTH	1.125" (1-1/8)	1.313" (1-5/16)	1.547" (1-35/64)	1.563" (1-9/16)	.938" (15/16)	1.094" (1-3/32)	1.125" (1-1/8)	1.188" (1-3/16)
EYE DIA.	.253"	.313" (5/16)	–	.375" (3/8)	–	.141" (9/64)	–	.249"
FITS SHAFT	1/4" to 5/16"	1/4" to 1/2"	7/32"	3/8" to 1/2"	5/32"	5/16" to 3/8"	7/64"	1/4" to 3/8"



ITEM #	PREFIX-189	PREFIX-239	PREFIX-2104	PREFIX-213	PREFIX-186	PREFIX-217	PREFIX-164	PREFIX-0005
(K) WIRE DIA.	.072"	.072"	.073"	.080"	.080"	.080"	.080"	.091"
(A) LENGTH	1.219" (1-7/32)	1.875" (1-7/8)	1.438" (1-7/16)	1.188" (1-3/16)	1.563" (1-9/16)	1.563" (1-9/16)	1.875" (1-7/8)	1.625" (1-5/8)
EYE DIA.	–	.625" (5/8)	.360"	.250" (1/4)	–	.375" (3/8)	–	.375" (3/8)
FITS SHAFT	11/64"	3/8" to 1/2"	5/16" to 3/8"	1/4" to 3/8"	7/32"	3/8" to 1/2"	1/4"	5/16" to 1/2"

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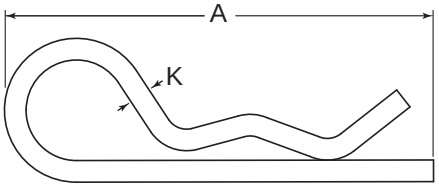
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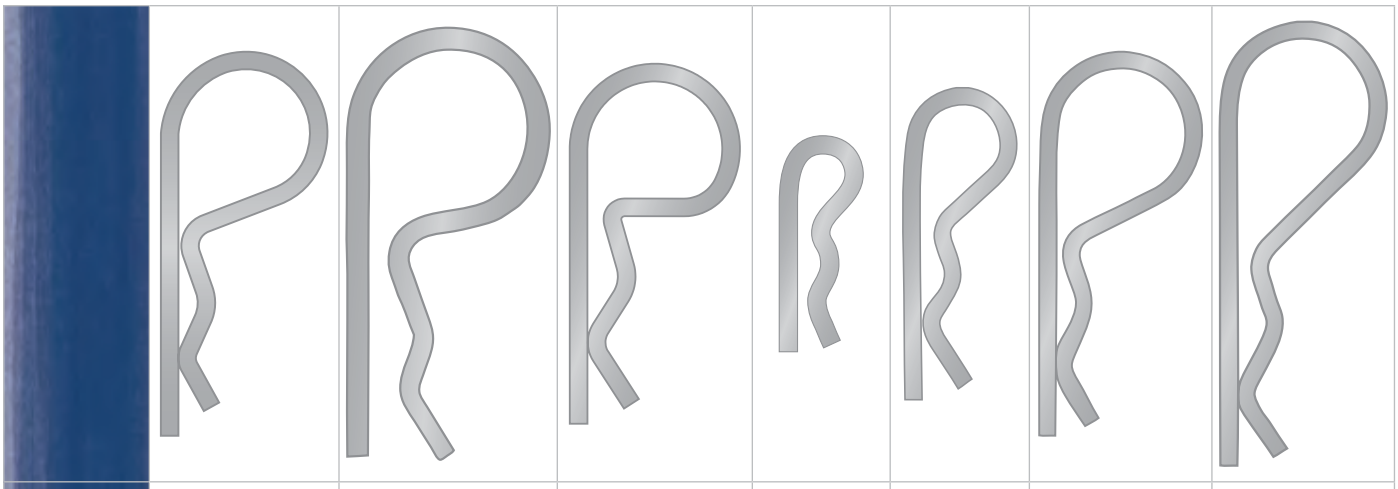
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BRIDGE – IMPERIAL

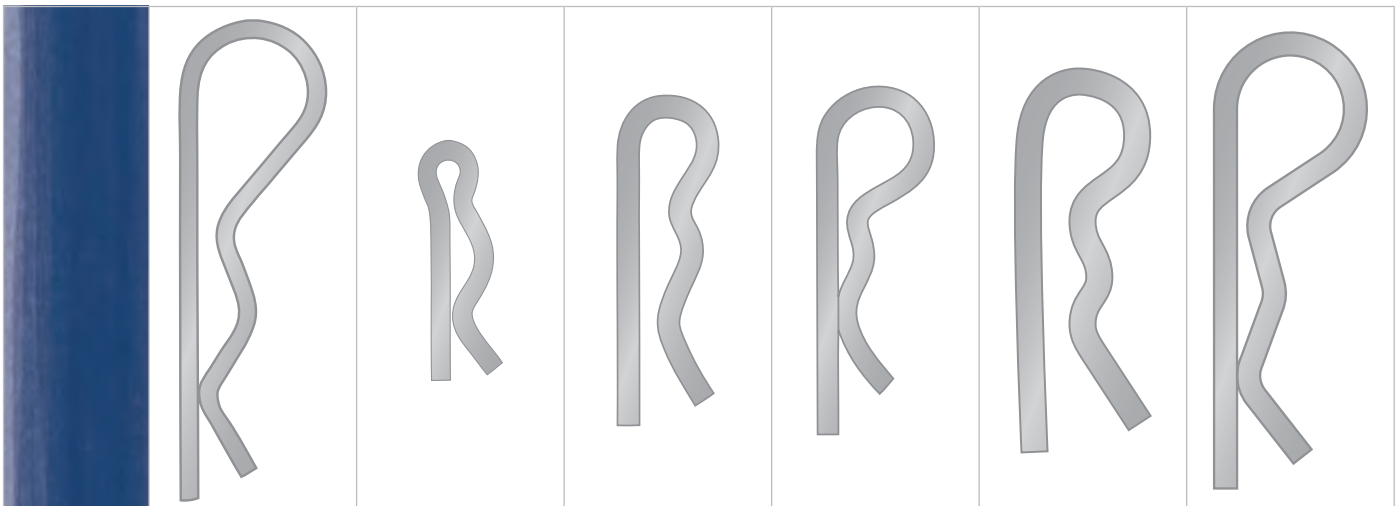
PREFIX		MATERIAL/FINISH
BP	=	MB SPRING WIRE, ZINC CLEAR
BPP	=	MB SPRING WIRE, PLAIN*
BPS	=	302/304 STAINLESS STEEL, PLAIN
BPS6	=	316 STAINLESS STEEL, PLAIN
BPY	=	MB SPRING WIRE, ZINC YELLOW

Material/finish combinations may not be available in all sizes.





ITEM #	PREFIX-0006	PREFIX-156	PREFIX-2105	PREFIX-233	PREFIX-203	PREFIX-228	PREFIX-207
(K) WIRE DIA.	.091"	.091"	.092"	.094" (3/32)	.094" (3/32)	.094" (3/32)	.094" (3/32)
(A) LENGTH	2.000" (2)	2.250" (2-1/4)	1.875" (1-7/8)	1.125" (1-1/8)	1.625" (1-5/8)	2.000" (2)	2.313" (2-5/16)
EYE DIA.	.670"	–	.700"	.250" (1/4)	.375" (3/8)	.625" (5/8)	.625" (5/8)
FITS SHAFT	3/8" to 1/2"	5/16"	3/8" to 7/16"	1/4" to 1/2"	1/4" to 1/2"	1/4" to 1/2"	1/4" to 5/8"



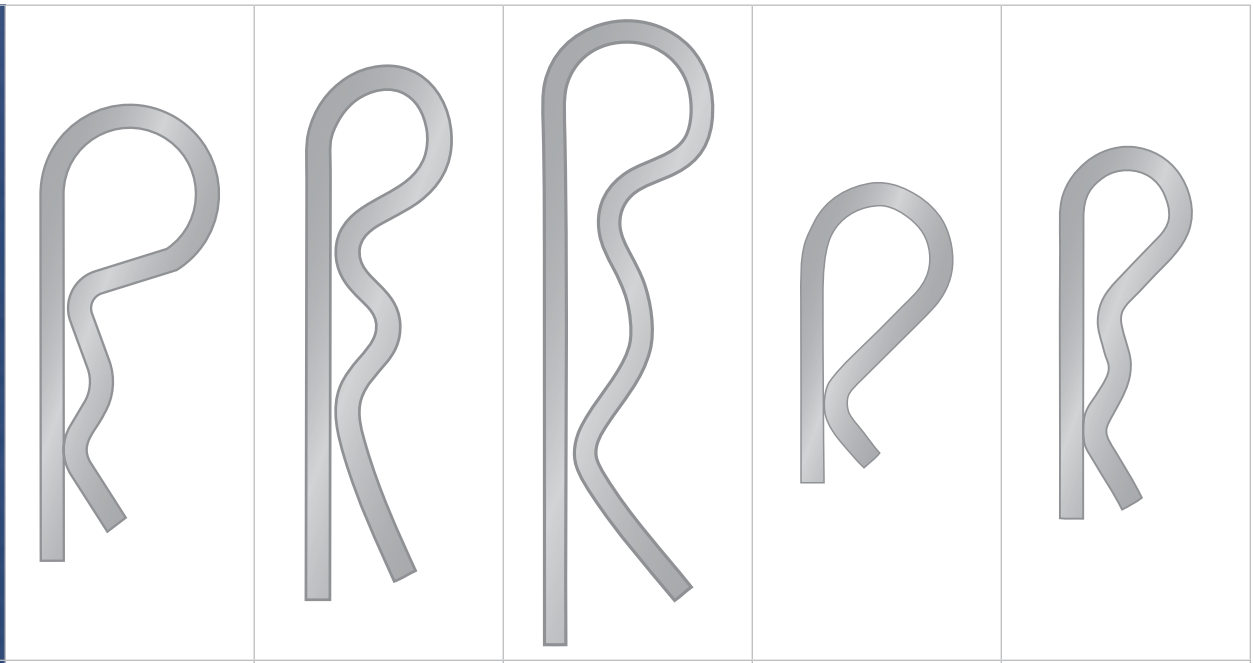
ITEM #	PREFIX-214	PREFIX-230	PREFIX-138	PREFIX-134	PREFIX-143	PREFIX-0008
(K) WIRE DIA.	.094" (3/32)	.105"	.120"	.120"	.120"	.120"
(A) LENGTH	2.500" (2-1/2)	1.250" (1-1/4)	1.719" (1-23/32)	1.813" (1-13/16)	2.000" (2)	2.375" (2-3/8)
EYE DIA.	.563" (9/16)	.125" (1/8)	–	–	–	.547" (35/64)
FITS SHAFT	3/8" to 3/4"	5/16" to 3/8"	9/32"	1/8"	9/32"	1/2" to 9/16"

Images are approximate actual size.

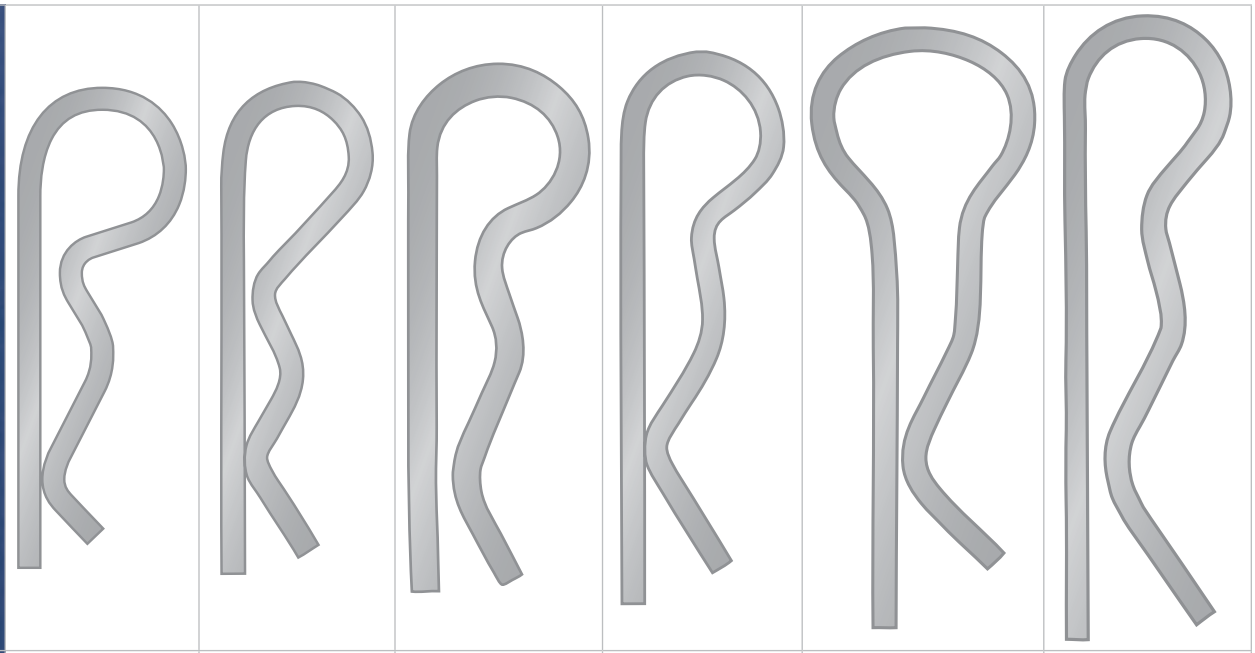
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BRIDGE – IMPERIAL



ITEM #	PREFIX-2106	PREFIX-135	PREFIX-140	PREFIX-215	PREFIX-216
(K) WIRE DIA.	.120"	.120"	.120"	.125" (1/8)	.125" (1/8)
(A) LENGTH	2.375" (2-3/8)	2.781" (2-25/32)	3.250" (3-1/4)	1.563" (1-9/16)	1.938" (1-15/16)
EYE DIA.	.702"	–	–	.500" (1/2)	.438" (7/16)
FITS SHAFT	1/2" to 5/8"	5/16"	13/32"	1/2" to 3/4"	1/2" to 3/4"



ITEM #	PREFIX-227	PREFIX-211	PREFIX-157	PREFIX-238	PREFIX-202	PREFIX-139
(K) WIRE DIA.	.125" (1/8)	.125" (1/8)	.125" (1/8)	.125" (1/8)	.125" (1/8)	.125" (1/8)
(A) LENGTH	2.500" (2-1/2)	2.563" (2-9/16)	2.750" (2-3/4)	2.875" (2-7/8)	3.125" (3-1/8)	3.250" (3-1/4)
EYE DIA.	.625" (5/8)	.563" (9/16)	–	.625" (5/8)	1.000" (1)	–
FITS SHAFT	5/8" to 7/8"	7/16" to 3/4"	13/32"	3/4" to 1-1/8"	3/4" to 1-1/8"	13/32"

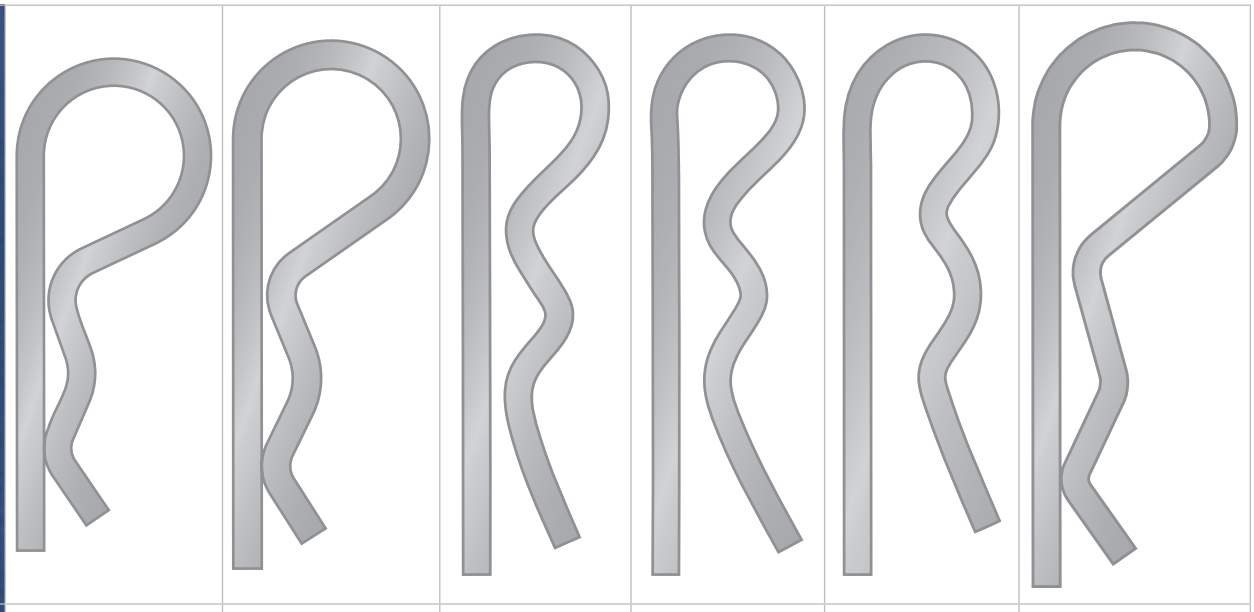
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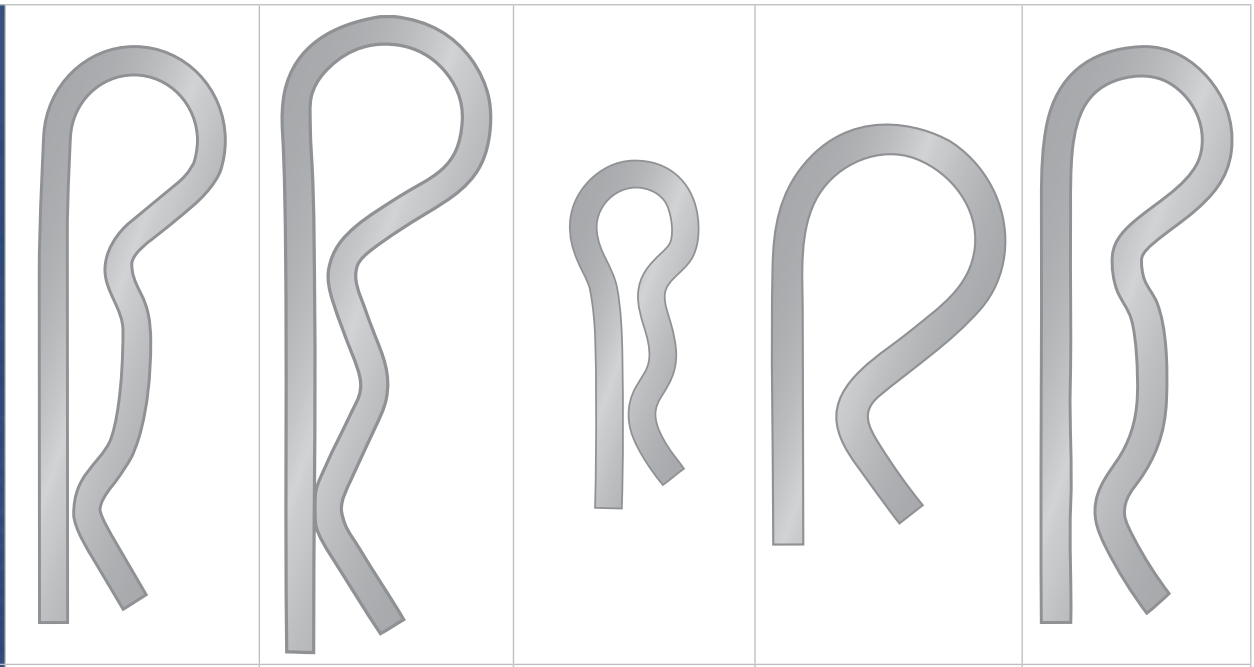
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BRIDGE – IMPERIAL



ITEM #	PREFIX-2107	PREFIX-0010	PREFIX-124	PREFIX-129	PREFIX-173	PREFIX-210
(K) WIRE DIA.	.148"	.148"	.148"	.148"	.148"	.148"
(A) LENGTH	2.563" (2-9/16)	2.750" (2-3/4)	2.813" (2-13/16)	2.813" (2-13/16)	2.813" (2-13/16)	2.938" (2-15/16)
EYE DIA.	.885"	.733"	–	–	–	.845"
FITS SHAFT	5/8" to 3/4"	5/8" to 7/8"	3/8"	27/64"	9/16"	5/8" to 1"



ITEM #	PREFIX-201	PREFIX-209	PREFIX-113	PREFIX-205	PREFIX-204
(K) WIRE DIA.	.148"	.148"	.156" (5/32)	.162"	.162"
(A) LENGTH	3.000" (3)	3.313" (3-5/16)	1.813" (1-13/16)	2.188" (2-3/16)	3.000" (3)
EYE DIA.	.500" (1/2)	.750" (3/4)	–	.875" (7/8)	.625" (5/8)
FITS SHAFT	1/2" x 5/8" to 5/8" x 1"	3/4" to 1-1/8"	13/64"	7/8" to 1-1/16"	1/2" x 3/4" to 5/8" x 1"

Images are approximate actual size.

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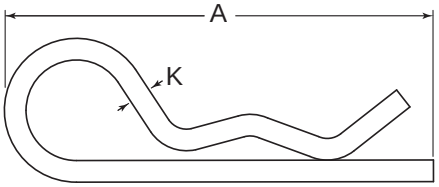
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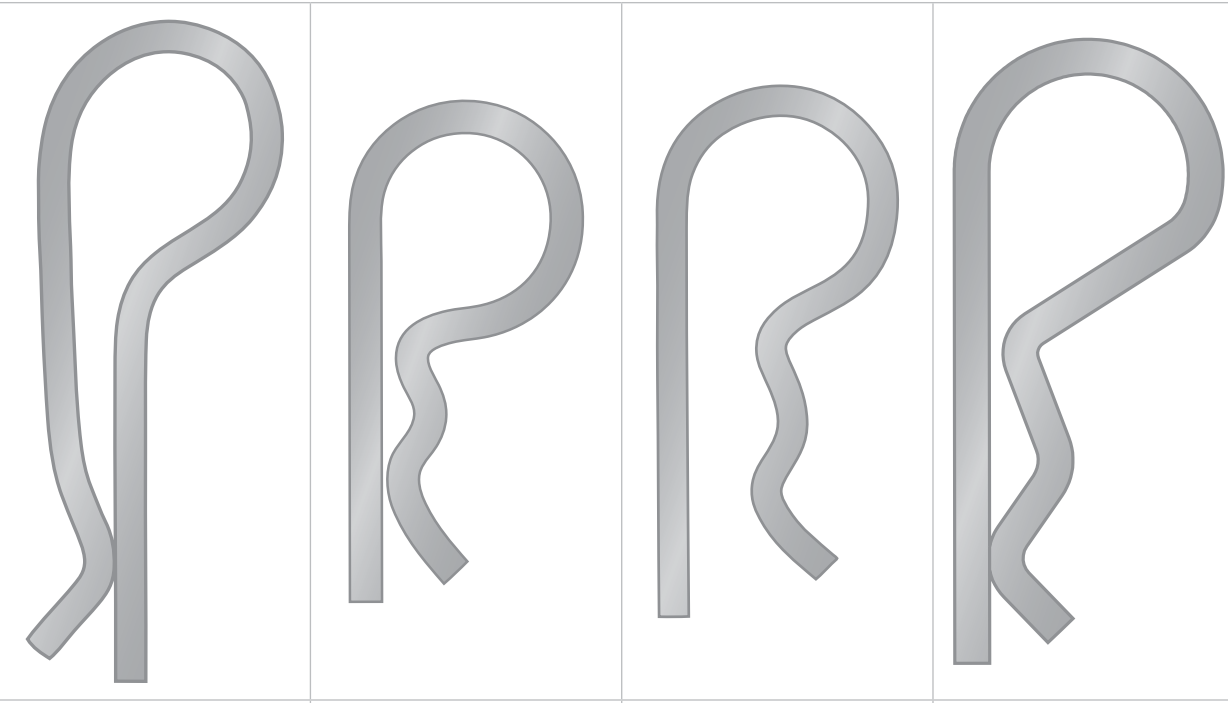
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BRIDGE – IMPERIAL

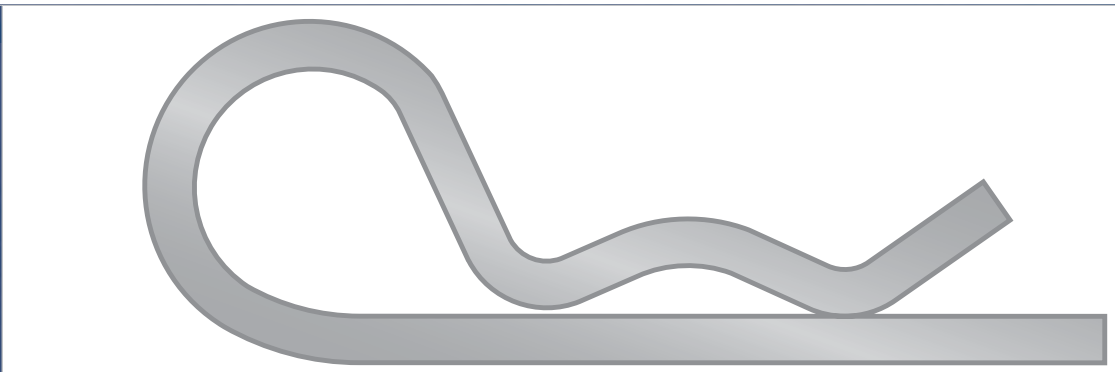
PREFIX		MATERIAL/FINISH
BP	=	MB SPRING WIRE, ZINC CLEAR
BPP	=	MB SPRING WIRE, PLAIN*
BPS	=	302/304 STAINLESS STEEL, PLAIN
BPS6	=	316 STAINLESS STEEL, PLAIN
BPY	=	MB SPRING WIRE, ZINC YELLOW

Material/finish combinations may not be available in all sizes.





ITEM #	PREFIX-212	PREFIX-137	PREFIX-154	PREFIX-206
(K) WIRE DIA.	.162"	.177"	.177"	.177"
(A) LENGTH	3.438" (3-7/16)	2.609" (2-39/64)	2.766" (2-49/64)	3.250" (3-1/4)
EYE DIA.	.875" (7/8)	–	–	1.015"
FITS SHAFT	1/2" x 1" to 7/8" x 1"	5/16"	17/32"	5/8" to 1"



ITEM #	PREFIX-2109
(K) WIRE DIA.	.243" (See also page 112-113)
(A) LENGTH	5.000" (5)
EYE DIA.	1.229"
FITS SHAFT	1-1/8" to 1-1/2"

Images are approximate actual size.

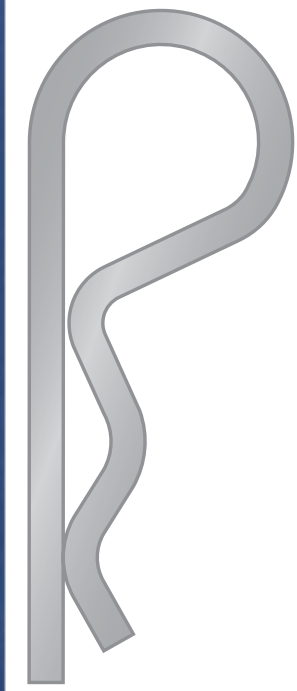
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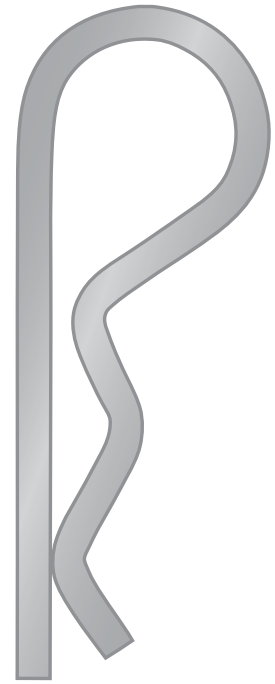
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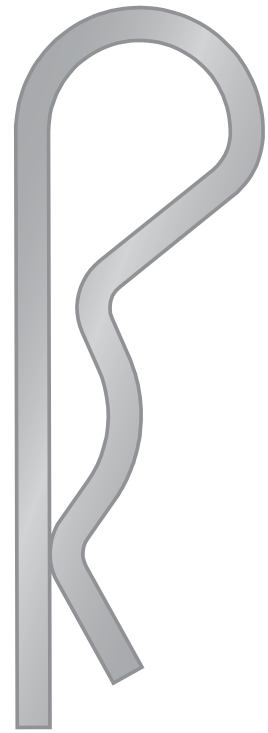
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BRIDGE – IMPERIAL

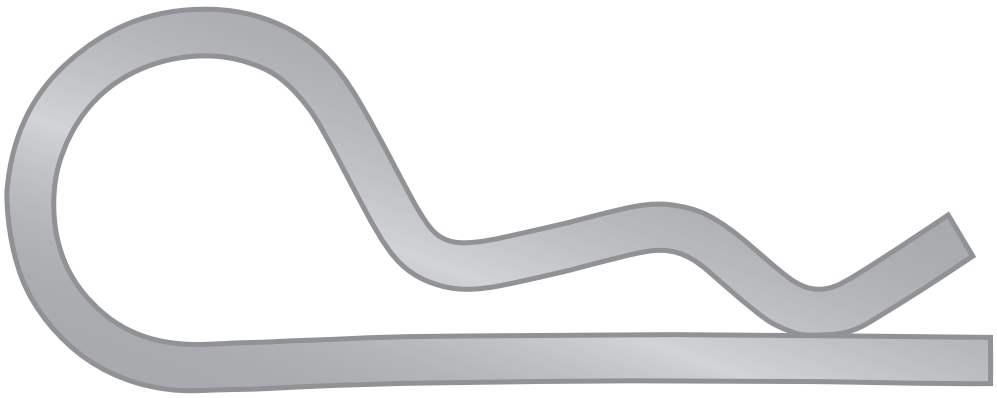








ITEM #	PREFIX-0012	PREFIX-229	PREFIX-208	PREFIX-2108
(K) WIRE DIA.	.177"	.177"	.177"	.178"
(A) LENGTH	3.500" (3-1/2)	3.500" (3-1/2)	3.750" (3-3/4)	3.750" (3-3/4)
EYE DIA.	1.004"	.938" (15/16)	.975"	1.005"
FITS SHAFT	7/8" to 1"	3/4" to 1-1/16"	7/8" to 1-1/4"	7/8" to 1"



ITEM #	PREFIX-235
(K) WIRE DIA.	.243" (See also page 111, 113)
(A) LENGTH	5.125" (5-1/8)
EYE DIA.	1.500" (1-1/2)
FITS SHAFT	1-1/4" to 1-1/2"

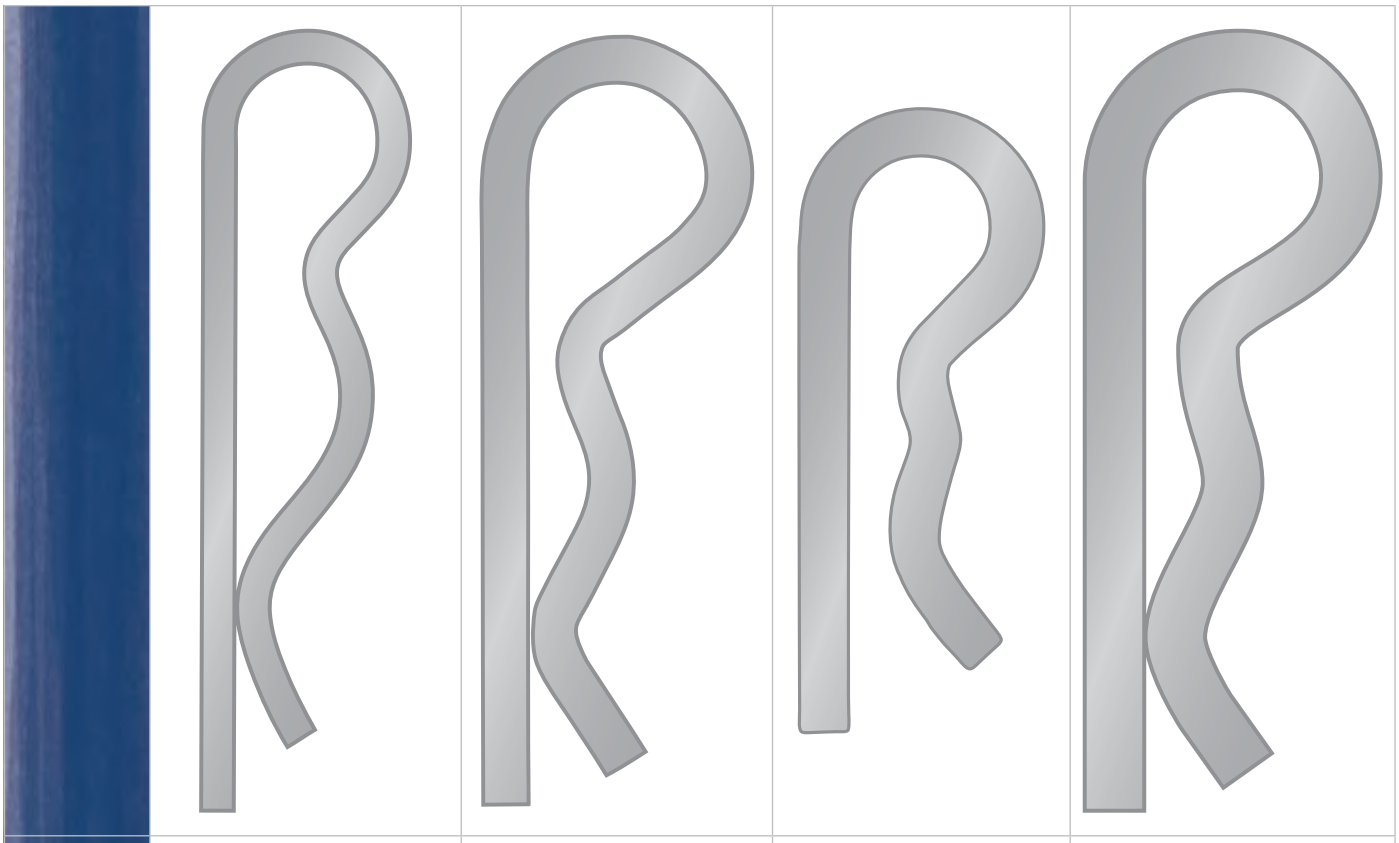
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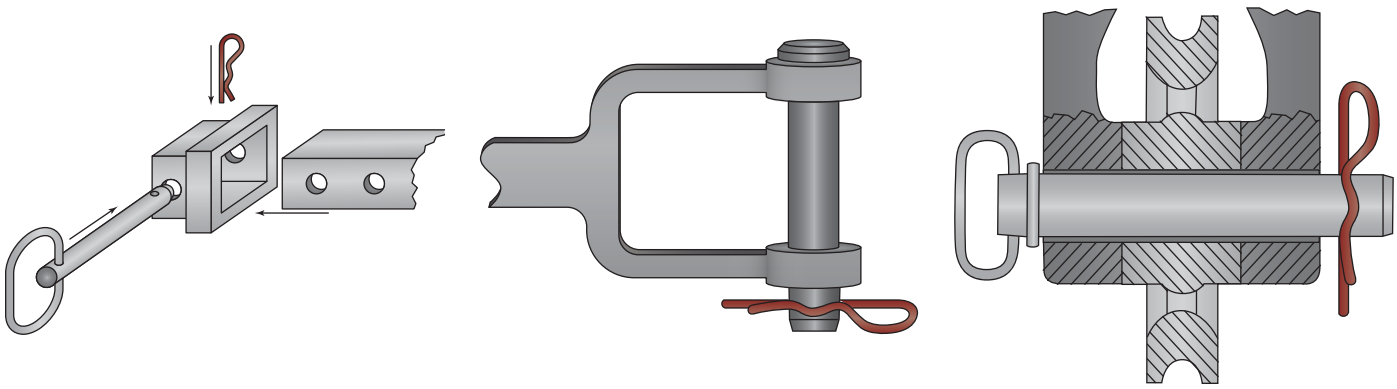
BRIDGE – IMPERIAL



ITEM #	PREFIX-146	PREFIX-219	PREFIX-117	PREFIX-220
(K) WIRE DIA.	.187" (3/16)	.243" (See also page 111-112)	.250" (1/4)	.310"
(A) LENGTH	4.062" (4-1/16)	4.000" (4)	3.250" (3-1/4)	4.062" (4-1/16)
EYE DIA.	.722"	.938" (15/16)	–	.875" (7/8)
FITS SHAFT	23/32"	3/4" to 1"	1/2"	7/8" to 1"

Images are approximate actual size.

APPLICATIONS



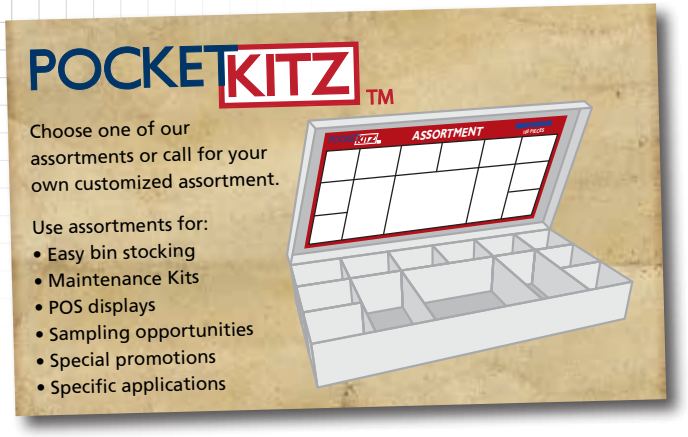
USED TO LOCK
A HITCH PIN IN PLACE

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ASSORTMENTS



Stainless Steel
DISP-BPSS70

70 Pieces
Stainless Steel, Plain

Parts Included	Size	Quantity
BPS-210	.148" x 2-15/16"	10
BPS-227	1/8" x 2-1/2"	10
BPS-228	3/32" x 2"	20
BPS-237	.054" x 7/8"	10
BPS-239	.072" x 1-7/8"	20

Zinc Clear
DISP-BP103

103 Pieces
MB Spring Wire, Zinc Clear

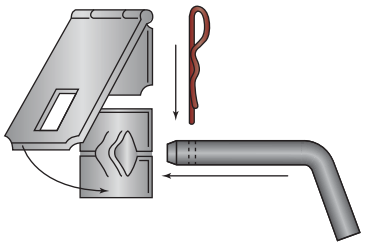
Parts Included	Size	Quantity
BP-208	.177" x 3-3/4"	5
BP-210	.148" x 2-15/16"	8
BP-211	1/8" x 2-9/16"	10
BP-225	.072" x 1-3/32"	30
BP-230	.105" x 1-1/4"	20
BP-236	.054" x 3/4"	30

Zinc Clear
DISP-BP150

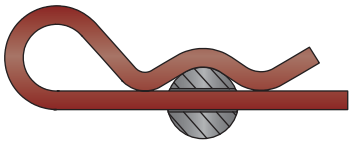
150 Pieces
MB Spring Wire, Zinc Clear

Parts Included	Size	Quantity
BP-203	3/32" x 1-5/8"	30
BP-206	.177" x 3-1/4"	5
BP-207	3/32" x 2-5/16"	20
BP-210	.148" x 2-15/16"	15
BP-216	1/8" x 1-15/16"	20
BP-222	1/16" x 1-5/16"	60

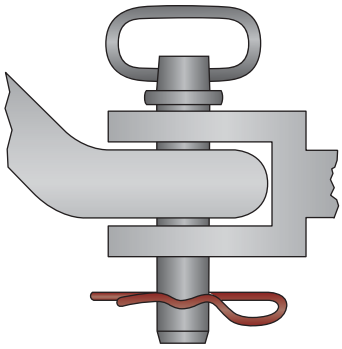
APPLICATIONS



USED TO SECURE BENT PIN

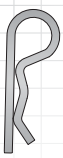


INSERTED THROUGH A DRILLED HOLE FOR HOLDING FORCE

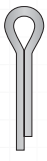


USED TO SECURE A HITCH PIN ASSEMBLY

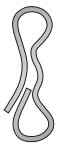
PEOPLE WHO BOUGHT THESE ALSO BOUGHT



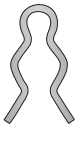
BRIDGE PINS
Page 106



COTTER PINS
Page 82



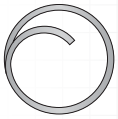
BOW TIE COTTER PINS
Page 96



HAIR PINS
Page 119



DOUBLE-LOOP BRIDGE PINS
Page 116



CIRCLE COTTER PINS
Page 98



RING COTTER PINS
Page 97

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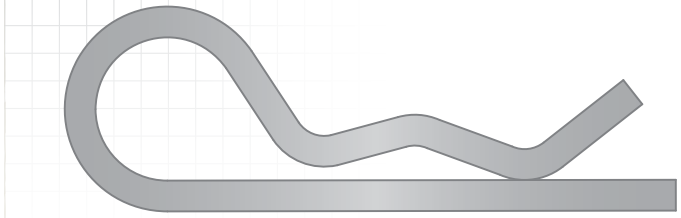
BRIDGE – METRIC

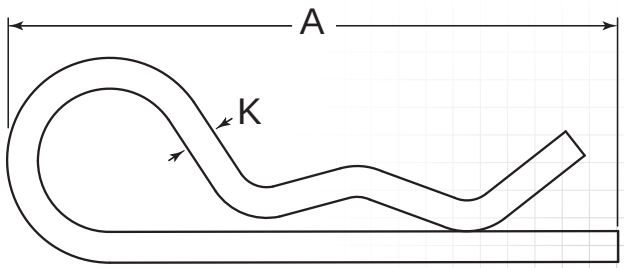
DESCRIPTION

Bridge pins are simple and extremely versatile wire forms used as locking devices. They are reusable and cost effective. Commonly used on clevis pins, hitch pins, and shafts.

HOW TO IDENTIFY

1. Verify bridge pin shaped wire form.
2. Measure wire diameter (K).
3. Measure length (A).
4. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
BPM	=	MB SPRING WIRE, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

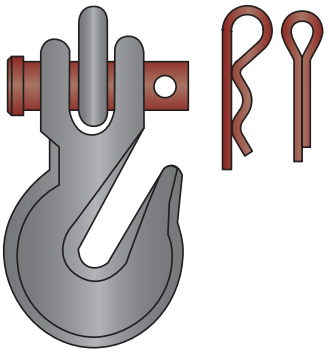
ITEM NUMBER	(K) WIRE DIAMETER	(A) OVERALL LENGTH
BPM-020-050	2.00 mm	50.00 mm
BPM-022-042	2.20 mm	42.00 mm
BPM-025-050	2.50 mm	50.00 mm
BPM-030-060	3.00 mm	60.00 mm
BPM-030-070	3.00 mm	70.00 mm
BPM-035-070	3.50 mm	70.00 mm
BPM-036-064	3.60 mm	64.00 mm
BPM-040-060	4.00 mm	60.00 mm
BPM-040-085	4.00 mm	85.00 mm
BPM-045-080	4.50 mm	80.00 mm
BPM-045-085	4.50 mm	85.00 mm

ITEM NUMBER	(K) WIRE DIAMETER	(A) OVERALL LENGTH
BPM-050-085	5.00 mm	85.00 mm
BPM-050-105	5.00 mm	105.00 mm
BPM-056-097	5.60 mm	97.00 mm
BPM-060-105	6.00 mm	105.00 mm
BPM-063-125	6.30 mm	125.00 mm
BPM-070-105	7.00 mm	105.00 mm
BPM-070-120	7.00 mm	120.00 mm
BPM-070-150	7.00 mm	150.00 mm
BPM-080-110	8.00 mm	110.00 mm
BPM-080-155	8.00 mm	155.00 mm
BPM-100-175	10.00 mm	175.00 mm

DESIGN CONSIDERATIONS

HITCH PINS VS. COTTER PINS

While hitch pin assemblies can be retained with either bridge pins or cotter pins, bridge pins can withstand greater lateral forces and are reusable.



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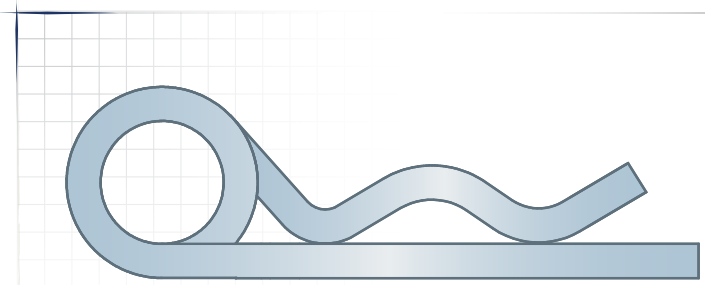
BRIDGE – DOUBLE-LOOP

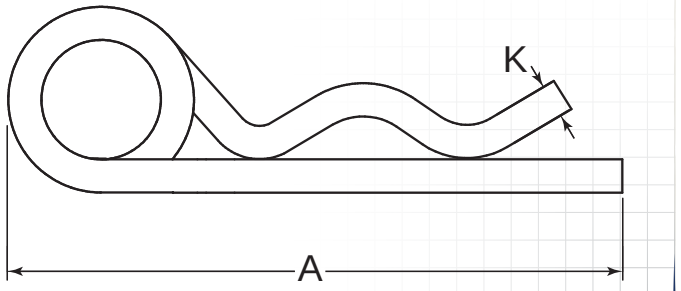
DESCRIPTION

Heavy duty form of bridge pin in which an extra loop is engineered into the design. The double-loop distributes stresses evenly for heavy duty and repetitive use.

HOW TO IDENTIFY

1. Verify bridge pin with double-loop design.
2. Measure wire diameter (K).
3. Measure length (A).
4. Find the part in the chart below.





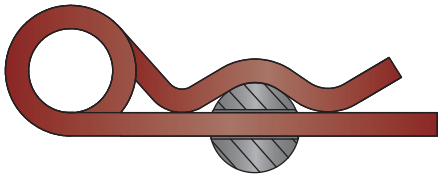
PREFIX MATERIAL/FINISH

BPD = MB SPRING WIRE, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(K) WIRE DIAMETER	(A) OVERALL LENGTH	INSIDE EYE DIAMETER
BPD-0118	.118"	3.000" (3)	.625" (5/8)
BPD-0158	.158"	3.310"	.940"
BPD-252	.148"	3.125" (3-1/8)	.750" (3/4)

APPLICATION

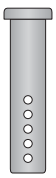


USE WITH CLEVIS PIN FOR HEAVY DUTY HOLDING POWER

PEOPLE WHO BOUGHT THESE ALSO BOUGHT



CLEVIS PINS
Page 24



UNIVERSAL CLEVIS PINS
Page 32



HEADLESS CLEVIS PINS
Page 35



GROOVED HEADLESS CLEVIS PINS
Page 37

MANUFACTURING CAPABILITIES:



FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

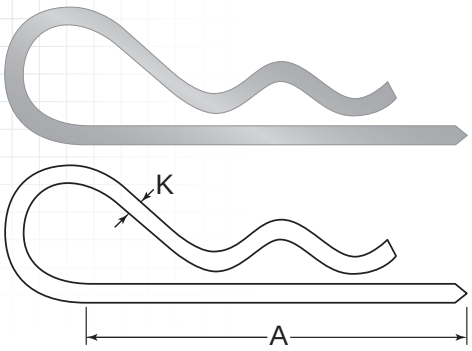
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AA55487

LOCK – STANDARD & VARIABLE

STANDARD

Lock pins are marine grade 316 stainless steel bridge pins manufactured to the AA55487 specification. Each wire diameter has a specific length.

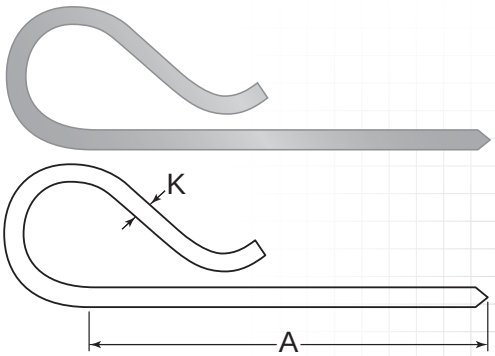


PREFIX		MATERIAL/FINISH
BPL	=	316 STAINLESS STEEL, PLAIN

ITEM NUMBER	(K) WIRE DIAMETER	(A) OVERALL LENGTH
BPL-029-3000	.029"	.594" (19/32)
BPL-058-4000	.059"	1.125" (1-1/8)
BPL-072-5000	.072"	1.438" (1-7/16)
BPL-080-2000	.080"	1.938" (1-15/16)
BPL-091-6000	.092"	1.875" (1-7/8)

VARIABLE

Variable lock pins are manufactured from .080" diameter marine grade 316 stainless steel wire in varying lengths. These pins are designed so that the bend rests between two studs or shafts.

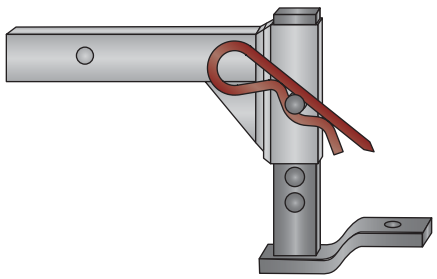


PREFIX		MATERIAL/FINISH
BPLV	=	316 STAINLESS STEEL, PLAIN

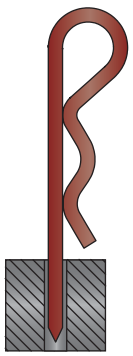
ITEM NUMBER	(K) WIRE DIAMETER	(A) OVERALL LENGTH
BPLV-080-1000	.080"	1.000" (1)
BPLV-080-2000	.080"	2.000" (2)
BPLV-080-3000	.080"	3.000" (3)
BPLV-080-4000	.080"	4.000" (4)
BPLV-080-5000	.080"	5.000" (5)
BPLV-080-6000	.080"	6.000" (6)
BPLV-080-7000	.080"	7.000" (7)

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

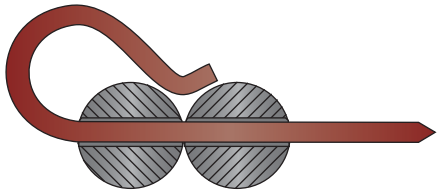
APPLICATIONS



USED TO LOCK PIN INTO PLACE



EXTENDED LEG PROVIDES IMPROVED HOLE ORIENTATION



VARIABLE LENGTH ALLOWS PIN TO PASS THROUGH MORE THAT ONE STUD

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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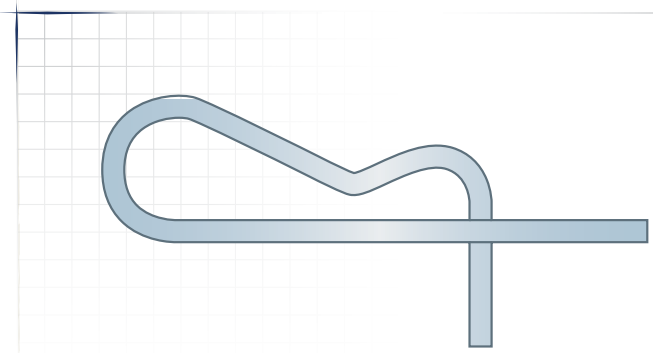
GRIP

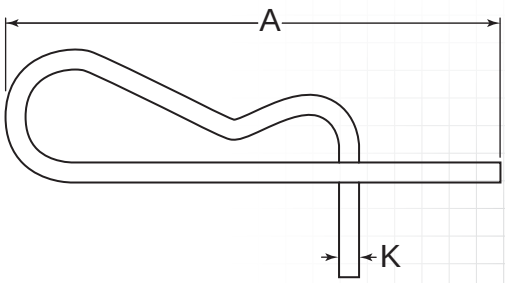
DESCRIPTION

A self-locking bridge pin. The straight wire is inserted into a hole and the bent leg snaps over the mating pin locking the grip pin in place.

HOW TO IDENTIFY

1. Verify grip pin clip design.
2. Measure wire diameter (K).
3. Measure length (A).
4. Find the part in the chart below.





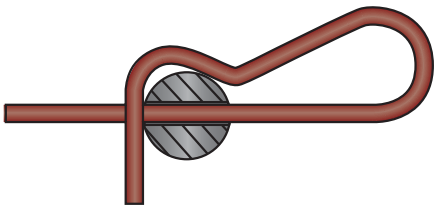
PREFIX MATERIAL/FINISH

GRP = MB SPRING WIRE, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(K) WIRE DIAMETER	(A) OVERALL LENGTH	FITS SHAFT SIZE
GRP-125-2000	.125" (1/8)	2.000" (2)	3/8" to 5/8"
GRP-125-2562	.125" (1/8)	2.563" (2-9/16)	7/16" to 3/4"
GRP-148-2750	.148"	2.750" (2-3/4)	5/8" to 1"
GRP-177-3750	.177"	3.750" (3-3/4)	7/8" to 1-1/4"

APPLICATION



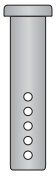
TO LOCK INSERT UNTIL BENT LEG SNAPS IN PLACE

PEOPLE WHO BOUGHT THESE ALSO BOUGHT



CLEVIS PINS

Page 24



UNIVERSAL CLEVIS PINS

Page 32



HEADLESS CLEVIS PINS

Page 35



GROOVED HEADLESS CLEVIS PINS

Page 37

PROUD DISTRIBUTOR OF:

ROTOR CLIP — Retaining Rings, Circlips, Hose Clamps, Constant Section Rings, Spiral Rings, & Wave Springs

ALEMITE — Premium Lubrication Fittings & Equipment

Shakeproof group — Clevis Pins

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DRIVLOK — Grooved Pins

LINCOLN — Domestic Lubrication Fittings & Equipment

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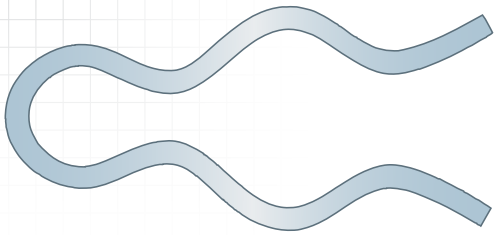
HAIR

DESCRIPTION

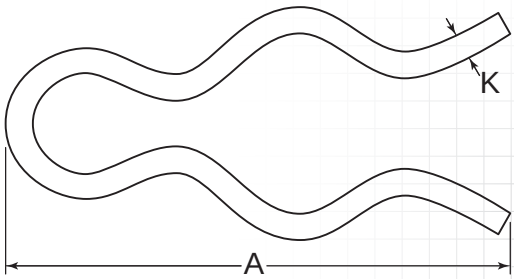
High shoulder design provides increased greater contact area. Can fit on a range of pin diameters. Reusable. Commonly used on grooved clevis pins and headless pins, and shafts.

HOW TO IDENTIFY

1. Verify hair pin shaped wire form.
2. Measure wire diameter (K).
3. Measure length (A).
4. Find the part in the chart below.
   Or:
   Compare to part silhouette in chart below.



SEE IMAGES BELOW FOR EXACT CONFIGURATIONS



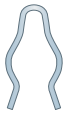
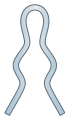
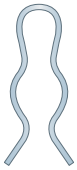
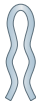
PREFIX MATERIAL/FINISH

BPXZ = MB SPRING WIRE, ZINC CLEAR
BPXY = MB SPRING WIRE, ZINC YELLOW
BPXS = STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

								
ITEM #	PREFIX-200	PREFIX-145	PREFIX-186	PREFIX-146	PREFIX-187	PREFIX-415	PREFIX-114	PREFIX-115
(K) WIRE DIA.	.020"	.026"	.026"	.026"	.026"	.026"	.026"	.026"
(A) LENGTH	.422" (27/64)	.281" (9/32)	.281" (9/32)	.344" (11/32)	.375" (3/8)	.375" (3/8)	.406" (13/32)	.438" (7/16)
EYE DIA.	.063" (1/16)	.047" (3/64)	.078" (5/64)	.063" (1/16)	.094" (3/32)	.063" (1/16)	.094" (3/32)	.094" (3/32)
FITS GROOVE	.047" (3/64)	.063" (1/16)	.063" (1/16)	.094" (3/32)	.094" (3/32)	–	.094" (3/32)	.078" (5/64)

								
ITEM #	PREFIX-218	PREFIX-142	PREFIX-214	PREFIX-413	PREFIX-418	PREFIX-409	PREFIX-2301	PREFIX-2302
(K) WIRE DIA.	.026"	.026"	.026"	.028"	.028"	.028"	.029"	.031" (1/32)
(A) LENGTH	.547" (35/64)	.578" (37/64)	.844" (27/32)	.281" (9/32)	.438" (7/16)	.500" (1/2)	.313" (5/16)	.500" (1/2)
EYE DIA.	.094" (3/32)	.078" (5/64)	.188" (3/16)	.063" (1/16)	.094" (3/32)	.063" (1/16)	.063" (1/16)	.109" (7/64)
FITS GROOVE	.250" (1/4)	.156" (5/32)	.250" (1/4)	–	–	–	.125" (1/8)	.219" (7/32)

Images are approximate actual size.

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HAIR

ITEM #	PREFIX-141	PREFIX-113	PREFIX-121	PREFIX-2303	PREFIX-124	PREFIX-180	PREFIX-401	PREFIX-405
(K) WIRE DIA.	.032"	.032"	.032"	.033"	.035"	.035"	.035"	.035"
(A) LENGTH	.469" (15/32)	.625" (5/8)	.656" (21/32)	.625" (5/8)	.328" (21/64)	.406" (13/32)	.469" (15/32)	.500" (1/2)
EYE DIA.	–	–	–	.125" (1/8)	.063" (1/16)	.078" (5/64)	.094" (3/32)	.125" (1/8)
FITS GROOVE	.141" (9/64)	.094" (3/32)	.188" (3/16)	.250" (1/4)	.109" (7/64)	.078" (5/64)	–	–

ITEM #	PREFIX-174	PREFIX-411	PREFIX-130	PREFIX-126	PREFIX-118	PREFIX-419	PREFIX-131	PREFIX-422
(K) WIRE DIA.	.035"	.035"	.035"	.035"	.040"	.042"	.047" (3/64)	.047" (3/64)
(A) LENGTH	.563 (9/16)	.625" (5/8)	.844" (27/32)	.875" (7/8)	.422" (27/64)	.750" (3/4)	.438" (7/16)	.438" (7/16)
EYE DIA.	.156" (5/32)	.094" (3/32)	.188" (3/16)	.188" (3/16)	–	–	.094" (3/32)	.094" (3/32)
FITS GROOVE	.281" (9/32)	–	.297" (19/64)	.344" (11/32)	.078" (5/64)	–	.109" (7/64)	–

ITEM #	PREFIX-138	PREFIX-420	PREFIX-416	PREFIX-122	PREFIX-421	PREFIX-227	PREFIX-404	PREFIX-406
(K) WIRE DIA.	.047" (3/64)	.047" (3/64)	.047" (3/64)	.047" (3/64)	.047" (3/64)	.047" (3/64)	.047" (3/64)	.047" (3/64)
(A) LENGTH	.484" (31/64)	.563 (9/16)	.594" (19/32)	.625" (5/8)	.625" (5/8)	.859" (55/64)	.875" (7/8)	.938" (15/16)
EYE DIA.	.109" (7/64)	–	.109" (7/64)	.125" (1/8)	–	.125" (1/8)	.125" (1/8)	.188" (3/16)
FITS GROOVE	.125" (1/8)	–	–	.156" (5/32)	–	.500" (1/2)	–	–

ITEM #	PREFIX-408	PREFIX-2304	PREFIX-199	PREFIX-123	PREFIX-188	PREFIX-2305	PREFIX-2306	PREFIX-189
(K) WIRE DIA.	.047" (3/64)	.048"	.051"	.051"	.051"	.052"	.055"	.063" (1/16)
(A) LENGTH	1.313" (1-5/16)	.750" (3/4)	.656" (21/32)	.750" (3/4)	.750" (3/4)	.969" (31/32)	1.125" (1-1/8)	.625" (5/8)
EYE DIA.	.125" (1/8)	.125" (1/8)	.125" (1/8)	.125" (1/8)	.125" (1/8)	.188" (3/16)	.219" (7/32)	.125" (1/8)
FITS GROOVE	–	.313" (5/16)	.156" (5/32)	.156" (5/32)	.125" (1/8)	.375" (3/8)	.438" (7/16)	.219" (7/32)

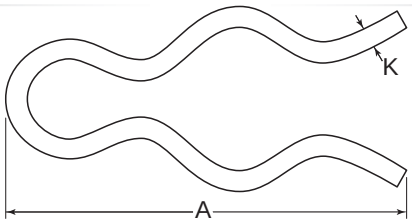
Images are approximate actual size.

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PREFIX		MATERIAL/FINISH
BPXZ	=	MB SPRING WIRE, ZINC CLEAR
BPXY	=	MB SPRING WIRE, ZINC YELLOW
BPXS	=	STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



ITEM #	PREFIX-403	PREFIX-190	PREFIX-412	PREFIX-149	PREFIX-172	PREFIX-191	PREFIX-150	PREFIX-143
(K) WIRE DIA.	.063" (1/16)	.063" (1/16)	.063" (1/16)	.063" (1/16)	.063" (1/16)	.063" (1/16)	.063" (1/16)	.063" (1/16)
(A) LENGTH	.688" (11/16)	.750" (3/4)	.750" (3/4)	.828" (53/64)	.875" (7/8)	.922" (59/64)	.938" (15/16)	1.000" (1)
EYE DIA.	.125" (1/8)	–	.156" (5/32)	.156" (5/32)	.188" (3/16)	.313" (5/16)	.188" (3/16)	.188" (3/16)
FITS GROOVE	–	.281" (9/32)	–	.281" (9/32)	.344" (11/32)	.375" (3/8)	.344" (11/32)	.344" (11/32)

ITEM #	PREFIX-402	PREFIX-160	PREFIX-2307	PREFIX-192	PREFIX-182	PREFIX-193	PREFIX-183
(K) WIRE DIA.	.063" (1/16)	.063" (1/16)	.064"	.072"	.072"	.080"	.080"
(A) LENGTH	1.000" (1)	1.375" (1-3/8)	1.125" (1-1/8)	.875" (7/8)	1.063" (1-1/16)	1.125" (1-1/8)	1.156" (1-5/32)
EYE DIA.	.188" (3/16)	.250" (1/4)	.250" (1/4)	.219" (7/32)	.219" (7/32)	.281" (9/32)	.281" (9/32)
FITS GROOVE	–	.531" (17/32)	.500" (1/2)	.375" (3/8)	.375" (3/8)	.500" (1/2)	.469" (15/32)

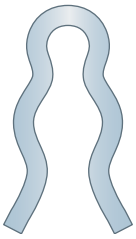
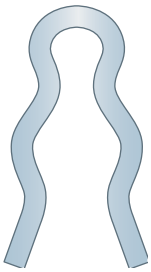
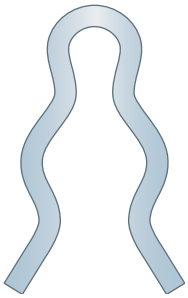
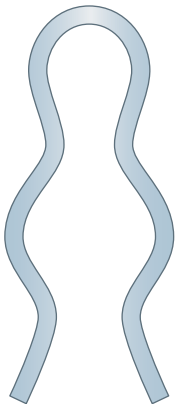
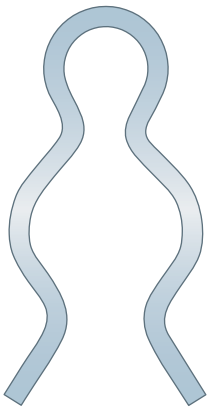
ITEM #	PREFIX-194	PREFIX-163	PREFIX-2308	PREFIX-165	PREFIX-2309	PREFIX-201
(K) WIRE DIA.	.080"	.080"	.087"	.091"	.094" (3/32)	.105"
(A) LENGTH	1.406" (1-13/32)	2.000" (2)	1.500" (1-1/2)	1.188" (1-3/16)	1.813" (1-13/16)	1.063" (1-1/16)
EYE DIA.	.375" (3/8)	.375" (3/8)	.313" (5/16)	.234" (15/64)	.375" (3/8)	.219" (7/32)
FITS GROOVE	.594" (19/32)	.875" (7/8)	.625" (5/8)	.406" (13/32)	.750" (3/4)	.406" (13/32)

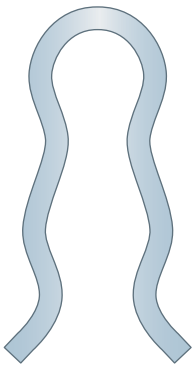
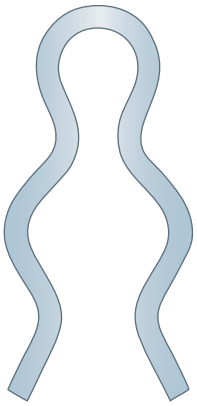
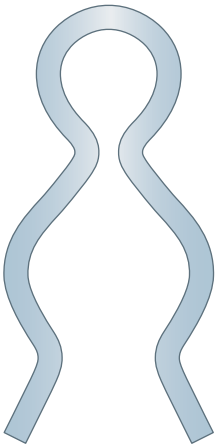
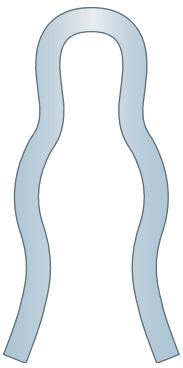
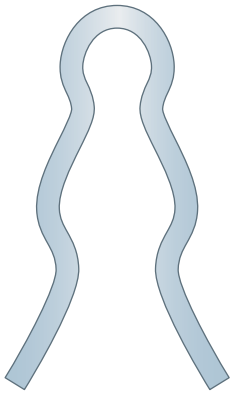
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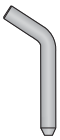
HAIR

					
ITEM #	PREFIX-151	PREFIX-152	PREFIX-153	PREFIX-407	PREFIX-2310
(K) WIRE DIA.	.105"	.105"	.105"	.105"	.105"
(A) LENGTH	1.188" (1-3/16)	1.359" (1-23/64)	1.500" (1-1/2)	2.063" (2-1/16)	2.078" (2-5/64)
EYE DIA.	.219" (7/32)	.250" (1/4)	.281" (9/32)	.438" (7/16)	.438" (7/16)
FITS GROOVE	.406" (13/32)	.469" (15/32)	.531" (17/32)	–	.875" (7/8)

					
ITEM #	PREFIX-125	PREFIX-414	PREFIX-2311	PREFIX-155	PREFIX-156
(K) WIRE DIA.	.120"	.125" (1/8)	.125" (1/8)	.135"	.135"
(A) LENGTH	1.859" (1-55/64)	2.063" (2-1/16)	2.281" (2-9/32)	1.844" (1-27/32)	2.000" (2)
EYE DIA.	.469" (15/32)	.438" (7/16)	.500" (1/2)	.344" (11/32)	.375" (3/8)
FITS GROOVE	.609" (39/64)	–	1.000" (1)	.656" (21/32)	.719" (23/32)

Images are approximate actual size.

PEOPLE WHO BOUGHT THESE ALSO BOUGHT



BENT PINS

Page 39



GROOVED CLEVIS PINS

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GROOVED HEADLESS CLEVIS PINS

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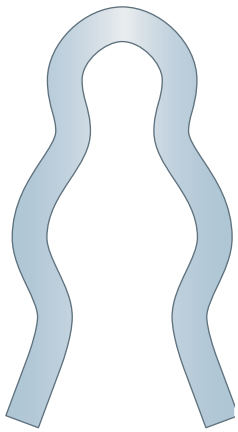
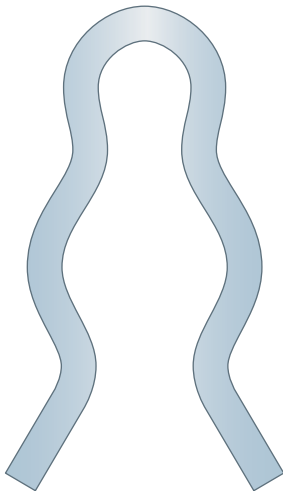
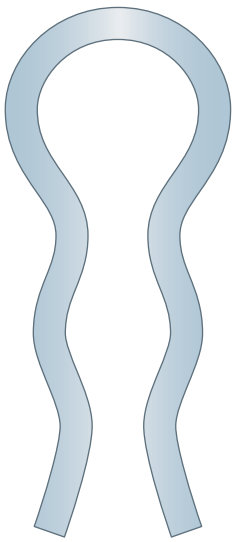


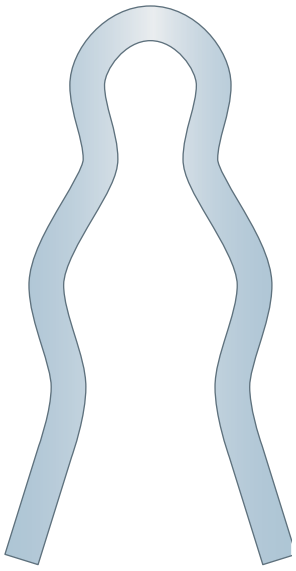
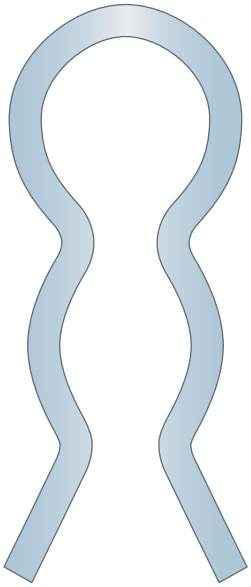
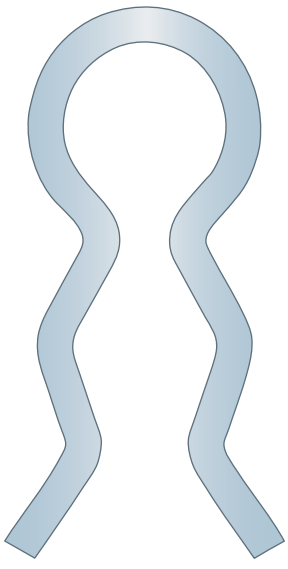


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ITEM #	PREFIX-157	PREFIX-159	PREFIX-410
(K) WIRE DIA.	.177"	.177"	.177"
(A) LENGTH	2.188" (2-3/16)	2.516" (2-33/64)	2.750" (2-3/4)
EYE DIA.	.406" (13/32)	.469" (15/32)	.750" (3/4)
FITS GROOVE	.781" (25/32)	.906" (29/32)	–

			
ITEM #	PREFIX-161	PREFIX-2312	PREFIX-417
(K) WIRE DIA.	.177"	.186"	.188" (3/16)
(A) LENGTH	2.906" (2-29/32)	3.000" (3)	2.875" (2-7/8)
EYE DIA.	.500" (1/2)	.078" (5/64)	.875" (7/8)
FITS GROOVE	.953" (61/64)	–	–

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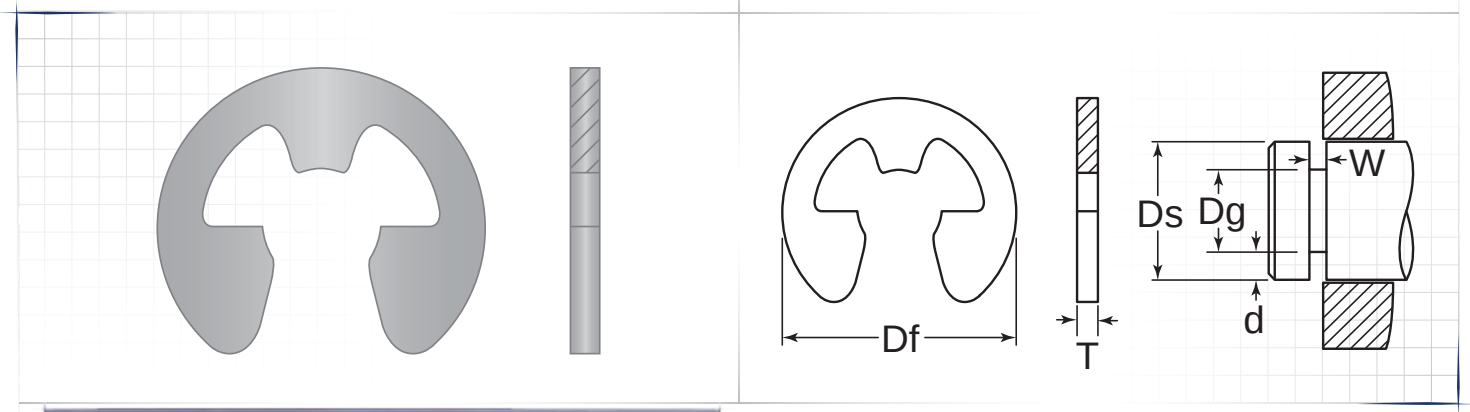
E-CLIP

DESCRIPTION

Stamped clips for deep grooves with three prongs that yield high thrust load capacity. Ideal in high production applications where automated assembly is desired.

HOW TO IDENTIFY

1. Confirm the diameter of the shaft (Ds).
2. Measure the outside diameter of the ring (Df).
3. Measure the ring thickness (T).
4. Find the part in the chart below.



SUFFIX MATERIAL/FINISH

Prefixes for this item designate dimensional differences.

= CARBON SPRING STEEL, PHOSPHATE
###-ZC = CARBON SPRING STEEL, ZINC CLEAR
###-ZD = CARBON SPRING STEEL, ZINC YELLOW
###-SS = PH 15-7 STAINLESS STEEL, PASSIVATED
###-BC = BERYLLIUM COPPER, PLAIN

Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(DS) SHAFT DIAMETER	(DF) FREE OUTSIDE DIAMETER	(DG) GROOVE DIAMETER +.002/-.000"	(W) GROOVE WIDTH +.002/-.000"	(D) GROOVE DEPTH	(T) THICKNESS +.001/-.001"
E-004-SUFFIX	.040"	.079"	.030"	.010"	.007"	.010"
E-006-SUFFIX	.063" (1/16)	.156" (5/32)	.050"	.012"	.010"	.010"
SE-006-SUFFIX	.063" (1/16)	.140"	.050"	.010"	.005"	.010"
YE-006-SUFFIX	.063" (1/16)	.188" (3/16)	.050"	.020"	.005"	.020"
E-009-SUFFIX	.094" (3/32)	.188" (3/16)	.070"	.020"	.010"	.015"
SE-009-SUFFIX	.094" (3/32)	.230"	.070"	.020"	.010"	.015"
SE-011-SUFFIX	.109" (7/64)	.375" (3/8)	.080"	.020"	.020"	.015"
E-012-SUFFIX	.125" (1/8)	.230"	.100"	.020"	.015"	.015"
SE-012-SUFFIX	.125" (1/8)	.214"	.095"	.029"	.015"	.025"
E-014-SUFFIX	.141" (9/64)	.270"	.110"	.030"	.017"	.025"
SE-014-SUFFIX	.141" (9/64)	.203"	.100"	.020"	.019"	.015"
YE-014-SUFFIX	.141" (9/64)	.250" (1/4)	.110"	.020"	.015"	.015"
E-015-SUFFIX	.156" (5/32)	.282"	.120"	.030"	.020"	.025"
SE-015-SUFFIX	.156" (5/32)	.375" (3/8)	.118"	.047" (3/64)	.019"	.042"
SE-017-SUFFIX	.172" (11/64)	.313" (5/16)	.130"	.030"	.020"	.025"
E-018-SUFFIX	.188" (3/16)	.335"	.150"	.030"	.020"	.025"
SE-018-SUFFIX	.188" (3/16)	.375" (3/8)	.130"	.030"	.030"	.025"
YE-018-SUFFIX	.188" (3/16)	.470"	.147"	.029"	.020"	.025"
E-021-SUFFIX	.219" (7/32)	.438" (7/16)	.188" (3/16)	.029"	.015"	.025"
SE-021-SUFFIX	.219" (7/32)	.438" (7/16)	.190"	.030"	.020"	.025"
E-025-SUFFIX	.250" (1/4)	.527"	.210"	.030"	.020"	.025"
E-031-SUFFIX	.313" (5/16)	.500" (1/2)	.250" (1/4)	.029"	.031" (1/32)	.025"
SE-031-SUFFIX	.313" (5/16)	.500" (1/2)	.250" (1/4)	.030"	.031" (1/32)	.025"
YE-031-SUFFIX	.313" (5/16)	.670"	.250" (1/4)	.029"	.031" (1/32)	.025"
E-037-SUFFIX	.375" (3/8)	.660"	.303"	.040"	.036"	.035"

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E-CLIP

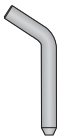
ITEM NUMBER	(DS) SHAFT DIAMETER	(DF) FREE OUTSIDE DIAMETER	(DG) GROOVE DIAMETER +.002/-.000"	(W) GROOVE WIDTH +.002/-.000"	(D) GROOVE DEPTH	(T) THICKNESS +.001/-.001"
SE-037-SUFFIX	.375" (3/8)	.567"	.310"	.040"	.034"	.035"
E-043-SUFFIX	.438" (7/16)	.688" (11/16)	.340"	.040"	.050"	.035"
SE-043-SUFFIX	.438" (7/16)	.600"	.380"	.040"	.030"	.035"
E-050-SUFFIX	.500" (1/2)	.800"	.400"	.050"	.050"	.042"
E-062-SUFFIX	.625" (5/8)	.940"	.490"	.050"	.070"	.042"
E-075-SUFFIX	.750" (3/4)	1.120"	.580"	.060"	.090"	.050"
SE-074-SUFFIX	.750" (3/4)	1.000" (1)	.630"	.060"	.060"	.050"
E-087-SUFFIX	.875" (7/8)	1.300"	.680"	.060"	.100"	.050"
SE-098-SUFFIX	.984" (63/64)	1.500" (1-1/2)	.840"	.060"	.070"	.050"
SE-118-SUFFIX	1.188" (1-1/16)	1.626"	1.080"	.070"	.050"	.063" (1/16)
SE-137-SUFFIX	1.375" (1-3/8)	1.875" (1-7/8)	1.230"	.068"	.072"	.063" (1/16)

TO ORDER, REPLACE SUFFIX WITH YOUR CHOICE:

"NONE" • ZC • ZD • SS • BC

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

PEOPLE WHO BOUGHT THESE ALSO BOUGHT



BENT PINS

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GROOVED CLEVIS PINS

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GROOVED HEADLESS CLEVIS PINS

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RETAINING RINGS CATALOG





SNAP RINGS



CLIPS



WIRE RINGS



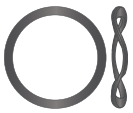
PUSH-ON RINGS



WIRE FORMS



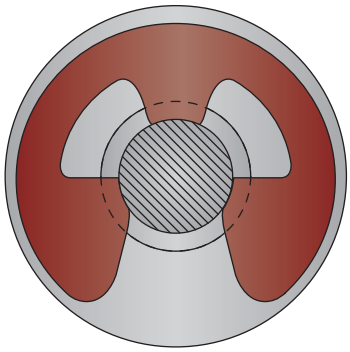
SPIRAL RINGS



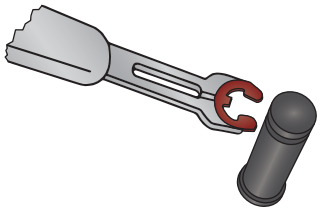
WAVE SPRINGS

HUYETT.COM/CATALOGS

APPLICATIONS



E-CLIP GRIP POINTS PRODUCE GREATER THRUST LOAD RATINGS THAN WIRE RINGS



SEMI-AUTOMATIC INSTALLATION WITH AN INSTALLATION TOOL

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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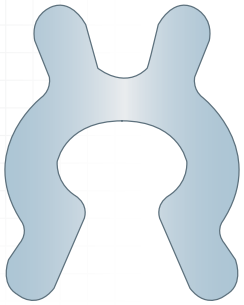
X-RING

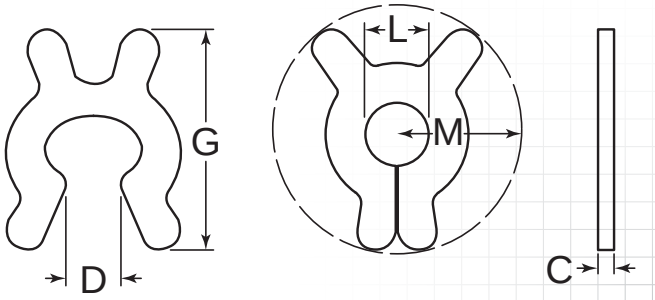
DESCRIPTION

This clip is applied to a grooved shaft and the legs are squeezed together with pliers. Heavy construction offers strong retention. X-rings are removable, but not reusable.

HOW TO IDENTIFY

1. Verify the X-ring design.
2. Measure the inside diameter (D).
3. Find the part in the chart on the following page.



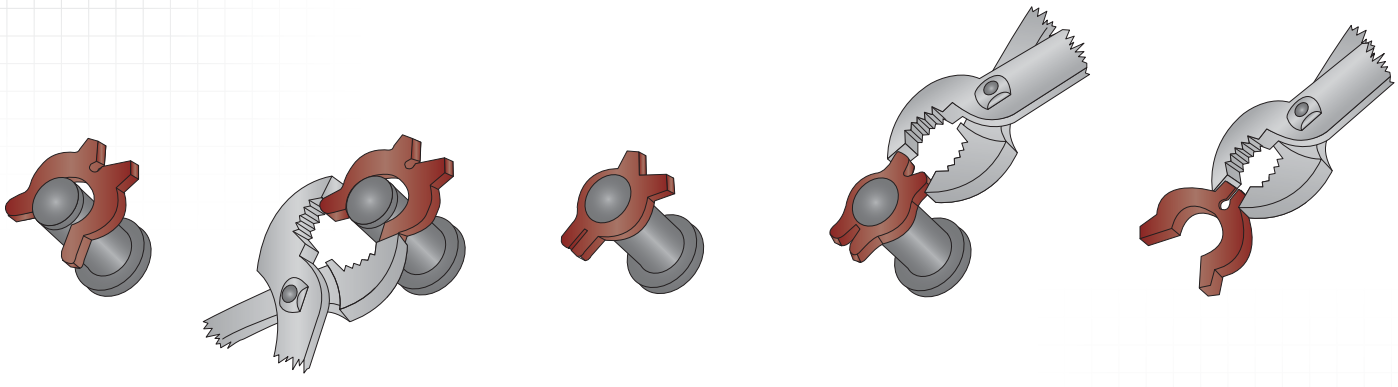


PREFIX MATERIAL/FINISH

XRING = SPRING STEEL, ZINC CLEAR
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

X-RING INSTALLATION



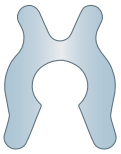
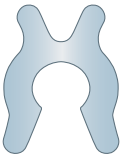
INSTALL | SECURE | 360 DEGREE CLOSURE | REMOVAL | DONE

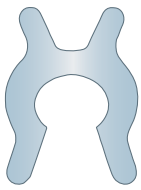
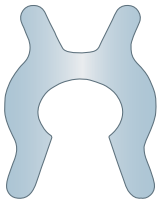
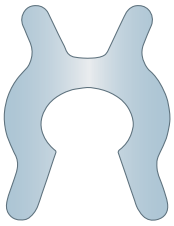
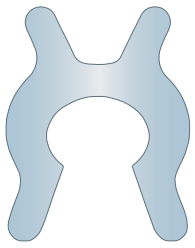
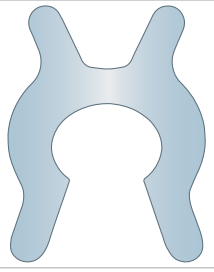
While designed to withstand the stresses of installation, the metal in an X-ring will fatigue and fail if opened and closed multiple times. For best practices, X-rings should not be reused.

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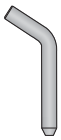
X-RING

						
ITEM #	XRING-0156	XRING-0187	XRING-0250	XRING-0312	XRING-0375	XRING-0437
(D) INSIDE DIA. +.005/-.005"	.086"	.098"	.130"	.164"	.190"	.222"
(G) LENGTH +.005/-.005"	.406" (13/32)	.490"	.575"	.688" (11/16)	.745"	.776"
(L) CLOSED DIA. +.010/-.010"	.086"	.098"	.130"	.164"	.190"	.222"
(C) THICKNESS	.025"	.055"	.055"	.065"	.065"	.075"
(M) CLEARANCE	.210"	.297" (19/64)	.359" (23/64)	.422" (27/64)	.438" (7/16)	.469" (15/32)
FITS SHAFT	.156" (5/32)	.188" (3/16)	.250" (1/4)	.313" (5/16)	.375" (3/8)	.438" (7/16)

					
ITEM #	XRING-0500	XRING-0562	XRING-0625	XRING-0687	XRING-0750
(D) INSIDE DIA. +.005/-.005"	.256"	.285"	.317"	.347"	.381"
(G) LENGTH +.005/-.005"	.905"	.986"	1.100"	1.190"	1.297" (1-19/64)
(L) CLOSED DIA. +.010/-.010"	.256"	.285"	.317"	.347"	.381"
(C) THICKNESS	.075"	.075"	.089"	.089"	.089"
(M) CLEARANCE	.500" (1/2)	.563" (9/16)	.609" (39/64)	.688" (11/16)	.797" (51/64)
FITS SHAFT	.500" (1/2)	.563" (9/16)	.625" (5/8)	.688" (11/16)	.750" (3/4)

Images are approximate actual size.

PEOPLE WHO BOUGHT THESE ALSO BOUGHT



BENT PINS

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GROOVED CLEVIS PINS

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GROOVED HEADLESS CLEVIS PINS

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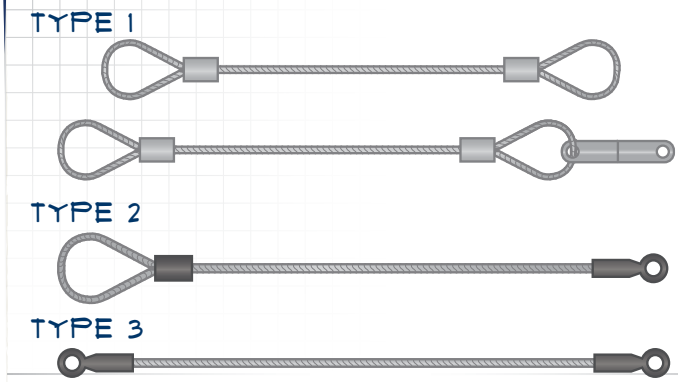
TETHER – NYLON & STEEL

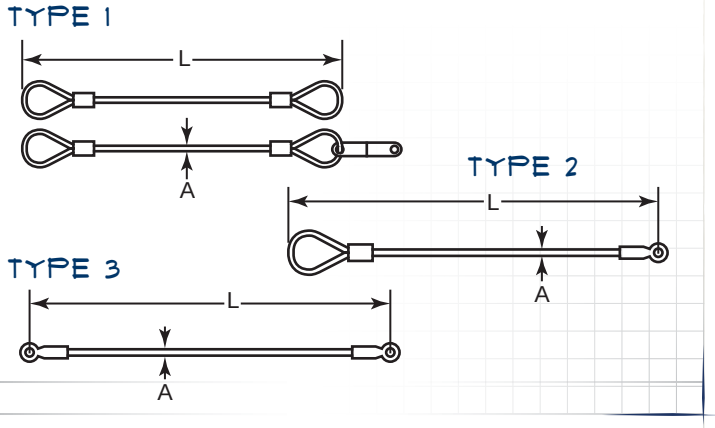
DESCRIPTION

Also known as lanyards, tethers provide attachment between a pin and its mating part. Additionally, one end can be fixed permanently near the locking location.

HOW TO IDENTIFY

1. Determine type design.
2. Measure the cable size (A).
3. Measure the overall length (L).
4. Find the part in the chart below.





STEEL TETHERS

Items ending with a "-T" include a tab.

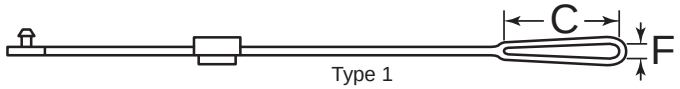
ITEM NUMBER	(A) CABLE SIZE	(L) OVERALL LENGTH	COATING TYPE
TYPE 1 – Steel			
TS1-046-12N	.047" (3/64)	12.000" (12)	Nylon
TS1-046-12N-T	.047" (3/64)	12.000" (12)	Nylon
TS1-046-18N	.047" (3/64)	18.000" (18)	Nylon
TS1-046-18N-T	.047" (3/64)	18.000" (18)	Nylon
TS1-046-5000N-T	.047" (3/64)	5.000" (5)	Nylon
TS1-046-6000N	.047" (3/64)	6.000" (6)	Nylon
TS1-046-6000N-T	.047" (3/64)	6.000" (6)	Nylon
TS1-046-6000P	.047" (3/64)	6.000" (6)	Vinyl
TS1-062-6000	.063" (1/16)	6.000" (6)	None
TS1-062-6000-T	.063" (1/16)	6.000" (6)	None
TS1-062-6000N	.063" (1/16)	6.000" (6)	Nylon
TYPE 2 – Steel			
TS2-046-12N	.047" (3/64)	12.000" (12)	Nylon
TS2-046-18N	.047" (3/64)	18.000" (18)	Nylon
TS2-046-6000N	.047" (3/64)	6.000" (6)	Nylon
TS2-046-6000P	.047" (3/64)	6.000" (6)	Vinyl
TS2-046-8000N	.047" (3/64)	8.000" (8)	Nylon
TS2-062-6000	.063" (1/16)	6.000" (6)	None
TS2-062-6000N	.063" (1/16)	6.000" (6)	Nylon

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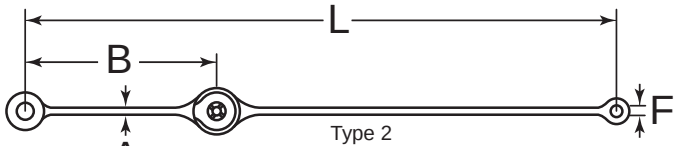
TETHER – NYLON & STEEL

ITEM NUMBER	(A) CABLE SIZE	(L) OVERALL LENGTH	COATING TYPE
TYPE 3 – Steel			
TS3-046-12N	.047" (3/64)	12.000" (12)	Nylon
TS3-046-18N	.047" (3/64)	18.000" (18)	Nylon
TS3-046-24N	.047" (3/64)	24.000" (24)	Nylon
TS3-046-6000N	.047" (3/64)	6.000" (6)	Nylon
TS3-046-6000P	.047" (3/64)	6.000" (6)	Vinyl
TS3-046-8000N	.047" (3/64)	6.000" (6)	Nylon
TS3-062-6000N	.063" (1/16)	6.000" (6)	Nylon
TYPE 1 – Stainless Steel			
TSS1-046-12N	.047" (3/64)	12.000" (12)	Nylon
TSS1-046-12NT	.047" (3/64)	12.000" (12)	Nylon
TSS1-046-18N	.047" (3/64)	18.000" (18)	Nylon
TSS1-046-18NT	.047" (3/64)	18.000" (18)	Nylon
TSS1-046-6000N	.047" (3/64)	6.000" (6)	Nylon
TSS1-046-6000NT	.047" (3/64)	6.000" (6)	Nylon
TSS1-062-8000NT	.063" (1/16)	8.000" (8)	Nylon
TYPE 2 – Stainless Steel			
TSS2-046-12N	.047" (3/64)	12.000" (12)	Nylon
TSS2-046-18N	.047" (3/64)	18.000" (18)	Nylon
TSS2-046-6000N	.047" (3/64)	6.000" (6)	Nylon
TYPE 3 – Stainless Steel			
TSS3-046-12N	.047" (3/64)	12.000" (12)	Nylon
TSS3-046-18N	.047" (3/64)	18.000" (18)	Nylon
TSS3-046-6000N	.047" (3/64)	6.000" (6)	Nylon

NYLON TETHERS



Type 1



Type 2

ITEM NUMBER	(A) CABLE SIZE	(L) OVERALL LENGTH	(F) INSIDE EYE DIAMETER	(G) LOOP WIDTH	(C) LOOP LENGTH	(B) SNAP LOOP LENGTH
TYPE 1 – Nylon						
TN1-093-11	.094" (3/32)	11.000" (11)	–	1.000" (1)	2.500" (2-1/2)	4.000" (4)
TN1-093-12	.094" (3/32)	12.000" (12)	–	.340"	1.500" (1-1/2)	4.000" (4)
TYPE 2 – Nylon						
TN2-093-12-200	.094" (3/32)	12.000" (12)	.200"	–	–	4.000" (4)
TN2-093-12-260	.094" (3/32)	12.000" (12)	.260"	–	–	4.000" (4)

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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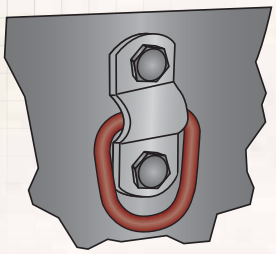
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WIRE FORM FEATURES

Generally, wire forms refer to a class of pins manufactured by forming and bending wire. For purposes of this catalog, the items found here do not fit neatly into other sections. Wire forms, by virtue of the universal flexibility and ductility of wire, are limited only by imagination.

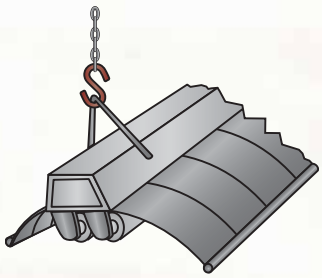
DESIGN CONSIDERATIONS

D-RING



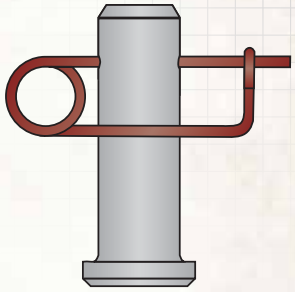
HELD BY A STRAP AND USED TO SECURE CARGO IN A VEHICLE

S-HOOK



USED TO HANG FIXTURES FROM CHAINS

SAFETY PIN



CAN BE USED IN PLACE OF A BRIDGE PIN

WIRE FORM TYPES

D-RING

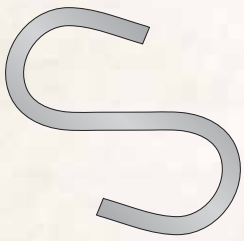
Used to fasten tarps, straps, belting, and tents. D-rings are also used as accessory hooks in backpacks and luggage.



PAGE 131

S-HOOK

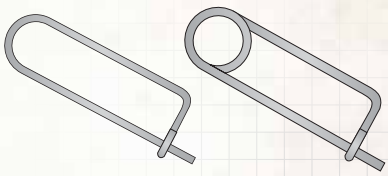
Frequently used in tie-down straps, S-hooks are also used in conjunction with fabric covers.



PAGE 133

SAFETY PIN

A low cost, light duty pin with a ready-to-lock hook feature. Heavy duty version has an added coil to provide extra spring tension.



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MANUFACTURING CAPABILITIES:



Sawing | Milling | Drilling | Turning | Tumbling | Surface Grinding | Centerless Grinding

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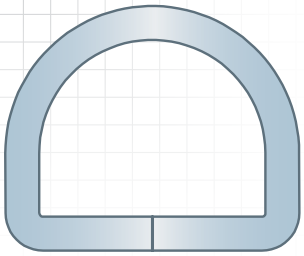
D-RING

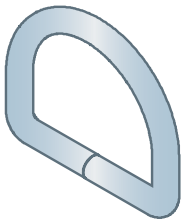
DESCRIPTION

The smooth, edgeless design makes D-rings a simple, sturdy, and inexpensive fastener. Excellent for cloth applications such as tarps and tents. These rings are not designed for overhead lifting.

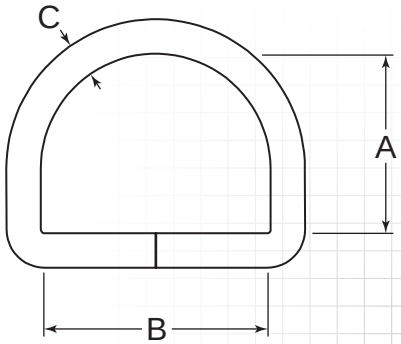
HOW TO IDENTIFY

1. Verify D-shaped wire form.
2. Measure crown height (A).
3. Measure internal length (B).
4. Measure wire diameter (C).
5. Find the part in the chart on the following page.





SEE IMAGES ON NEXT PAGE FOR EXACT CONFIGURATIONS



PREFIX — MATERIAL/FINISH

DRINGB	=	CARBON STEEL, BRASS PLATED
DRINGN	=	CARBON STEEL, NICKEL PLATED
DRINGS	=	STAINLESS STEEL, PLAIN
DRINGZ	=	CARBON STEEL, ZINC CLEAR

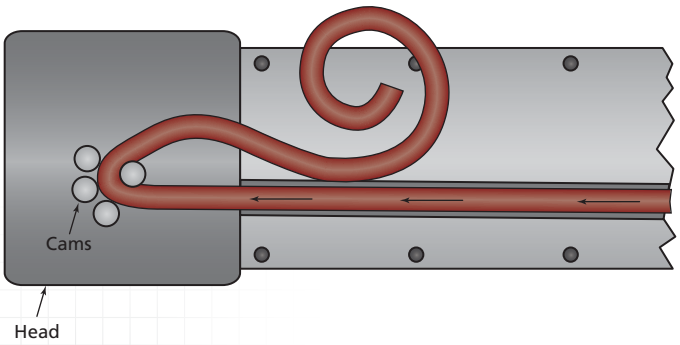
Material/finish combinations may not be available in all sizes.
Product listing on next page.



WIRE FORMING

Wire forms is a category of products that are made by forming round wire to specific angles and lengths. Generally, they are not coiled or spring products but may incorporate a coil or spring in the design. While there are a number of methods used to manufacture wire forms, two more common methods are CNC wire forming and four-slide wire forming.

CNC WIRE FORMING



CNC wire forming machines use a system of computer controlled cams to bend the wire as it is pushed through the machine.

The entire head of the machine rotates to allow bending in varying degrees in any direction.

FOUR-SLIDE

A four-slide is often used to form bridge pins and other complicated wire forms. The four-slide is wire fed and uses cams and a single motor that are timed to four dies that sit around the outside perimeter of a rotary table. The cams time the die impact against the wire, with the wire formed around the dies, similar to a cotter pin.

Each machine stroke advances the part one station forward progressively. After the fourth impact, the formed part is ejected through a hole in the middle of the rotary table. The opportunity for four impacts allows for complex design capabilities.

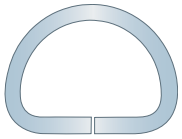
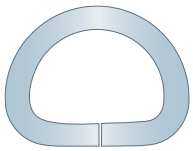
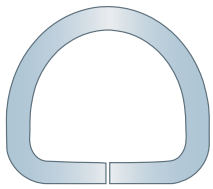
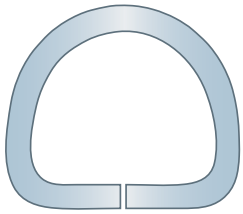
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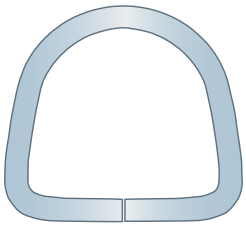
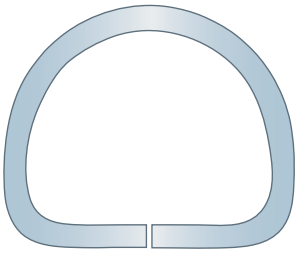
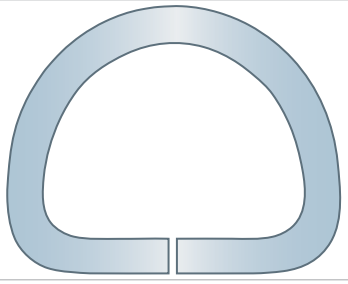
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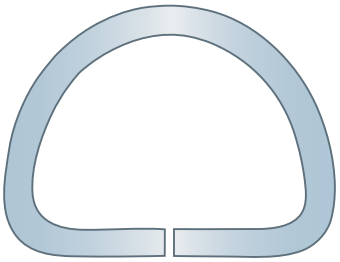
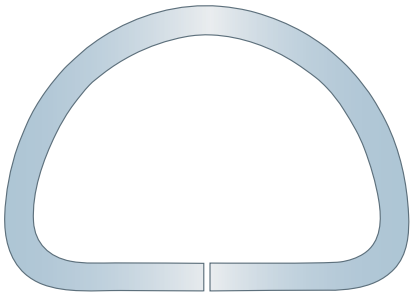
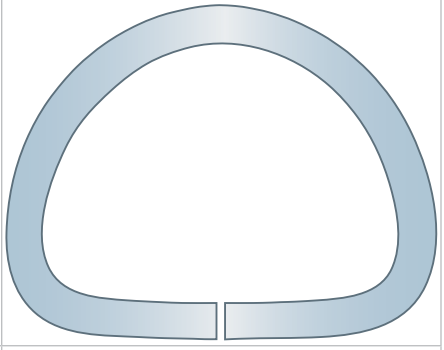
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D-RING

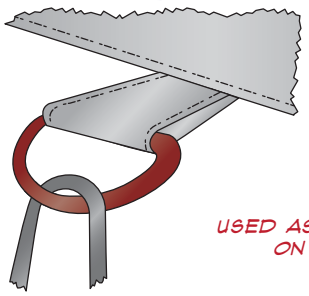
					
ITEM #	PREFIX-612	PREFIX-067	PREFIX-610	PREFIX-061	PREFIX-064
LENGTH	.375" (3/8)	.625" (5/8)	.625" (5/8)	.750" (3/4)	.875" (7/8)
HEIGHT	.313" (5/16)	.438" (7/16)	.438" (7/16)	.625" (5/8)	.750" (3/4)
WIRE DIA.	.080"	.080"	.120"	.120"	.148"

			
ITEM #	PREFIX-062	PREFIX-063	PREFIX-068
LENGTH	1.000" (1)	1.125" (1-1/8)	1.125" (1-1/8)
HEIGHT	.875" (7/8)	.875" (7/8)	.875" (7/8)
WIRE DIA.	.120"	.120"	.177"

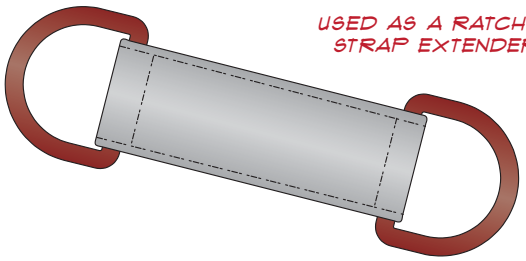
			
ITEM #	PREFIX-065	PREFIX-066	PREFIX-069
LENGTH	1.313" (1-5/16)	1.625" (1-5/8)	1.625" (1-5/8)
HEIGHT	1.000" (1)	1.125" (1-1/8)	1.125" (1-1/8)
WIRE DIA.	.148"	.148"	.177"

Images are approximate actual size.

APPLICATIONS



USED AS A TIE-DOWN ON A TARP



USED AS A RATCHET STRAP EXTENDER

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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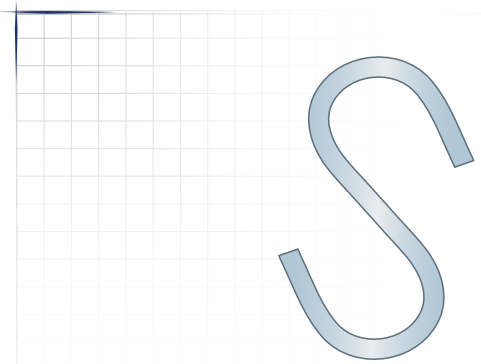
S-HOOK

DESCRIPTION

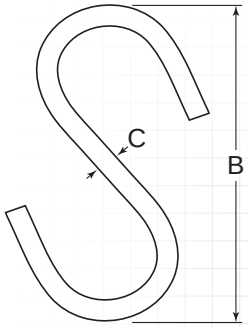
The basic and versatile "S" shape allows these fasteners to be used in light duty applications for temporary hanging and connections. They come in a variety of styles to suit many purposes. These hooks are not designed for overhead lifting.

HOW TO IDENTIFY

1. Verify S-shaped wire form.
2. Measure internal length (B).
3. Measure wire diameter (C).
4. Find the part in the chart below.



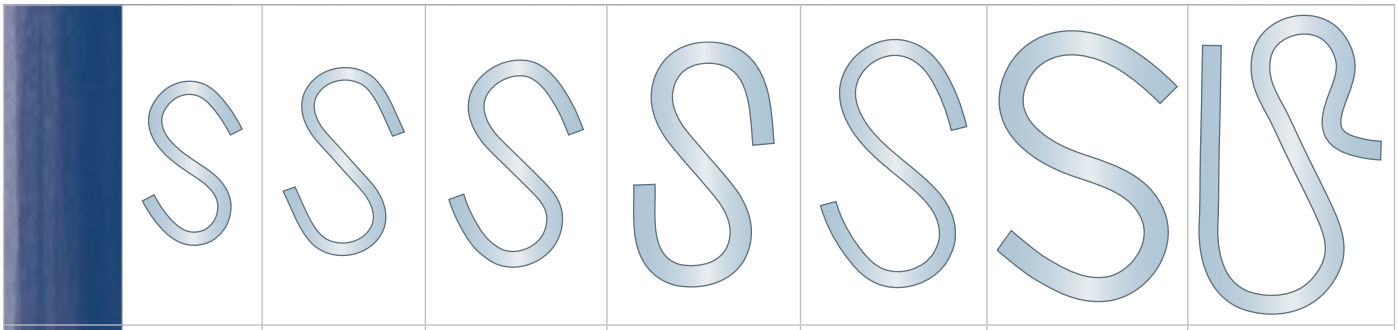
SEE FOLLOWING IMAGES FOR EXACT CONFIGURATIONS



PREFIX MATERIAL/FINISH

SHOOK = CARBON STEEL, ZINC CLEAR
SHKS = STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

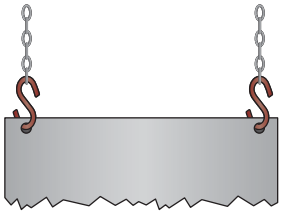




ITEM #	PREFIX-005	PREFIX-001	PREFIX-002	PREFIX-018	PREFIX-003	PREFIX-008	PREFIX-004
LENGTH	.875" (7/8)	1.063" (1-1/16)	1.094" (1-3/32)	1.281" (1-5/32)	1.313" (1-5/16)	1.438" (1-7/16)	1.563" (1-9/16)
WIRE DIA.	.094" (3/32)	.080"	.105"	.135"	.120"	.162"	.135"

Images are approximate actual size.

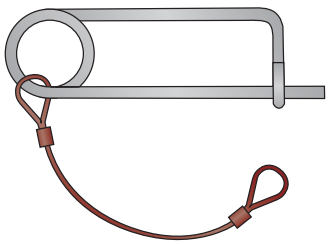
APPLICATION



USED TO HANG A SIGN

PEOPLE WHO BOUGHT THESE ALSO BOUGHT

TETHERS PAIRED WITH SAFETY PINS AID IN LOSS PREVENTION OF YOUR SAFETY PIN WHILE CHANGING MACHINERY



SAFETY PINS
Page 136

TETHERS
Page 128

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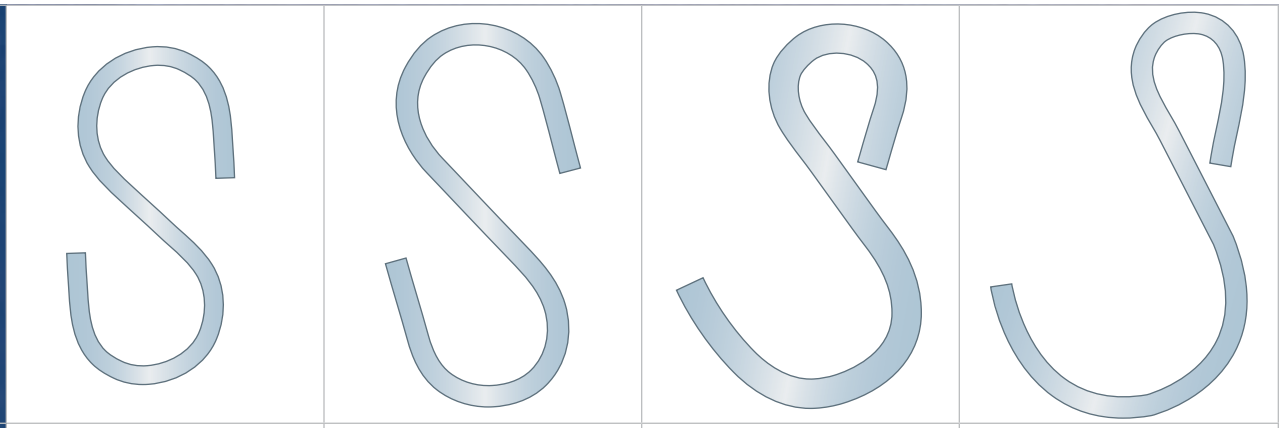
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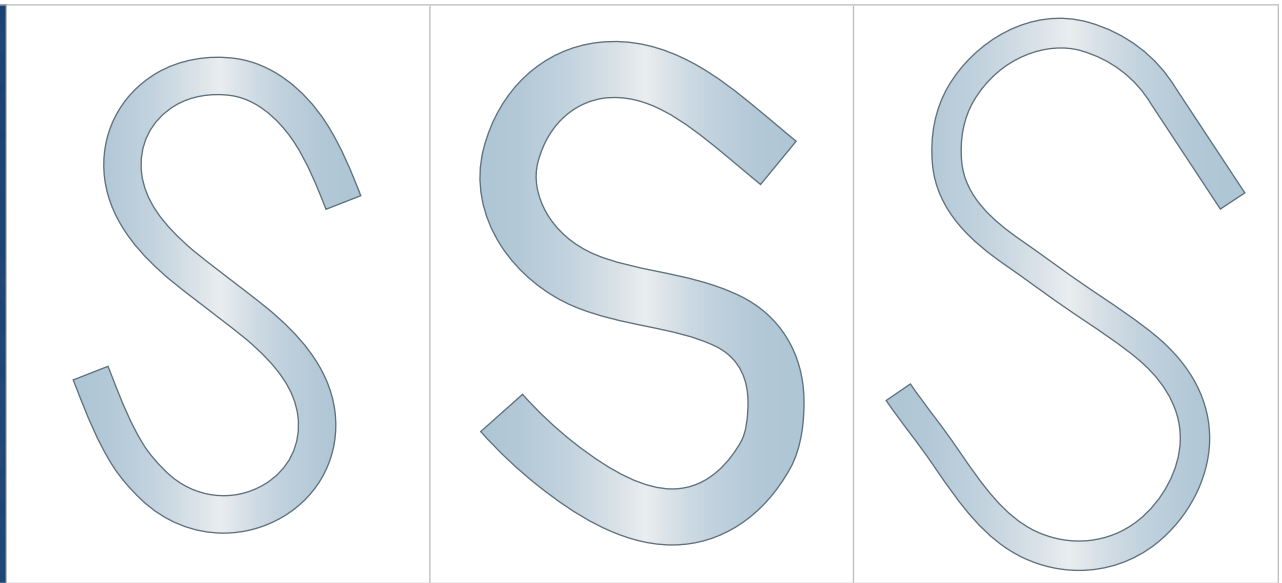
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S-HOOK

				
ITEM #	PREFIX-111	PREFIX-009	PREFIX-006	PREFIX-007
LENGTH	1.750" (1-3/4)	2.000" (2)	2.000" (2)	2.125" (2-1/8)
WIRE DIA.	.105"	.148"	.177"	.120"

			
ITEM #	PREFIX-011	PREFIX-012	PREFIX-010
LENGTH	2.500" (2-1/2)	2.625" (2-5/8)	2.875" (2-7/8)
WIRE DIA.	.250" (1/4)	.313" (5/16)	.188" (3/16)

Images are approximate actual size.

PROUD DISTRIBUTORS OF:

Heritage — Clevis Pins, Bridge Pins, Cotter Pins, Hitch Pins, Machine Keys, & Grease Fittings

ROTOR CLIP — Retaining Rings, Circlips, Hose Clamps, Constant Section Rings, Spiral Rings, & Wave Springs

ALEMITE — Premium Lubrication Fittings & Equipment

Shakeproof group — Clevis Pins

SPIROL — Rolled Pins, Spacers, & Thrust Washers

WOW — Cotter Pins & Wire Forms

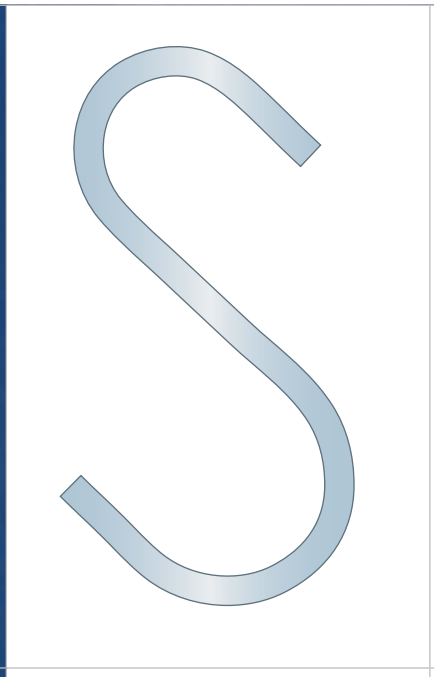
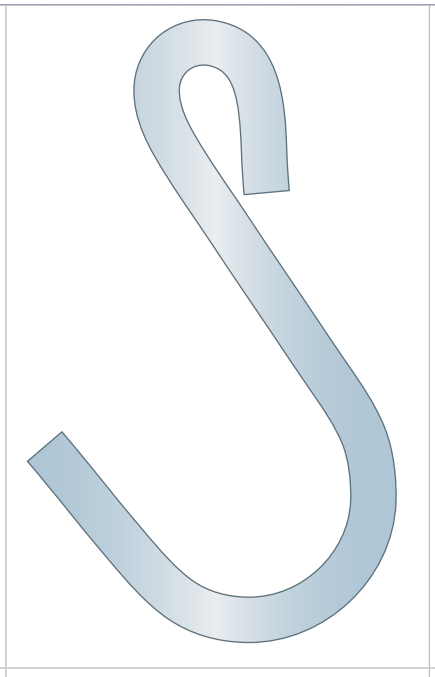
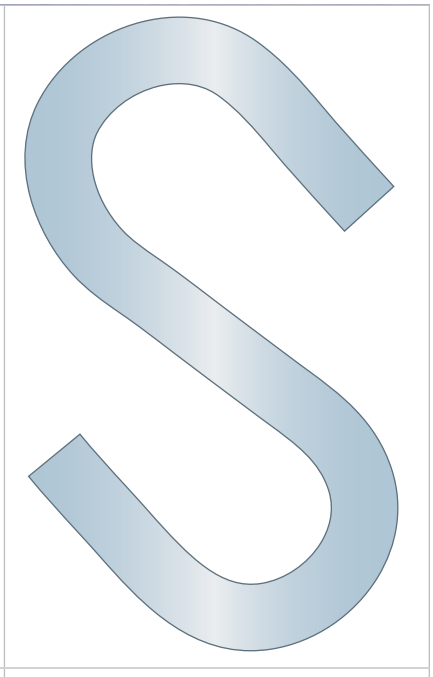
DRIVLOK — Grooved Pins

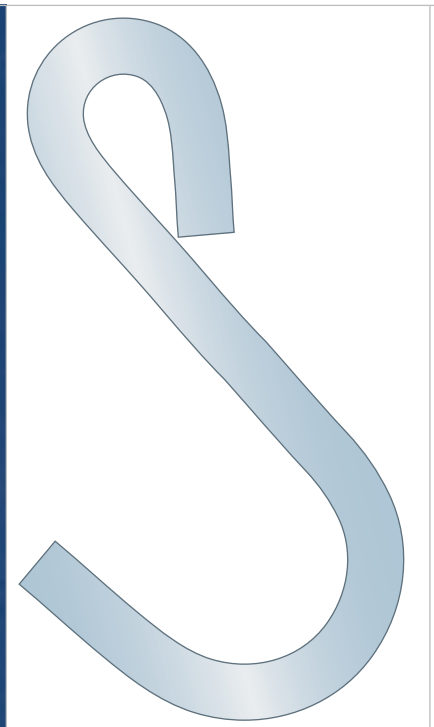
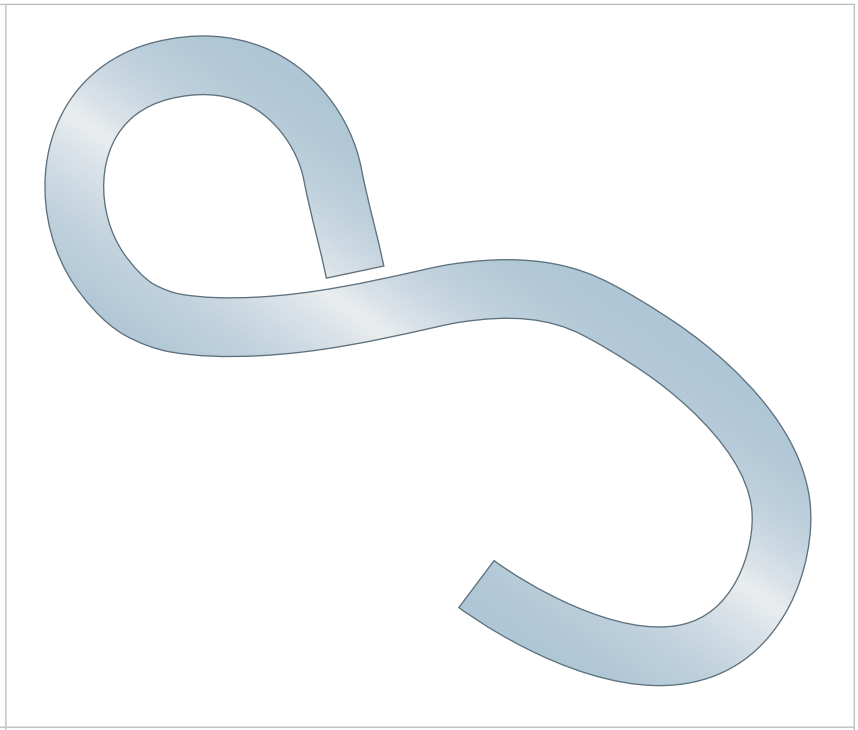
LINCOLN — Domestic Lubrication Fittings & Equipment

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S-HOOK

			
ITEM #	PREFIX-013	PREFIX-016	PREFIX-014
LENGTH	2.875" (2-7/8)	3.000" (3)	3.250" (3-1/4)
WIRE DIA.	.177"	.250" (1/4)	.375" (3/8)

		
ITEM #	PREFIX-015	PREFIX-017
LENGTH	3.625" (3-5/8)	4.625" (4-5/8)
WIRE DIA.	.305"	.375" (3/8)

Images are approximate actual size.

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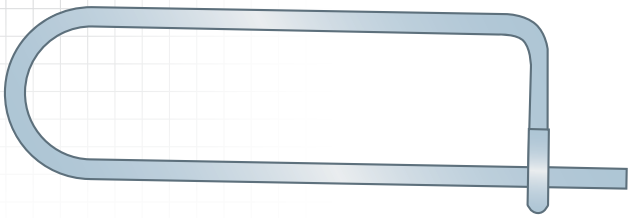
SAFETY PIN – STANDARD

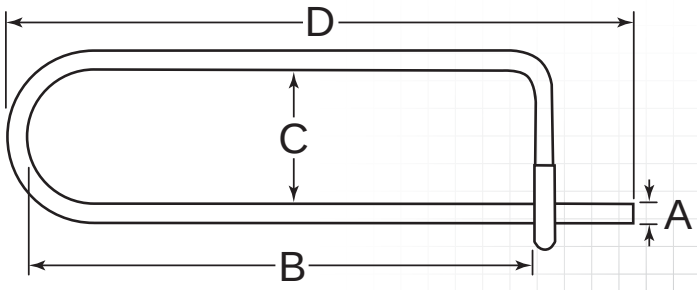
DESCRIPTION

Spring-loaded wire that is self-securing when engaged.

HOW TO IDENTIFY

1. Verify self-locking wire form.
2. Measure wire diameter (A).
3. Measure effective length (B).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

SFP = HARD DRAWN SPRING WIRE, ZINC CLEAR

Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(A) WIRE DIAMETER	(B) EFFECTIVE LENGTH	(C) HEIGHT	(D) OVERALL LENGTH
SFP-047-1250	.047" (3/64)	1.250" (1-1/4)	.282"	1.622"
SFP-047-1500	.047" (3/64)	1.500" (1-1/2)	.260"	1.832"
SFP-047-2187	.047" (3/64)	2.188" (2-3/16)	.260"	2.523"
SFP-062-2500	.063" (1/16)	2.500" (2-1/2)	.517"	2.900"

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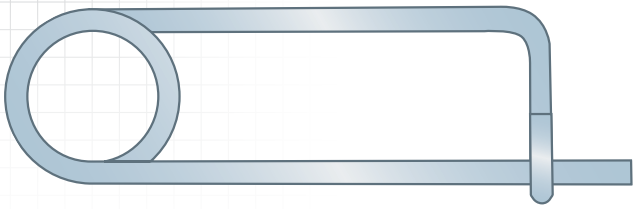
SAFETY PIN – HEAVY DUTY

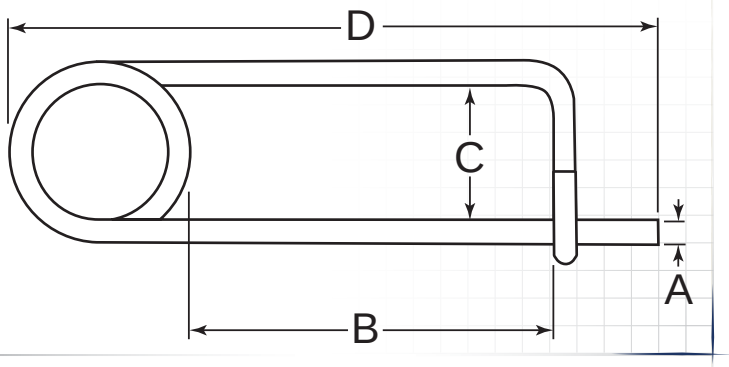
DESCRIPTION

Same features and design as regular safety pins except with heavier gauge wire and an added coil to provide extra spring tension.

HOW TO IDENTIFY

1. Verify self-locking wire form with an added coil.
2. Measure wire diameter (A).
3. Measure effective length (B).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Heavy duty identified by "-H" at end of item number.

SFP = HARD DRAWN SPRING WIRE, ZINC CLEAR
SFPS6 = 316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) WIRE DIAMETER	(B) EFFECTIVE LENGTH	(C) HEIGHT	(D) OVERALL LENGTH
PREFIX-047-0937-H	.047" (3/64)	.938" (15/16)	.375" (3/8)	1.572"
PREFIX-058-1062-H	.058"	1.063" (1-1/16)	.375" (3/8)	1.775"
PREFIX-091-1687-H	.091"	1.688" (1-11/16)	.625" (5/8)	2.763"
PREFIX-120-2750-H	.120"	2.750" (2-3/4)	.875" (7/8)	4.619"
PREFIX-120-2812-H	.120"	2.813" (2-13/16)	.813" (13/16)	4.383"
PREFIX-125-1500-H	.125" (1/8)	1.500" (1-1/2)	.260"	1.832"
PREFIX-148-3750-H	.148"	3.750" (3-3/4)	1.125" (1-1/8)	5.892"
PREFIX-177-3000-H	.177"	3.000" (3)	1.500" (1-1/2)	5.596"
PREFIX-243-5000A-H	.243"	5.000" (5)	1.625" (1-5/8)	8.360"
PREFIX-243-5000B-H	.243"	5.000" (5)	2.250" (2-1/4)	8.860"

PEOPLE WHO BOUGHT THESE ALSO BOUGHT

TYPE 1



TYPE 2



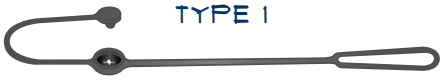
TYPE 3



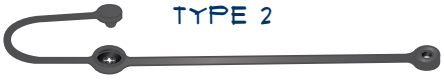
STEEL TETHERS

Page 128

TYPE 1



TYPE 2



NYLON TETHERS

Page 128

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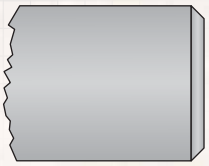
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DOWEL PIN FEATURES

Dowel pins are used as locking devices, pivots, hinges, shafts, jigs, or fixtures to precisely hold or align parts within machinery. Designed to achieve maximum holding power with increased shear strength to absorb lateral stress, they can manually align multiple workpieces, install flush to produce a smooth surface, or protrude beyond the workpiece to ease alignment of mating parts.

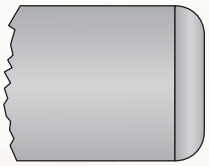
DESIGN CONSIDERATIONS

CHAMFER END



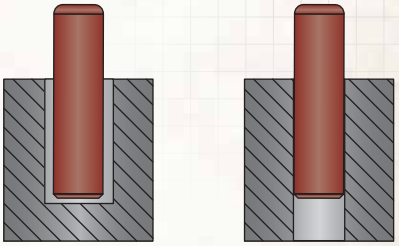
CHAMFER END HELPS GUIDE THE PIN INTO THE HOLE

RADIUS END



RADIUS END RESISTS PART DEFORMATION DURING INSTALLATION

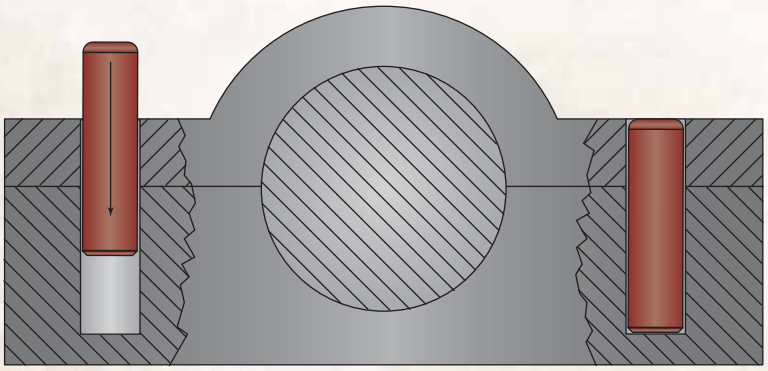
SLIP FIT VS. PRESS FIT



SLIP FITTED DOWEL PINS HAVE SOME PLAY WHEN INSTALLED

PRESS FITTED DOWEL PINS FIT TIGHTLY AND DO NOT MOVE WHEN INSTALLED

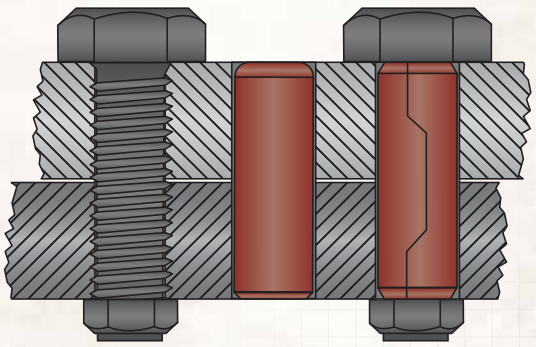
WHEN SELECTING A DOWEL PIN, MAKE SURE THE PIN IS HARDER THAN THE HOST MATERIAL TO PREVENT PIN DEFORMATION



FOR PROPER INSTALLATION OF PRESS FIT DOWEL PINS USE AN ARBOR PRESS

NEVER STRIKE WITH A HAMMER OR MALLET AS IT MAY CAUSE THE PIN TO FAIL





DOWEL PINS DO NOT HAVE FEATURES THAT HOLD ITEMS TOGETHER

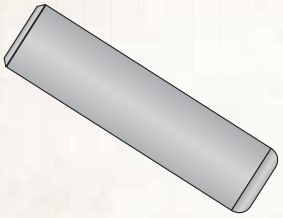
HOLLOW DOWELS ALLOW A FASTENING DEVICE TO PASS THROUGH THE SAME HOLE

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DOWEL PIN TYPES

STANDARD

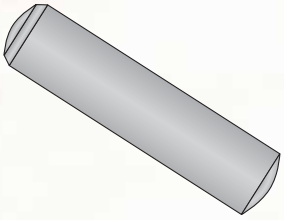
ASME B18.8.2 standard dowel pins have a radius on one end and a chamfer on the other. DIN 7 pins have a spherical radiused crown on each end.



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HARDENED

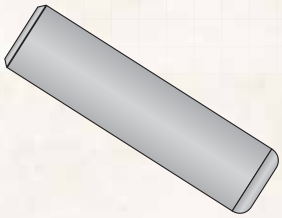
DIN 6325 dowel pins are hardened for heavy duty use. They have a tapered radiused crown on one end and a spherical radiused crown on the other. Available in metric sizes only.



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OVERSIZED

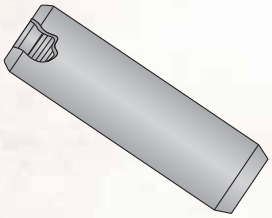
Typically used in aftermarket applications. Parts are .001" oversized to fit into worn or out-of-round holes.



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PULLOUT

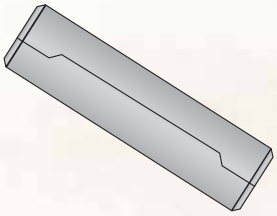
Internally threaded pin manufactured to ASME B18.8.2 specifications. Part may be removed using a removal stud or tool.



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GROUND HOLLOW

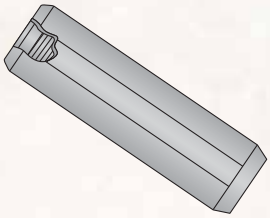
Hollow pin typically used in alignment applications. Reduces the need to drill additional holes required for standard solid dowel alignment applications.



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FLAT VENT

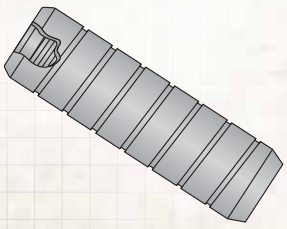
Flat vent dowel pins feature a flat surface that allows air to escape when installed into a blind hole.



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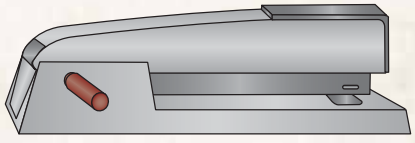
GROOVED

Grooves are cut in a spiral along entire length which allows gas or liquid to escape during insertion while maintaining a 360° circumference contact.

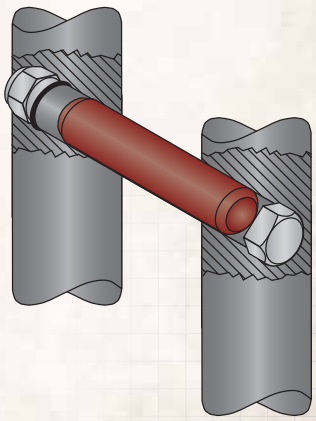


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APPLICATIONS



AS A PIVOTING ELEMENT IN A STAPLER



USED AS A SPACER

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DOWEL PINS

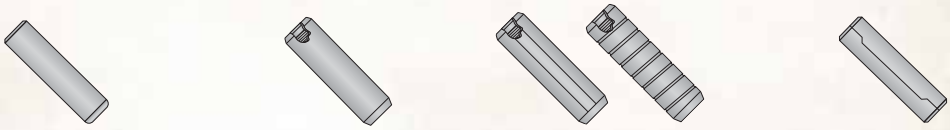
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QUICK REFERENCE GUIDE

A cylindrical solid pin with a chamfered end for easy insertion. Dowel pins are commonly used to retain parts in a fixed position or to preserve alignment.



	STANDARD	PULLOUT	FLAT VENT/ GROOVED	GROUND HOLLOW
COMMON NAMES	Lock Pin, Straight Pin	Pullout Dowel	Flat Vent Dowel, Grooved Dowel	Ground Hollow Dowel
APPLICABLE STANDARDS	ASME B18.8.2; MS 16555; MS 16556; DIN 7 (unhardened); DIN 6325 (hardened); ISO 8734	ASME B18.8.2; DIN 7979D (pullout)	None known.	None known.
FABRICATION	Turning or cold-forming for blank; heat treated; precision centerless grinding.	Turning or cold-forming for blank; thread cutting; heat treated; precision centerless grinding.	Turning or cold-forming for blank; milling; thread cutting; heat treated.	Roll formed and heat treated.
HOW TO IDENTIFY	Nominal diameter × nominal length; define tolerance. Parts are sized based on application. Standard is slightly oversized.	Nominal diameter × nominal length.	Nominal diameter × nominal length.	Nominal diameter × nominal length.
COMMON USES	Precision anchor or pivot often used in locating or joining precision parts. Common in tooling and fixtures. Parts should be pressed and not impact driven into the hole.	Precision anchor or pivot often used in locating or joining precision parts. Common in tooling and fixtures. Parts should be pressed and not impact driven into the hole.	Precision anchor or pivot often used in locating or joining precision parts. Common in tooling and fixtures. Parts should be pressed and not impact driven into the hole.	Hollow design allows dowel pin and fastener to share the same hole. Used where centerline tolerancing and precision alignment are required.
COMMENTS	Measurement of outside diameter is difficult. Must use micrometer and readings can be affected by relative humidity and temperature.	Internal threads assist in part removal after installation.	Flat vent and groove allow gases and liquids to escape during installation. Internal threads assist in part removal after installation.	Hollow feature offers weight savings over solid dowels.

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ASME B18.8.2 STANDARD – IMPERIAL ALLOY

DESCRIPTION

A cylindrical solid pin with a chamfered end for easy insertion. Dowel pins are commonly used to retain parts in a fixed position or to preserve alignment.

HOW TO IDENTIFY

1. Verify solid pin with chamfered end design.
2. Measure diameter (A).
3. Measure length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DOW = ALLOY STEEL, PLAIN*
DOWBO = ALLOY STEEL, BLACK OXIDE
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1/64 (.0156")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-015-0250	.250" (1/4)
PREFIX-015-0500	.500" (1/2)

1/32 (.0312")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-031-0125	.125" (1/8)
PREFIX-031-0187	.188" (3/16)
PREFIX-031-0250	.250" (1/4)
PREFIX-031-0312	.313" (5/16)
PREFIX-031-0375	.375" (3/8)
PREFIX-031-0437	.438" (7/16)
PREFIX-031-0500	.500" (1/2)
PREFIX-031-0562	.563" (9/16)
PREFIX-031-0625	.625" (5/8)
PREFIX-031-0750	.750" (3/4)
PREFIX-031-0875	.875" (7/8)
PREFIX-031-1000	1.000" (1)

3/64 (.0468")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-046-0250	.250" (1/4)
PREFIX-046-0312	.313" (5/16)
PREFIX-046-0375	.375" (3/8)
PREFIX-046-0437	.438" (7/16)
PREFIX-046-0500	.500" (1/2)
PREFIX-046-0750	.750" (3/4)
PREFIX-046-1000	1.000" (1)

1/16 (.0625")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-062-0093	.094" (3/32)
PREFIX-062-0125	.125" (1/8)
PREFIX-062-0156	.156" (5/32)
PREFIX-062-0187	.188" (3/16)
PREFIX-062-0250	.250" (1/4)
PREFIX-062-0312	.313" (5/16)
PREFIX-062-0375	.375" (3/8)
PREFIX-062-0437	.438" (7/16)
PREFIX-062-0500	.500" (1/2)
PREFIX-062-0562	.563" (9/16)
PREFIX-062-0625	.625" (5/8)
PREFIX-062-0687	.688" (11/16)
PREFIX-062-0750	.750" (3/4)
PREFIX-062-0875	.875" (7/8)
PREFIX-062-0938	.094" (3/32)
PREFIX-062-1000	1.000" (1)
PREFIX-062-1250	1.250" (1-1/4)
PREFIX-062-1500	1.500" (1-1/2)
PREFIX-062-1750	1.750" (1-3/4)
PREFIX-062-2000	2.000" (2)
PREFIX-062-2500	2.500" (2-1/2)
PREFIX-062-3000	3.000" (3)

5/64 (.0781")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-078-0187	.188" (3/16)
PREFIX-078-0250	.250" (1/4)
PREFIX-078-0312	.313" (5/16)
PREFIX-078-0375	.375" (3/8)
PREFIX-078-0437	.438" (7/16)
PREFIX-078-0500	.500" (1/2)
PREFIX-078-0625	.625" (5/8)
PREFIX-078-0750	.750" (3/4)
PREFIX-078-1000	1.000" (1)

3/32 (.0938")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-093-0125	.125" (1/8)
PREFIX-093-0187	.188" (3/16)
PREFIX-093-0250	.250" (1/4)
PREFIX-093-0312	.313" (5/16)

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

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STANDARD – IMPERIAL ALLOY

ASME B18.8.2

3/32 (.0938")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-093-0375	.375" (3/8)
PREFIX-093-0437	.438" (7/16)
PREFIX-093-0500	.500" (1/2)
PREFIX-093-0562	.563" (9/16)
PREFIX-093-0625	.625" (5/8)
PREFIX-093-0687	.688" (11/16)
PREFIX-093-0750	.750" (3/4)
PREFIX-093-0875	.875" (7/8)
PREFIX-093-0937	.938" (15/16)
PREFIX-093-1000	1.000" (1)
PREFIX-093-1125	1.125" (1-1/8)
PREFIX-093-1250	1.250" (1-1/4)
PREFIX-093-1375	1.375" (1-3/8)
PREFIX-093-1500	1.500" (1-1/2)
PREFIX-093-1750	1.750" (1-3/4)
PREFIX-093-2000	2.000" (2)
PREFIX-093-3000	3.000" (3)

7/64 (.1093")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-109-0375	.375" (3/8)
PREFIX-109-0500	.500" (1/2)
PREFIX-109-0625	.625" (5/8)
PREFIX-109-0750	.750" (3/4)
PREFIX-109-1000	1.000" (1)
PREFIX-109-1500	1.500" (1-1/2)

1/8 (.1250")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-125-0125	.125" (1/8)
PREFIX-125-0156	.156" (5/32)
PREFIX-125-0187	.188" (3/16)
PREFIX-125-0250	.250" (1/4)
PREFIX-125-0312	.313" (5/16)
PREFIX-125-0375	.375" (3/8)
PREFIX-125-0437	.438" (7/16)
PREFIX-125-0500	.500" (1/2)
PREFIX-125-0562	.563" (9/16)
PREFIX-125-0625	.625" (5/8)
PREFIX-125-0687	.688" (11/16)
PREFIX-125-0750	.750" (3/4)
PREFIX-125-0812	.813" (13/16)

1/8 (.1250")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-125-0875	.875" (7/8)
PREFIX-125-0937	.938" (15/16)
PREFIX-125-1000	1.000" (1)
PREFIX-125-1125	1.125" (1-1/8)
PREFIX-125-1250	1.250" (1-1/4)
PREFIX-125-1375	1.375" (1-3/8)
PREFIX-125-1500	1.500" (1-1/2)
PREFIX-125-1625	1.625" (1-5/8)
PREFIX-125-1750	1.750" (1-3/4)
PREFIX-125-2000	2.000" (2)
PREFIX-125-2250	2.250" (2-1/4)
PREFIX-125-2500	2.500" (2-1/2)
PREFIX-125-2750	2.750" (2-3/4)
PREFIX-125-3000	3.000" (3)
PREFIX-125-3500	3.500" (3-1/2)
PREFIX-125-4000	4.000" (4)

5/32 (.1562")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-156-0187	.188" (3/16)
PREFIX-156-0250	.250" (1/4)
PREFIX-156-0312	.313" (5/16)
PREFIX-156-0375	.375" (3/8)
PREFIX-156-0406	.406" (13/32)
PREFIX-156-0437	.438" (7/16)
PREFIX-156-0500	.500" (1/2)
PREFIX-156-0562	.563" (9/16)
PREFIX-156-0625	.625" (5/8)
PREFIX-156-0750	.750" (3/4)
PREFIX-156-0875	.875" (7/8)
PREFIX-156-1000	1.000" (1)
PREFIX-156-1125	1.125" (1-1/8)
PREFIX-156-1250	1.250" (1-1/4)
PREFIX-156-1375	1.375" (1-3/8)
PREFIX-156-1500	1.500" (1-1/2)
PREFIX-156-1750	1.750" (1-3/4)
PREFIX-156-2000	2.000" (2)
PREFIX-156-2500	2.500" (2-1/2)
PREFIX-156-3000	3.000" (3)
PREFIX-156-4000	4.000" (4)

3/16 (.1875")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-187-0250	.250" (1/4)
PREFIX-187-0312	.313" (5/16)
PREFIX-187-0375	.375" (3/8)
PREFIX-187-0437	.438" (7/16)
PREFIX-187-0500	.500" (1/2)
PREFIX-187-0562	.563" (9/16)
PREFIX-187-0625	.625" (5/8)
PREFIX-187-0687	.688" (11/16)
PREFIX-187-0750	.750" (3/4)
PREFIX-187-0812	.813" (13/16)
PREFIX-187-0875	.875" (7/8)
PREFIX-187-0937	.938" (15/16)
PREFIX-187-1000	1.000" (1)
PREFIX-187-1125	1.125" (1-1/8)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1375	1.375" (1-3/8)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1625	1.625" (1-5/8)
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-1875	1.875" (1-7/8)
PREFIX-187-2000	2.000" (2)
PREFIX-187-2125	2.125" (2-1/8)
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)
PREFIX-187-2750	2.750" (2-3/4)
PREFIX-187-3000	3.000" (3)
PREFIX-187-3500	3.500" (3-1/2)
PREFIX-187-4000	4.000" (4)

7/32 (.2188")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-218-0250	.250" (1/4)
PREFIX-218-0375	.375" (3/8)
PREFIX-218-0500	.500" (1/2)
PREFIX-218-0750	.750" (3/4)
PREFIX-218-1000	1.000" (1)
PREFIX-218-1250	1.250" (1-1/4)
PREFIX-218-1500	1.500" (1-1/2)
PREFIX-218-2000	2.000" (2)

1/4 (.2500")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-250-0250	.250" (1/4)
PREFIX-250-0312	.313" (5/16)
PREFIX-250-0375	.375" (3/8)
PREFIX-250-0437	.438" (7/16)
PREFIX-250-0500	.500" (1/2)
PREFIX-250-0562	.563" (9/16)
PREFIX-250-0625	.625" (5/8)
PREFIX-250-0687	.688" (11/16)
PREFIX-250-0750	.750" (3/4)
PREFIX-250-0812	.813" (13/16)
PREFIX-250-0875	.875" (7/8)
PREFIX-250-0937	.938" (15/16)
PREFIX-250-1000	1.000" (1)
PREFIX-250-1125	1.125" (1-1/8)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

DOW • DOWBO

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

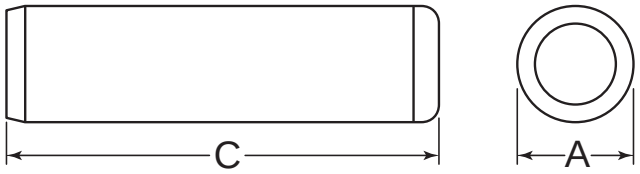
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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

ASME B18.8.2 STANDARD – IMPERIAL ALLOY

PREFIX		MATERIAL/FINISH
DOW	=	ALLOY STEEL, PLAIN*
DOWBO	=	ALLOY STEEL, BLACK OXIDE

Material/finish combinations may not be available in all sizes.



ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1375	1.375" (1-3/8)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1625	1.625" (1-5/8)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-1875	1.875" (1-7/8)
PREFIX-250-2000	2.000" (2)
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-2750	2.750" (2-3/4)
PREFIX-250-3000	3.000" (3)
PREFIX-250-3250	3.250" (3-1/4)
PREFIX-250-3500	3.500" (3-1/2)
PREFIX-250-3750	3.750" (3-3/4)
PREFIX-250-4000	4.000" (4)
PREFIX-250-4500	4.500" (4-1/2)
PREFIX-250-5000	5.000" (5)
PREFIX-250-6000	6.000" (6)

9/32 (.2812")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-281-0500	.500" (1/2)

5/16 (.3125")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-312-0375	.375" (3/8)
PREFIX-312-0500	.500" (1/2)
PREFIX-312-0562	.563" (9/16)
PREFIX-312-0625	.625" (5/8)
PREFIX-312-0750	.750" (3/4)
PREFIX-312-0875	.875" (7/8)
PREFIX-312-1000	1.000" (1)
PREFIX-312-1125	1.125" (1-1/8)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1375	1.375" (1-3/8)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1625	1.625" (1-5/8)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-2000	2.000" (2)
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
PREFIX-312-3250	3.250" (3-1/4)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-3750	3.750" (3-3/4)

5/16 (.3125")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-312-4000	4.000" (4)
PREFIX-312-5000	5.000" (5)

3/8 (.3750")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-375-0375	.375" (3/8)
PREFIX-375-0500	.500" (1/2)
PREFIX-375-0562	.563" (9/16)
PREFIX-375-0625	.625" (5/8)
PREFIX-375-0750	.750" (3/4)
PREFIX-375-0875	.875" (7/8)
PREFIX-375-1000	1.000" (1)
PREFIX-375-1125	1.125" (1-1/8)
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1375	1.375" (1-3/8)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1625	1.625" (1-5/8)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-2000	2.000" (2)
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-2750	2.750" (2-3/4)
PREFIX-375-3000	3.000" (3)
PREFIX-375-3250	3.250" (3-1/4)
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-3750	3.750" (3-3/4)
PREFIX-375-4000	4.000" (4)
PREFIX-375-4500	4.500" (4-1/2)
PREFIX-375-5000	5.000" (5)
PREFIX-375-6000	6.000" (6)

7/16 (.4375")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-437-0500	.500" (1/2)
PREFIX-437-0625	.625" (5/8)
PREFIX-437-0750	.750" (3/4)
PREFIX-437-0875	.875" (7/8)
PREFIX-437-1000	1.000" (1)
PREFIX-437-1125	1.125" (1-1/8)
PREFIX-437-1250	1.250" (1-1/4)
PREFIX-437-1500	1.500" (1-1/2)
PREFIX-437-1750	1.750" (1-3/4)
PREFIX-437-2000	2.000" (2)
PREFIX-437-2250	2.250" (2-1/4)
PREFIX-437-2500	2.500" (2-1/2)
PREFIX-437-2750	2.750" (2-3/4)
PREFIX-437-3000	3.000" (3)
PREFIX-437-3500	3.500" (3-1/2)
PREFIX-437-4000	4.000" (4)
PREFIX-437-5000	5.000" (5)

1/2 (.5000")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-500-0500	.500" (1/2)
PREFIX-500-0625	.625" (5/8)
PREFIX-500-0750	.750" (3/4)
PREFIX-500-0875	.875" (7/8)
PREFIX-500-1000	1.000" (1)
PREFIX-500-1125	1.125" (1-1/8)
PREFIX-500-1250	1.250" (1-1/4)
PREFIX-500-1375	1.375" (1-3/8)
PREFIX-500-1437	1.438" (1-7/16)
PREFIX-500-1500	1.500" (1-1/2)
PREFIX-500-1625	1.625" (1-5/8)
PREFIX-500-1750	1.750" (1-3/4)
PREFIX-500-2000	2.000" (2)
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-2750	2.750" (2-3/4)
PREFIX-500-3000	3.000" (3)
PREFIX-500-3250	3.250" (3-1/4)
PREFIX-500-3500	3.500" (3-1/2)
PREFIX-500-3750	3.750" (3-3/4)
PREFIX-500-4000	4.000" (4)
PREFIX-500-4500	4.500" (4-1/2)
PREFIX-500-5000	5.000" (5)
PREFIX-500-6000	6.000" (6)
PREFIX-500-8000	8.000" (8)
PREFIX-500-10000	10.000" (10)

9/16 (.5625")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-562-1000	1.000" (1)
PREFIX-562-1500	1.500" (1-1/2)
PREFIX-562-2000	2.000" (2)
PREFIX-562-3000	3.000" (3)
PREFIX-562-4000	4.000" (4)

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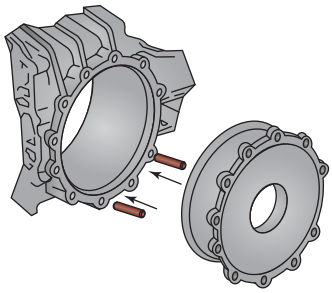
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STANDARD – IMPERIAL ALLOY

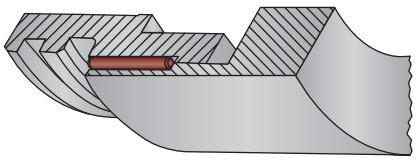
ASME B18.8.2

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
5/8 (.6250") (A) Outside Diameter: +.0003/+.0001"	
PREFIX-625-0625	.625" (5/8)
PREFIX-625-0750	.750" (3/4)
PREFIX-625-0875	.875" (7/8)
PREFIX-625-1000	1.000" (1)
PREFIX-625-1125	1.125" (1-1/8)
PREFIX-625-1250	1.250" (1-1/4)
PREFIX-625-1375	1.375" (1-3/8)
PREFIX-625-1500	1.500" (1-1/2)
PREFIX-625-1750	1.750" (1-3/4)
PREFIX-625-2000	2.000" (2)
PREFIX-625-2250	2.250" (2-1/4)
PREFIX-625-2500	2.500" (2-1/2)
PREFIX-625-2750	2.750" (2-3/4)
PREFIX-625-3000	3.000" (3)
PREFIX-625-3250	3.250" (3-1/4)
PREFIX-625-3500	3.500" (3-1/2)
PREFIX-625-3750	3.750" (3-3/4)
PREFIX-625-4000	4.000" (4)
PREFIX-625-4500	4.500" (4-1/2)
PREFIX-625-5000	5.000" (5)
PREFIX-625-6000	6.000" (6)
3/4 (.7500") (A) Outside Diameter: +.0003/+.0001"	
PREFIX-750-0750	.750" (3/4)
PREFIX-750-1000	1.000" (1)
PREFIX-750-1250	1.250" (1-1/4)
PREFIX-750-1375	1.375" (1-3/8)
PREFIX-750-1500	1.500" (1-1/2)
PREFIX-750-1750	1.750" (1-3/4)
PREFIX-750-2000	2.000" (2)
PREFIX-750-2250	2.250" (2-1/4)
PREFIX-750-2500	2.500" (2-1/2)
PREFIX-750-2750	2.750" (2-3/4)
PREFIX-750-3000	3.000" (3)
PREFIX-750-3250	3.250" (3-1/4)
PREFIX-750-3500	3.500" (3-1/2)
PREFIX-750-3750	3.750" (3-3/4)
PREFIX-750-4000	4.000" (4)
PREFIX-750-4500	4.500" (4-1/2)
PREFIX-750-5000	5.000" (5)
PREFIX-750-6000	6.000" (6)
PREFIX-750-8000	8.000" (8)
PREFIX-750-10000	10.000" (10)
7/8 (.8750") (A) Outside Diameter: +.0003/+.0001"	
PREFIX-875-0875	.875" (7/8)
PREFIX-875-1000	1.000" (1)
PREFIX-875-1500	1.500" (1-1/2)
PREFIX-875-2000	2.000" (2)
PREFIX-875-2250	2.250" (2-1/4)
7/8 (.8750") (A) Outside Diameter: +.0003/+.0001"	
PREFIX-875-2500	2.500" (2-1/2)
PREFIX-875-2750	2.750" (2-3/4)
PREFIX-875-3000	3.000" (3)
PREFIX-875-3250	3.250" (3-1/4)
PREFIX-875-3500	3.500" (3-1/2)
PREFIX-875-3750	3.750" (3-3/4)
PREFIX-875-4000	4.000" (4)
PREFIX-875-4500	4.500" (4-1/2)
PREFIX-875-5000	5.000" (5)
PREFIX-875-6000	6.000" (6)
1 (1.0000") (A) Outside Diameter: +.0003/+.0001"	
PREFIX-1000-1000	1.000" (1)
PREFIX-1000-1250	1.250" (1-1/4)
PREFIX-1000-1375	1.375" (1-3/8)
PREFIX-1000-1500	1.500" (1-1/2)
PREFIX-1000-1750	1.750" (1-3/4)
PREFIX-1000-2000	2.000" (2)
PREFIX-1000-2250	2.250" (2-1/4)
PREFIX-1000-2500	2.500" (2-1/2)
PREFIX-1000-2750	2.750" (2-3/4)
PREFIX-1000-3000	3.000" (3)
PREFIX-1000-3250	3.250" (3-1/4)
PREFIX-1000-3500	3.500" (3-1/2)
PREFIX-1000-3750	3.750" (3-3/4)
PREFIX-1000-4000	4.000" (4)
PREFIX-1000-4500	4.500" (4-1/2)
PREFIX-1000-5000	5.000" (5)
PREFIX-1000-6000	6.000" (6)
PREFIX-1000-8000	8.000" (8)
PREFIX-1000-10000	10.000" (10)
1-1/4 (1.2500") (A) Outside Diameter: +.0003/+.0001"	
PREFIX-1250-1500	1.500" (1-1/2)
PREFIX-1250-2000	2.000" (2)
PREFIX-1250-3000	3.000" (3)
PREFIX-1250-4000	4.000" (4)
PREFIX-1250-6000	6.000" (6)

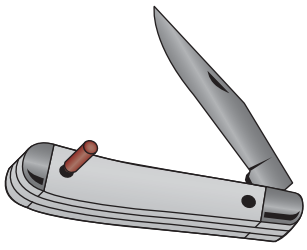
APPLICATIONS



BELL HOUSING POSITIONING ELEMENT



TRANSMITTING TORQUE IN A SEAL



DOWEL PINS ARE COMMONLY USED TO RETAIN A FIXED POSITION OR TO PRESERVE ALIGNMENT

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

STANDARD – IMPERIAL STAINLESS

DESCRIPTION

A cylindrical solid pin with a chamfered end for easy insertion. Dowel pins are commonly used to retain parts in a fixed position or to preserve alignment.

HOW TO IDENTIFY

1. Verify solid pin with chamfered end design.
2. Measure diameter (A).
3. Measure length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DOWS	=	416 STAINLESS STEEL, PLAIN
DOWS3	=	18-8 STAINLESS STEEL, PLAIN
DOWS6	=	316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1/64 (.0156")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-015-0938	.094" (3/32)
PREFIX-015-0125	.125" (1/8)
PREFIX-015-0187	.188" (3/16)
PREFIX-015-0250	.250" (1/4)
PREFIX-015-0375	.375" (3/8)
PREFIX-015-0500	.500" (1/2)

1/32 (.0312")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-031-0125	.125" (1/8)
PREFIX-031-0187	.188" (3/16)
PREFIX-031-0250	.250" (1/4)
PREFIX-031-0312	.313" (5/16)
PREFIX-031-0375	.375" (3/8)
PREFIX-031-0437	.438" (7/16)
PREFIX-031-0500	.500" (1/2)
PREFIX-031-0562	.563" (9/16)
PREFIX-031-0625	.625" (5/8)
PREFIX-031-0750	.750" (3/4)
PREFIX-031-0875	.875" (7/8)
PREFIX-031-1000	1.000" (1)

3/64 (.0468")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-046-0187	.188" (3/16)
PREFIX-046-0250	.250" (1/4)
PREFIX-046-0312	.313" (5/16)
PREFIX-046-0375	.375" (3/8)
PREFIX-046-0437	.438" (7/16)
PREFIX-046-0500	.500" (1/2)
PREFIX-046-0750	.750" (3/4)

1/16 (.0625")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-062-0125	.125" (1/8)
PREFIX-062-0187	.188" (3/16)
PREFIX-062-0250	.250" (1/4)
PREFIX-062-0312	.313" (5/16)
PREFIX-062-0375	.375" (3/8)
PREFIX-062-0437	.438" (7/16)
PREFIX-062-0500	.500" (1/2)
PREFIX-062-0562	.563" (9/16)
PREFIX-062-0625	.625" (5/8)
PREFIX-062-0687	.688" (11/16)
PREFIX-062-0750	.750" (3/4)
PREFIX-062-0875	.875" (7/8)
PREFIX-062-1000	1.000" (1)
PREFIX-062-1250	1.250" (1-1/4)
PREFIX-062-1500	1.500" (1-1/2)
PREFIX-062-1750	1.750" (1-3/4)
PREFIX-062-2000	2.000" (2)
PREFIX-062-2500	2.500" (2-1/2)
PREFIX-062-3000	3.000" (3)

5/64 (.0781")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-078-0187	.188" (3/16)
PREFIX-078-0250	.250" (1/4)
PREFIX-078-0312	.313" (5/16)
PREFIX-078-0375	.375" (3/8)
PREFIX-078-0500	.500" (1/2)
PREFIX-078-0750	.750" (3/4)
PREFIX-078-0875	.875" (7/8)
PREFIX-078-1000	1.000" (1)
PREFIX-078-1187	1.188" (1-3/16)

3/32 (.0938")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-093-0187	.188" (3/16)
PREFIX-093-0250	.250" (1/4)
PREFIX-093-0312	.313" (5/16)

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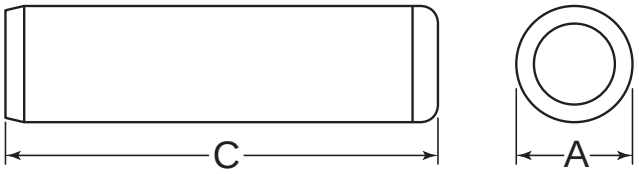
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STANDARD – IMPERIAL STAINLESS

PREFIX		MATERIAL/FINISH
DOWS	=	416 STAINLESS STEEL, PLAIN
DOWS3	=	18-8 STAINLESS STEEL, PLAIN
DOWS6	=	316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



3/32 (.0938")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-093-0375	.375" (3/8)
PREFIX-093-0437	.438" (7/16)
PREFIX-093-0500	.500" (1/2)
PREFIX-093-0562	.563" (9/16)
PREFIX-093-0625	.625" (5/8)
PREFIX-093-0687	.688" (11/16)
PREFIX-093-0750	.750" (3/4)
PREFIX-093-0875	.875" (7/8)
PREFIX-093-0937	.938" (15/16)
PREFIX-093-1000	1.000" (1)
PREFIX-093-1125	1.125" (1-1/8)
PREFIX-093-1250	1.250" (1-1/4)
PREFIX-093-1375	1.375" (1-3/8)
PREFIX-093-1500	1.500" (1-1/2)
PREFIX-093-1750	1.750" (1-3/4)
PREFIX-093-2000	2.000" (2)

7/64 (.1093")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-109-0187	.188" (3/16)
PREFIX-109-0437	.438" (7/16)
PREFIX-109-0500	.500" (1/2)
PREFIX-109-0687	.688" (11/16)
PREFIX-109-1000	1.000" (1)
PREFIX-109-1500	1.500" (1-1/2)

1/8 (.1250")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-125-0187	.188" (3/16)
PREFIX-125-0250	.250" (1/4)
PREFIX-125-0312	.313" (5/16)
PREFIX-125-0375	.375" (3/8)
PREFIX-125-0437	.438" (7/16)
PREFIX-125-0500	.500" (1/2)
PREFIX-125-3500	.500" (1/2)
PREFIX-125-0562	.563" (9/16)
PREFIX-125-0625	.625" (5/8)
PREFIX-125-0750	.750" (3/4)
PREFIX-125-0875	.875" (7/8)
PREFIX-125-1000	1.000" (1)
PREFIX-125-1125	1.125" (1-1/8)
PREFIX-125-1187	1.188" (1-3/16)
PREFIX-125-1250	1.250" (1-1/4)
PREFIX-125-1375	1.375" (1-3/8)
PREFIX-125-1500	1.500" (1-1/2)
PREFIX-125-1625	1.625" (1-5/8)
PREFIX-125-1750	1.750" (1-3/4)
PREFIX-125-2000	2.000" (2)
PREFIX-125-2250	2.250" (2-1/4)
PREFIX-125-2500	2.500" (2-1/2)
PREFIX-125-2750	2.750" (2-3/4)
PREFIX-125-3000	3.000" (3)
PREFIX-125-4000	4.000" (4)

5/32 (.1562")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-156-0187	.188" (3/16)
PREFIX-156-0250	.250" (1/4)
PREFIX-156-0312	.313" (5/16)
PREFIX-156-0375	.375" (3/8)
PREFIX-156-0437	.438" (7/16)
PREFIX-156-0500	.500" (1/2)
PREFIX-156-0562	.563" (9/16)
PREFIX-156-0625	.625" (5/8)
PREFIX-156-0687	.688" (11/16)
PREFIX-156-0750	.750" (3/4)
PREFIX-156-0875	.875" (7/8)
PREFIX-156-0937	.938" (15/16)
PREFIX-156-1000	1.000" (1)
PREFIX-156-1125	1.125" (1-1/8)
PREFIX-156-1250	1.250" (1-1/4)
PREFIX-156-1375	1.375" (1-3/8)
PREFIX-156-1500	1.500" (1-1/2)
PREFIX-156-1750	1.750" (1-3/4)
PREFIX-156-2000	2.000" (2)
PREFIX-156-2250	2.250" (2-1/4)
PREFIX-156-3000	3.000" (3)

3/16 (.1875")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-187-0250	.250" (1/4)
PREFIX-187-0312	.313" (5/16)
PREFIX-187-0375	.375" (3/8)
PREFIX-187-0437	.438" (7/16)
PREFIX-187-0500	.500" (1/2)
PREFIX-187-0562	.563" (9/16)
PREFIX-187-0625	.625" (5/8)
PREFIX-187-0750	.750" (3/4)
PREFIX-187-0875	.875" (7/8)
PREFIX-187-1000	1.000" (1)
PREFIX-187-1125	1.125" (1-1/8)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1375	1.375" (1-3/8)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1625	1.625" (1-5/8)
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-2000	2.000" (2)
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)
PREFIX-187-2750	2.750" (2-3/4)
PREFIX-187-3000	3.000" (3)
PREFIX-187-3500	3.500" (3-1/2)
PREFIX-187-4000	4.000" (4)

7/32 (.2187")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-218-0250	.250" (1/4)
PREFIX-218-0500	.500" (1/2)
PREFIX-218-0750	.750" (3/4)
PREFIX-218-1000	1.000" (1)
PREFIX-218-2000	2.000" (2)

1/4 (.2500")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-250-0250	.250" (1/4)
PREFIX-250-0312	.313" (5/16)
PREFIX-250-0375	.375" (3/8)
PREFIX-250-0437	.438" (7/16)
PREFIX-250-0500	.500" (1/2)
PREFIX-250-0562	.563" (9/16)

1/4 (.2500")
(A) Outside Diameter: +.0003/+.0001"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-250-0625	.625" (5/8)
PREFIX-250-0750	.750" (3/4)
PREFIX-250-0875	.875" (7/8)
PREFIX-250-1000	1.000" (1)
PREFIX-250-1125	1.125" (1-1/8)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1375	1.375" (1-3/8)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-2000	2.000" (2)

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STANDARD – IMPERIAL STAINLESS

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-2750	2.750" (2-3/4)
PREFIX-250-3000	3.000" (3)
PREFIX-250-3250	3.250" (3-1/4)
PREFIX-250-3500	3.500" (3-1/2)
PREFIX-250-3750	3.750" (3-3/4)
PREFIX-250-4000	4.000" (4)
PREFIX-250-4500	4.500" (4-1/2)
PREFIX-250-5000	5.000" (5)
PREFIX-250-6000	6.000" (6)

5/16 (.3125")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-312-0375	.375" (3/8)
PREFIX-312-0500	.500" (1/2)
PREFIX-312-0562	.563" (9/16)
PREFIX-312-0625	.625" (5/8)
PREFIX-312-0750	.750" (3/4)
PREFIX-312-0875	.875" (7/8)
PREFIX-312-1000	1.000" (1)
PREFIX-312-1125	1.125" (1-1/8)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-2000	2.000" (2)
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-4000	4.000" (4)
PREFIX-312-4500	4.500" (4-1/2)
PREFIX-312-5000	5.000" (5)
PREFIX-312-6000	6.000" (6)

3/8 (.3750")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-375-0500	.500" (1/2)
PREFIX-375-0625	.625" (5/8)
PREFIX-375-0750	.750" (3/4)
PREFIX-375-0875	.875" (7/8)
PREFIX-375-1000	1.000" (1)
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1375	1.375" (1-3/8)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-2000	2.000" (2)
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-2750	2.750" (2-3/4)
PREFIX-375-3000	3.000" (3)
PREFIX-375-3250	3.250" (3-1/4)

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-3750	3.750" (3-3/4)
PREFIX-375-4000	4.000" (4)
PREFIX-375-4375	4.375" (4-3/8)
PREFIX-375-4500	4.500" (4-1/2)
PREFIX-375-5000	5.000" (5)
PREFIX-375-6000	6.000" (6)

7/16 (.4375")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-437-1000	1.000" (1)
PREFIX-437-1250	1.250" (1-1/4)
PREFIX-437-1500	1.500" (1-1/2)
PREFIX-437-1750	1.750" (1-3/4)
PREFIX-437-2000	2.000" (2)
PREFIX-437-2250	2.250" (2-1/4)
PREFIX-437-2500	2.500" (2-1/2)
PREFIX-437-2750	2.750" (2-3/4)
PREFIX-437-3000	3.000" (3)
PREFIX-437-4000	4.000" (4)
PREFIX-437-5000	5.000" (5)
PREFIX-437-6000	6.000" (6)

1/2 (.5000")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-500-0375	.375" (3/8)
PREFIX-500-0500	.500" (1/2)
PREFIX-500-0625	.625" (5/8)
PREFIX-500-0750	.750" (3/4)
PREFIX-500-0875	.875" (7/8)
PREFIX-500-1000	1.000" (1)
PREFIX-500-1250	1.250" (1-1/4)
PREFIX-500-1500	1.500" (1-1/2)
PREFIX-500-1750	1.750" (1-3/4)
PREFIX-500-2000	2.000" (2)
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-2750	2.750" (2-3/4)
PREFIX-500-3000	3.000" (3)
PREFIX-500-3250	3.250" (3-1/4)
PREFIX-500-3500	3.500" (3-1/2)
PREFIX-500-3750	3.750" (3-3/4)
PREFIX-500-4000	4.000" (4)
PREFIX-500-4500	4.500" (4-1/2)
PREFIX-500-5000	5.000" (5)
PREFIX-500-6000	6.000" (6)

5/8 (.6250")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-625-1000	1.000" (1)
PREFIX-625-1250	1.250" (1-1/4)
PREFIX-625-1500	1.500" (1-1/2)
PREFIX-625-1750	1.750" (1-3/4)
PREFIX-625-2000	2.000" (2)

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
PREFIX-625-2250	2.250" (2-1/4)
PREFIX-625-2500	2.500" (2-1/2)
PREFIX-625-2750	2.750" (2-3/4)
PREFIX-625-3000	3.000" (3)
PREFIX-625-3250	3.250" (3-1/4)
PREFIX-625-3500	3.500" (3-1/2)
PREFIX-625-4000	4.000" (4)
PREFIX-625-4500	4.500" (4-1/2)
PREFIX-625-5000	5.000" (5)
PREFIX-625-6000	6.000" (6)

3/4 (.7500")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-750-1000	1.000" (1)
PREFIX-750-1250	1.250" (1-1/4)
PREFIX-750-1500	1.500" (1-1/2)
PREFIX-750-1750	1.750" (1-3/4)
PREFIX-750-2000	2.000" (2)
PREFIX-750-2500	2.500" (2-1/2)
PREFIX-750-3000	3.000" (3)
PREFIX-750-3500	3.500" (3-1/2)
PREFIX-750-4000	4.000" (4)
PREFIX-750-4500	4.500" (4-1/2)
PREFIX-750-5000	5.000" (5)
PREFIX-750-6000	6.000" (6)

7/8 (.8750")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-875-1000	1.000" (1)
PREFIX-875-1500	1.500" (1-1/2)
PREFIX-875-2000	2.000" (2)
PREFIX-875-2500	2.500" (2-1/2)
PREFIX-875-3000	3.000" (3)
PREFIX-875-4000	4.000" (4)
PREFIX-875-5000	5.000" (5)

1 (1.0000")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-1000-1000	1.000" (1)
PREFIX-1000-1250	1.250" (1-1/4)
PREFIX-1000-1500	1.500" (1-1/2)
PREFIX-1000-2000	2.000" (2)
PREFIX-1000-3000	3.000" (3)
PREFIX-1000-4000	4.000" (4)
PREFIX-1000-5000	5.000" (5)
PREFIX-1000-6000	6.000" (6)

1-1/4 (1.2500")
(A) Outside Diameter: +.0003/+.0001"

PREFIX-1250-1500	1.500" (1-1/2)
PREFIX-1250-2000	2.000" (2)
PREFIX-1250-3000	3.000" (3)
PREFIX-1250-4000	4.000" (4)
PREFIX-1250-6000	6.000" (6)

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STANDARD – METRIC

DIN 7

DESCRIPTION

A cylindrical solid pin with a spherical radiused crown end for easy insertion. Dowel pins are commonly used to retain parts in a fixed position or to preserve alignment. DIN 7 is unhardened.

HOW TO IDENTIFY

1. Verify solid pin with spherical radius end design.
2. Measure diameter (A).
3. Measure length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DOWM	=	CARBON STEEL, PLAIN*
DOWM6	=	316 STAINLESS STEEL, PLAIN
DOWMS	=	300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

0.80 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.30/-0.00 mm
PREFIX-008-003	3.00 mm
PREFIX-008-004	4.00 mm
PREFIX-008-005	5.00 mm
PREFIX-008-006	6.00 mm
PREFIX-008-008	8.00 mm
PREFIX-008-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-008-012	12.00 mm
PREFIX-008-014	14.00 mm
PREFIX-008-016	16.00 mm
PREFIX-008-018	18.00 mm
PREFIX-008-020	20.00 mm

1.00 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.30/-0.00 mm
PREFIX-010-003	3.00 mm
PREFIX-010-004	4.00 mm
PREFIX-010-005	5.00 mm
PREFIX-010-006	6.00 mm
PREFIX-010-008	8.00 mm
PREFIX-010-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-010-012	12.00 mm
PREFIX-010-014	14.00 mm
PREFIX-010-016	16.00 mm
PREFIX-010-018	18.00 mm
PREFIX-010-020	20.00 mm

1.50 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.30/-0.00 mm
PREFIX-015-003	3.00 mm
PREFIX-015-004	4.00 mm
PREFIX-015-005	5.00 mm
PREFIX-015-006	6.00 mm
PREFIX-015-008	8.00 mm
PREFIX-015-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-015-012	12.00 mm
PREFIX-015-014	14.00 mm
PREFIX-015-016	16.00 mm
PREFIX-015-018	18.00 mm
PREFIX-015-020	20.00 mm
PREFIX-015-022	22.00 mm
PREFIX-015-024	24.00 mm
PREFIX-015-026	26.00 mm
PREFIX-015-028	28.00 mm
PREFIX-015-030	30.00 mm
PREFIX-015-032	32.00 mm

2.00 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.30/-0.00 mm
PREFIX-020-004	4.00 mm
PREFIX-020-005	5.00 mm
PREFIX-020-006	6.00 mm
PREFIX-020-008	8.00 mm
PREFIX-020-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-020-012	12.00 mm
PREFIX-020-014	14.00 mm
PREFIX-020-016	16.00 mm
PREFIX-020-018	18.00 mm
PREFIX-020-020	20.00 mm
PREFIX-020-022	22.00 mm
PREFIX-020-024	24.00 mm
PREFIX-020-026	26.00 mm
PREFIX-020-028	28.00 mm
PREFIX-020-030	30.00 mm
PREFIX-020-032	32.00 mm

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

DIN 7 STANDARD – METRIC

ITEM NUMBER	(C) OVERALL LENGTH
2.50 mm (A) Outside Diameter: +0.008/+0.002 mm	
	+0.30/-0.00 mm
PREFIX-025-004	4.00 mm
PREFIX-025-005	5.00 mm
PREFIX-025-006	6.00 mm
PREFIX-025-008	8.00 mm
PREFIX-025-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-025-012	12.00 mm
PREFIX-025-014	14.00 mm
PREFIX-025-016	16.00 mm
PREFIX-025-018	18.00 mm
PREFIX-025-020	20.00 mm
PREFIX-025-022	22.00 mm
PREFIX-025-024	24.00 mm
PREFIX-025-026	26.00 mm
PREFIX-025-028	28.00 mm
PREFIX-025-030	30.00 mm
PREFIX-025-032	32.00 mm
PREFIX-025-036	36.00 mm
PREFIX-025-040	40.00 mm
3.00 mm (A) Outside Diameter: +0.008/+0.002 mm	
	+0.30/-0.00 mm
PREFIX-030-004	4.00 mm
PREFIX-030-005	5.00 mm
PREFIX-030-006	6.00 mm
PREFIX-030-008	8.00 mm
PREFIX-030-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-030-012	12.00 mm
PREFIX-030-014	14.00 mm
PREFIX-030-016	16.00 mm
PREFIX-030-018	18.00 mm
PREFIX-030-020	20.00 mm
PREFIX-030-022	22.00 mm
PREFIX-030-024	24.00 mm
PREFIX-030-026	26.00 mm
PREFIX-030-028	28.00 mm
PREFIX-030-030	30.00 mm
PREFIX-030-032	30.00 mm
PREFIX-030-036	36.00 mm
PREFIX-030-040	40.00 mm
PREFIX-030-045	45.00 mm
PREFIX-030-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-030-055	55.00 mm
PREFIX-030-060	60.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
3.50 mm (A) Outside Diameter: +0.012/+0.004 mm	
	+0.50/-0.00 mm
PREFIX-035-022	22.00 mm
4.00 mm (A) Outside Diameter: +0.012/+0.004 mm	
	+0.30/-0.00 mm
PREFIX-040-005	5.00 mm
PREFIX-040-006	6.00 mm
PREFIX-040-008	8.00 mm
PREFIX-040-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-040-012	12.00 mm
PREFIX-040-014	14.00 mm
PREFIX-040-016	16.00 mm
PREFIX-040-018	18.00 mm
PREFIX-040-020	20.00 mm
PREFIX-040-022	22.00 mm
PREFIX-040-024	24.00 mm
PREFIX-040-026	26.00 mm
PREFIX-040-028	28.00 mm
PREFIX-040-030	30.00 mm
PREFIX-040-032	32.00 mm
PREFIX-040-036	36.00 mm
PREFIX-040-038	38.00 mm
PREFIX-040-040	40.00 mm
PREFIX-040-045	45.00 mm
PREFIX-040-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-040-055	55.00 mm
PREFIX-040-060	60.00 mm
5.00 mm (A) Outside Diameter: +0.012/+0.004 mm	
	+0.30/-0.00 mm
PREFIX-050-005	5.00 mm
PREFIX-050-006	6.00 mm
PREFIX-050-008	8.00 mm
PREFIX-050-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-050-012	12.00 mm
PREFIX-050-014	14.00 mm
PREFIX-050-016	16.00 mm
PREFIX-050-018	18.00 mm
PREFIX-050-020	20.00 mm
PREFIX-050-022	22.00 mm
PREFIX-050-024	24.00 mm
PREFIX-050-026	26.00 mm
PREFIX-050-028	28.00 mm
PREFIX-050-030	30.00 mm
PREFIX-050-032	32.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
PREFIX-050-033	33.00 mm
PREFIX-050-036	36.00 mm
PREFIX-050-040	40.00 mm
PREFIX-050-045	45.00 mm
PREFIX-050-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-050-055	55.00 mm
PREFIX-050-060	60.00 mm
6.00 mm (A) Outside Diameter: +0.012/+0.004 mm	
	+0.30/-0.00 mm
PREFIX-060-006	6.00 mm
PREFIX-060-008	8.00 mm
PREFIX-060-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-060-012	12.00 mm
PREFIX-060-014	14.00 mm
PREFIX-060-016	16.00 mm
PREFIX-060-018	18.00 mm
PREFIX-060-020	20.00 mm
PREFIX-060-022	22.00 mm
PREFIX-060-024	24.00 mm
PREFIX-060-026	26.00 mm
PREFIX-060-028	28.00 mm
PREFIX-060-030	30.00 mm
PREFIX-060-032	32.00 mm
PREFIX-060-036	36.00 mm
PREFIX-060-040	40.00 mm
PREFIX-060-045	45.00 mm
PREFIX-060-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-060-055	55.00 mm
PREFIX-060-060	60.00 mm
PREFIX-060-070	70.00 mm
PREFIX-060-080	80.00 mm
PREFIX-060-090	90.00 mm
PREFIX-060-100	100.00 mm
8.00 mm (A) Outside Diameter: +0.015/+0.006 mm	
	+0.30/-0.00 mm
PREFIX-080-008	8.00 mm
PREFIX-080-010	10.00 mm
	+0.50/-0.00 mm
PREFIX-080-012	12.00 mm
PREFIX-080-014	14.00 mm
PREFIX-080-016	16.00 mm
PREFIX-080-018	18.00 mm
PREFIX-080-020	20.00 mm
PREFIX-080-022	22.00 mm
PREFIX-080-024	24.00 mm
PREFIX-080-026	26.00 mm

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STANDARD – METRIC

DIN 7

8.00 mm
(A) Outside Diameter: +0.015/+0.006 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.50/-0.00 mm
PREFIX-080-028	28.00 mm
PREFIX-080-030	30.00 mm
PREFIX-080-032	32.00 mm
PREFIX-080-036	36.00 mm
PREFIX-080-040	40.00 mm
PREFIX-080-045	45.00 mm
PREFIX-080-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-080-055	55.00 mm
PREFIX-080-060	60.00 mm
PREFIX-080-070	70.00 mm
PREFIX-080-080	80.00 mm
PREFIX-080-090	90.00 mm
PREFIX-080-100	100.00 mm
PREFIX-080-110	110.00 mm
PREFIX-080-120	120.00 mm

10.00 mm
(A) Outside Diameter: +0.015/+0.006 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.30/-0.00 mm
PREFIX-100-010	10.00 mm
PREFIX-100-011	11.00 mm
	+0.50/-0.00 mm
PREFIX-100-012	12.00 mm
PREFIX-100-014	14.00 mm
PREFIX-100-016	16.00 mm
PREFIX-100-018	18.00 mm
PREFIX-100-020	20.00 mm
PREFIX-100-022	22.00 mm
PREFIX-100-024	24.00 mm
PREFIX-100-026	26.00 mm
PREFIX-100-028	28.00 mm
PREFIX-100-030	30.00 mm
PREFIX-100-032	32.00 mm
PREFIX-100-036	36.00 mm
PREFIX-100-040	40.00 mm
PREFIX-100-045	45.00 mm
PREFIX-100-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-100-055	55.00 mm
PREFIX-100-060	60.00 mm
PREFIX-100-070	70.00 mm
PREFIX-100-080	80.00 mm
PREFIX-100-090	90.00 mm
PREFIX-100-100	100.00 mm
PREFIX-100-110	110.00 mm
PREFIX-100-120	120.00 mm

12.00 mm
(A) Outside Diameter: +0.018/+0.007 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.50/-0.00 mm
PREFIX-120-012	12.00 mm
PREFIX-120-014	14.00 mm
PREFIX-120-016	16.00 mm
PREFIX-120-018	18.00 mm
PREFIX-120-020	20.00 mm
PREFIX-120-022	22.00 mm
PREFIX-120-024	24.00 mm
PREFIX-120-026	26.00 mm
PREFIX-120-028	28.00 mm
PREFIX-120-030	30.00 mm
PREFIX-120-032	32.00 mm
PREFIX-120-036	36.00 mm
PREFIX-120-040	40.00 mm
PREFIX-120-045	45.00 mm
PREFIX-120-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-120-055	55.00 mm
PREFIX-120-060	60.00 mm
PREFIX-120-070	70.00 mm
PREFIX-120-080	80.00 mm
PREFIX-120-090	90.00 mm
PREFIX-120-100	100.00 mm
PREFIX-120-110	110.00 mm
PREFIX-120-120	120.00 mm

14.00 mm
(A) Outside Diameter: +0.018/+0.007 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.50/-0.00 mm
PREFIX-140-020	20.00 mm
PREFIX-140-022	22.00 mm
PREFIX-140-024	24.00 mm
PREFIX-140-026	26.00 mm
PREFIX-140-028	28.00 mm
PREFIX-140-030	30.00 mm
PREFIX-140-032	32.00 mm
PREFIX-140-036	36.00 mm
PREFIX-140-040	40.00 mm
PREFIX-140-045	45.00 mm
PREFIX-140-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-140-055	55.00 mm
PREFIX-140-060	60.00 mm
PREFIX-140-070	70.00 mm
PREFIX-140-080	80.00 mm
PREFIX-140-090	90.00 mm
PREFIX-140-100	100.00 mm
PREFIX-140-110	110.00 mm
PREFIX-140-120	120.00 mm

16.00 mm
(A) Outside Diameter: +0.018/+0.007 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.50/-0.00 mm
PREFIX-160-020	20.00 mm
PREFIX-160-022	22.00 mm
PREFIX-160-024	24.00 mm
PREFIX-160-026	26.00 mm
PREFIX-160-028	28.00 mm
PREFIX-160-030	30.00 mm
PREFIX-160-032	32.00 mm
PREFIX-160-036	36.00 mm
PREFIX-160-040	40.00 mm
PREFIX-160-045	45.00 mm
PREFIX-160-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-160-055	55.00 mm
PREFIX-160-060	60.00 mm
PREFIX-160-070	70.00 mm
PREFIX-160-080	80.00 mm
PREFIX-160-090	90.00 mm
PREFIX-160-100	100.00 mm
PREFIX-160-110	110.00 mm
PREFIX-160-120	120.00 mm

20.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.50/-0.00 mm
PREFIX-200-020	20.00 mm
PREFIX-200-022	22.00 mm
PREFIX-200-024	24.00 mm
PREFIX-200-026	26.00 mm
PREFIX-200-028	28.00 mm
PREFIX-200-030	30.00 mm
PREFIX-200-032	32.00 mm
PREFIX-200-036	36.00 mm
PREFIX-200-040	40.00 mm
PREFIX-200-045	45.00 mm
PREFIX-200-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-200-055	55.00 mm

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

DOWM • DOWM6 • DOWM8

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

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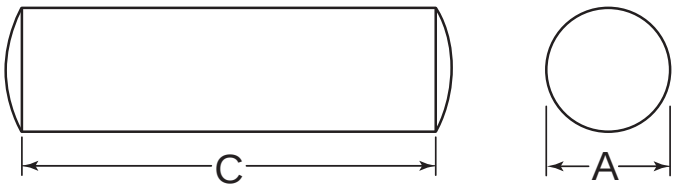
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DIN 7

STANDARD – METRIC

PREFIX		MATERIAL/FINISH
DOWM	=	CARBON STEEL, PLAIN*
DOWM6	=	316 STAINLESS STEEL, PLAIN
DOWMS	=	300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



ITEM NUMBER	(C) OVERALL LENGTH
PREFIX-200-060	60.00 mm
PREFIX-200-070	70.00 mm
PREFIX-200-080	80.00 mm
PREFIX-200-090	90.00 mm
PREFIX-200-100	100.00 mm
PREFIX-200-110	110.00 mm
PREFIX-200-120	120.00 mm

25.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

	+0.50/-0.00 mm
PREFIX-250-032	32.00 mm
PREFIX-250-036	36.00 mm
PREFIX-250-040	40.00 mm
PREFIX-250-045	45.00 mm
PREFIX-250-050	50.00 mm
	+0.80/-0.00 mm
PREFIX-250-055	55.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
PREFIX-250-060	60.00 mm
PREFIX-250-070	70.00 mm
PREFIX-250-080	80.00 mm
PREFIX-250-090	90.00 mm
PREFIX-250-100	100.00 mm
PREFIX-250-110	110.00 mm
PREFIX-250-120	120.00 mm
PREFIX-250-140	140.00 mm
PREFIX-250-150	150.00 mm

30.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

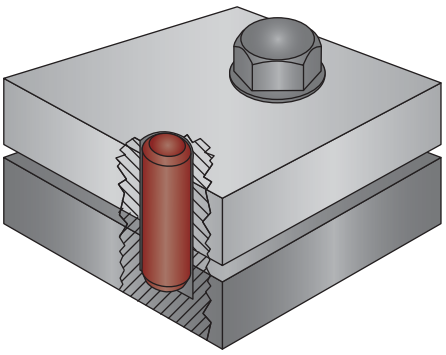
	+0.50/-0.00 mm
PREFIX-300-032	32.00 mm
PREFIX-300-036	36.00 mm
PREFIX-300-040	40.00 mm
PREFIX-300-045	45.00 mm
PREFIX-300-050	50.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.80/-0.00 mm
PREFIX-300-055	55.00 mm
PREFIX-300-060	60.00 mm
PREFIX-300-070	70.00 mm
PREFIX-300-080	80.00 mm
PREFIX-300-090	90.00 mm
PREFIX-300-100	100.00 mm
PREFIX-300-110	110.00 mm
PREFIX-300-120	120.00 mm
PREFIX-300-140	140.00 mm
PREFIX-300-150	150.00 mm

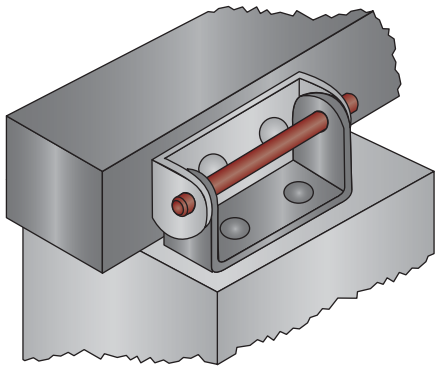
32.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

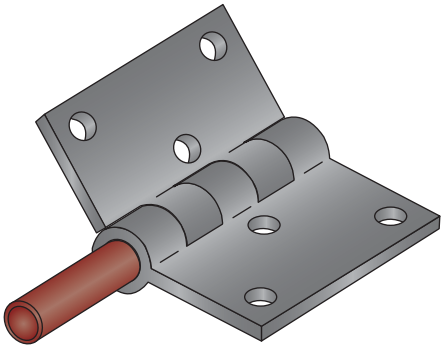
	+0.80/-0.00 mm
PREFIX-320-076	76.00 mm

APPLICATIONS



AS AN ALIGNMENT DEVICE





IN A HINGE

WE ALSO OFFER:



Grease Fittings & Accessories



Machine Keys & Keystock



Retaining Rings & Clips



Pins & Wireforms



Shafting & Shaft Collars



Washers, Bushings, & Shims

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HARDENED – METRIC

DIN 6325

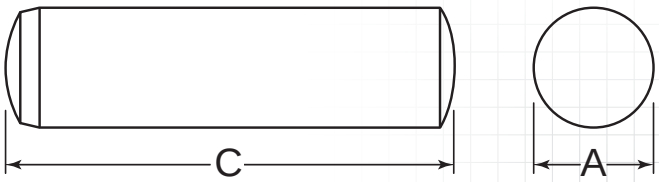
DESCRIPTION

A cylindrical solid pin with a radius crown with a taper on one end and a spherical radiused crown on the other end. Dowel pins are commonly used to retain parts in a fixed position or to preserve alignment. DIN 6325 is hardened for heavy duty use.

HOW TO IDENTIFY

1. Verify solid pin with a radius crown with taper on one end and a simple radius crown on the opposite end.
2. Measure diameter (A).
3. Measure length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DOWMH = ALLOY STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

0.80 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.150/-0.150 mm
DOWMH-008-003	3.00 mm

1.00 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.150/-0.150 mm
DOWMH-010-004	4.00 mm
DOWMH-010-005	5.00 mm
DOWMH-010-006	6.00 mm
	+0.180/-0.180 mm
DOWMH-010-008	8.00 mm
DOWMH-010-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-010-012	12.00 mm
DOWMH-010-014	14.00 mm
DOWMH-010-016	16.00 mm

1.50 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.150/-0.150 mm
DOWMH-015-004	4.00 mm
DOWMH-015-005	5.00 mm
DOWMH-015-006	6.00 mm
	+0.180/-0.180 mm
DOWMH-015-008	8.00 mm
DOWMH-015-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-015-012	12.00 mm
DOWMH-015-014	14.00 mm
DOWMH-015-016	16.00 mm
DOWMH-015-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-015-020	20.00 mm
DOWMH-015-022	22.00 mm
DOWMH-015-024	24.00 mm
DOWMH-015-026	26.00 mm
DOWMH-015-028	28.00 mm
DOWMH-015-030	30.00 mm

2.00 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.150/-0.150 mm
DOWMH-020-004	4.00 mm
DOWMH-020-005	5.00 mm
DOWMH-020-006	6.00 mm
	+0.180/-0.180 mm
DOWMH-020-008	8.00 mm
DOWMH-020-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-020-012	12.00 mm
DOWMH-020-014	14.00 mm
DOWMH-020-016	16.00 mm
DOWMH-020-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-020-020	20.00 mm
DOWMH-020-022	22.00 mm
DOWMH-020-024	24.00 mm
DOWMH-020-026	26.00 mm
DOWMH-020-028	28.00 mm
DOWMH-020-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-020-032	32.00 mm
DOWMH-020-036	36.00 mm
DOWMH-020-040	40.00 mm

2.50 mm
(A) Outside Diameter: +0.008/+0.002 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.150/-0.150 mm
DOWMH-025-005	5.00 mm
DOWMH-025-006	6.00 mm

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DIN 6325

HARDENED – METRIC

ITEM NUMBER	(C) OVERALL LENGTH
	+0.180/-0.180 mm
DOWMH-025-008	8.00 mm
DOWMH-025-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-025-012	12.00 mm
DOWMH-025-014	14.00 mm
DOWMH-025-016	16.00 mm
DOWMH-025-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-025-020	20.00 mm
DOWMH-025-022	22.00 mm
DOWMH-025-024	24.00 mm
DOWMH-025-026	26.00 mm
DOWMH-025-028	28.00 mm
DOWMH-025-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-025-032	32.00 mm
DOWMH-025-036	36.00 mm
DOWMH-025-040	40.00 mm
DOWMH-025-045	45.00 mm
DOWMH-025-050	50.00 mm

3.00 mm

(A) Outside Diameter: +0.008/+0.002 mm

	+0.150/-0.150 mm
DOWMH-030-004	4.00 mm
DOWMH-030-005	5.00 mm
DOWMH-030-006	6.00 mm
	+0.180/-0.180 mm
DOWMH-030-008	8.00 mm
DOWMH-030-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-030-012	12.00 mm
DOWMH-030-014	14.00 mm
DOWMH-030-016	16.00 mm
DOWMH-030-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-030-020	20.00 mm
DOWMH-030-022	22.00 mm
DOWMH-030-024	24.00 mm
DOWMH-030-026	26.00 mm
DOWMH-030-028	28.00 mm
DOWMH-030-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-030-032	32.00 mm
DOWMH-030-036	36.00 mm
DOWMH-030-040	40.00 mm
DOWMH-030-045	45.00 mm
DOWMH-030-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-030-055	55.00 mm
DOWMH-030-060	60.00 mm

ITEM NUMBER	(C) OVERALL LENGTH

4.00 mm

(A) Outside Diameter: +0.012/+0.004 mm

	+0.150/-0.150 mm
DOWMH-040-006	6.00 mm
	+0.180/-0.180 mm
DOWMH-040-008	8.00 mm
DOWMH-040-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-040-012	12.00 mm
DOWMH-040-014	14.00 mm
DOWMH-040-016	16.00 mm
DOWMH-040-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-040-020	20.00 mm
DOWMH-040-022	22.00 mm
DOWMH-040-024	24.00 mm
DOWMH-040-026	26.00 mm
DOWMH-040-028	28.00 mm
DOWMH-040-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-040-032	32.00 mm
DOWMH-040-035	35.00 mm
DOWMH-040-036	36.00 mm
DOWMH-040-040	40.00 mm
DOWMH-040-045	45.00 mm
DOWMH-040-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-040-055	55.00 mm
DOWMH-040-060	60.00 mm

5.00 mm

(A) Outside Diameter: +0.012/+0.004 mm

	+0.180/-0.180 mm
DOWMH-050-008	8.00 mm
DOWMH-050-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-050-012	12.00 mm
DOWMH-050-014	14.00 mm
DOWMH-050-016	16.00 mm
DOWMH-050-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-050-020	20.00 mm
DOWMH-050-022	22.00 mm
DOWMH-050-024	24.00 mm
DOWMH-050-026	26.00 mm
DOWMH-050-028	28.00 mm
DOWMH-050-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-050-032	32.00 mm
DOWMH-050-036	36.00 mm
DOWMH-050-040	40.00 mm
DOWMH-050-045	45.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
DOWMH-050-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-050-055	55.00 mm
DOWMH-050-060	60.00 mm
DOWMH-050-070	70.00 mm

6.00 mm

(A) Outside Diameter: +0.012/+0.004 mm

	+0.180/-0.180 mm
DOWMH-060-008	8.00 mm
DOWMH-060-010	10.00 mm
	+0.215/-0.215 mm
DOWMH-060-012	12.00 mm
DOWMH-060-014	14.00 mm
DOWMH-060-016	16.00 mm
DOWMH-060-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-060-020	20.00 mm
DOWMH-060-022	22.00 mm
DOWMH-060-024	24.00 mm
DOWMH-060-026	26.00 mm
DOWMH-060-028	28.00 mm
DOWMH-060-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-060-032	32.00 mm
DOWMH-060-036	36.00 mm
DOWMH-060-040	40.00 mm
DOWMH-060-045	45.00 mm
DOWMH-060-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-060-055	55.00 mm
DOWMH-060-060	60.00 mm
DOWMH-060-070	70.00 mm
DOWMH-060-080	80.00 mm
	+0.435/-0.435 mm
DOWMH-060-090	90.00 mm
DOWMH-060-100	100.00 mm

8.00 mm

(A) Outside Diameter: +0.015/+0.006 mm

	+0.215/-0.215 mm
DOWMH-080-012	12.00 mm
DOWMH-080-014	14.00 mm
DOWMH-080-016	16.00 mm
DOWMH-080-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-080-020	20.00 mm
DOWMH-080-022	22.00 mm
DOWMH-080-024	24.00 mm
DOWMH-080-026	26.00 mm
DOWMH-080-028	28.00 mm
DOWMH-080-030	30.00 mm

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HARDENED – METRIC

DIN 6325

ITEM NUMBER	(C) OVERALL LENGTH
8.00 mm (A) Outside Diameter: +0.015/+0.006 mm	
	+0.310/-0.310 mm
DOWMH-080-032	32.00 mm
DOWMH-080-036	36.00 mm
DOWMH-080-040	40.00 mm
DOWMH-080-045	45.00 mm
DOWMH-080-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-080-055	55.00 mm
DOWMH-080-060	60.00 mm
DOWMH-080-070	70.00 mm
DOWMH-080-080	80.00 mm
DOWMH-080-085	85.00 mm
	+0.435/-0.435 mm
DOWMH-080-090	90.00 mm
DOWMH-080-100	100.00 mm
DOWMH-080-110	110.00 mm
DOWMH-080-120	120.00 mm
10.00 mm (A) Outside Diameter: +0.015/+0.006 mm	
	+0.215/-0.215 mm
DOWMH-100-014	14.00 mm
DOWMH-100-016	16.00 mm
DOWMH-100-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-100-020	20.00 mm
DOWMH-100-022	22.00 mm
DOWMH-100-024	24.00 mm
DOWMH-100-026	26.00 mm
DOWMH-100-028	28.00 mm
DOWMH-100-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-100-032	32.00 mm
DOWMH-100-036	36.00 mm
DOWMH-100-040	40.00 mm
DOWMH-100-045	45.00 mm
DOWMH-100-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-100-055	55.00 mm
DOWMH-100-060	60.00 mm
DOWMH-100-070	70.00 mm
DOWMH-100-080	80.00 mm
	+0.435/-0.435 mm
DOWMH-100-090	90.00 mm
DOWMH-100-100	100.00 mm
DOWMH-100-110	110.00 mm
DOWMH-100-120	120.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
12.00 mm (A) Outside Diameter: +0.018/+0.007 mm	
	+0.215/-0.215 mm
DOWMH-120-014	14.00 mm
DOWMH-120-016	16.00 mm
DOWMH-120-018	18.00 mm
	+0.260/-0.260 mm
DOWMH-120-020	20.00 mm
DOWMH-120-022	22.00 mm
DOWMH-120-024	24.00 mm
DOWMH-120-026	26.00 mm
DOWMH-120-028	28.00 mm
DOWMH-120-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-120-032	32.00 mm
DOWMH-120-036	36.00 mm
DOWMH-120-040	40.00 mm
DOWMH-120-045	45.00 mm
DOWMH-120-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-120-055	55.00 mm
DOWMH-120-060	60.00 mm
DOWMH-120-070	70.00 mm
DOWMH-120-080	80.00 mm
	+0.435/-0.435 mm
DOWMH-120-090	90.00 mm
DOWMH-120-100	100.00 mm
DOWMH-120-110	110.00 mm
DOWMH-120-120	120.00 mm
14.00 mm (A) Outside Diameter: +0.018/+0.007 mm	
	+0.260/-0.260 mm
DOWMH-140-024	24.00 mm
DOWMH-140-026	26.00 mm
DOWMH-140-028	28.00 mm
DOWMH-140-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-140-032	32.00 mm
DOWMH-140-036	36.00 mm
DOWMH-140-040	40.00 mm
DOWMH-140-045	45.00 mm
DOWMH-140-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-140-055	55.00 mm
DOWMH-140-060	60.00 mm
DOWMH-140-070	70.00 mm
DOWMH-140-080	80.00 mm

ITEM NUMBER	(C) OVERALL LENGTH
	+0.435/-0.435 mm
DOWMH-140-090	90.00 mm
DOWMH-140-100	100.00 mm
DOWMH-140-110	110.00 mm
DOWMH-140-120	120.00 mm
16.00 mm (A) Outside Diameter: +0.018/+0.007 mm	
	+0.260/-0.260 mm
DOWMH-160-024	24.00 mm
DOWMH-160-026	26.00 mm
DOWMH-160-028	28.00 mm
DOWMH-160-030	30.00 mm
	+0.310/-0.310 mm
DOWMH-160-032	32.00 mm
DOWMH-160-036	36.00 mm
DOWMH-160-040	40.00 mm
DOWMH-160-045	45.00 mm
DOWMH-160-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-160-055	55.00 mm
DOWMH-160-060	60.00 mm
DOWMH-160-070	70.00 mm
DOWMH-160-080	80.00 mm
	+0.435/-0.435 mm
DOWMH-160-090	90.00 mm
DOWMH-160-100	100.00 mm
DOWMH-160-110	110.00 mm
DOWMH-160-120	120.00 mm
20.00 mm (A) Outside Diameter: +0.021/+0.008 mm	
	+0.310/-0.310 mm
DOWMH-200-040	40.00 mm
DOWMH-200-045	45.00 mm
DOWMH-200-050	50.00 mm
	+0.370/-0.370 mm
DOWMH-200-055	55.00 mm
DOWMH-200-060	60.00 mm
DOWMH-200-070	70.00 mm
DOWMH-200-080	80.00 mm
	+0.435/-0.435 mm
DOWMH-200-090	90.00 mm
DOWMH-200-100	100.00 mm
DOWMH-200-110	110.00 mm
DOWMH-200-120	120.00 mm
	+0.500/-0.500 mm
DOWMH-200-140	140.00 mm
DOWMH-200-160	160.00 mm
DOWMH-200-180	180.00 mm

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ASME B18.8.2 OVERSIZED

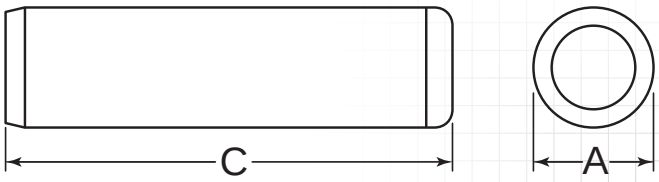
DESCRIPTION

A cylindrical solid pin with a chamfered end for easy insertion and a diameter of +.001" oversized. Used in out-of-round holes or with soft application materials.

HOW TO IDENTIFY

1. Verify solid pin with chamfered end design.
2. Measure diameter (A).
3. Measure length (C).
4. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
DOWO	=	ALLOY STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1/16 (.0625")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-062-0250	.250" (1/4)
DOWO-062-0312	.313" (5/16)
DOWO-062-0375	.375" (3/8)
DOWO-062-0500	.500" (1/2)
DOWO-062-0625	.625" (5/8)
DOWO-062-0750	.750" (3/4)

3/32 (.0938")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-093-0187	.188" (3/16)
DOWO-093-0250	.250" (1/4)
DOWO-093-0312	.313" (5/16)
DOWO-093-0375	.375" (3/8)
DOWO-093-0500	.500" (1/2)
DOWO-093-0625	.625" (5/8)
DOWO-093-0750	.750" (3/4)

1/8 (.1250")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-125-0375	.375" (3/8)
DOWO-125-0500	.500" (1/2)
DOWO-125-0625	.625" (5/8)
DOWO-125-0750	.750" (3/4)
DOWO-125-0875	.875" (7/8)
DOWO-125-1000	1.000" (1)
DOWO-125-1250	1.250" (1-1/4)
DOWO-125-1500	1.500" (1-1/2)

3/16 (.1875")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-187-0500	.500" (1/2)
DOWO-187-0625	.625" (5/8)
DOWO-187-0750	.750" (3/4)
DOWO-187-1000	1.000" (1)
DOWO-187-1250	1.250" (1-1/4)
DOWO-187-1500	1.500" (1-1/2)
DOWO-187-2000	2.000" (2)

1/4 (.2500")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-250-0500	.500" (1/2)
DOWO-250-0625	.625" (5/8)
DOWO-250-0750	.750" (3/4)
DOWO-250-0875	.875" (7/8)
DOWO-250-1000	1.000" (1)
DOWO-250-1250	1.250" (1-1/4)
DOWO-250-1500	1.500" (1-1/2)
DOWO-250-2000	2.000" (2)
DOWO-250-2500	2.500" (2-1/2)

5/16 (.3125")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-312-0500	.500" (1/2)
DOWO-312-0750	.750" (3/4)
DOWO-312-1000	1.000" (1)
DOWO-312-1250	1.250" (1-1/4)
DOWO-312-1500	1.500" (1-1/2)
DOWO-312-2000	2.000" (2)
DOWO-312-2500	2.500" (2-1/2)
DOWO-312-3000	3.000" (3)

3/8 (.3750")
(A) Outside Diameter: +.0011/+.0009"

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
DOWO-375-0750	.750" (3/4)
DOWO-375-1000	1.000" (1)
DOWO-375-1250	1.250" (1-1/4)
DOWO-375-1500	1.500" (1-1/2)
DOWO-375-2000	2.000" (2)
DOWO-375-2500	2.500" (2-1/2)
DOWO-375-3000	3.000" (3)

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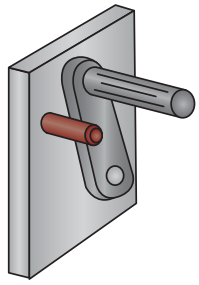
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OVERSIZED

ASME B18.8.2

ITEM NUMBER	(C) OVERALL LENGTH +.010/-.010"
7/16 (.4375") (A) Outside Diameter: +.0011/+.0009"	
DOWO-437-1000	1.000" (1)
DOWO-437-1500	1.500" (1-1/2)
DOWO-437-2000	2.000" (2)
DOWO-437-2500	2.500" (2-1/2)
DOWO-437-3000	3.000" (3)
1/2 (.5000") (A) Outside Diameter: +.0011/+.0009"	
DOWO-500-1000	1.000" (1)
DOWO-500-1250	1.250" (1-1/4)
DOWO-500-1500	1.500" (1-1/2)
DOWO-500-2000	2.000" (2)
DOWO-500-2250	2.250" (2-1/4)
DOWO-500-2500	2.500" (2-1/2)
DOWO-500-3000	3.000" (3)
DOWO-500-3500	3.500" (3-1/2)
DOWO-500-4000	4.000" (4)
5/8 (.6250") (A) Outside Diameter: +.0011/+.0009"	
DOWO-625-1250	1.250" (1-1/4)
DOWO-625-1500	1.500" (1-1/2)
DOWO-625-1750	1.750" (1-3/4)
DOWO-625-2000	2.000" (2)
DOWO-625-2500	2.500" (2-1/2)
DOWO-625-3000	3.000" (3)
3/4 (.7500") (A) Outside Diameter: +.0011/+.0009"	
DOWO-750-2000	2.000" (2)
DOWO-750-2500	2.500" (2-1/2)
DOWO-750-3000	3.000" (3)
DOWO-750-3500	3.500" (3-1/2)
DOWO-750-4000	4.000" (4)

APPLICATION



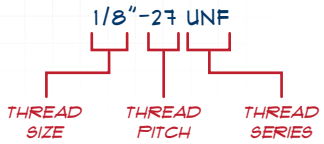
AS A STOP PIN ON A ROTATING HANDLE

THREAD BASICS

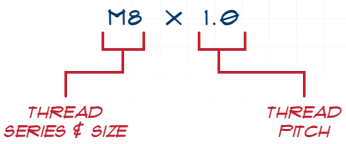
THREAD DESCRIPTION

Thread description can be broken down into three distinct segments. They are called out, in order, by thread series, thread size, and thread pitch.

Imperial Thread Description:



Metric Thread Description:



THREAD TERMS

THREAD SERIES

The thread "style." There are many different thread series and each has specific attributes.

THREAD SIZE

Thread size in the nominal size of pipe that the fitting mates with. Originally, the size referred to the inside diameter of the pipe at a time when pipes had very thick walls. That is why a 1/8" pipe has a 0.393" actual outside diameter.

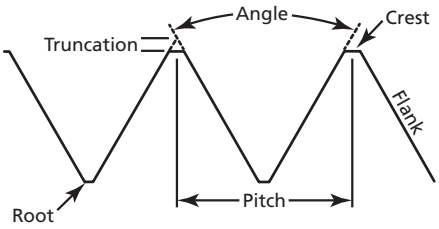
THREAD PITCH

The distance "peak-to-peak" of each thread. Threads grouped close together are considered to be "fine," while threads that are spread out are "coarse."

ANGLE
Angle between adjacent thread flanks.

TRUNCATION
Material removed from the V-thread triangle of the thread form.

ROOT
Lowest point of a thread.

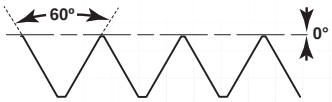


CREST
Highest point of a thread.

FLANK
Thread portion joining the thread root and crest.

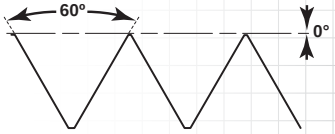
UNIFIED NATIONAL FINE THREAD (UNF)

- Parallel thread
- Unified National Fine (UNF) thread is a common mechanical thread type used in the U.S. for screws and bolts.



UNIFIED NATIONAL COARSE THREAD (UNC)

- Parallel thread
- Unified National Coarse (UNC) thread is a common mechanical coarse thread.



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PULLOUT – IMPERIAL

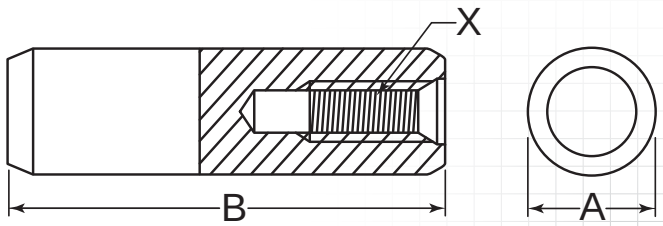
DESCRIPTION

Identical to standard dowel pins but with chamfer on both ends and a threaded hole at one end to allow installation of a slide hammer to assist in removal.

HOW TO IDENTIFY

1. Verify solid pin with countersunk tapped hole.
2. Measure outside diameter (A).
3. Measure length (B).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DOWP = ALLOY STEEL, PLAIN*
DOWPS = 18-8 STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

3/16 (.1875")
(A) Outside Diameter: +.0003/+.0001"

(X) Thread: #8-32
Thread Length: .410"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-187-0500	.500" (1/2)
PREFIX-187-0750	.750" (3/4)
PREFIX-187-0875	.875" (7/8)
PREFIX-187-1000	1.000" (1)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-2000	2.000" (2)
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)
PREFIX-187-2750	2.750" (2-3/4)
PREFIX-187-3000	3.000" (3)

1/4 (.2500")
(A) Outside Diameter: +.0003/+.0001"

(X) Thread: #8-32
Thread Length: .410"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-250-0250	.250" (1/4)
PREFIX-250-0375	.375" (3/8)
PREFIX-250-0500	.500" (1/2)
PREFIX-250-0625	.625" (5/8)
PREFIX-250-0750	.750" (3/4)
PREFIX-250-0875	.875" (7/8)
PREFIX-250-1000	1.000" (1)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-2000	2.000" (2)
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-2750	2.750" (2-3/4)
PREFIX-250-3000	3.000" (3)
PREFIX-250-3500	3.500" (3-1/2)
PREFIX-250-4000	4.000" (4)

5/16 (.3125")
(A) Outside Diameter: +.0003/+.0001"

(X) Thread: #10-32
Thread Length: .470"
Thread Type: UNF

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-312-0375	.375" (3/8)
PREFIX-312-0500	.500" (1/2)
PREFIX-312-0625	.625" (5/8)
PREFIX-312-0750	.750" (3/4)
PREFIX-312-0875	.875" (7/8)
PREFIX-312-1000	1.000" (1)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-2000	2.000" (2)
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
PREFIX-312-3250	3.250" (3-1/4)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-4000	4.000" (4)

3/8 (.3750")
(A) Outside Diameter: +.0003/+.0001"

(X) Thread: #10-32
Thread Length: .470"
Thread Type: UNF

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-375-0500	.500" (1/2)
PREFIX-375-0625	.625" (5/8)
PREFIX-375-0750	.750" (3/4)
PREFIX-375-0875	.875" (7/8)
PREFIX-375-1000	1.000" (1)
PREFIX-375-1125	1.125" (1-1/8)

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PULLOUT – IMPERIAL

3/8 (.3750")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: #10-32
Thread Length: .470"
Thread Type: UNF

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-2000	2.000" (2)
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-2750	2.750" (2-3/4)
PREFIX-375-3000	3.000" (3)
PREFIX-375-3250	3.250" (3-1/4)
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-4000	4.000" (4)

7/16 (.4375")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 1/4"-20
Thread Length: .630"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-437-1000	1.000" (1)
PREFIX-437-1250	1.250" (1-1/4)
PREFIX-437-1500	1.500" (1-1/2)
PREFIX-437-1750	1.750" (1-3/4)
PREFIX-437-2000	2.000" (2)
PREFIX-437-2500	2.500" (2-1/2)
PREFIX-437-3000	3.000" (3)
PREFIX-437-3250	3.250" (3-1/4)
PREFIX-437-3500	3.500" (3-1/2)

1/2 (.5000")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 1/4"-20
Thread Length: .630"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-500-0500	.500" (1/2)
PREFIX-500-0750	.750" (3/4)
PREFIX-500-1000	1.000" (1)
PREFIX-500-1250	1.250" (1-1/4)
PREFIX-500-1500	1.500" (1-1/2)
PREFIX-500-1750	1.750" (1-3/4)
PREFIX-500-2000	2.000" (2)
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-2750	2.750" (2-3/4)
PREFIX-500-3000	3.000" (3)
PREFIX-500-3250	3.250" (3-1/4)
PREFIX-500-3500	3.500" (3-1/2)
PREFIX-500-4000	4.000" (4)
PREFIX-500-4500	4.500" (4-1/2)
PREFIX-500-5000	5.000" (5)

5/8 (.6250")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 1/4"-20
Thread Length: .630"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-625-1000	1.000" (1)
PREFIX-625-1250	1.250" (1-1/4)
PREFIX-625-1500	1.500" (1-1/2)
PREFIX-625-1750	1.750" (1-3/4)
PREFIX-625-2000	2.000" (2)
PREFIX-625-2250	2.250" (2-1/4)
PREFIX-625-2500	2.500" (2-1/2)
PREFIX-625-2750	2.750" (2-3/4)

5/8 (.6250")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 1/4"-20
Thread Length: .630"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-625-3000	3.000" (3)
PREFIX-625-3250	3.250" (3-1/4)
PREFIX-625-3500	3.500" (3-1/2)
PREFIX-625-4000	4.000" (4)
PREFIX-625-4500	4.500" (4-1/2)
PREFIX-625-5000	5.000" (5)
PREFIX-625-6000	6.000" (6)

3/4 (.7500")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 5/16"-18
Thread Length: .780"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-750-1000	1.000" (1)
PREFIX-750-1250	1.250" (1-1/4)
PREFIX-750-1500	1.500" (1-1/2)
PREFIX-750-1750	1.750" (1-3/4)
PREFIX-750-2000	2.000" (2)
PREFIX-750-2250	2.250" (2-1/4)
PREFIX-750-2500	2.500" (2-1/2)
PREFIX-750-2750	2.750" (2-3/4)
PREFIX-750-3000	3.000" (3)
PREFIX-750-3500	3.500" (3-1/2)
PREFIX-750-3750	3.750" (3-3/4)
PREFIX-750-4000	4.000" (4)
PREFIX-750-4500	4.500" (4-1/2)
PREFIX-750-5000	5.000" (5)
PREFIX-750-5500	5.500" (5-1/2)
PREFIX-750-6000	6.000" (6)

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7/8 (.8750")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 5/16"-18
Thread Length: .780"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-875-2000	2.000" (2)
PREFIX-875-2500	2.500" (2-1/2)
PREFIX-875-3000	3.000" (3)
PREFIX-875-3500	3.500" (3-1/2)
PREFIX-875-4000	4.000" (4)

1 (1.0000")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 5/16"-18
Thread Length: .780"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-1000-1500	1.500" (1-1/2)
PREFIX-1000-2000	2.000" (2)
PREFIX-1000-2250	2.250" (2-1/4)
PREFIX-1000-2500	2.500" (2-1/2)
PREFIX-1000-2750	2.750" (2-3/4)
PREFIX-1000-3000	3.000" (3)
PREFIX-1000-3500	3.500" (3-1/2)
PREFIX-1000-4000	4.000" (4)
PREFIX-1000-5000	5.000" (5)
PREFIX-1000-5500	5.500" (5-1/2)
PREFIX-1000-6000	6.000" (6)

1-1/2 (1.5000")

(A) Outside Diameter: +.0003/+.0001"

(X) Thread: 5/16"-18
Thread Length: .780"
Thread Type: UNC

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
PREFIX-1500-3000	3.000" (3)
PREFIX-1500-4000	4.000" (4)
PREFIX-1500-5000	5.000" (5)



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DIN 7979D PULLOUT – METRIC

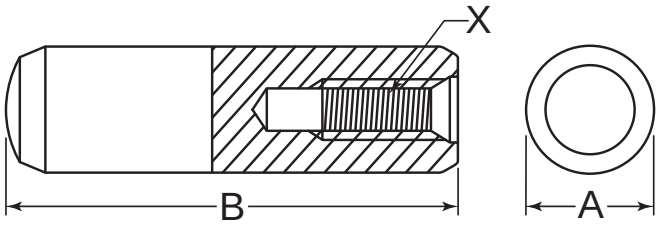
DESCRIPTION

Manufactured to DIN 7979D specification, these dowel pins have a threaded hole at one end. The threaded hole allows for the installation of a slide hammer to assist in removal.

HOW TO IDENTIFY

1. Verify solid pin with a countersunk tapped hole.
2. Measure outside diameter (A).
3. Measure length (B).
4. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
DOWPM	=	ALLOY STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

4.00 mm
(A) Outside Diameter: +0.012/+0.004 mm

(X) Thread: M2 x 0.4
Thread Length: 4.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.29/-0.29 mm
DOWPM-040-010	10.00 mm
	+0.35/-0.35 mm
DOWPM-040-012	12.00 mm
DOWPM-040-014	14.00 mm
DOWPM-040-016	16.00 mm
DOWPM-040-018	18.00 mm
	+0.42/-0.42 mm
DOWPM-040-020	20.00 mm
DOWPM-040-024	24.00 mm
DOWPM-040-028	28.00 mm
DOWPM-040-030	30.00 mm
	+0.50/-0.50 mm
DOWPM-040-032	32.00 mm
DOWPM-040-036	36.00 mm
DOWPM-040-040	40.00 mm
DOWPM-040-045	45.00 mm
DOWPM-040-050	50.00 mm

5.00 mm
(A) Outside Diameter: +0.012/+0.004 mm

(X) Thread: M3 x 0.5
Thread Length: 5.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.29/-0.29 mm
DOWPM-050-010	10.00 mm
	+0.35/-0.35 mm
DOWPM-050-012	12.00 mm
DOWPM-050-014	14.00 mm
DOWPM-050-016	16.00 mm
DOWPM-050-018	18.00 mm
	+0.42/-0.42 mm
DOWPM-050-020	20.00 mm
DOWPM-050-024	24.00 mm
DOWPM-050-028	28.00 mm
DOWPM-050-030	30.00 mm
	+0.50/-0.50 mm
DOWPM-050-032	32.00 mm
DOWPM-050-036	36.00 mm
DOWPM-050-040	40.00 mm
DOWPM-050-045	45.00 mm
DOWPM-050-050	50.00 mm

6.00 mm
(A) Outside Diameter: +0.012/+0.004 mm

(X) Thread: M4 x 0.7
Thread Length: 6.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.35/-0.35 mm
DOWPM-060-012	12.00 mm
DOWPM-060-014	14.00 mm
DOWPM-060-016	16.00 mm
DOWPM-060-018	18.00 mm
	+0.42/-0.42 mm
DOWPM-060-020	20.00 mm
DOWPM-060-024	24.00 mm
DOWPM-060-028	28.00 mm
DOWPM-060-030	30.00 mm
	+0.50/-0.50 mm
DOWPM-060-032	32.00 mm
DOWPM-060-036	36.00 mm
DOWPM-060-040	40.00 mm
DOWPM-060-045	45.00 mm
DOWPM-060-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-060-055	55.00 mm
DOWPM-060-060	60.00 mm
DOWPM-060-070	70.00 mm
DOWPM-060-080	80.00 mm

8.00 mm
(A) Outside Diameter: +0.015/+0.006 mm

(X) Thread: M5 x 0.8
Thread Length: 8.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.35/-0.35 mm
DOWPM-080-016	16.00 mm
DOWPM-080-018	18.00 mm
	+0.42/-0.42 mm
DOWPM-080-020	20.00 mm
DOWPM-080-024	24.00 mm
DOWPM-080-028	28.00 mm
DOWPM-080-030	30.00 mm
	+0.50/-0.50 mm
DOWPM-080-032	32.00 mm
DOWPM-080-035	35.00 mm
DOWPM-080-036	36.00 mm
DOWPM-080-040	40.00 mm
DOWPM-080-045	45.00 mm
DOWPM-080-050	50.00 mm

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PULLOUT – METRIC

DIN 7979D

8.00 mm
(A) Outside Diameter: +0.015/+0.006 mm

(X) Thread: M5 x 0.8
Thread Length: 8.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
DOWPM-080-055	55.00 mm
DOWPM-080-060	60.00 mm
DOWPM-080-070	70.00 mm
DOWPM-080-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-080-090	90.00 mm
DOWPM-080-100	100.00 mm

10.00 mm
(A) Outside Diameter: +0.015/+0.006 mm

(X) Thread: M6 x 1
Thread Length: 10.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.35/-0.35 mm
DOWPM-100-016	16.00 mm
	+0.42/-0.42 mm
DOWPM-100-020	20.00 mm
DOWPM-100-024	24.00 mm
DOWPM-100-028	28.00 mm
DOWPM-100-030	30.00 mm
	+0.50/-0.50 mm
DOWPM-100-032	32.00 mm
DOWPM-100-036	36.00 mm
DOWPM-100-040	40.00 mm
DOWPM-100-045	45.00 mm
DOWPM-100-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-100-055	55.00 mm
DOWPM-100-060	60.00 mm
DOWPM-100-070	70.00 mm
DOWPM-100-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-100-090	90.00 mm
DOWPM-100-100	100.00 mm
DOWPM-100-120	120.00 mm

12.00 mm
(A) Outside Diameter: +0.018/+0.007 mm

(X) Thread: M6 x 1
Thread Length: 10.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.42/-0.42 mm
DOWPM-120-020	20.00 mm
DOWPM-120-024	24.00 mm
DOWPM-120-028	28.00 mm
DOWPM-120-030	30.00 mm
	+0.50/-0.50 mm
DOWPM-120-032	32.00 mm
DOWPM-120-036	36.00 mm
DOWPM-120-040	40.00 mm
DOWPM-120-045	45.00 mm
DOWPM-120-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-120-055	55.00 mm
DOWPM-120-060	60.00 mm
DOWPM-120-070	70.00 mm
DOWPM-120-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-120-090	90.00 mm
DOWPM-120-100	100.00 mm
DOWPM-120-120	120.00 mm

14.00 mm
(A) Outside Diameter: +0.018/+0.007 mm

(X) Thread: M8 x 1.25
Thread Length: 12.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.42/-0.42 mm
DOWPM-140-028	28.00 mm
	+0.50/-0.50 mm
DOWPM-140-032	32.00 mm
DOWPM-140-036	36.00 mm
DOWPM-140-040	40.00 mm
DOWPM-140-045	45.00 mm
DOWPM-140-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-140-055	55.00 mm
DOWPM-140-060	60.00 mm
DOWPM-140-070	70.00 mm
DOWPM-140-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-140-090	90.00 mm
DOWPM-140-100	100.00 mm
DOWPM-140-120	120.00 mm

16.00 mm
(A) Outside Diameter: +0.018/+0.007 mm

(X) Thread: M8 x 1.25
Thread Length: 12.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
DOWPM-160-032	32.00 mm
DOWPM-160-036	36.00 mm
DOWPM-160-040	40.00 mm
DOWPM-160-045	45.00 mm
DOWPM-160-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-160-055	55.00 mm
DOWPM-160-060	60.00 mm
DOWPM-160-070	70.00 mm
DOWPM-160-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-160-090	90.00 mm
DOWPM-160-100	100.00 mm
DOWPM-160-120	120.00 mm

20.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

(X) Thread: M10 x 1.5
Thread Length: 16.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
DOWPM-200-032	32.00 mm
DOWPM-200-036	36.00 mm
DOWPM-200-040	40.00 mm
DOWPM-200-045	45.00 mm
DOWPM-200-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-200-055	55.00 mm
DOWPM-200-060	60.00 mm
DOWPM-200-070	70.00 mm
DOWPM-200-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-200-090	90.00 mm
DOWPM-200-100	100.00 mm
DOWPM-200-120	120.00 mm

25.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

(X) Thread: M16 x 2
Thread Length: 24.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
DOWPM-250-050	50.00 mm
	+0.60/-0.60 mm
DOWPM-250-060	60.00 mm
DOWPM-250-070	70.00 mm
DOWPM-250-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-250-090	90.00 mm
DOWPM-250-100	100.00 mm
DOWPM-250-120	120.00 mm
	+0.80/-0.80 mm
DOWPM-250-150	150.00 mm

30.00 mm
(A) Outside Diameter: +0.021/+0.008 mm

(X) Thread: M20 x 2.5
Thread Length: 30.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.60/-0.60 mm
DOWPM-300-060	60.00 mm
DOWPM-300-070	70.00 mm
DOWPM-300-080	80.00 mm
	+0.70/-0.70 mm
DOWPM-300-090	90.00 mm
DOWPM-300-100	100.00 mm
DOWPM-300-120	120.00 mm
	+0.80/-0.80 mm
DOWPM-300-150	150.00 mm

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GROUND HOLLOW – METRIC

DESCRIPTION

Ground hollow dowels are rolled pins that have been designed to be direct replacements for standard dowel pins in applications where centerline tolerancing and precision alignment are required.

HOW TO IDENTIFY

1. Verify ground hollow dowel design.
2. Measure diameter (A).
3. Measure length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

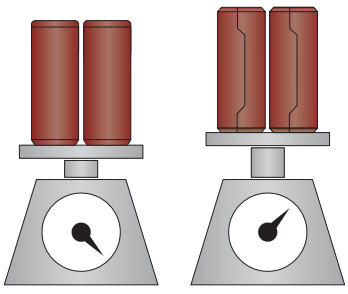
DOWGHM = LOW CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(B) OVERALL LENGTH
6.00 mm (A) Outside Diameter	
DOWGHM-060-012	12.00 mm
DOWGHM-060-020	20.00 mm
DOWGHM-060-024	24.00 mm
DOWGHM-060-030	30.00 mm
8.00 mm (A) Outside Diameter	
DOWGHM-080-012	12.00 mm
DOWGHM-080-016	16.00 mm
DOWGHM-080-020	20.00 mm
DOWGHM-080-024	24.00 mm
DOWGHM-080-030	30.00 mm
DOWGHM-080-032	32.00 mm
10.00 mm (A) Outside Diameter	
DOWGHM-100-012	12.00 mm
DOWGHM-100-020	20.00 mm
DOWGHM-100-024	24.00 mm
DOWGHM-100-030	30.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
12.00 mm (A) Outside Diameter	
DOWGHM-120-020	20.00 mm
DOWGHM-120-024	24.00 mm
DOWGHM-120-030	30.00 mm
16.00 mm (A) Outside Diameter	
DOWGHM-160-020	20.00 mm
DOWGHM-160-024	24.00 mm
DOWGHM-160-030	30.00 mm

DESIGN CONSIDERATIONS



GROUND HOLLOW DOWEL PINS WEIGH SUBSTANTIALLY LESS THAN SOLID PINS AND ELIMINATE THE NEED TO DRILL SEPARATE HOLES FOR ALIGNMENT AND BOLTING

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FLAT VENT

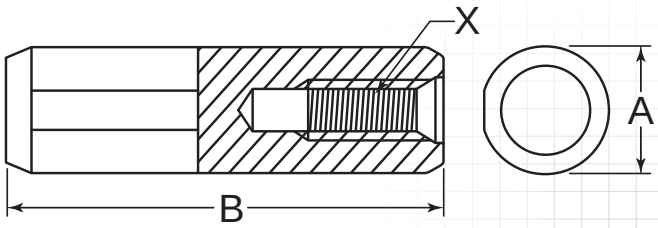
DESCRIPTION

Identical to regular pullout dowel pins but with a slightly flattened side to allow gas or liquid to escape while the medium is displaced during insertion.

HOW TO IDENTIFY

1. Verify pullout dowel pin with a flattened side.
2. Measure outside diameter (A).
3. Measure length (B).
4. Find the part in the chart on the following page.





PREFIX		MATERIAL/FINISH
DOWPF	=	ALLOY STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES FOR BOTH DESIGNS MAY BE AVAILABLE UPON REQUEST

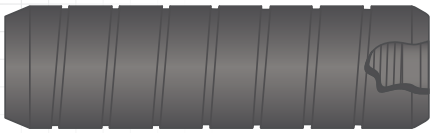
GROOVED

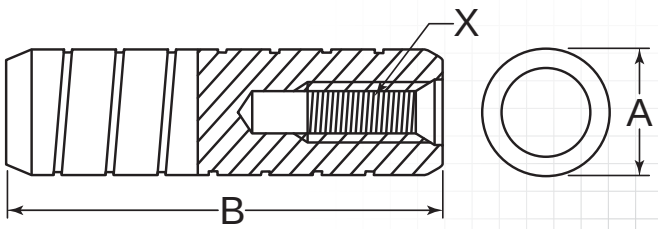
DESCRIPTION

Identical to flat vent pullout dowel pins but with a spiral groove instead of a slightly flattened side to allow gas or liquid to escape while the medium is displaced during insertion. The spiral groove allows for 360° hold over the flat vent pullout dowel.

HOW TO IDENTIFY

1. Verify pullout dowel pin with a spiral groove.
2. Measure outside diameter (A).
3. Measure length (B).
4. Find the part in the chart on the following page.





PREFIX		MATERIAL/FINISH
DOWPG	=	ALLOY STEEL, PLAIN*

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FLAT VENT & GROOVED

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
3/16 (.1875") (A) Outside Diameter	(X) Thread: #8-32 Thread Length: .410" Thread Type: UNC
PREFIX-187-0500	.500" (1/2)
PREFIX-187-1500	1.500" (1-1/2)
1/4 (.2500") (A) Outside Diameter	(X) Thread: #8-32 Thread Length: .410" Thread Type: UNC
PREFIX-250-0750	.750" (3/4)
PREFIX-250-1000	1.000" (1)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-2000	2.000" (2)
PREFIX-250-2500	2.500" (2-1/2)
5/16 (.3125") (A) Outside Diameter	(X) Thread: #10-32 Thread Length: .470" Thread Type: UNF
PREFIX-312-0750	.750" (3/4)
PREFIX-312-1000	1.000" (1)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-2000	2.000" (2)
PREFIX-312-2500	2.500" (2-1/2)
3/8 (.3750") (A) Outside Diameter	(X) Thread: #10-32 Thread Length: .470" Thread Type: UNF
PREFIX-375-1000	1.000" (1)
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-2000	2.000" (2)
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-3000	3.000" (3)

ITEM NUMBER	(B) OVERALL LENGTH +.010/-.010"
1/2 (.5000") (A) Outside Diameter	(X) Thread: 1/4"-20 Thread Length: .630" Thread Type: UNC
PREFIX-500-1000	1.000" (1)
PREFIX-500-1250	1.250" (1-1/4)
PREFIX-500-1500	1.500" (1-1/2)
PREFIX-500-1750	1.750" (1-3/4)
PREFIX-500-2000	2.000" (2)
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-3000	3.000" (3)
PREFIX-500-3500	3.500" (3-1/2)
5/8 (.6250") (A) Outside Diameter	(X) Thread: 1/4"-20 Thread Length: .630" Thread Type: UNC
PREFIX-625-1500	1.500" (1-1/2)
PREFIX-625-2000	2.000" (2)
PREFIX-625-2250	2.250" (2-1/4)
PREFIX-625-2500	2.500" (2-1/2)
PREFIX-625-3000	3.000" (3)
3/4 (.7500") (A) Outside Diameter	(X) Thread: 5/16"-18 Thread Length: .780" Thread Type: UNC
PREFIX-750-2000	2.000" (2)
PREFIX-750-2500	2.500" (2-1/2)
PREFIX-750-3000	3.000" (3)
PREFIX-750-4000	4.000" (4)
1 (1.0000") (A) Outside Diameter	(X) Thread: 5/16"-18 Thread Length: .780" Thread Type: UNC
PREFIX-1000-2000	2.000" (2)
PREFIX-1000-3000	3.000" (3)
PREFIX-1000-4000	4.000" (4)
1-1/2 (1.5000") (A) Outside Diameter	(X) Thread: 5/16"-18 Thread Length: .780" Thread Type: UNC
PREFIX-1500-4000	4.000" (4)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

DOWPF • DOWPG

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ALEMITE — Premium Lubrication Fittings & Equipment

Stakepoof group — Clevis Pins

SPIROL — Rolled Pins, Spacers, & Thrust Washers

Cotter Pins & Wire Forms

DRIVLOK — Grooved Pins

LINCOLN — Domestic Lubrication Fittings & Equipment

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ASSORTMENTS



Stainless Steel Imperial DISP-DPS176

176 Pieces
Stainless Steel, Plain

Parts Included	Size	Quantity
DOWS-062-0750	1/16" x 3/4"	8
DOWS-125-0375	1/8" x 3/8"	6
DOWS-125-0500	1/8" x 1/2"	10
DOWS-125-0750	1/8" x 3/4"	6
DOWS-125-1000	1/8" x 1"	6
DOWS-187-0500	3/16" x 1/2"	8
DOWS-187-0750	3/16" x 3/4"	6
DOWS-187-1000	3/16" x 1"	8
DOWS-187-1500	3/16" x 1-1/2"	4
DOWS-250-0500	1/4" x 1/2"	6
DOWS-250-0625	1/4" x 5/8"	6
DOWS-250-0750	1/4" x 3/4"	10
DOWS-250-1000	1/4" x 1"	10
DOWS-250-1250	1/4" x 1-1/4"	8
DOWS-250-1500	1/4" x 1-1/2"	6
DOWS-312-0750	5/16" x 3/4"	6
DOWS-312-1000	5/16" x 1"	8
DOWS-312-1250	5/16" x 1-1/4"	6
DOWS-312-1500	5/16" x 1-1/2"	6
DOWS-312-2000	5/16" x 2"	4
DOWS-375-1000	3/8" x 1"	10
DOWS-375-1250	3/8" x 1-1/4"	6
DOWS-375-1500	3/8" x 1-1/2"	8
DOWS-375-2000	3/8" x 2"	6
DOWS-500-1500	1/2" x 1-1/2"	4
DOWS-500-2000	1/2" x 2"	4

Hardened Metric DISP-DPM187

187 Pieces
Alloy Steel, Plain*

Parts Included	Size	Quantity
DOWMH-030-050	3 mm x 50 mm	50
DOWMH-040-050	4 mm x 50 mm	30
DOWMH-040-060	4 mm x 60 mm	25
DOWMH-050-050	5 mm x 50 mm	20
DOWMH-050-060	5 mm x 60 mm	20
DOWMH-060-050	6 mm x 50 mm	15
DOWMH-060-060	6 mm x 60 mm	15
DOWMH-060-070	6 mm x 70 mm	12

Standard Imperial DISP-DP120

120 Pieces
Alloy Steel, Plain*

Parts Included	Size	Quantity
DOW-312-0750	5/16" x 3/4"	10
DOW-312-1000	5/16" x 1"	10
DOW-312-1250	5/16" x 1-1/4"	10
DOW-312-1500	5/16" x 1-1/2"	10
DOW-312-1750	5/16" x 1-3/4"	10
DOW-312-2000	5/16" x 2"	10
DOW-375-1000	3/8" x 1"	6
DOW-375-1250	3/8" x 1-1/4"	6
DOW-375-1500	3/8" x 1-1/2"	6
DOW-375-1750	3/8" x 1-3/4"	6
DOW-375-2000	3/8" x 2"	6
DOW-500-1000	1/2" x 1"	4
DOW-500-1500	1/2" x 1-1/2"	4
DOW-500-2000	1/2" x 2"	4
DOW-500-2500	1/2" x 2-1/2"	4
DOW-500-3000	1/2" x 3"	4
DOW-625-1000	5/8" x 1"	2
DOW-625-1500	5/8" x 1-1/2"	2
DOW-625-2000	5/8" x 2"	2
DOW-625-2500	5/8" x 2-1/2"	2
DOW-625-3000	5/8" x 3"	2

Standard Imperial DISP-DP210

210 Pieces
Alloy Steel, Plain*

Parts Included	Size	Quantity
DOW-062-0500	1/16" x 1/2"	10
DOW-062-0625	1/16" x 5/8"	10
DOW-062-0750	1/16" x 3/4"	10
DOW-093-0500	3/32" x 1/2"	10
DOW-093-0625	3/32" x 5/8"	10
DOW-093-0750	3/32" x 3/4"	10
DOW-093-1000	3/32" x 1"	10
DOW-125-0500	1/8" x 1/2"	10
DOW-125-0750	1/8" x 3/4"	10
DOW-125-0875	1/8" x 7/8"	10
DOW-125-1000	1/8" x 1"	10
DOW-125-1250	1/8" x 1-1/4"	10
DOW-187-0750	3/16" x 3/4"	10
DOW-187-0875	3/16" x 7/8"	10
DOW-187-1000	3/16" x 1"	10
DOW-187-1500	3/16" x 1-1/2"	10
DOW-250-0875	1/4" x 7/8"	10
DOW-250-1000	1/4" x 1"	10
DOW-250-1250	1/4" x 1-1/4"	10
DOW-250-1500	1/4" x 1-1/2"	10
DOW-250-2000	1/4" x 2"	10

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

ALSO AVAILABLE...

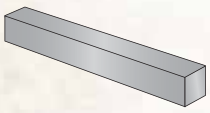
KEYSTOCK, SHAFTING, & MACHINE KEYS



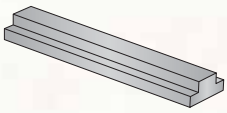
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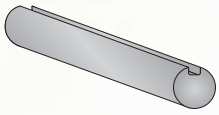
Need a short run or special? Have an emergency? Give us a call today. Our complete manufacturing facility will customize a solution to your exacting specifications.



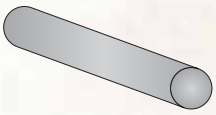
Keystock
Cut to length for your application; square and rectangular keystock available



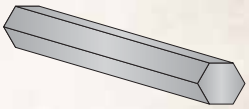
Step Keystock
Often referred to as offset keystock; type 1 and type 2 available



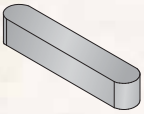
Keyed Shafting
Round shafting that has a keyway cut into the material to mate with a machine key for assembly components



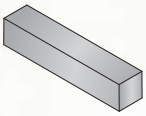
Round Shafting
Used on drive shafts to connect mirroring parts from one side to another



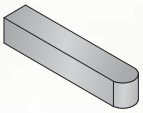
Hex Shafting
Similar in function to round shafting but with a hexagon shaped profile



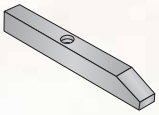
Form A Machine Keys
Both ends round



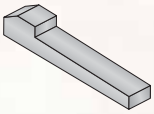
Form B Machine Keys
Both ends square



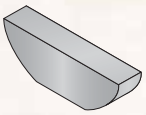
Form AB Machine Keys
One end round, one end square



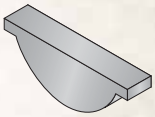
Special Machine Keys
Made to your specifications



Gib Keys
Tapered and notched key



Woodruff Keys
Half-moon shape



Hi-Pro Keys
Half-moon shape with feet

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GROOVED PIN FEATURES

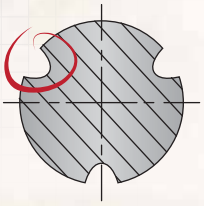
Grooved pins are solid press fit fasteners that are quickly gaining in popularity. They feature three parallel grooves and are commonly used as locking devices, pivots, levers, or locating elements.

DESIGN CONSIDERATIONS

A GROOVED PIN IS NOT GROOVED, IT IS FLUTED.

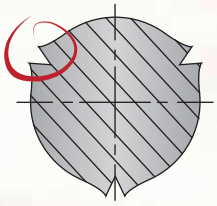
This is the most important concept to understand about grooved pins.
During manufacturing, the grooves are formed by a swaging operation; **material is displaced, but not removed**.

If material was removed.



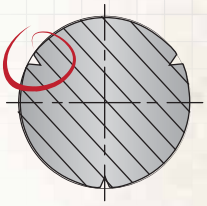
CROSS SECTION OF HOW PEOPLE THINK A GROOVED PIN LOOKS

Material is displaced, not removed.



CROSS SECTION OF HOW A GROOVED PIN REALLY LOOKS

Note that displaced material has been "compressed" into hole.

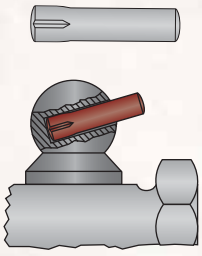


AFTER INSTALLATION

Grooved pins' holding power comes from the radial forces generated when the swaged material is compressed in the hole.

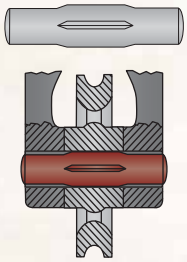
PARALLEL GROOVES DETERMINE WHERE AND HOW MUCH THE PIN WILL HOLD.

QUARTER-LENGTH



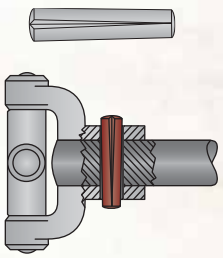
NON-FLUTED PORTION CAN BE USED AS A LEVER

HALF-LENGTH



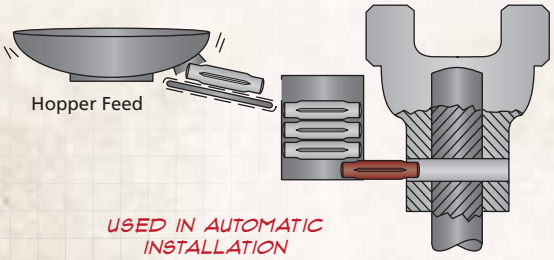
CENTERED AS SHOWN, THE ENDS CAN BE USED AS ROLLER SHAFTS

FULL-LENGTH

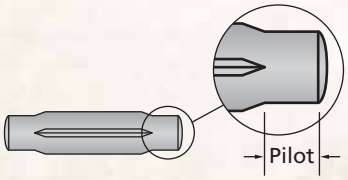


HOLDS ENTIRE LENGTH OF PIN

PILOTS

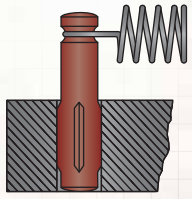


USED IN AUTOMATIC INSTALLATION



Pilots are the small non-fluted portions at the ends of the pin and should not be confused with longer non-fluted portions of the pin. They appear smaller in diameter than the grooved portion. Pilots simplify installation by creating a starting position.

ANNULAR GROOVES



USED TO HOLD A COMPRESSION SPRING IN POSITION

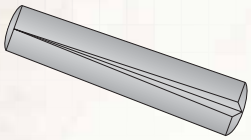
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GROOVED PIN TYPES

STANDARD TYPE GROOVED PINS AND DIN GROOVED PINS ARE NOT INTERCHANGEABLE EVEN THOUGH THEY HAVE SIMILAR FEATURES.

TYPE A / DIN 1471

Features three full-length tapered grooves. Popular in applications requiring a strong locking effect and ease of assembly. Used in place of taper pins, rivets, set screws, and machine keys.

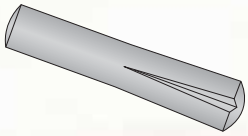


Alt.Type	Driv-Lok	ANSI
Type 1	A	ANSI-A

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TYPE B / DIN 1472

Features three half-length tapered grooves. Commonly used as a hinge or pivot pin. The grooved end is the locking portion, while the other end serves as a handle. Also works in dowel applications.

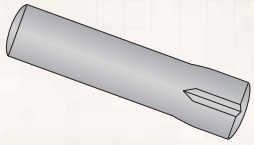


Alt.Type	Driv-Lok	ANSI
Type 2	B	ANSI-B

PAGE 174 & 175

TYPE C

Features three quarter-length parallel grooves. Widely used in hinge applications. The long lead eases insertion.

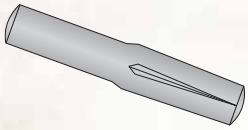


Alt.Type	Driv-Lok	ANSI
Type 24	C	n/a

PAGE 179

TYPE D / DIN 1474

Features three half-length reverse tapered grooves. Provides maximum holding power. Permits easy insertion into blind holes.

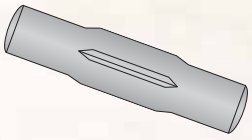


Alt.Type	Driv-Lok	ANSI
Type 4	D	ANSI-O

PAGE 183 & 184

TYPE E / DIN 1475

Features three half-length parallel grooves located equidistant from each end. Commonly used as a T-handle on valves and tools.

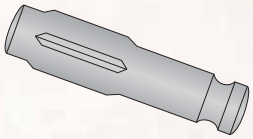


Alt.Type	Driv-Lok	ANSI
Type 5	E	ANSI-E

PAGE 187 & 191

TYPE G / DIN 1469

Features three half-length parallel grooves with a pilot on the opposite end. Permits versatile use in blind or through holes as a spring anchor pin.

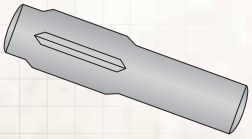


Alt.Type	Driv-Lok	ANSI
Type 67	G	ANSI-G

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TYPE H

Features three half-length parallel grooves, but do not have a pilot. When pressed in place, grooved portion locks in one part, while other end is free to serve as a locater or hinge.

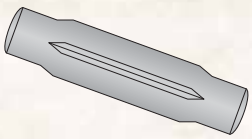


Alt.Type	Driv-Lok	ANSI
Type 2A	H	ANSI-H

PAGE 198

TYPE U

Features three full-length parallel grooves with a pilot on both ends. Ideal for hopper or automatic feeding.

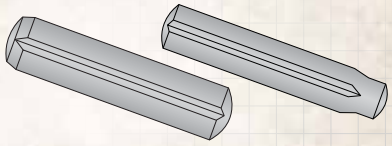


Alt.Type	Driv-Lok	ANSI
Type 3H	U	ANSI-F

PAGE 201

DIN 1470 & 1473

Features three full-length parallel grooves. DIN 1470 pins have a short pilot and DIN 1473 pins have a chamfer. Recommended for applications that require maximum locking effect, where severe vibration and/or shock loading are present.



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QUICK REFERENCE GUIDE

Grooved pins are ideal for applications requiring superior locking effects and ease of assembly. Use in place of taper pins, set screws, nuts, and lugs. Pilot end eases installation, while the non-fluted portion is ideal for use as a stop, hinge, pivot, or key.

	COMMON NAMES	APPLICABLE STANDARDS	FABRICATION	HOW TO IDENTIFY	COMMON USES	COMMENTS
GROOVED	Grooved Pin, Driv-Lok Pin	ASME B18.8.2, DIN specifications: 1469, 1470, 1471, 1472, 1473, 1474, and 1475	Parts are turned and grooves are swaged, a process that disrupts the surface of the pin, without removing material. The swaged areas are compressed into the hole, creating tension and force for holding the part in place.	Nominal diameter × nominal length; define form. The form is determined by the location of the grooves and the presence of pilots and other features.	Mostly original equipment. Used in place of a dowel or rolled pin (Type A); or as a handle (Type E); a pivot point (Type C), or spring anchor (Type G).	Numerous designs. While metric and imperial pins have similar features, they are manufactured to different specifications.

DOUBLE SHEAR STRENGTH

For more information on shear strength, see page 10.

				GROOVED PINS (ALL TYPES)			SLOTTED PIN	COILED PIN
								
NOMINAL PIN DIAMETER•	SHAFT SIZE	MAX TORQUE IN LBS.	HOLDING POWER AT 100 RPM	STEEL ZINC	STAINLESS STEEL	ALLOY HEAT TREAT	SLOTTED SPRING PIN	COILED SPRING PIN
3/32"	1/4"	–	–	890	1,240	1,600	1,150	775
1/8"	3/8"	14.0	0.022	1,600	2,200	2,820	1,875	1,400
5/32"	7/16"	–	–	2,300	3,310	4,520	2,750	2,200
3/16"	9/16"	37.4	0.059	3,310	4,760	6,440	4,150	3,150
7/32"	5/8"	–	–	4,510	6,480	8,770	5,850	–
1/4"	3/4"	68.2	0.108	5,880	8,460	11,500	7,050	5,500
5/16"	15/16"	–	–	7,660	12,700	17,900	10,800	8,700
3/8"	1-1/8"	126.2	0.200	11,000	18,200	26,000	16,300	12,600
7/16"	1-5/16"	–	–	15,000	24,800	35,200	19,800	–
1/2"	1-1/2"	190.6	0.303	19,600	32,400	46,000	27,100	22,500

NOTE: For an accurate measurement of a grooved pin diameter, a ring gauge MUST be used, not a micrometer.

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ASME B18.8.2

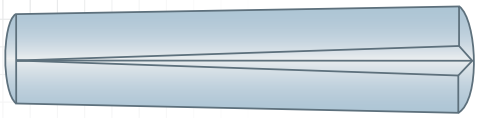
TYPE A

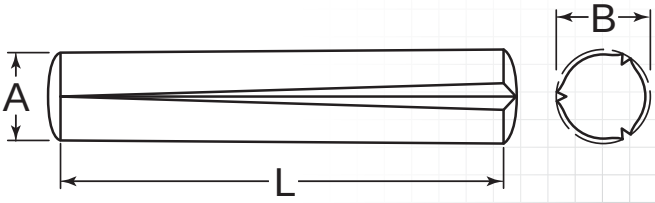
DESCRIPTION

Three full-length tapered grooves. Ideal for applications requiring superior locking effect and ease of assembly.

HOW TO IDENTIFY

1. Verify three full-length tapered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Type A identified by "-A" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"	(B)* EXPANDED DIA.
1/16 (.0625") (A) Outside Diameter: +.0000/-.0015"	End Radius: .0880" Groove Length = Overall Length (B) Expanded Diameter: +.0015/-.0015"	
PREFIX-0062-0250-A	.2500" (1/4)	.0680"
PREFIX-0062-0375-A	.3750" (3/8)	.0680"
PREFIX-0062-0500-A	.5000" (1/2)	.0680"
PREFIX-0062-0625-A	.6250" (5/8)	.0680"
PREFIX-0062-0750-A	.7500" (3/4)	.0670"
PREFIX-0062-0875-A	.8750" (7/8)	.0670"
PREFIX-0062-1000-A	1.0000" (1)	.0670"
3/32 (.0938") (A) Outside Diameter: +.0000/-.0015"	End Radius: .1350" Groove Length = Overall Length (B) Expanded Diameter: +.002/-.002"	
PREFIX-0093-0250-A	.2500" (1/4)	.1010"
PREFIX-0093-0375-A	.3750" (3/8)	.1010"
PREFIX-0093-0500-A	.5000" (1/2)	.1010"
PREFIX-0093-0562-A	.5625" (9/16)	.1010"
PREFIX-0093-0625-A	.6250" (5/8)	.1010"
PREFIX-0093-0687-A	.6875" (11/16)	.1010"
PREFIX-0093-0750-A	.7500" (3/4)	.1010"
PREFIX-0093-0875-A	.8750" (7/8)	.1000"
PREFIX-0093-1000-A	1.0000" (1)	.1000"
PREFIX-0093-1250-A	1.2500" (1-1/4)	.1000"
1/8 (.1250") (A) Outside Diameter: +.000/-.002"	End Radius: .1660" Groove Length = Overall Length (B) Expanded Diameter: +.002/-.002"	
PREFIX-0125-0250-A	.2500" (1/4)	.1340"
PREFIX-0125-0312-A	.3125" (5/16)	.1340"
PREFIX-0125-0375-A	.3750" (3/8)	.1340"
PREFIX-0125-0500-A	.5000" (1/2)	.1340"
PREFIX-0125-0562-A	.5625" (9/16)	.1340"
PREFIX-0125-0625-A	.6250" (5/8)	.1340"
PREFIX-0125-0750-A	.7500" (3/4)	.1340"
PREFIX-0125-0875-A	.8750" (7/8)	.1330"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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TYPE A

ASME B18.8.2

PREFIX	MATERIAL/FINISH

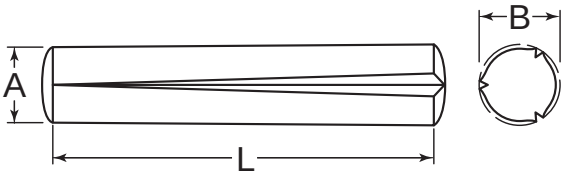
Type A identified by "-A" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR

GPA = ALLOY STEEL, PLAIN*

GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"	(B)* EXPANDED DIA.
1/8 (.1250") (A) Outside Diameter: +.000/-.002"	End Radius: .1660" Groove Length = Overall Length (B) Expanded Diameter: +.002/-.002"	
PREFIX-0125-1000-A	1.0000" (1)	.1330"
PREFIX-0125-1125-A	1.1250" (1-1/8)	.1320"
PREFIX-0125-1250-A	1.2500" (1-1/4)	.1320"
PREFIX-0125-1500-A	1.5000" (1-1/2)	.1320"
5/32 (.1563") (A) Outside Diameter: +.000/-.002"	End Radius: .1980" Groove Length = Overall Length (B) Expanded Diameter: +.002/-.002"	
PREFIX-0156-0375-A	.3750" (3/8)	.1660"
PREFIX-0156-0500-A	.5000" (1/2)	.1660"
PREFIX-0156-0625-A	.6250" (5/8)	.1660"
PREFIX-0156-0750-A	.7500" (3/4)	.1660"
PREFIX-0156-0875-A	.8750" (7/8)	.1650"
PREFIX-0156-1000-A	1.0000" (1)	.1650"
PREFIX-0156-1125-A	1.1250" (1-1/8)	.1640"
PREFIX-0156-1250-A	1.2500" (1-1/4)	.1640"
PREFIX-0156-1500-A	1.5000" (1-1/2)	.1640"
PREFIX-0156-1750-A	1.7500" (1-3/4)	.1630"
PREFIX-0156-2000-A	2.0000" (2)	.1630"
3/16 (.1875") (A) Outside Diameter: +.000/-.002"	End Radius: .2600" Groove Length = Overall Length (B) Expanded Diameter: +.0025/-.0025"	
PREFIX-0187-0312-A	.3125" (5/16)	.1980"
PREFIX-0187-0375-A	.3750" (3/8)	.1980"
PREFIX-0187-0500-A	.5000" (1/2)	.1980"
PREFIX-0187-0625-A	.6250" (5/8)	.1980"
PREFIX-0187-0750-A	.7500" (3/4)	.1980"
PREFIX-0187-0875-A	.8750" (7/8)	.1980"
PREFIX-0187-1000-A	1.0000" (1)	.1980"
PREFIX-0187-1125-A	1.1250" (1-1/8)	.1970"
PREFIX-0187-1250-A	1.2500" (1-1/4)	.1970"
PREFIX-0187-1375-A	1.3750" (1-3/8)	.1970"
PREFIX-0187-1500-A	1.5000" (1-1/2)	.1970"
PREFIX-0187-1750-A	1.7500" (1-3/4)	.1970"
PREFIX-0187-2000-A	2.0000" (2)	.1960"
PREFIX-0187-2250-A	2.2500" (2-1/4)	.1960"

*SEE STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES ON PAGE 169

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"	(B)* EXPANDED DIA.
7/32 (.2188") (A) Outside Diameter: +.000/-.002"	End Radius: .2910" Groove Length = Overall Length (B) Expanded Diameter: +.0025/-.0025"	
PREFIX-0218-0500-A	.5000" (1/2)	.2300"
PREFIX-0218-0625-A	.6250" (5/8)	.2300"
PREFIX-0218-0750-A	.7500" (3/4)	.2300"
PREFIX-0218-0875-A	.8750" (7/8)	.2300"
PREFIX-0218-1000-A	1.0000" (1)	.2300"
PREFIX-0218-1250-A	1.2500" (1-1/4)	.2300"
PREFIX-0218-1500-A	1.5000" (1-1/2)	.2290"
PREFIX-0218-1750-A	1.7500" (1-3/4)	.2290"
PREFIX-0218-2000-A	2.0000" (2)	.2290"
PREFIX-0218-2250-A	2.2500" (2-1/4)	.2290"
1/4 (.2500") (A) Outside Diameter: +.000/-.002"	End Radius: .3220" Groove Length = Overall Length (B) Expanded Diameter: +.0025/-.0025"	
PREFIX-0250-0500-A	.5000" (1/2)	.2630"
PREFIX-0250-0625-A	.6250" (5/8)	.2630"
PREFIX-0250-0750-A	.7500" (3/4)	.2630"
PREFIX-0250-0875-A	.8750" (7/8)	.2630"
PREFIX-0250-1000-A	1.0000" (1)	.2630"
PREFIX-0250-1250-A	1.2500" (1-1/4)	.2630"
PREFIX-0250-1375-A	1.3750" (1-3/8)	.2620"
PREFIX-0250-1500-A	1.5000" (1-1/2)	.2620"
PREFIX-0250-1750-A	1.7500" (1-3/4)	.2620"
PREFIX-0250-2000-A	2.0000" (2)	.2620"
PREFIX-0250-2250-A	2.2500" (2-1/4)	.2620"
PREFIX-0250-2500-A	2.5000" (2-1/2)	.2610"
PREFIX-0250-2750-A	2.7500" (2-3/4)	.2610"
5/16 (.3125") (A) Outside Diameter: +.000/-.002"	End Radius: .3850" Groove Length = Overall Length (B) Expanded Diameter: +.0025/-.0025"	
PREFIX-0312-0375-A	.3750" (3/8)	.3290"
PREFIX-0312-0625-A	.6250" (5/8)	.3290"
PREFIX-0312-0750-A	.7500" (3/4)	.3290"
PREFIX-0312-0875-A	.8750" (7/8)	.3290"
PREFIX-0312-1000-A	1.0000" (1)	.3290"
PREFIX-0312-1250-A	1.2500" (1-1/4)	.3290"
PREFIX-0312-1500-A	1.5000" (1-1/2)	.3290"
PREFIX-0312-1625-A	1.6250" (1-5/8)	.3280"
PREFIX-0312-1750-A	1.7500" (1-3/4)	.3280"
PREFIX-0312-2000-A	2.0000" (2)	.3280"
PREFIX-0312-2250-A	2.2500" (2-1/4)	.3280"

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ASME B18.8.2

TYPE A

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"	(B)* EXPANDED DIA.
PREFIX-0312-2500-A	2.5000" (2-1/2)	.3270"
PREFIX-0312-2750-A	2.7500" (2-3/4)	.3270"

3/8 (.3750") (A) Outside Diameter: +.000/-.002"	End Radius: .4790" Groove Length = Overall Length (B) Expanded Diameter: +.003/-.003"	
PREFIX-0375-0750-A	.7500" (3/4)	.3940"
PREFIX-0375-0875-A	.8750" (7/8)	.3940"
PREFIX-0375-1000-A	1.0000" (1)	.3940"
PREFIX-0375-1250-A	1.2500" (1-1/4)	.3940"
PREFIX-0375-1500-A	1.5000" (1-1/2)	.3940"
PREFIX-0375-1750-A	1.7500" (1-3/4)	.3930"
PREFIX-0375-2000-A	2.0000" (2)	.3930"
PREFIX-0375-2250-A	2.2500" (2-1/4)	.3930"
PREFIX-0375-2500-A	2.5000" (2-1/2)	.3930"
PREFIX-0375-2750-A	2.7500" (2-3/4)	.3930"
PREFIX-0375-3000-A	3.0000" (3)	.3920"
PREFIX-0375-3250-A	3.2500" (3-1/4)	.3920"
PREFIX-0375-3500-A	3.5000" (3-1/2)	.3910"

7/16 (.4375") (A) Outside Diameter: +.000/-.002"	End Radius: .5410" Groove Length = Overall Length (B) Expanded Diameter: +.003/-.003"	
PREFIX-0437-0875-A	.8750" (7/8)	.4590"
PREFIX-0437-1000-A	1.0000" (1)	.4590"
PREFIX-0437-1250-A	1.2500" (1-1/4)	.4590"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"	(B)* EXPANDED DIA.
PREFIX-0437-1500-A	1.5000" (1-1/2)	.4590"
PREFIX-0437-1750-A	1.7500" (1-3/4)	.4590"
PREFIX-0437-2000-A	2.0000" (2)	.4580"
PREFIX-0437-2250-A	2.2500" (2-1/4)	.4580"
PREFIX-0437-2500-A	2.5000" (2-1/2)	.4580"
PREFIX-0437-2750-A	2.7500" (2-3/4)	.4580"
PREFIX-0437-3000-A	3.0000" (3)	.4570"
PREFIX-0437-3250-A	3.2500" (3-1/4)	.4570"
PREFIX-0437-3500-A	3.5000" (3-1/2)	.4560"

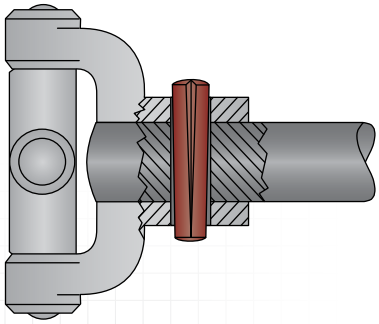
1/2 (.5000") (A) Outside Diameter: +.000/-.002"	End Radius: .6350" Groove Length = Overall Length (B) Expanded Diameter: +.003/-.003"	
PREFIX-0500-1000-A	1.0000" (1)	.5250"
PREFIX-0500-1250-A	1.2500" (1-1/4)	.5250"
PREFIX-0500-1500-A	1.5000" (1-1/2)	.5250"
PREFIX-0500-1750-A	1.7500" (1-3/4)	.5250"
PREFIX-0500-2000-A	2.0000" (2)	.5250"
PREFIX-0500-2250-A	2.2500" (2-1/4)	.5240"
PREFIX-0500-2500-A	2.5000" (2-1/2)	.5240"
PREFIX-0500-2750-A	2.7500" (2-3/4)	.5240"
PREFIX-0500-3000-A	3.0000" (3)	.5230"
PREFIX-0500-3250-A	3.2500" (3-1/4)	.5230"
PREFIX-0500-3500-A	3.5000" (3-1/2)	.5220"
PREFIX-0500-3750-A	3.750"	.5220"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

GP • GPA • GPS

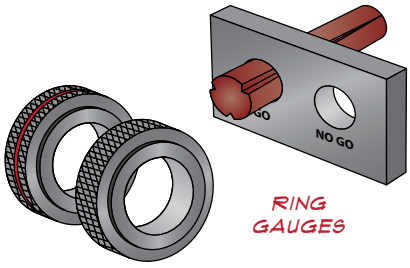
IN STOCK ORDERS SHIP NEXT BUSINESS DAY

APPLICATION



AS A LOCK PIN

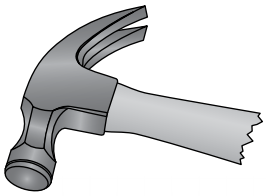
EASY TO INSTALL



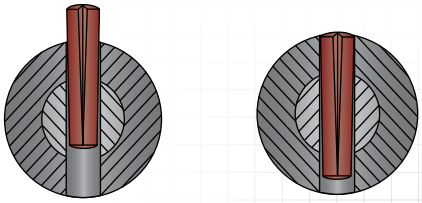
RING GAUGES

GO/NO GO ring gauges are used to check grooved pin sizes. GO gauges are larger than NO GO gauges and may be separate units. If unmarked, an annular groove in the knurled outer surface of a NO GO ring distinguishes it from a GO ring.

DETERMINE SIZE



POUND INTO PLACE



SECURE TIGHT FIT ONCE INSTALLED

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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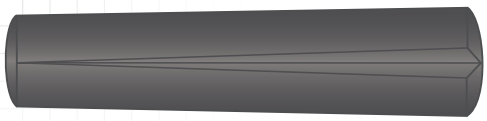
DIN 1471 (SIMILAR TO TYPE A)

DESCRIPTION

Three full-length tapered grooves. Ideal for applications requiring superior locking effect and ease of assembly. DIN 1471 is not interchangeable with ASME Type A.

HOW TO IDENTIFY

1. Verify three full-length tapered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1471 identified by "-71" at end of item number.

GPM = CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.500 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-015-004-71	4.000 mm
GPM-015-005-71	5.000 mm
GPM-015-006-71	6.000 mm
GPM-015-008-71	8.000 mm
GPM-015-010-71	10.000 mm
GPM-015-012-71	12.000 mm
GPM-015-016-71	16.000 mm

2.000 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-020-004-71	4.000 mm
GPM-020-005-71	5.000 mm
GPM-020-006-71	6.000 mm
GPM-020-008-71	8.000 mm
GPM-020-010-71	10.000 mm
GPM-020-012-71	12.000 mm
GPM-020-014-71	14.000 mm
GPM-020-016-71	16.000 mm
GPM-020-018-71	18.000 mm
GPM-020-020-71	20.000 mm
GPM-020-022-71	22.000 mm
GPM-020-024-71	24.000 mm
GPM-020-026-71	26.000 mm
GPM-020-028-71	28.000 mm
GPM-020-030-71	30.000 mm

2.500 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-025-006-71	6.000 mm
GPM-025-008-71	8.000 mm
GPM-025-010-71	10.000 mm
GPM-025-012-71	12.000 mm
GPM-025-014-71	14.000 mm
GPM-025-016-71	16.000 mm
GPM-025-018-71	18.000 mm
GPM-025-020-71	20.000 mm
GPM-025-022-71	22.000 mm
GPM-025-024-71	24.000 mm
GPM-025-026-71	26.000 mm
GPM-025-028-71	28.000 mm
GPM-025-030-71	30.000 mm

3.000 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-030-006-71	6.000 mm
GPM-030-008-71	8.000 mm
GPM-030-010-71	10.000 mm
GPM-030-012-71	12.000 mm
GPM-030-014-71	14.000 mm
GPM-030-016-71	16.000 mm
GPM-030-018-71	18.000 mm
GPM-030-020-71	20.000 mm
GPM-030-022-71	22.000 mm
GPM-030-024-71	24.000 mm
GPM-030-026-71	26.000 mm
GPM-030-028-71	28.000 mm
GPM-030-030-71	30.000 mm
GPM-030-036-71	36.000 mm

4.000 mm
(A) Outside Diameter: +0.000/-0.070 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-040-006-71	6.000 mm
GPM-040-008-71	8.000 mm
GPM-040-010-71	10.000 mm
GPM-040-012-71	12.000 mm
GPM-040-014-71	14.000 mm
GPM-040-016-71	16.000 mm
GPM-040-018-71	18.000 mm
GPM-040-020-71	20.000 mm
GPM-040-022-71	22.000 mm
GPM-040-024-71	24.000 mm
GPM-040-026-71	26.000 mm
GPM-040-028-71	28.000 mm
GPM-040-030-71	30.000 mm
GPM-040-032-71	32.000 mm
GPM-040-036-71	36.000 mm

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

(SIMILAR TO TYPE A)

DIN 1471

ITEM NUMBER	(L) OVERALL LENGTH
GPM-040-040-71	40.000 mm
GPM-040-045-71	45.000 mm

5.000 mm
(A) Outside Diameter: +0.000/-0.070 mm

	+0.050/-0.050 mm
GPM-050-008-71	8.000 mm
GPM-050-010-71	10.000 mm
GPM-050-012-71	12.000 mm
GPM-050-014-71	14.000 mm
GPM-050-016-71	16.000 mm
GPM-050-018-71	18.000 mm
GPM-050-020-71	20.000 mm
GPM-050-022-71	22.000 mm
GPM-050-024-71	24.000 mm
GPM-050-026-71	26.000 mm
GPM-050-028-71	28.000 mm
GPM-050-030-71	30.000 mm
GPM-050-032-71	32.000 mm
GPM-050-036-71	36.000 mm
GPM-050-040-71	40.000 mm
GPM-050-045-71	45.000 mm
GPM-050-050-71	50.000 mm

6.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

	+0.050/-0.050 mm
GPM-060-008-71	8.000 mm
GPM-060-010-71	10.000 mm
GPM-060-012-71	12.000 mm
GPM-060-014-71	14.000 mm
GPM-060-016-71	16.000 mm
GPM-060-018-71	18.000 mm
GPM-060-020-71	20.000 mm
GPM-060-022-71	22.000 mm
GPM-060-024-71	24.000 mm
GPM-060-026-71	26.000 mm
GPM-060-028-71	28.000 mm
GPM-060-030-71	30.000 mm
GPM-060-032-71	32.000 mm
GPM-060-036-71	36.000 mm
GPM-060-040-71	40.000 mm
GPM-060-045-71	45.000 mm
GPM-060-050-71	50.000 mm
GPM-060-055-71	55.000 mm
GPM-060-060-71	60.000 mm

8.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

	+0.050/-0.050 mm
GPM-080-010-71	10.000 mm
GPM-080-012-71	12.000 mm

ITEM NUMBER	(L) OVERALL LENGTH
GPM-080-014-71	14.000 mm
GPM-080-016-71	16.000 mm
GPM-080-018-71	18.000 mm
GPM-080-020-71	20.000 mm
GPM-080-022-71	22.000 mm
GPM-080-024-71	24.000 mm
GPM-080-026-71	26.000 mm
GPM-080-028-71	28.000 mm
GPM-080-030-71	30.000 mm
GPM-080-032-71	32.000 mm
GPM-080-036-71	36.000 mm
GPM-080-040-71	40.000 mm
GPM-080-045-71	45.000 mm
GPM-080-050-71	50.000 mm
GPM-080-055-71	55.000 mm
GPM-080-060-71	60.000 mm
GPM-080-065-71	65.000 mm
GPM-080-070-71	70.000 mm

10.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

	+0.050/-0.050 mm
GPM-100-014-71	14.000 mm
GPM-100-016-71	16.000 mm
GPM-100-018-71	18.000 mm
GPM-100-020-71	20.000 mm
GPM-100-022-71	22.000 mm
GPM-100-025-71	25.000 mm
GPM-100-028-71	28.000 mm
GPM-100-030-71	30.000 mm
GPM-100-032-71	32.000 mm
GPM-100-036-71	36.000 mm
GPM-100-040-71	40.000 mm
GPM-100-045-71	45.000 mm
GPM-100-050-71	50.000 mm
GPM-100-055-71	55.000 mm
GPM-100-060-71	60.000 mm
GPM-100-065-71	65.000 mm
GPM-100-070-71	70.000 mm
GPM-100-080-71	80.000 mm
GPM-100-090-71	90.000 mm
GPM-100-100-71	100.000 mm
GPM-100-110-71	110.000 mm
GPM-100-120-71	120.000 mm

12.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm
GPM-120-014-71	14.000 mm
GPM-120-016-71	16.000 mm
GPM-120-018-71	18.000 mm
GPM-120-020-71	20.000 mm

ITEM NUMBER	(L) OVERALL LENGTH
GPM-120-022-71	22.000 mm
GPM-120-025-71	25.000 mm
GPM-120-028-71	28.000 mm
GPM-120-030-71	30.000 mm
GPM-120-032-71	32.000 mm
GPM-120-036-71	36.000 mm
GPM-120-040-71	40.000 mm
GPM-120-045-71	45.000 mm
GPM-120-050-71	50.000 mm
GPM-120-055-71	55.000 mm
GPM-120-060-71	60.000 mm
GPM-120-065-71	65.000 mm
GPM-120-070-71	70.000 mm
GPM-120-080-71	80.000 mm
GPM-120-090-71	90.000 mm
GPM-120-100-71	100.000 mm
GPM-120-110-71	110.000 mm
GPM-120-120-71	120.000 mm

14.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm
GPM-140-036-71	36.000 mm
GPM-140-040-71	40.000 mm
GPM-140-045-71	45.000 mm
GPM-140-050-71	50.000 mm
GPM-140-055-71	55.000 mm
GPM-140-060-71	60.000 mm
GPM-140-065-71	65.000 mm
GPM-140-070-71	70.000 mm
GPM-140-080-71	80.000 mm
GPM-140-090-71	90.000 mm
GPM-140-100-71	100.000 mm
GPM-140-110-71	110.000 mm
GPM-140-120-71	120.000 mm

16.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm
GPM-160-036-71	36.000 mm
GPM-160-040-71	75.000 mm
GPM-160-045-71	45.000 mm
GPM-160-050-71	50.000 mm
GPM-160-055-71	55.000 mm
GPM-160-060-71	60.000 mm
GPM-160-065-71	65.000 mm
GPM-160-070-71	70.000 mm
GPM-160-080-71	80.000 mm
GPM-160-090-71	90.000 mm
GPM-160-100-71	100.000 mm
GPM-160-110-71	110.000 mm
GPM-160-120-71	120.000 mm

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TYPE B

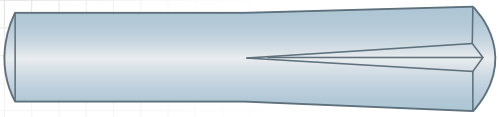
ASME B18.8.2

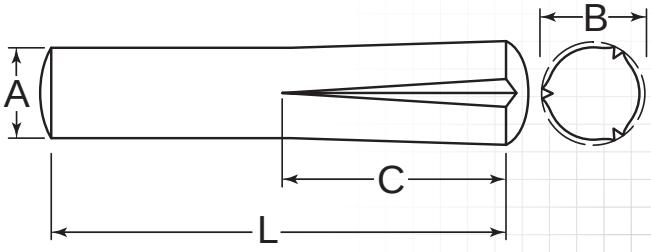
DESCRIPTION

Type B groove pins have three half-length tapered grooves and are typically used as a hinge, pivot, or stop. The grooved end locks into place when inserted into a drilled hole, leaving the smooth end free.

HOW TO IDENTIFY

1. Verify three half-length tapered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Type B identified by "-B" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH +.010/-.010"	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0015"		+.0020/.0020"		
PREFIX-0093-0250-B	.0938" (3/32)	.2500" (1/4)	.0990"	.1250" (1/8)	.1350"
PREFIX-0093-0750-B	.0938" (3/32)	.7500" (3/4)	.1000"	.3750" (3/8)	.1350"
	+.0000/-.0020"				
PREFIX-0125-0625-B	.1250" (1/8)	.6250" (5/8)	.1340"	.3125" (5/16)	.1660"
PREFIX-0125-0750-B	.1250" (1/8)	.7500" (3/4)	.1340"	.3750" (3/8)	.1660"
PREFIX-0125-0875-B	.1250" (1/8)	.8750" (7/8)	.1330"	.4375" (7/16)	.1660"
PREFIX-0156-0250-B	.1563" (5/32)	.2500" (1/4)	.1660"	.1250" (1/8)	.1980"
PREFIX-0156-0500-B	.1563" (5/32)	.5000" (1/2)	.1630"	.2500" (1/4)	.1980"
PREFIX-0156-1125-B	.1563" (5/32)	1.1250" (1-1/8)	.1660"	.5625" (9/16)	.1980"
			+.0025/.0025"		
PREFIX-0187-1000-B	.1875" (3/16)	1.0000" (1)	.1980"	.5000" (1/2)	.2600"
PREFIX-0187-1500-B	.1875" (3/16)	1.5000" (1-1/2)	.1980"	.7500" (3/4)	.2600"
PREFIX-0187-2000-B	.1875" (3/16)	2.0000" (2)	.1950"	1.0000" (1)	.2600"
PREFIX-0250-0750-B	.2500" (1/4)	.7500" (3/4)	.2630"	.3750" (3/8)	.3220"
PREFIX-0250-1000-B	.2500" (1/4)	1.0000" (1)	.2630"	.5000" (1/2)	.3220"
PREFIX-0250-1750-B	.2500" (1/4)	1.7500" (1-3/4)	.2630"	.8750" (7/8)	.3220"
PREFIX-0250-2000-B	.2500" (1/4)	2.0000" (2)	.2620"	1.0000" (1)	.3220"
PREFIX-0312-1000-B	.3125" (5/16)	1.0000" (1)	.3290"	.5000" (1/2)	.3850"
			+.0030/.0030"		
PREFIX-0375-1250-B	.3750" (3/8)	1.2500" (1-1/4)	.3940"	.6250" (5/8)	.4790"

*SEE STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES ON PAGE 169

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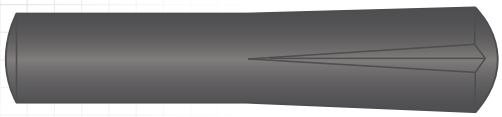
(SIMILAR TO TYPE B) DIN 1472

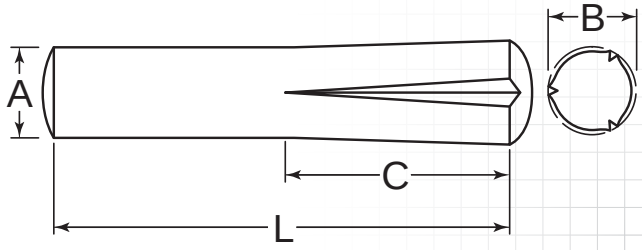
DESCRIPTION

Three half-length tapered grooves. This allows a smooth end for use as a hinge, pivot, or stop. Ideal for applications requiring superior locking effect and ease of assembly. DIN 1472 is not interchangeable with ASME Type B.

HOW TO IDENTIFY

1. Verify three half-length tapered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1472 identified by "-72" at end of item number.

GPM = LOW CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST.

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
1.500 mm (A) Outside Diameter: +0.000/-0.025 mm		
(B) Expanded Diameter: 1.600 mm +0.050/-0.000 mm		
	+0.240/-0.240 mm	
GPM-015-004-72	4.000 mm	2.000 mm
GPM-015-005-72	5.000 mm	2.500 mm
GPM-015-006-72	6.000 mm	3.000 mm
	+0.290/-0.290 mm	
GPM-015-008-72	8.000 mm	4.000 mm
GPM-015-010-72	10.000 mm	5.000 mm
	+0.350/-0.350 mm	
GPM-015-012-72	12.000 mm	6.000 mm
2.000 mm (A) Outside Diameter: +0.000/-0.025 mm		
(B) Expanded Diameter: 2.150 mm +0.050/-0.000 mm		
	+0.240/-0.240 mm	
GPM-020-004-72	4.000 mm	2.000 mm
GPM-020-005-72	5.000 mm	2.500 mm
GPM-020-006-72	6.000 mm	3.000 mm
	+0.290/-0.290 mm	
GPM-020-008-72	8.000 mm	4.000 mm
GPM-020-010-72	10.000 mm	5.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
	+0.350/-0.350 mm	
GPM-020-012-72	12.000 mm	6.000 mm
GPM-020-014-72	14.000 mm	7.000 mm
GPM-020-016-72	16.000 mm	8.000 mm
GPM-020-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-020-020-72	20.000 mm	10.000 mm
GPM-020-022-72	22.000 mm	11.000 mm
GPM-020-024-72	24.000 mm	12.000 mm
GPM-020-026-72	26.000 mm	13.000 mm
GPM-020-028-72	28.000 mm	14.000 mm
GPM-020-030-72	30.000 mm	15.000 mm
2.500 mm (A) Outside Diameter: +0.000/-0.025 mm		
(B) Expanded Diameter: 2.650 mm +0.050/-0.050 mm		
	+0.240/-0.240 mm	
GPM-025-006-72	6.000 mm	3.000 mm
	+0.290/-0.290 mm	
GPM-025-008-72	8.000 mm	4.000 mm
GPM-025-010-72	10.000 mm	5.000 mm

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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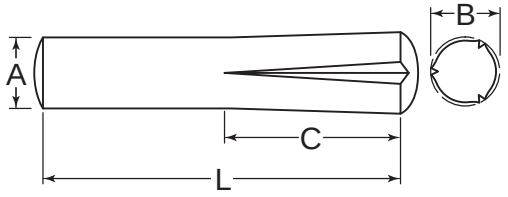
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DIN 1472 (SIMILAR TO TYPE B)

PREFIX	MATERIAL/FINISH
GPM	= LOW CARBON STEEL, PLAIN*

DIN 1472 identified by "-72" at end of item number.



2.500 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 2.650 mm +0.050/-0.050 mm

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
	+0.350/-0.350 mm	
GPM-025-012-72	12.000 mm	6.000 mm
GPM-025-014-72	14.000 mm	7.000 mm
GPM-025-016-72	16.000 mm	8.000 mm
GPM-025-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-025-020-72	20.000 mm	10.000 mm
GPM-025-022-72	22.000 mm	11.000 mm
GPM-025-024-72	24.000 mm	12.000 mm
GPM-025-026-72	26.000 mm	13.000 mm
GPM-025-028-72	28.000 mm	14.000 mm
GPM-025-030-72	30.000 mm	15.000 mm

3.000 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 3.200 mm +0.050/-0.050 mm

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
	+0.240/-0.240 mm	
GPM-030-006-72	6.000 mm	3.000 mm
	+0.290/-0.290 mm	
GPM-030-008-72	8.000 mm	4.000 mm
GPM-030-010-72	10.000 mm	5.000 mm
	+0.350/-0.350 mm	
GPM-030-012-72	12.000 mm	6.000 mm
GPM-030-014-72	14.000 mm	7.000 mm
GPM-030-016-72	16.000 mm	8.000 mm
GPM-030-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-030-020-72	20.000 mm	10.000 mm
GPM-030-022-72	22.000 mm	11.000 mm
GPM-030-024-72	24.000 mm	12.000 mm
GPM-030-026-72	26.000 mm	13.000 mm
GPM-030-028-72	28.000 mm	14.000 mm
GPM-030-030-72	30.000 mm	15.000 mm
	+0.500/-0.500 mm	
GPM-030-036-72	36.000 mm	18.000 mm

4.000 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 4.250 mm +0.050/-0.050 mm

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
	+0.240/-0.240 mm	
GPM-040-006-72	6.000 mm	3.000 mm
	+0.290/-0.290 mm	
GPM-040-008-72	8.000 mm	4.000 mm
GPM-040-010-72	10.000 mm	5.000 mm
	+0.350/-0.350 mm	
GPM-040-012-72	12.000 mm	6.000 mm
GPM-040-014-72	14.000 mm	7.000 mm
GPM-040-016-72	16.000 mm	8.000 mm
GPM-040-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-040-020-72	20.000 mm	10.000 mm
GPM-040-022-72	22.000 mm	11.000 mm
GPM-040-024-72	24.000 mm	12.000 mm
GPM-040-026-72	26.000 mm	13.000 mm
GPM-040-028-72	28.000 mm	14.000 mm
GPM-040-030-72	30.000 mm	15.000 mm
GPM-040-032-72	32.000 mm	16.000 mm
	+0.500/-0.500 mm	
GPM-040-036-72	36.000 mm	18.000 mm
GPM-040-040-72	40.000 mm	20.000 mm
GPM-040-045-72	45.000 mm	22.500 mm

5.000 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 5.250 mm +0.050/-0.050 mm

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
	+0.290/-0.290 mm	
GPM-050-008-72	8.000 mm	4.000 mm
GPM-050-010-72	10.000 mm	5.000 mm
	+0.350/-0.350 mm	
GPM-050-012-72	12.000 mm	6.000 mm
GPM-050-014-72	14.000 mm	7.000 mm
GPM-050-016-72	16.000 mm	8.000 mm
GPM-050-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-050-020-72	20.000 mm	10.000 mm
GPM-050-022-72	22.000 mm	11.000 mm
GPM-050-024-72	24.000 mm	12.000 mm
GPM-050-026-72	26.000 mm	13.000 mm
GPM-050-028-72	28.000 mm	14.000 mm
GPM-050-030-72	30.000 mm	15.000 mm
GPM-050-032-72	32.000 mm	16.000 mm
	+0.500/-0.500 mm	
GPM-050-036-72	36.000 mm	18.000 mm
GPM-050-040-72	40.000 mm	20.000 mm
GPM-050-045-72	45.000 mm	22.500 mm
GPM-050-050-72	50.000 mm	25.000 mm

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(SIMILAR TO TYPE B)

DIN 1472

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
6.000 mm (A) Outside Diameter: +0.000/-0.025 mm		
(B) Expanded Diameter: 6.300 mm +0.050/-0.050 mm		
	+0.290/-0.290 mm	
GPM-060-008-72	8.000 mm	4.000 mm
GPM-060-010-72	10.000 mm	5.000 mm
	+0.350/-0.350 mm	
GPM-060-012-72	12.000 mm	6.000 mm
GPM-060-014-72	14.000 mm	7.000 mm
GPM-060-016-72	16.000 mm	8.000 mm
GPM-060-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-060-020-72	20.000 mm	10.000 mm
GPM-060-022-72	22.000 mm	11.000 mm
GPM-060-024-72	24.000 mm	12.000 mm
GPM-060-026-72	26.000 mm	13.000 mm
GPM-060-028-72	28.000 mm	14.000 mm
GPM-060-030-72	30.000 mm	15.000 mm
GPM-060-032-72	32.000 mm	16.000 mm
	+0.500/-0.500 mm	
GPM-060-036-72	36.000 mm	18.000 mm
GPM-060-040-72	40.000 mm	20.000 mm
GPM-060-045-72	45.000 mm	22.500 mm
GPM-060-050-72	50.000 mm	25.000 mm
	+0.600/-0.600 mm	
GPM-060-055-72	55.000 mm	27.500 mm
GPM-060-060-72	60.000 mm	30.000 mm
8.000 mm (A) Outside Diameter: +0.000/-0.090 mm		
(B) Expanded Diameter: 8.300 mm +0.050/-0.050 mm		
	+0.290/-0.290 mm	
GPM-080-010-72	10.000 mm	5.000 mm
	+0.350/-0.350 mm	
GPM-080-012-72	12.000 mm	6.000 mm
GPM-080-014-72	14.000 mm	7.000 mm
GPM-080-016-72	16.000 mm	8.000 mm
GPM-080-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-080-020-72	20.000 mm	10.000 mm
GPM-080-022-72	22.000 mm	11.000 mm
GPM-080-024-72	24.000 mm	12.000 mm
GPM-080-026-72	26.000 mm	13.000 mm
GPM-080-028-72	28.000 mm	14.000 mm
GPM-080-030-72	30.000 mm	15.000 mm
GPM-080-032-72	32.000 mm	16.000 mm
	+0.500/-0.500 mm	
GPM-080-036-72	36.000 mm	18.000 mm
GPM-080-040-72	40.000 mm	20.000 mm
GPM-080-045-72	45.000 mm	22.500 mm
GPM-080-050-72	50.000 mm	25.000 mm
	+0.600/-0.600 mm	
GPM-080-055-72	55.000 mm	27.500 mm
GPM-080-060-72	60.000 mm	30.000 mm
GPM-080-065-72	65.000 mm	32.500 mm
GPM-080-070-72	70.000 mm	35.000 mm
10.000 mm (A) Outside Diameter: +0.000/-0.090 mm		
(B) Expanded Diameter: 10.350 mm +0.050/-0.050 mm		
	+0.350/-0.350 mm	
GPM-100-014-72	14.000 mm	7.000 mm
GPM-100-016-72	16.000 mm	8.000 mm
GPM-100-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-100-020-72	20.000 mm	10.000 mm
GPM-100-022-72	22.000 mm	11.000 mm
GPM-100-025-72	25.000 mm	12.500 mm
GPM-100-028-72	28.000 mm	14.000 mm
GPM-100-030-72	30.000 mm	15.000 mm
GPM-100-032-72	32.000 mm	16.000 mm
	+0.500/-0.500 mm	
GPM-100-036-72	36.000 mm	18.000 mm
GPM-100-040-72	40.000 mm	20.000 mm
GPM-100-045-72	45.000 mm	22.500 mm
GPM-100-050-72	50.000 mm	25.000 mm
	+0.600/-0.600 mm	
GPM-100-055-72	55.000 mm	27.500 mm
GPM-100-060-72	60.000 mm	30.000 mm
GPM-100-065-72	65.000 mm	32.500 mm
GPM-100-070-72	70.000 mm	35.000 mm
GPM-100-080-72	80.000 mm	40.000 mm
	+0.700/-0.700 mm	
GPM-100-090-72	90.000 mm	45.000 mm
GPM-100-100-72	100.000 mm	50.000 mm
GPM-100-110-72	110.000 mm	55.000 mm
GPM-100-120-72	120.000 mm	60.000 mm
12.000 mm (A) Outside Diameter: +0.000/-0.110 mm		
(B) Expanded Diameter: 12.350 mm +0.100/-0.100 mm		
	+0.350/-0.350 mm	
GPM-120-014-72	14.000 mm	7.000 mm
GPM-120-016-72	16.000 mm	8.000 mm
GPM-120-018-72	18.000 mm	9.000 mm
	+0.420/-0.420 mm	
GPM-120-020-72	20.000 mm	10.000 mm
GPM-120-022-72	22.000 mm	11.000 mm
GPM-120-025-72	25.000 mm	12.500 mm
GPM-120-028-72	28.000 mm	14.000 mm
GPM-120-030-72	30.000 mm	15.000 mm
GPM-120-032-72	32.000 mm	16.000 mm

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

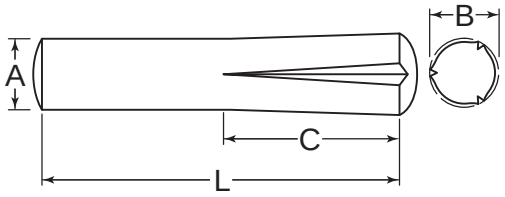
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DIN 1472 (SIMILAR TO TYPE B)

PREFIX MATERIAL/FINISH

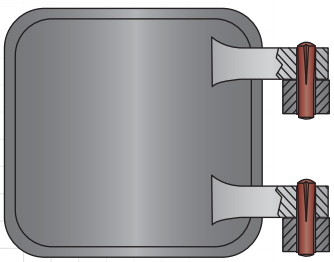
DIN 1472 identified by "-72" at end of item number.

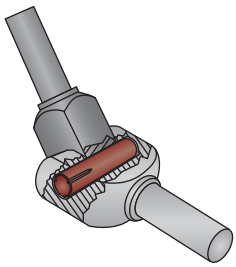
GPM = LOW CARBON STEEL, PLAIN*



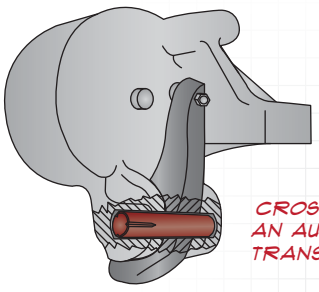
ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
12.000 mm (A) Outside Diameter: +.000/-.110 mm		
(B) Expanded Diameter: 12.350 mm +.100/-.100 mm		
	+.500/-.500 mm	
GPM-120-036-72	36.000 mm	18.000 mm
GPM-120-040-72	40.000 mm	20.000 mm
GPM-120-045-72	45.000 mm	22.500 mm
GPM-120-050-72	50.000 mm	25.000 mm
	+.600/-.600 mm	
GPM-120-055-72	55.000 mm	27.500 mm
GPM-120-060-72	60.000 mm	30.000 mm
GPM-120-065-72	65.000 mm	32.500 mm
GPM-120-070-72	70.000 mm	35.000 mm
GPM-120-080-72	80.000 mm	40.000 mm
	+.700/-.700 mm	
GPM-120-090-72	90.000 mm	45.000 mm
GPM-120-100-72	100.000 mm	50.000 mm
GPM-120-110-72	110.000 mm	55.000 mm
GPM-120-120-72	120.000 mm	60.000 mm
14.000 mm (A) Outside Diameter: +.000/-.110 mm		
(B) Expanded Diameter: 14.350 mm +.100/-.100 mm		
	+.500/-.500 mm	
GPM-140-036-72	36.000 mm	18.000 mm
GPM-140-040-72	40.000 mm	20.000 mm
GPM-140-045-72	45.000 mm	22.500 mm
GPM-140-050-72	50.000 mm	25.000 mm
	+.600/-.600 mm	
GPM-140-055-72	55.000 mm	27.500 mm
GPM-140-060-72	60.000 mm	30.000 mm
GPM-140-065-72	65.000 mm	32.500 mm
GPM-140-070-72	70.000 mm	35.000 mm
GPM-140-080-72	80.000 mm	40.000 mm
	+.700/-.700 mm	
GPM-140-090-72	90.000 mm	45.000 mm
GPM-140-100-72	100.000 mm	50.000 mm
GPM-140-110-72	110.000 mm	55.000 mm
GPM-140-120-72	120.000 mm	60.000 mm
16.000 mm (A) Outside Diameter: +.000/-.110 mm: +.000/-.110 mm		
(B) Expanded Diameter: 16.400 mm +.100/-.100 mm		
	+.500/-.500 mm	
GPM-160-036-72	36.000 mm	18.000 mm
GPM-160-040-72	40.000 mm	20.000 mm
GPM-160-045-72	45.000 mm	22.500 mm
GPM-160-050-72	50.000 mm	25.000 mm
	+.600/-.600 mm	
GPM-160-055-72	55.000 mm	27.500 mm
GPM-160-060-72	60.000 mm	30.000 mm
GPM-160-065-72	65.000 mm	32.500 mm
GPM-160-070-72	70.000 mm	35.000 mm
GPM-160-080-72	80.000 mm	40.000 mm
	+.700/-.700 mm	
GPM-160-090-72	90.000 mm	45.000 mm
GPM-160-100-72	100.000 mm	50.000 mm
GPM-160-110-72	110.000 mm	55.000 mm
GPM-160-120-72	120.000 mm	60.000 mm

APPLICATIONS





USED AS A PIVOT HINGE



CROSS PIN IN AN AUTOMATIC TRANSMISSION

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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ASME B18.8.2 TYPE C

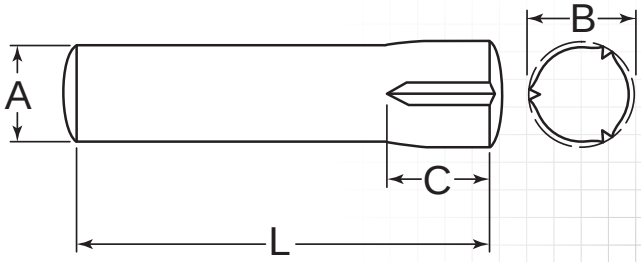
DESCRIPTION

Three quarter-length parallel grooves allows the remaining length to be a lead for easy insertion. Smooth end of the pin is ideal as a hinge or pivot.

HOW TO IDENTIFY

1. Verify three quarter-length parallel grooves.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Type C identified by "-C" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0015"	+.010/-.010"	+.0015/-.0015"		
PREFIX-0062-0250-C	.0625" (1/16)	.2500" (1/4)	.0680"	.0625" (1/16)	.0680"
PREFIX-0062-0375-C	.0625" (1/16)	.3750" (3/8)	.0680"	.0938" (3/32)	.0680"
PREFIX-0062-0500-C	.0625" (1/16)	.5000" (1/2)	.0680"	.1250" (1/8)	.0680"
PREFIX-0062-0625-C	.0625" (1/16)	.6250" (5/8)	.0680"	.1563" (5/32)	.0680"
PREFIX-0062-0750-C	.0625" (1/16)	.7500" (3/4)	.0670"	.1875" (3/16)	.0680"
PREFIX-0062-0875-C	.0625" (1/16)	.8750" (7/8)	.0670"	.2188" (7/32)	.0680"
PREFIX-0062-1000-C	.0625" (1/16)	1.0000" (1)	.0670"	.2500" (1/4)	.0680"
	+.0000/-.0015"	+.010/-.010"	+.0015/-.0015"		
PREFIX-0078-0375-C	.0781" (5/64)	.3750" (3/8)	.0820"	.0938" (3/32)	.0840"
PREFIX-0078-0437-C	.0781" (5/64)	.4375" (7/16)	.0820"	.1093" (7/64)	.0840"
	+.0000/-.0015"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0093-0250-C	.0938" (3/32)	.2500" (1/4)	.1010"	.0625" (1/16)	.1150"
PREFIX-0093-0375-C	.0938" (3/32)	.3750" (3/8)	.1010"	.0938" (3/32)	.1150"
PREFIX-0093-0437-C	.0938" (3/32)	.4375" (7/16)	.1010"	.1093" (7/64)	.1150"
PREFIX-0093-0500-C	.0938" (3/32)	.5000" (1/2)	.1010"	.1250" (1/8)	.1150"
PREFIX-0093-0625-C	.0938" (3/32)	.6250" (5/8)	.1010"	.1563" (5/32)	.1150"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

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TYPE C

ASME B18.8.2

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0015"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0093-0687-C	.0938" (3/32)	.6875" (11/16)	.1010"	.1718" (11/64)	.1150"
PREFIX-0093-0750-C	.0938" (3/32)	.7500" (3/4)	.1010"	.1875" (3/16)	.1150"
PREFIX-0093-0875-C	.0938" (3/32)	.8750" (7/8)	.1000"	.2188" (7/32)	.1150"
PREFIX-0093-1000-C	.0938" (3/32)	1.0000" (1)	.1000"	.2500" (1/4)	.1150"
PREFIX-0093-1250-C	.0938" (3/32)	1.2500" (1-1/4)	.1000"	.3125" (5/16)	.1150"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0125-0250-C	.1250" (1/8)	.2500" (1/4)	.1340"	.0625" (1/16)	.1460"
PREFIX-0125-0312-C	.1250" (1/8)	.3125" (5/16)	.1340"	.0781" (5/64)	.1460"
PREFIX-0125-0375-C	.1250" (1/8)	.3750" (3/8)	.1340"	.0938" (3/32)	.1460"
PREFIX-0125-0500-C	.1250" (1/8)	.5000" (1/2)	.1340"	.1250" (1/8)	.1460"
PREFIX-0125-0625-C	.1250" (1/8)	.6250" (5/8)	.1340"	.1563" (5/32)	.1460"
PREFIX-0125-0750-C	.1250" (1/8)	.7500" (3/4)	.1340"	.1875" (3/16)	.1460"
PREFIX-0125-0875-C	.1250" (1/8)	.8750" (7/8)	.1330"	.2188" (7/32)	.1460"
PREFIX-0125-1000-C	.1250" (1/8)	1.0000" (1)	.1330"	.2500" (1/4)	.1460"
PREFIX-0125-1125-C	.1250" (1/8)	1.1250" (1-1/8)	.1320"	.2812" (9/32)	.1460"
PREFIX-0125-1250-C	.1250" (1/8)	1.2500" (1-1/4)	.1320"	.3125" (5/16)	.1460"
PREFIX-0125-1500-C	.1250" (1/8)	1.5000" (1-1/2)	.1320"	.3750" (3/8)	.1460"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0156-0375-C	.1563" (5/32)	.3750" (3/8)	.1660"	.0938" (3/32)	.1780"
PREFIX-0156-0437-C	.1563" (5/32)	.4375" (7/16)	.1660"	.1093" (7/64)	.1780"
PREFIX-0156-0500-C	.1563" (5/32)	.5000" (1/2)	.1660"	.1250" (1/8)	.1780"
PREFIX-0156-0625-C	.1563" (5/32)	.6250" (5/8)	.1660"	.1563" (5/32)	.1780"
PREFIX-0156-0750-C	.1563" (5/32)	.7500" (3/4)	.1660"	.1875" (3/16)	.1780"
PREFIX-0156-0875-C	.1563" (5/32)	.8750" (7/8)	.1650"	.2188" (7/32)	.1780"
PREFIX-0156-1000-C	.1563" (5/32)	1.0000" (1)	.1650"	.2500" (1/4)	.1780"
PREFIX-0156-1250-C	.1563" (5/32)	1.2500" (1-1/4)	.1640"	.3125" (5/16)	.1780"
PREFIX-0156-1500-C	.1563" (5/32)	1.5000" (1-1/2)	.1640"	.3750" (3/8)	.1780"
PREFIX-0156-1750-C	.1563" (5/32)	1.7500" (1-3/4)	.1630"	.4375" (7/16)	.1780"
PREFIX-0156-2000-C	.1563" (5/32)	2.0000" (2)	.1630"	.5000" (1/2)	.1780"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0187-0375-C	.1875" (3/16)	.3750" (3/8)	.1980"	.0938" (3/32)	.2400"
PREFIX-0187-0500-C	.1875" (3/16)	.5000" (1/2)	.1980"	.1250" (1/8)	.2400"
PREFIX-0187-0625-C	.1875" (3/16)	.6250" (5/8)	.1980"	.1563" (5/32)	.2400"
PREFIX-0187-0750-C	.1875" (3/16)	.7500" (3/4)	.1980"	.1875" (3/16)	.2400"
PREFIX-0187-0875-C	.1875" (3/16)	.8750" (7/8)	.1980"	.2188" (7/32)	.2400"
PREFIX-0187-1000-C	.1875" (3/16)	1.0000" (1)	.1980"	.2500" (1/4)	.2400"
PREFIX-0187-1250-C	.1875" (3/16)	1.2500" (1-1/4)	.1970"	.3125" (5/16)	.2400"
PREFIX-0187-1500-C	.1875" (3/16)	1.5000" (1-1/2)	.1970"	.3750" (3/8)	.2400"
PREFIX-0187-1750-C	.1875" (3/16)	1.7500" (1-3/4)	.1970"	.4375" (7/16)	.2400"
PREFIX-0187-2000-C	.1875" (3/16)	2.0000" (2)	.1960"	.5000" (1/2)	.2400"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0218-0500-C	.2188" (7/32)	.5000" (1/2)	.2300"	.1250" (1/8)	.2710"
PREFIX-0218-0625-C	.2188" (7/32)	.6250" (5/8)	.2300"	.1563" (5/32)	.2710"
PREFIX-0218-0750-C	.2188" (7/32)	.7500" (3/4)	.2300"	.1875" (3/16)	.2710"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

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TYPE C

PREFIX	MATERIAL/FINISH

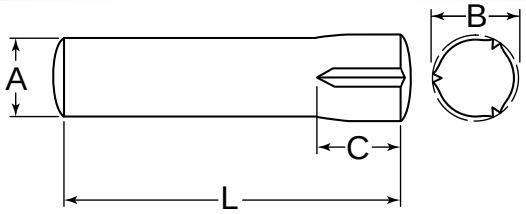
Type C identified by "-C" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR

GPA = ALLOY STEEL, PLAIN*

GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
PREFIX-0218-0875-C	.2188" (7/32)	.8750" (7/8)	.2300"	.2188" (7/32)	.2710"
PREFIX-0218-1000-C	.2188" (7/32)	1.0000" (1)	.2300"	.2500" (1/4)	.2710"
PREFIX-0218-1250-C	.2188" (7/32)	1.2500" (1-1/4)	.2300"	.3125" (5/16)	.2710"
PREFIX-0218-1500-C	.2188" (7/32)	1.5000" (1-1/2)	.2290"	.3750" (3/8)	.2710"
PREFIX-0218-1750-C	.2188" (7/32)	1.7500" (1-3/4)	.2290"	.4375" (7/16)	.2710"
PREFIX-0218-2000-C	.2188" (7/32)	2.0000" (2)	.2290"	.5000" (1/2)	.2710"
PREFIX-0218-2250-C	.2188" (7/32)	2.2500" (2-1/4)	.2290"	.5625" (9/16)	.2710"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0250-0500-C	.2500" (1/4)	.5000" (1/2)	.2630"	.1250" (1/8)	.3020"
PREFIX-0250-0625-C	.2500" (1/4)	.6250" (5/8)	.2630"	.1563" (5/32)	.3020"
PREFIX-0250-0750-C	.2500" (1/4)	.7500" (3/4)	.2630"	.1875" (3/16)	.3020"
PREFIX-0250-0875-C	.2500" (1/4)	.8750" (7/8)	.2630"	.2188" (7/32)	.3020"
PREFIX-0250-1000-C	.2500" (1/4)	1.0000" (1)	.2630"	.2500" (1/4)	.3020"
PREFIX-0250-1250-C	.2500" (1/4)	1.2500" (1-1/4)	.2630"	.3125" (5/16)	.3020"
PREFIX-0250-1500-C	.2500" (1/4)	1.5000" (1-1/2)	.2620"	.3750" (3/8)	.3020"
PREFIX-0250-1625-C	.2500" (1/4)	1.6250" (1-5/8)	.2620"	.4062" (13/32)	.3020"
PREFIX-0250-1750-C	.2500" (1/4)	1.7500" (1-3/4)	.2620"	.4375" (7/16)	.3020"
PREFIX-0250-2000-C	.2500" (1/4)	2.0000" (2)	.2620"	.5000" (1/2)	.3020"
PREFIX-0250-2250-C	.2500" (1/4)	2.2500" (2-1/4)	.2620"	.5625" (9/16)	.3020"
PREFIX-0250-2500-C	.2500" (1/4)	2.5000" (2-1/2)	.2610"	.6250" (5/8)	.3020"
PREFIX-0250-2750-C	.2500" (1/4)	2.7500" (2-3/4)	.2610"	.6875" (11/16)	.3020"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0312-0625-C	.3125" (5/16)	.6250" (5/8)	.3290"	.1563" (5/32)	.3650"
PREFIX-0312-0750-C	.3125" (5/16)	.7500" (3/4)	.3290"	.1875" (3/16)	.3650"
PREFIX-0312-0875-C	.3125" (5/16)	.8750" (7/8)	.3290"	.2188" (7/32)	.3650"
PREFIX-0312-1000-C	.3125" (5/16)	1.0000" (1)	.3290"	.2500" (1/4)	.3650"
PREFIX-0312-1250-C	.3125" (5/16)	1.2500" (1-1/4)	.3290"	.3125" (5/16)	.3650"
PREFIX-0312-1500-C	.3125" (5/16)	1.5000" (1-1/2)	.3290"	.3750" (3/8)	.3650"
PREFIX-0312-1750-C	.3125" (5/16)	1.7500" (1-3/4)	.3280"	.4375" (7/16)	.3650"
PREFIX-0312-2000-C	.3125" (5/16)	2.0000" (2)	.3280"	.5000" (1/2)	.3650"
PREFIX-0312-2250-C	.3125" (5/16)	2.2500" (2-1/4)	.3280"	.5625" (9/16)	.3650"
PREFIX-0312-2500-C	.3125" (5/16)	2.5000" (2-1/2)	.3270"	.6250" (5/8)	.3650"
PREFIX-0312-2750-C	.3125" (5/16)	2.7500" (2-3/4)	.3270"	.6875" (11/16)	.3650"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0375-0750-C	.3750" (3/8)	.7500" (3/4)	.3940"	.1875" (3/16)	.4590"
PREFIX-0375-0875-C	.3750" (3/8)	.8750" (7/8)	.3940"	.2188" (7/32)	.4590"
PREFIX-0375-1000-C	.3750" (3/8)	1.0000" (1)	.3940"	.2500" (1/4)	.4590"
PREFIX-0375-1250-C	.3750" (3/8)	1.2500" (1-1/4)	.3940"	.3125" (5/16)	.4590"
PREFIX-0375-1500-C	.3750" (3/8)	1.5000" (1-1/2)	.3940"	.3750" (3/8)	.4590"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

GP • GPA • GPS

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

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TYPE C

ASME B18.8.2

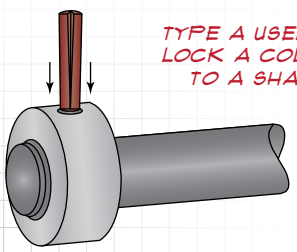
ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0375-1750-C	.3750" (3/8)	1.7500" (1-3/4)	.3930"	.4375" (7/16)	.4590"
PREFIX-0375-2000-C	.3750" (3/8)	2.0000" (2)	.3930"	.5000" (1/2)	.4590"
PREFIX-0375-2250-C	.3750" (3/8)	2.2500" (2-1/4)	.3930"	.5625" (9/16)	.4590"
PREFIX-0375-2500-C	.3750" (3/8)	2.5000" (2-1/2)	.3930"	.6250" (5/8)	.4590"
PREFIX-0375-2750-C	.3750" (3/8)	2.7500" (2-3/4)	.3930"	.6875" (11/16)	.4590"
PREFIX-0375-3000-C	.3750" (3/8)	3.0000" (3)	.3920"	.7500" (3/4)	.4590"
PREFIX-0375-3250-C	.3750" (3/8)	3.2500" (3-1/4)	.3920"	.8125" (13/16)	.4590"
PREFIX-0375-3500-C	.3750" (3/8)	3.5000" (3-1/2)	.3910"	.8750" (7/8)	.4590"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0437-0875-C	.4375" (7/16)	.8750" (7/8)	.4590"	.2188" (7/32)	.5210"
PREFIX-0437-1000-C	.4375" (7/16)	1.0000" (1)	.4590"	.2500" (1/4)	.5210"
PREFIX-0437-1250-C	.4375" (7/16)	1.2500" (1-1/4)	.4590"	.3125" (5/16)	.5210"
PREFIX-0437-1500-C	.4375" (7/16)	1.5000" (1-1/2)	.4590"	.3750" (3/8)	.5210"
PREFIX-0437-1750-C	.4375" (7/16)	1.7500" (1-3/4)	.4590"	.4375" (7/16)	.5210"
PREFIX-0437-2000-C	.4375" (7/16)	2.0000" (2)	.4580"	.5000" (1/2)	.5210"
PREFIX-0437-2250-C	.4375" (7/16)	2.2500" (2-1/4)	.4580"	.5625" (9/16)	.5210"
PREFIX-0437-2500-C	.4375" (7/16)	2.5000" (2-1/2)	.4580"	.6250" (5/8)	.5210"
PREFIX-0437-2750-C	.4375" (7/16)	2.7500" (2-3/4)	.4580"	.6875" (11/16)	.5210"
PREFIX-0437-3000-C	.4375" (7/16)	3.0000" (3)	.4570"	.7500" (3/4)	.5210"
PREFIX-0437-3250-C	.4375" (7/16)	3.2500" (3-1/4)	.4570"	.8125" (13/16)	.5210"
PREFIX-0437-3500-C	.4375" (7/16)	3.5000" (3-1/2)	.4560"	.8750" (7/8)	.5210"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0500-1000-C	.5000" (1/2)	1.0000" (1)	.5250"	.2500" (1/4)	.6150"
PREFIX-0500-1250-C	.5000" (1/2)	1.2500" (1-1/4)	.5250"	.3125" (5/16)	.6150"
PREFIX-0500-1500-C	.5000" (1/2)	1.5000" (1-1/2)	.5250"	.3750" (3/8)	.6150"
PREFIX-0500-1750-C	.5000" (1/2)	1.7500" (1-3/4)	.5250"	.4375" (7/16)	.6150"
PREFIX-0500-2000-C	.5000" (1/2)	2.0000" (2)	.5250"	.5000" (1/2)	.6150"
PREFIX-0500-2250-C	.5000" (1/2)	2.2500" (2-1/4)	.5240"	.5625" (9/16)	.6150"
PREFIX-0500-2500-C	.5000" (1/2)	2.5000" (2-1/2)	.5240"	.6250" (5/8)	.6150"
PREFIX-0500-2750-C	.5000" (1/2)	2.7500" (2-3/4)	.5240"	.6875" (11/16)	.6150"
PREFIX-0500-3000-C	.5000" (1/2)	3.0000" (3)	.5230"	.7500" (3/4)	.6150"
PREFIX-0500-3250-C	.5000" (1/2)	3.2500" (3-1/4)	.5230"	.8125" (13/16)	.6150"
PREFIX-0500-3500-C	.5000" (1/2)	3.5000" (3-1/2)	.5220"	.8750" (7/8)	.6150"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

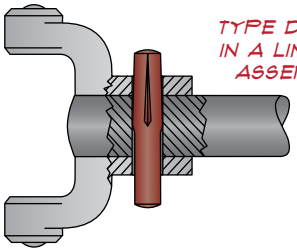
GP • GPA • GPS

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

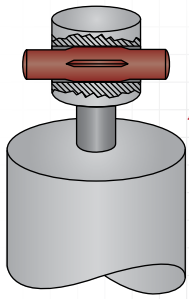
APPLICATIONS



TYPE A USED TO LOCK A COLLAR TO A SHAFT



TYPE D USED IN A LINKAGE ASSEMBLY



TYPE E USED AS A HANDLE

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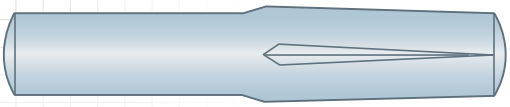
TYPE D

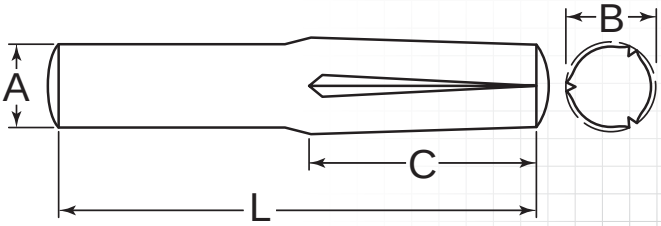
DESCRIPTION

Three half-length reverse tapered grooves. Designed specifically as a lever, stop, or roller pivot. The reverse tapered grooves provide maximum holding power.

HOW TO IDENTIFY

1. Verify three half-length reverse tapered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Type D identified by "-D" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0015"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0093-0312-D	.0938" (3/32)	.3125" (5/16)	.1010"	.1563" (5/32)	.1350"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0125-0500-D	.1250" (1/8)	.5000" (1/2)	.1340"	.2500" (1/4)	.1660"
PREFIX-0125-0750-D	.1250" (1/8)	.7500" (3/4)	.1340"	.3750" (3/8)	.1660"
PREFIX-0156-0625-D	.1563" (5/32)	.6250" (5/8)	.1660"	.3125" (5/16)	.1980"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0187-0500-D	.1875" (3/16)	.5000" (1/2)	.1980"	.2500" (1/4)	.2600"
PREFIX-0187-1000-D	.1875" (3/16)	1.0000" (1)	.1980"	.5000" (1/2)	.2600"
PREFIX-0250-0500-D	.2500" (1/4)	.5000" (1/2)	.2630"	.2500" (1/4)	.3220"
PREFIX-0250-0750-D	.2500" (1/4)	.7500" (3/4)	.2630"	.3750" (3/8)	.3220"
PREFIX-0250-1000-D	.2500" (1/4)	1.0000" (1)	.2630"	.5000" (1/2)	.3220"
PREFIX-0250-1250-D	.2500" (1/4)	1.2500" (1-1/4)	.2630"	.6250" (5/8)	.3220"
PREFIX-0250-1500-D	.2500" (1/4)	1.5000" (1-1/2)	.2620"	.7500" (3/4)	.3220"
PREFIX-0312-1000-D	.3125" (5/16)	1.0000" (1)	.3290"	.5000" (1/2)	.3850"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0375-0750-D	.3750" (3/8)	.7500" (3/4)	.3940"	.3750" (3/8)	.4790"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

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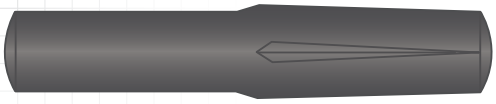
DIN 1474 (SIMILAR TO TYPE D)

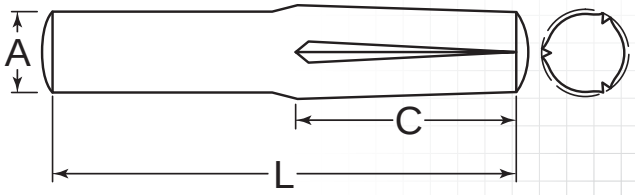
DESCRIPTION

Three half-length reverse tapered grooves. Designed specifically as a lever, stop, or roller pivot. The reverse tapered grooves provide maximum holding power. DIN 1474 is not interchangeable with ASME Type D.

HOW TO IDENTIFY

1. Verify three half-length reverse tapered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1474 identified by "-74" at end of item number.

GPM = CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
1.500 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-015-004-74	4.000 mm	2.000 mm
GPM-015-005-74	5.000 mm	2.500 mm
GPM-015-006-74	6.000 mm	3.000 mm
GPM-015-008-74	8.000 mm	4.000 mm
GPM-015-010-74	10.000 mm	5.000 mm
GPM-015-012-74	12.000 mm	6.000 mm
GPM-015-014-74	14.000 mm	7.000 mm
GPM-015-016-74	16.000 mm	8.000 mm
GPM-015-018-74	18.000 mm	9.000 mm
GPM-015-020-74	20.000 mm	10.000 mm
2.000 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-020-004-74	4.000 mm	2.000 mm
GPM-020-005-74	5.000 mm	2.500 mm
GPM-020-006-74	6.000 mm	3.000 mm
GPM-020-008-74	8.000 mm	4.000 mm
GPM-020-010-74	10.000 mm	5.000 mm
GPM-020-012-74	12.000 mm	6.000 mm
GPM-020-014-74	14.000 mm	7.000 mm
GPM-020-016-74	16.000 mm	8.000 mm
GPM-020-018-74	18.000 mm	9.000 mm
GPM-020-020-74	20.000 mm	10.000 mm
GPM-020-022-74	22.000 mm	11.000 mm
GPM-020-024-74	24.000 mm	12.000 mm
GPM-020-026-74	26.000 mm	13.000 mm
GPM-020-028-74	28.000 mm	14.000 mm
GPM-020-030-74	30.000 mm	15.000 mm
2.500 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-025-006-74	6.000 mm	3.000 mm
GPM-025-008-74	8.000 mm	4.000 mm
GPM-025-010-74	10.000 mm	5.000 mm
GPM-025-012-74	12.000 mm	6.000 mm
GPM-025-014-74	14.000 mm	7.000 mm
GPM-025-016-74	16.000 mm	8.000 mm
GPM-025-018-74	18.000 mm	9.000 mm
GPM-025-020-74	20.000 mm	10.000 mm
GPM-025-022-74	22.000 mm	11.000 mm
GPM-025-024-74	24.000 mm	12.000 mm
GPM-025-026-74	26.000 mm	13.000 mm
GPM-025-028-74	28.000 mm	14.000 mm
GPM-025-030-74	30.000 mm	15.000 mm
3.000 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-030-006-74	6.000 mm	3.000 mm
GPM-030-008-74	8.000 mm	4.000 mm
GPM-030-010-74	10.000 mm	5.000 mm

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(SIMILAR TO TYPE D)

DIN 1474

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
GPM-030-012-74	12.000 mm	6.000 mm
GPM-030-014-74	14.000 mm	7.000 mm
GPM-030-016-74	16.000 mm	8.000 mm
GPM-030-018-74	18.000 mm	9.000 mm
GPM-030-020-74	20.000 mm	10.000 mm
GPM-030-022-74	22.000 mm	11.000 mm
GPM-030-024-74	24.000 mm	12.000 mm
GPM-030-026-74	26.000 mm	13.000 mm
GPM-030-028-74	28.000 mm	14.000 mm
GPM-030-030-74	30.000 mm	15.000 mm
GPM-030-032-74	32.000 mm	16.000 mm
GPM-030-036-74	36.000 mm	18.000 mm
GPM-030-040-74	40.000 mm	20.000 mm

4.000 mm

(A) Outside Diameter: +0.000/-0.070 mm

	+0.050/-0.050 mm	
GPM-040-006-74	6.000 mm	3.000 mm
GPM-040-008-74	8.000 mm	4.000 mm
GPM-040-010-74	10.000 mm	5.000 mm
GPM-040-012-74	12.000 mm	6.000 mm
GPM-040-014-74	14.000 mm	7.000 mm
GPM-040-016-74	16.000 mm	8.000 mm
GPM-040-018-74	18.000 mm	9.000 mm
GPM-040-020-74	20.000 mm	10.000 mm
GPM-040-022-74	22.000 mm	11.000 mm
GPM-040-024-74	24.000 mm	12.000 mm
GPM-040-026-74	26.000 mm	13.000 mm
GPM-040-028-74	28.000 mm	14.000 mm
GPM-040-030-74	30.000 mm	15.000 mm
GPM-040-032-74	32.000 mm	16.000 mm
GPM-040-036-74	36.000 mm	18.000 mm
GPM-040-040-74	40.000 mm	20.000 mm
GPM-040-045-74	45.000 mm	22.500 mm

5.000 mm

(A) Outside Diameter: +0.000/-0.070 mm

	+0.050/-0.050 mm	
GPM-050-008-74	8.000 mm	4.000 mm
GPM-050-010-74	10.000 mm	5.000 mm
GPM-050-012-74	12.000 mm	6.000 mm
GPM-050-014-74	14.000 mm	7.000 mm
GPM-050-016-74	16.000 mm	8.000 mm
GPM-050-018-74	18.000 mm	9.000 mm
GPM-050-020-74	20.000 mm	10.000 mm
GPM-050-022-74	22.000 mm	11.000 mm
GPM-050-024-74	24.000 mm	12.000 mm
GPM-050-026-74	26.000 mm	13.000 mm
GPM-050-028-74	28.000 mm	14.000 mm
GPM-050-030-74	30.000 mm	15.000 mm
GPM-050-032-74	32.000 mm	16.000 mm
GPM-050-036-74	36.000 mm	18.000 mm
GPM-050-040-74	40.000 mm	20.000 mm
GPM-050-045-74	45.000 mm	22.500 mm
GPM-050-050-74	50.000 mm	25.000 mm

6.000 mm

(A) Outside Diameter: +0.000/-0.070 mm

	+0.050/-0.050 mm	
GPM-060-008-74	8.000 mm	4.000 mm
GPM-060-010-74	10.000 mm	5.000 mm
GPM-060-012-74	12.000 mm	6.000 mm
GPM-060-014-74	14.000 mm	7.000 mm
GPM-060-016-74	16.000 mm	8.000 mm
GPM-060-018-74	18.000 mm	9.000 mm
GPM-060-020-74	20.000 mm	10.000 mm
GPM-060-022-74	22.000 mm	11.000 mm
GPM-060-024-74	24.000 mm	12.000 mm
GPM-060-026-74	26.000 mm	13.000 mm
GPM-060-028-74	28.000 mm	14.000 mm
GPM-060-030-74	30.000 mm	15.000 mm
GPM-060-032-74	32.000 mm	16.000 mm
GPM-060-036-74	36.000 mm	18.000 mm
GPM-060-040-74	40.000 mm	20.000 mm
GPM-060-045-74	45.000 mm	22.500 mm
GPM-060-050-74	50.000 mm	25.000 mm
GPM-060-055-74	5.000 mm	2.500 mm
GPM-060-060-74	60.000 mm	30.000 mm

8.000 mm

(A) Outside Diameter: +0.000/-0.090 mm

	+0.050/-0.050 mm	
GPM-080-010-74	10.000 mm	5.000 mm
GPM-080-012-74	12.000 mm	6.000 mm
GPM-080-014-74	14.000 mm	7.000 mm
GPM-080-016-74	16.000 mm	8.000 mm
GPM-080-018-74	18.000 mm	9.000 mm
GPM-080-020-74	20.000 mm	10.000 mm
GPM-080-022-74	22.000 mm	11.000 mm
GPM-080-024-74	24.000 mm	12.000 mm
GPM-080-026-74	26.000 mm	13.000 mm
GPM-080-028-74	28.000 mm	14.000 mm
GPM-080-030-74	30.000 mm	15.000 mm
GPM-080-032-74	32.000 mm	16.000 mm
GPM-080-036-74	36.000 mm	18.000 mm
GPM-080-040-74	40.000 mm	20.000 mm
GPM-080-045-74	45.000 mm	22.500 mm
GPM-080-050-74	50.000 mm	25.000 mm
GPM-080-055-74	55.000 mm	27.500 mm
GPM-080-060-74	60.000 mm	30.000 mm
GPM-080-065-74	65.000 mm	32.500 mm
GPM-080-070-74	70.000 mm	35.000 mm

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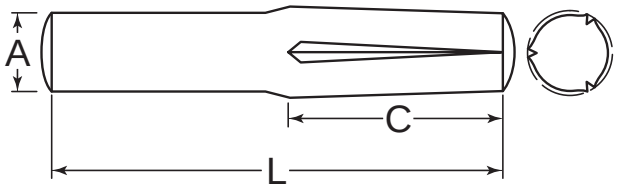
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DIN 1474 (SIMILAR TO TYPE D)

PREFIX	MATERIAL/FINISH
GPM	= CARBON STEEL, PLAIN*

DIN 1474 identified by "-74" at end of item number.



10.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.050/-0.050 mm	(C) GROOVE LENGTH
GPM-100-014-74	14.000 mm	7.000 mm
GPM-100-016-74	16.000 mm	8.000 mm
GPM-100-018-74	18.000 mm	9.000 mm
GPM-100-020-74	20.000 mm	10.000 mm
GPM-100-022-74	22.000 mm	11.000 mm
GPM-100-025-74	25.000 mm	12.500 mm
GPM-100-028-74	28.000 mm	14.000 mm
GPM-100-030-74	30.000 mm	15.000 mm
GPM-100-032-74	32.000 mm	16.000 mm
GPM-100-036-74	36.000 mm	18.000 mm
GPM-100-040-74	40.000 mm	20.000 mm
GPM-100-045-74	45.000 mm	22.500 mm
GPM-100-050-74	50.000 mm	25.000 mm
GPM-100-055-74	55.000 mm	27.500 mm
GPM-100-060-74	60.000 mm	30.000 mm
GPM-100-065-74	65.000 mm	32.500 mm
GPM-100-070-74	70.000 mm	35.000 mm
GPM-100-080-74	80.000 mm	40.000 mm
GPM-100-090-74	90.000 mm	45.000 mm
GPM-100-100-74	100.000 mm	50.000 mm
GPM-100-110-74	110.000 mm	55.000 mm
GPM-100-120-74	120.000 mm	60.000 mm

12.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.100/-0.100 mm	(C) GROOVE LENGTH
GPM-120-014-74	14.000 mm	7.000 mm
GPM-120-016-74	16.000 mm	8.000 mm
GPM-120-018-74	18.000 mm	9.000 mm
GPM-120-020-74	20.000 mm	10.000 mm
GPM-120-022-74	22.000 mm	11.000 mm
GPM-120-025-74	25.000 mm	12.500 mm
GPM-120-028-74	28.000 mm	14.000 mm
GPM-120-030-74	30.000 mm	15.000 mm
GPM-120-032-74	32.000 mm	16.000 mm
GPM-120-036-74	36.000 mm	18.000 mm
GPM-120-040-74	40.000 mm	20.000 mm
GPM-120-045-74	45.000 mm	22.500 mm
GPM-120-050-74	50.000 mm	25.000 mm
GPM-120-055-74	55.000 mm	27.500 mm
GPM-120-060-74	60.000 mm	30.000 mm
GPM-120-065-74	65.000 mm	32.500 mm
GPM-120-070-74	70.000 mm	35.000 mm
GPM-120-080-74	80.000 mm	40.000 mm
GPM-120-090-74	90.000 mm	45.000 mm
GPM-120-100-74	100.000 mm	50.000 mm
GPM-120-110-74	110.000 mm	55.000 mm
GPM-120-120-74	120.000 mm	60.000 mm

14.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.100/-0.100 mm	(C) GROOVE LENGTH
GPM-140-036-74	36.000 mm	18.000 mm
GPM-140-040-74	40.000 mm	20.000 mm
GPM-140-045-74	45.000 mm	22.500 mm
GPM-140-050-74	50.000 mm	25.000 mm
GPM-140-055-74	55.000 mm	27.500 mm
GPM-140-060-74	60.000 mm	30.000 mm
GPM-140-065-74	65.000 mm	32.500 mm
GPM-140-070-74	70.000 mm	35.000 mm
GPM-140-080-74	80.000 mm	40.000 mm
GPM-140-090-74	90.000 mm	45.000 mm
GPM-140-100-74	100.000 mm	50.000 mm
GPM-140-110-74	110.000 mm	55.000 mm
GPM-140-120-74	120.000 mm	60.000 mm

16.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.100/-0.100 mm	(C) GROOVE LENGTH
GPM-160-036-74	36.000 mm	18.000 mm
GPM-160-040-74	40.000 mm	20.000 mm
GPM-160-045-74	45.000 mm	22.500 mm
GPM-160-050-74	50.000 mm	25.000 mm
GPM-160-055-74	55.000 mm	27.500 mm
GPM-160-060-74	60.000 mm	30.000 mm
GPM-160-065-74	65.000 mm	32.500 mm
GPM-160-070-74	70.000 mm	35.000 mm
GPM-160-080-74	80.000 mm	40.000 mm
GPM-160-090-74	90.000 mm	45.000 mm
GPM-160-100-74	100.000 mm	50.000 mm
GPM-160-110-74	110.000 mm	55.000 mm
GPM-160-120-74	120.000 mm	60.000 mm

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ASME B18.8.2

TYPE E

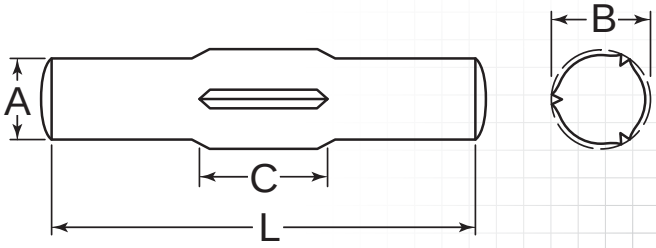
DESCRIPTION

Three half-length centered and parallel grooves puts the holding power of this pin in the middle. Smooth ends work as a cross pin or T-handle.

HOW TO IDENTIFY

1. Verify three half-length parallel grooves.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Type E identified by "-E" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0015"	+.010/-.010"	+.0015/-.0015"		
PREFIX-0062-0250-E	.0625" (1/16)	.2500" (1/4)	.0680"	.1250" (1/8)	.0880"
PREFIX-0062-0375-E	.0625" (1/16)	.3750" (3/8)	.0680"	.1875" (3/16)	.0880"
PREFIX-0062-0437-E	.0625" (1/16)	.4375" (7/16)	.0680"	.2188" (7/32)	.0880"
PREFIX-0062-0500-E	.0625" (1/16)	.5000" (1/2)	.0680"	.2500" (1/4)	.0880"
PREFIX-0062-0625-E	.0625" (1/16)	.6250" (5/8)	.0680"	.3125" (5/16)	.0880"
PREFIX-0062-0750-E	.0625" (1/16)	.7500" (3/4)	.0670"	.3750" (3/8)	.0880"
PREFIX-0062-0875-E	.0625" (1/16)	.8750" (7/8)	.0670"	.4375" (7/16)	.0880"
PREFIX-0062-1000-E	.0625" (1/16)	1.0000" (1)	.0670"	.5000" (1/2)	.0880"
	+.0000/-.0015"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0093-0250-E	.0938" (3/32)	.2500" (1/4)	.1010"	.1250" (1/8)	.1350"
PREFIX-0093-0375-E	.0938" (3/32)	.3750" (3/8)	.1010"	.1875" (3/16)	.1350"
PREFIX-0093-0437-E	.0938" (3/32)	.4375" (7/16)	.1010"	.2188" (7/32)	.1350"
PREFIX-0093-0500-E	.0938" (3/32)	.5000" (1/2)	.1010"	.2500" (1/4)	.1350"
PREFIX-0093-0625-E	.0938" (3/32)	.6250" (5/8)	.1010"	.3125" (5/16)	.1350"
PREFIX-0093-0687-E	.0938" (3/32)	.6875" (11/16)	.1000"	.3437" (11/32)	.1350"
PREFIX-0093-0750-E	.0938" (3/32)	.7500" (3/4)	.1000"	.3750" (3/8)	.1350"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

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SALES@HUYETT.COM • FAX 785-392-2845

TYPE E

ASME B18.8.2

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0015"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0093-0875-E	.0938" (3/32)	.8750" (7/8)	.1000"	.4375" (7/16)	.1350"
PREFIX-0093-1000-E	.0938" (3/32)	1.0000" (1)	.1000"	.5000" (1/2)	.1350"
PREFIX-0093-1250-E	.0938" (3/32)	1.2500" (1-1/4)	.1000"	.6250" (5/8)	.1350"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0125-0250-E	.1250" (1/8)	.2500" (1/4)	.1340"	.1250" (1/8)	.1660"
PREFIX-0125-0375-E	.1250" (1/8)	.3750" (3/8)	.1340"	.1875" (3/16)	.1660"
PREFIX-0125-0437-E	.1250" (1/8)	.4375" (7/16)	.1340"	.2188" (7/32)	.1660"
PREFIX-0125-0500-E	.1250" (1/8)	.5000" (1/2)	.1340"	.2500" (1/4)	.1660"
PREFIX-0125-0562-E	.1250" (1/8)	.5625" (9/16)	.1340"	.2812" (9/32)	.1660"
PREFIX-0125-0625-E	.1250" (1/8)	.6250" (5/8)	.1340"	.3125" (5/16)	.1660"
PREFIX-0125-0750-E	.1250" (1/8)	.7500" (3/4)	.1340"	.3750" (3/8)	.1660"
PREFIX-0125-0875-E	.1250" (1/8)	.8750" (7/8)	.1330"	.4375" (7/16)	.1660"
PREFIX-0125-1000-E	.1250" (1/8)	1.0000" (1)	.1330"	.5000" (1/2)	.1660"
PREFIX-0125-1125-E	.1250" (1/8)	1.1250" (1-1/8)	.1320"	.5625" (9/16)	.1660"
PREFIX-0125-1250-E	.1250" (1/8)	1.2500" (1-1/4)	.1320"	.6250" (5/8)	.1660"
PREFIX-0125-1500-E	.1250" (1/8)	1.5000" (1-1/2)	.1320"	.7500" (3/4)	.1660"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"		
PREFIX-0156-0375-E	.1563" (5/32)	.3750" (3/8)	.1660"	.1875" (3/16)	.1980"
PREFIX-0156-0500-E	.1563" (5/32)	.5000" (1/2)	.1660"	.2500" (1/4)	.1980"
PREFIX-0156-0625-E	.1563" (5/32)	.6250" (5/8)	.1660"	.3125" (5/16)	.1980"
PREFIX-0156-0750-E	.1563" (5/32)	.7500" (3/4)	.1660"	.3750" (3/8)	.1980"
PREFIX-0156-0875-E	.1563" (5/32)	.8750" (7/8)	.1650"	.4375" (7/16)	.1980"
PREFIX-0156-1000-E	.1563" (5/32)	1.0000" (1)	.1650"	.5000" (1/2)	.1980"
PREFIX-0156-1250-E	.1563" (5/32)	1.2500" (1-1/4)	.1640"	.6250" (5/8)	.1980"
PREFIX-0156-1500-E	.1563" (5/32)	1.5000" (1-1/2)	.1640"	.7500" (3/4)	.1980"
PREFIX-0156-1750-E	.1563" (5/32)	1.7500" (1-3/4)	.1630"	.8750" (7/8)	.1980"
PREFIX-0156-2000-E	.1563" (5/32)	2.0000" (2)	.1630"	1.0000" (1)	.1980"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0187-0375-E	.1875" (3/16)	.3750" (3/8)	.1980"	.1875" (3/16)	.2600"
PREFIX-0187-0500-E	.1875" (3/16)	.5000" (1/2)	.1980"	.2500" (1/4)	.2600"
PREFIX-0187-0625-E	.1875" (3/16)	.6250" (5/8)	.1980"	.3125" (5/16)	.2600"
PREFIX-0187-0750-E	.1875" (3/16)	.7500" (3/4)	.1980"	.3750" (3/8)	.2600"
PREFIX-0187-0875-E	.1875" (3/16)	.8750" (7/8)	.1980"	.4375" (7/16)	.2600"
PREFIX-0187-1000-E	.1875" (3/16)	1.0000" (1)	.1980"	.5000" (1/2)	.2600"
PREFIX-0187-1250-E	.1875" (3/16)	1.2500" (1-1/4)	.1970"	.6250" (5/8)	.2600"
PREFIX-0187-1500-E	.1875" (3/16)	1.5000" (1-1/2)	.1970"	.7500" (3/4)	.2600"
PREFIX-0187-1750-E	.1875" (3/16)	1.7500" (1-3/4)	.1970"	.8750" (7/8)	.2600"
PREFIX-0187-2000-E	.1875" (3/16)	2.0000" (2)	.1960"	1.0000" (1)	.2600"
PREFIX-0187-2250-E	.1875" (3/16)	2.2500" (2-1/4)	.1960"	1.1250" (1-1/8)	.2600"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0218-0500-E	.2188" (7/32)	.5000" (1/2)	.2300"	.2500" (1/4)	.2910"
PREFIX-0218-0625-E	.2188" (7/32)	.6250" (5/8)	.2300"	.3125" (5/16)	.2910"
PREFIX-0218-0750-E	.2188" (7/32)	.7500" (3/4)	.2300"	.3750" (3/8)	.2910"
PREFIX-0218-0875-E	.2188" (7/32)	.8750" (7/8)	.2300"	.4375" (7/16)	.2910"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

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TYPE E

PREFIX	MATERIAL/FINISH

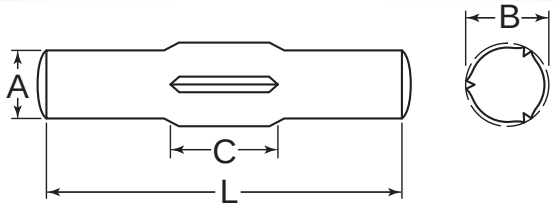
Type E identified by "-E" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR

GPA = ALLOY STEEL, PLAIN*

GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
PREFIX-0218-1000-E	.2188" (7/32)	1.0000" (1)	.2300"	.5000" (1/2)	.2910"
PREFIX-0218-1250-E	.2188" (7/32)	1.2500" (1-1/4)	.2300"	.6250" (5/8)	.2910"
PREFIX-0218-1500-E	.2188" (7/32)	1.5000" (1-1/2)	.2290"	.7500" (3/4)	.2910"
PREFIX-0218-1750-E	.2188" (7/32)	1.7500" (1-3/4)	.2290"	.8750" (7/8)	.2910"
PREFIX-0218-2000-E	.2188" (7/32)	2.0000" (2)	.2290"	1.0000" (1)	.2910"
PREFIX-0218-2250-E	.2188" (7/32)	2.2500" (2-1/4)	.2290"	1.1250" (1-1/8)	.2910"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0250-0500-E	.2500" (1/4)	.5000" (1/2)	.2630"	.2500" (1/4)	.3220"
PREFIX-0250-0625-E	.2500" (1/4)	.6250" (5/8)	.2630"	.3125" (5/16)	.3220"
PREFIX-0250-0750-E	.2500" (1/4)	.7500" (3/4)	.2630"	.3750" (3/8)	.3220"
PREFIX-0250-0875-E	.2500" (1/4)	.8750" (7/8)	.2630"	.4375" (7/16)	.3220"
PREFIX-0250-1000-E	.2500" (1/4)	1.0000" (1)	.2630"	.5000" (1/2)	.3220"
PREFIX-0250-1250-E	.2500" (1/4)	1.2500" (1-1/4)	.2630"	.6250" (5/8)	.3220"
PREFIX-0250-1500-E	.2500" (1/4)	1.5000" (1-1/2)	.2620"	.7500" (3/4)	.3220"
PREFIX-0250-1750-E	.2500" (1/4)	1.7500" (1-3/4)	.2620"	.8750" (7/8)	.3220"
PREFIX-0250-2000-E	.2500" (1/4)	2.0000" (2)	.2620"	1.0000" (1)	.3220"
PREFIX-0250-2250-E	.2500" (1/4)	2.2500" (2-1/4)	.2620"	1.1250" (1-1/8)	.3220"
PREFIX-0250-2500-E	.2500" (1/4)	2.5000" (2-1/2)	.2610"	1.2500" (1-1/4)	.3220"
PREFIX-0250-2750-E	.2500" (1/4)	2.7500" (2-3/4)	.2610"	1.3750" (1-3/8)	.3220"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"		
PREFIX-0312-0625-E	.3125" (5/16)	.6250" (5/8)	.3290"	.3125" (5/16)	.3850"
PREFIX-0312-0750-E	.3125" (5/16)	.7500" (3/4)	.3290"	.3750" (3/8)	.3850"
PREFIX-0312-0875-E	.3125" (5/16)	.8750" (7/8)	.3290"	.4375" (7/16)	.3850"
PREFIX-0312-1000-E	.3125" (5/16)	1.0000" (1)	.3290"	.5000" (1/2)	.3850"
PREFIX-0312-1250-E	.3125" (5/16)	1.2500" (1-1/4)	.3290"	.6250" (5/8)	.3850"
PREFIX-0312-1500-E	.3125" (5/16)	1.5000" (1-1/2)	.3290"	.7500" (3/4)	.3850"
PREFIX-0312-1750-E	.3125" (5/16)	1.7500" (1-3/4)	.3280"	.8750" (7/8)	.3850"
PREFIX-0312-2000-E	.3125" (5/16)	2.0000" (2)	.3280"	1.0000" (1)	.3850"
PREFIX-0312-2250-E	.3125" (5/16)	2.2500" (2-1/4)	.3280"	1.1250" (1-1/8)	.3850"
PREFIX-0312-2500-E	.3125" (5/16)	2.5000" (2-1/2)	.3270"	1.2500" (1-1/4)	.3850"
PREFIX-0312-2750-E	.3125" (5/16)	2.7500" (2-3/4)	.3270"	1.3750" (1-3/8)	.3850"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0375-0750-E	.3750" (3/8)	.7500" (3/4)	.3940"	.3750" (3/8)	.4790"
PREFIX-0375-0875-E	.3750" (3/8)	.8750" (7/8)	.3940"	.4375" (7/16)	.4790"
PREFIX-0375-1000-E	.3750" (3/8)	1.0000" (1)	.3940"	.5000" (1/2)	.4790"
PREFIX-0375-1250-E	.3750" (3/8)	1.2500" (1-1/4)	.3940"	.6250" (5/8)	.4790"
PREFIX-0375-1375-E	.3750" (3/8)	1.3750" (1-3/8)	.3940"	.6875" (11/16)	.4790"
PREFIX-0375-1500-E	.3750" (3/8)	1.5000" (1-1/2)	.3940"	.7500" (3/4)	.4790"
PREFIX-0375-1750-E	.3750" (3/8)	1.7500" (1-3/4)	.3930"	.8750" (7/8)	.4790"
PREFIX-0375-2000-E	.3750" (3/8)	2.0000" (2)	.3930"	1.0000" (1)	.4790"
PREFIX-0375-2250-E	.3750" (3/8)	2.2500" (2-1/4)	.3930"	1.1250" (1-1/8)	.4790"
PREFIX-0375-2500-E	.3750" (3/8)	2.5000" (2-1/2)	.3930"	1.2500" (1-1/4)	.4790"
PREFIX-0375-2750-E	.3750" (3/8)	2.7500" (2-3/4)	.3930"	1.3750" (1-3/8)	.4790"
PREFIX-0375-3000-E	.3750" (3/8)	3.0000" (3)	.3920"	1.5000" (1-1/2)	.4790"

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

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TYPE E

ASME B18.8.2

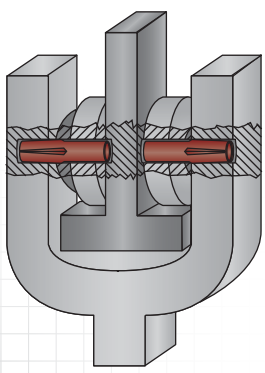
ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH	END RADIUS
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0375-3250-E	.3750" (3/8)	3.2500" (3-1/4)	.3920"	1.6250" (1-5/8)	.4790"
PREFIX-0375-3500-E	.3750" (3/8)	3.5000" (3-1/2)	.3910"	1.7500" (1-3/4)	.4790"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0437-0875-E	.4375" (7/16)	.8750" (7/8)	.4590"	.4375" (7/16)	.5410"
PREFIX-0437-1000-E	.4375" (7/16)	1.0000" (1)	.4590"	.5000" (1/2)	.5410"
PREFIX-0437-1250-E	.4375" (7/16)	1.2500" (1-1/4)	.4590"	.6250" (5/8)	.5410"
PREFIX-0437-1500-E	.4375" (7/16)	1.5000" (1-1/2)	.4590"	.7500" (3/4)	.5410"
PREFIX-0437-1750-E	.4375" (7/16)	1.7500" (1-3/4)	.4590"	.8750" (7/8)	.5410"
PREFIX-0437-2000-E	.4375" (7/16)	2.0000" (2)	.4580"	1.0000" (1)	.5410"
PREFIX-0437-2250-E	.4375" (7/16)	2.2500" (2-1/4)	.4580"	1.1250" (1-1/8)	.5410"
PREFIX-0437-2500-E	.4375" (7/16)	2.5000" (2-1/2)	.4580"	1.2500" (1-1/4)	.5410"
PREFIX-0437-2750-E	.4375" (7/16)	2.7500" (2-3/4)	.4580"	1.3750" (1-3/8)	.5410"
PREFIX-0437-3000-E	.4375" (7/16)	3.0000" (3)	.4570"	1.5000" (1-1/2)	.5410"
PREFIX-0437-3250-E	.4375" (7/16)	3.2500" (3-1/4)	.4570"	1.6250" (1-5/8)	.5410"
PREFIX-0437-3500-E	.4375" (7/16)	3.5000" (3-1/2)	.4560"	1.7500" (1-3/4)	.5410"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"		
PREFIX-0500-1000-E	.5000" (1/2)	1.0000" (1)	.5250"	.5000" (1/2)	.6350"
PREFIX-0500-1250-E	.5000" (1/2)	1.2500" (1-1/4)	.5250"	.6250" (5/8)	.6350"
PREFIX-0500-1500-E	.5000" (1/2)	1.5000" (1-1/2)	.5250"	.7500" (3/4)	.6350"
PREFIX-0500-1750-E	.5000" (1/2)	1.7500" (1-3/4)	.5250"	.8750" (7/8)	.6350"
PREFIX-0500-2000-E	.5000" (1/2)	2.0000" (2)	.5250"	1.0000" (1)	.6350"
PREFIX-0500-2250-E	.5000" (1/2)	2.2500" (2-1/4)	.5240"	1.1250" (1-1/8)	.6350"
PREFIX-0500-2500-E	.5000" (1/2)	2.5000" (2-1/2)	.5240"	1.2500" (1-1/4)	.6350"
PREFIX-0500-2750-E	.5000" (1/2)	2.7500" (2-3/4)	.5240"	1.3750" (1-3/8)	.6350"
PREFIX-0500-3000-E	.5000" (1/2)	3.0000" (3)	.5230"	1.5000" (1-1/2)	.6350"
PREFIX-0500-3250-E	.5000" (1/2)	3.2500" (3-1/4)	.5230"	1.6250" (1-5/8)	.6350"
PREFIX-0500-3500-E	.5000" (1/2)	3.5000" (3-1/2)	.5220"	1.7500" (1-3/4)	.6350"

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

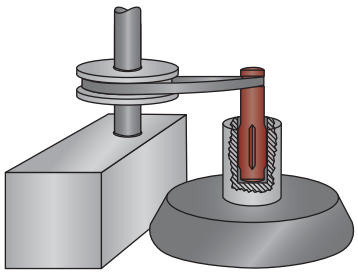
GP • GPA • GPS

*SEE STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES ON PAGE 188

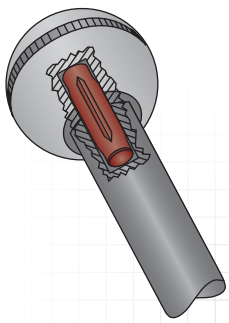
APPLICATIONS



TYPE D USED AS ROLLER PINS



TYPE G USED IN A BELT ASSEMBLY



TYPE U USED IN KNOB RETENTION

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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*Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.

(SIMILAR TO TYPE E) DIN 1475

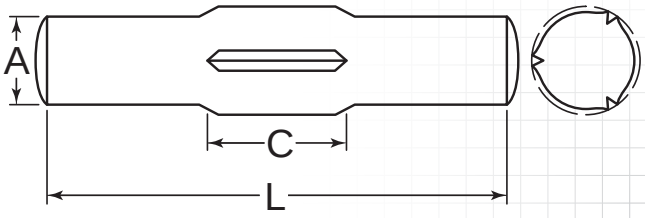
DESCRIPTION

Three third-length centered grooves. The two smooth ends make this pin work well as a shaft for rollers or as a cross bar for closing bolts. DIN 1475 is not interchangeable with ASME Type E.

HOW TO IDENTIFY

1. Verify three third-length centered grooves.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1475 identified by "-75" at end of item number.

GPM = CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
1.500 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-015-004-75	4.000 mm	1.330 mm
GPM-015-005-75	5.000 mm	1.670 mm
GPM-015-006-75	6.000 mm	2.000 mm
GPM-015-008-75	8.000 mm	2.670 mm
GPM-015-010-75	10.000 mm	3.330 mm
GPM-015-012-75	12.000 mm	4.000 mm
GPM-015-016-75	16.000 mm	5.330 mm
2.000 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-020-004-75	4.000 mm	1.330 mm
GPM-020-005-75	5.000 mm	1.670 mm
GPM-020-006-75	6.000 mm	2.000 mm
GPM-020-008-75	8.000 mm	2.670 mm
GPM-020-010-75	10.000 mm	3.330 mm
GPM-020-012-75	12.000 mm	4.000 mm
GPM-020-014-75	14.000 mm	4.670 mm
GPM-020-016-75	16.000 mm	5.330 mm
GPM-020-018-75	18.000 mm	6.000 mm
GPM-020-020-75	20.000 mm	6.670 mm
GPM-020-022-75	22.000 mm	7.330 mm
GPM-020-024-75	24.000 mm	8.000 mm
GPM-020-026-75	26.000 mm	8.670 mm
GPM-020-028-75	28.000 mm	9.330 mm
GPM-020-030-75	30.000 mm	10.000 mm
2.500 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-025-006-75	6.000 mm	2.000 mm
GPM-025-008-75	8.000 mm	2.670 mm
GPM-025-010-75	10.000 mm	3.330 mm
GPM-025-012-75	12.000 mm	4.000 mm
GPM-025-014-75	14.000 mm	4.670 mm
GPM-025-016-75	16.000 mm	5.330 mm
GPM-025-018-75	18.000 mm	6.000 mm
GPM-025-020-75	20.000 mm	6.670 mm
GPM-025-022-75	22.000 mm	7.330 mm
GPM-025-024-75	24.000 mm	8.000 mm
GPM-025-026-75	26.000 mm	8.670 mm
GPM-025-028-75	28.000 mm	9.330 mm
GPM-025-030-75	30.000 mm	10.000 mm

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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DIN 1475 (SIMILAR TO TYPE E)

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
3.000 mm (A) Outside Diameter: +0.000/-0.040 mm		
	+0.050/-0.050 mm	
GPM-030-006-75	6.000 mm	2.000 mm
GPM-030-008-75	8.000 mm	2.670 mm
GPM-030-010-75	10.000 mm	3.330 mm
GPM-030-012-75	12.000 mm	4.000 mm
GPM-030-014-75	14.000 mm	4.670 mm
GPM-030-016-75	16.000 mm	5.330 mm
GPM-030-018-75	18.000 mm	6.000 mm
GPM-030-020-75	20.000 mm	6.670 mm
GPM-030-022-75	22.000 mm	7.330 mm
GPM-030-024-75	24.000 mm	8.000 mm
GPM-030-026-75	26.000 mm	8.670 mm
GPM-030-028-75	28.000 mm	9.330 mm
GPM-030-030-75	30.000 mm	10.000 mm
GPM-030-032-75	32.000 mm	10.670 mm
GPM-030-036-75	36.000 mm	12.000 mm
GPM-030-040-75	40.000 mm	13.330 mm
4.000 mm (A) Outside Diameter: +0.000/-0.070 mm		
	+0.050/-0.050 mm	
GPM-040-006-75	6.000 mm	2.000 mm
GPM-040-008-75	8.000 mm	2.670 mm
GPM-040-010-75	10.000 mm	3.330 mm
GPM-040-012-75	12.000 mm	4.000 mm
GPM-040-014-75	14.000 mm	4.670 mm
GPM-040-016-75	16.000 mm	5.330 mm
GPM-040-018-75	18.000 mm	6.000 mm
GPM-040-020-75	20.000 mm	6.670 mm
GPM-040-022-75	22.000 mm	7.330 mm
GPM-040-024-75	24.000 mm	8.000 mm
GPM-040-026-75	26.000 mm	8.670 mm
GPM-040-028-75	28.000 mm	9.330 mm
GPM-040-030-75	30.000 mm	10.000 mm
GPM-040-032-75	32.000 mm	10.670 mm
GPM-040-036-75	36.000 mm	12.000 mm
GPM-040-040-75	40.000 mm	13.330 mm
GPM-040-045-75	45.000 mm	15.000 mm
5.000 mm (A) Outside Diameter: +0.000/-0.070 mm		
	+0.050/-0.050 mm	
GPM-050-008-75	8.000 mm	2.670 mm
GPM-050-010-75	10.000 mm	3.330 mm
GPM-050-012-75	12.000 mm	4.000 mm
GPM-050-014-75	14.000 mm	4.670 mm
GPM-050-016-75	16.000 mm	5.330 mm
GPM-050-018-75	18.000 mm	6.000 mm
GPM-050-020-75	20.000 mm	6.670 mm
GPM-050-022-75	22.000 mm	7.330 mm
GPM-050-024-75	24.000 mm	8.000 mm
GPM-050-026-75	26.000 mm	8.670 mm
GPM-050-028-75	28.000 mm	9.330 mm
GPM-050-030-75	30.000 mm	10.000 mm
GPM-050-032-75	32.000 mm	10.670 mm
GPM-050-036-75	36.000 mm	12.000 mm
GPM-050-040-75	40.000 mm	13.330 mm
GPM-050-045-75	45.000 mm	15.000 mm
GPM-050-050-75	50.000 mm	16.670 mm
6.000 mm (A) Outside Diameter: +0.000/-0.090 mm		
	+0.050/-0.050 mm	
GPM-060-008-75	8.000 mm	2.670 mm
GPM-060-010-75	10.000 mm	3.330 mm
GPM-060-012-75	12.000 mm	4.000 mm
GPM-060-014-75	14.000 mm	4.670 mm
GPM-060-016-75	16.000 mm	5.330 mm
GPM-060-018-75	18.000 mm	6.000 mm
GPM-060-020-75	20.000 mm	6.670 mm
GPM-060-022-75	22.000 mm	7.330 mm
GPM-060-024-75	24.000 mm	8.000 mm
GPM-060-026-75	26.000 mm	8.670 mm
GPM-060-028-75	28.000 mm	9.330 mm
GPM-060-030-75	30.000 mm	10.000 mm
GPM-060-032-75	32.000 mm	10.670 mm
GPM-060-036-75	36.000 mm	12.000 mm
GPM-060-040-75	40.000 mm	13.330 mm
GPM-060-045-75	45.000 mm	15.000 mm
GPM-060-050-75	50.000 mm	16.670 mm
GPM-060-055-75	55.000 mm	18.330 mm
GPM-060-060-75	60.000 mm	20.000 mm
8.000 mm (A) Outside Diameter: +0.000/-0.090 mm		
	+0.050/-0.050 mm	
GPM-080-010-75	10.000 mm	3.330 mm
GPM-080-012-75	12.000 mm	4.000 mm
GPM-080-014-75	14.000 mm	4.670 mm
GPM-080-016-75	16.000 mm	5.330 mm
GPM-080-018-75	18.000 mm	6.000 mm
GPM-080-020-75	20.000 mm	6.670 mm
GPM-080-022-75	22.000 mm	7.330 mm
GPM-080-024-75	24.000 mm	8.000 mm
GPM-080-026-75	26.000 mm	8.670 mm
GPM-080-028-75	28.000 mm	9.330 mm
GPM-080-030-75	30.000 mm	10.000 mm
GPM-080-032-75	32.000 mm	10.670 mm
GPM-080-036-75	36.000 mm	12.000 mm
GPM-080-040-75	40.000 mm	13.330 mm
GPM-080-045-75	45.000 mm	15.000 mm
GPM-080-050-75	50.000 mm	16.670 mm
GPM-080-055-75	55.000 mm	18.330 mm

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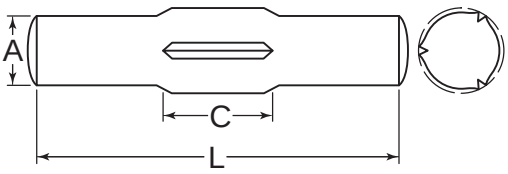
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(SIMILAR TO TYPE E) DIN 1475

PREFIX	MATERIAL/FINISH
GPM	= CARBON STEEL, PLAIN*

DIN 1475 identified by "-75" at end of item number.



ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
GPM-080-060-75	60.000 mm	20.000 mm
GPM-080-065-75	65.000 mm	21.670 mm
GPM-080-070-75	70.000 mm	23.330 mm

10.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

	+0.050/-0.050 mm	
GPM-100-014-75	14.000 mm	4.670 mm
GPM-100-016-75	16.000 mm	5.330 mm
GPM-100-018-75	18.000 mm	6.000 mm
GPM-100-020-75	20.000 mm	6.670 mm
GPM-100-022-75	22.000 mm	7.330 mm
GPM-100-025-75	25.000 mm	8.330 mm
GPM-100-028-75	28.000 mm	9.330 mm
GPM-100-030-75	30.000 mm	10.000 mm
GPM-100-032-75	32.000 mm	10.670 mm
GPM-100-036-75	36.000 mm	12.000 mm
GPM-100-040-75	40.000 mm	13.330 mm
GPM-100-045-75	45.000 mm	15.000 mm
GPM-100-050-75	50.000 mm	16.670 mm
GPM-100-055-75	55.000 mm	18.330 mm
GPM-100-060-75	60.000 mm	20.000 mm
GPM-100-065-75	65.000 mm	21.670 mm
GPM-100-070-75	70.000 mm	23.330 mm
GPM-100-080-75	80.000 mm	26.670 mm
GPM-100-090-75	90.000 mm	30.000 mm
GPM-100-100-75	100.000 mm	33.330 mm
GPM-100-110-75	110.000 mm	36.670 mm
GPM-100-120-75	120.000 mm	40.000 mm

12.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm	
GPM-120-014-75	14.000 mm	4.670 mm
GPM-120-016-75	16.000 mm	5.330 mm
GPM-120-018-75	18.000 mm	6.000 mm
GPM-120-020-75	20.000 mm	6.670 mm
GPM-120-022-75	22.000 mm	7.330 mm
GPM-120-025-75	25.000 mm	8.330 mm
GPM-120-028-75	28.000 mm	9.330 mm
GPM-120-030-75	30.000 mm	10.000 mm
GPM-120-032-75	32.000 mm	10.670 mm
GPM-120-036-75	36.000 mm	12.000 mm
GPM-120-040-75	40.000 mm	13.330 mm
GPM-120-045-75	45.000 mm	15.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	(C) GROOVE LENGTH
GPM-120-050-75	50.000 mm	16.670 mm
GPM-120-055-75	55.000 mm	18.330 mm
GPM-120-060-75	60.000 mm	20.000 mm
GPM-120-065-75	65.000 mm	21.670 mm
GPM-120-070-75	70.000 mm	23.330 mm
GPM-120-080-75	80.000 mm	26.670 mm
GPM-120-090-75	90.000 mm	30.000 mm
GPM-120-100-75	100.000 mm	33.330 mm
GPM-120-110-75	110.000 mm	36.670 mm
GPM-120-120-75	120.000 mm	40.000 mm

14.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm	
GPM-140-036-75	36.000 mm	12.000 mm
GPM-140-040-75	40.000 mm	13.330 mm
GPM-140-045-75	45.000 mm	15.000 mm
GPM-140-050-75	50.000 mm	16.670 mm
GPM-140-055-75	55.000 mm	18.330 mm
GPM-140-060-75	60.000 mm	20.000 mm
GPM-140-065-75	65.000 mm	21.670 mm
GPM-140-070-75	70.000 mm	23.330 mm
GPM-140-080-75	80.000 mm	26.670 mm
GPM-140-090-75	90.000 mm	30.000 mm
GPM-140-100-75	100.000 mm	33.330 mm
GPM-140-110-75	110.000 mm	36.670 mm
GPM-140-120-75	120.000 mm	40.000 mm

16.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm	
GPM-160-036-75	36.000 mm	12.000 mm
GPM-160-040-75	75.000 mm	25.000 mm
GPM-160-045-75	45.000 mm	15.000 mm
GPM-160-050-75	50.000 mm	16.670 mm
GPM-160-055-75	55.000 mm	18.330 mm
GPM-160-060-75	60.000 mm	20.000 mm
GPM-160-065-75	65.000 mm	21.670 mm
GPM-160-070-75	70.000 mm	23.330 mm
GPM-160-080-75	80.000 mm	26.670 mm
GPM-160-090-75	90.000 mm	30.000 mm
GPM-160-100-75	100.000 mm	33.330 mm
GPM-160-110-75	110.000 mm	36.670 mm
GPM-160-120-75	120.000 mm	40.000 mm

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TYPE G

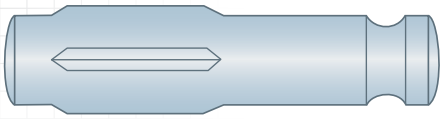
ASME B18.8.2

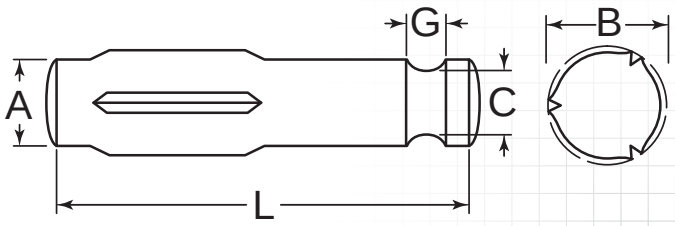
DESCRIPTION

A short pilot and three parallel half-length grooves, with an annular groove at the opposite end. Pilot eases installation. Annular groove works as a spring anchor.

HOW TO IDENTIFY

1. Verify three half-length parallel grooves and a pilot, with a grooved neck (G) at opposite end.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

Type G identified by "-G" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE DIAMETER	(G) GROOVE WIDTH	GROOVE LENGTH	END RADIUS
	+.0000/-.0015"	+.010/-.010"	+.0015/-.0015"	+.005/-.005"	+.005/-.005"		
GP-0093-0375-G	.0938" (3/32)	.3750" (3/8)	.1010"	.0620"	.0330"	.1875" (3/16)	.1350"
GP-0093-0500-G	.0938" (3/32)	.5000" (1/2)	.1010"	.0620"	.0330"	.2500" (1/4)	.1350"
GP-0093-0625-G	.0938" (3/32)	.6250" (5/8)	.1010"	.0620"	.0330"	.3125" (5/16)	.1350"
GP-0093-0750-G	.0938" (3/32)	.7500" (3/4)	.1000"	.0620"	.0330"	.3750" (3/8)	.1350"
GP-0093-0875-G	.0938" (3/32)	.8750" (7/8)	.1000"	.0620"	.0330"	.4375" (7/16)	.1350"
GP-0093-1000-G	.0938" (3/32)	1.0000" (1)	.1000"	.0620"	.0330"	.5000" (1/2)	.1350"
GP-0093-1250-G	.0938" (3/32)	1.2500" (1-1/4)	.1000"	.0620"	.0330"	.6250" (5/8)	.1350"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"	+.005/-.005"	+.005/-.005"		
GP-0125-0375-G	.1250" (1/8)	.3750" (3/8)	.1340"	.0830"	.0640"	.1875" (3/16)	.1660"
GP-0125-0500-G	.1250" (1/8)	.5000" (1/2)	.1340"	.0830"	.0640"	.2500" (1/4)	.1660"
GP-0125-0625-G	.1250" (1/8)	.6250" (5/8)	.1340"	.0830"	.0640"	.3125" (5/16)	.1660"
GP-0125-0750-G	.1250" (1/8)	.7500" (3/4)	.1340"	.0830"	.0640"	.3750" (3/8)	.1660"
GP-0125-0875-G	.1250" (1/8)	.8750" (7/8)	.1330"	.0830"	.0640"	.4375" (7/16)	.1660"
GP-0125-1000-G	.1250" (1/8)	1.0000" (1)	.1330"	.0830"	.0640"	.5000" (1/2)	.1660"
GP-0125-1250-G	.1250" (1/8)	1.2500" (1-1/4)	.1320"	.0830"	.0640"	.6250" (5/8)	.1660"
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"	+.005/-.005"	+.005/-.005"		
GP-0156-0375-G	.1562" (5/32)	.3750" (3/8)	.1660"	.1040"	.0640"	.1875" (3/16)	.1980"
GP-0156-0500-G	.1562" (5/32)	.5000" (1/2)	.1660"	.1040"	.0640"	.2500" (1/4)	.1980"
GP-0156-0625-G	.1562" (5/32)	.6250" (5/8)	.1660"	.1040"	.0640"	.3125" (5/16)	.1980"
GP-0156-0750-G	.1562" (5/32)	.7500" (3/4)	.1660"	.1040"	.0640"	.3750" (3/8)	.1980"
GP-0156-0875-G	.1562" (5/32)	.8750" (7/8)	.1650"	.1040"	.0640"	.4375" (7/16)	.1980"
GP-0156-1000-G	.1562" (5/32)	1.0000" (1)	.1650"	.1040"	.0640"	.5000" (1/2)	.1980"
GP-0156-1250-G	.1562" (5/32)	1.2500" (1-1/4)	.1640"	.1040"	.0640"	.6250" (5/8)	.1980"

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ASME B18.8.2

TYPE G

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE DIAMETER	(G) GROOVE WIDTH	GROOVE LENGTH	END RADIUS
GP-0156-1500-G	.1562" (5/32)	1.5000" (1-1/2)	.1640"	.1040"	.0640"	.7500" (3/4)	.1980"
GP-0156-1750-G	.1562" (5/32)	1.7500" (1-3/4)	.1630"	.1040"	.0640"	.8750" (7/8)	.1980"
GP-0156-2000-G	.1562" (5/32)	2.0000" (2)	.1630"	.1040"	.0640"	1.0000" (1)	.1980"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	+.005/-.005"	+.005/-.005"		
GP-0187-0375-G	.1875" (3/16)	.3750" (3/8)	.1980"	.1250" (1/8)	.0640"	.1875" (3/16)	.2600"
GP-0187-0500-G	.1875" (3/16)	.5000" (1/2)	.1980"	.1250" (1/8)	.0640"	.2500" (1/4)	.2600"
GP-0187-0625-G	.1875" (3/16)	.6250" (5/8)	.1980"	.1250" (1/8)	.0640"	.3125" (5/16)	.2600"
GP-0187-0750-G	.1875" (3/16)	.7500" (3/4)	.1980"	.1250" (1/8)	.0640"	.3750" (3/8)	.2600"
GP-0187-0875-G	.1875" (3/16)	.8750" (7/8)	.1980"	.1250" (1/8)	.0640"	.4375" (7/16)	.2600"
GP-0187-1000-G	.1875" (3/16)	1.0000" (1)	.1980"	.1250" (1/8)	.0640"	.5000" (1/2)	.2600"
GP-0187-1250-G	.1875" (3/16)	1.2500" (1-1/4)	.1970"	.1250" (1/8)	.0640"	.6250" (5/8)	.2600"
GP-0187-1500-G	.1875" (3/16)	1.5000" (1-1/2)	.1970"	.1250" (1/8)	.0640"	.7500" (3/4)	.2600"
GP-0187-1750-G	.1875" (3/16)	1.7500" (1-3/4)	.1970"	.1250" (1/8)	.0640"	.8750" (7/8)	.2600"
GP-0187-2000-G	.1875" (3/16)	2.0000" (2)	.1960"	.1250" (1/8)	.0640"	1.0000" (1)	.2600"
GP-0187-2250-G	.1875" (3/16)	2.2500" (2-1/4)	.1960"	.1250" (1/8)	.0640"	1.1250" (1-1/8)	.2600"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	+.005/-.005"	+.005/-.005"		
GP-0218-0500-G	.2188" (7/32)	.5000" (1/2)	.2300"	.1460"	.0960"	.2500" (1/4)	.2910"
GP-0218-0625-G	.2188" (7/32)	.6250" (5/8)	.2300"	.1460"	.0960"	.3125" (5/16)	.2910"
GP-0218-0750-G	.2188" (7/32)	.7500" (3/4)	.2300"	.1460"	.0960"	.3750" (3/8)	.2910"
GP-0218-0875-G	.2188" (7/32)	.8750" (7/8)	.2300"	.1460"	.0960"	.4375" (7/16)	.2910"
GP-0218-1000-G	.2188" (7/32)	1.0000" (1)	.2300"	.1460"	.0960"	.5000" (1/2)	.2910"
GP-0218-1250-G	.2188" (7/32)	1.2500" (1-1/4)	.2300"	.1460"	.0960"	.6250" (5/8)	.2910"
GP-0218-1500-G	.2188" (7/32)	1.5000" (1-1/2)	.2290"	.1460"	.0960"	.7500" (3/4)	.2910"
GP-0218-1750-G	.2188" (7/32)	1.7500" (1-3/4)	.2290"	.1460"	.0960"	.8750" (7/8)	.2910"
GP-0218-2000-G	.2188" (7/32)	2.0000" (2)	.2290"	.1460"	.0960"	1.0000" (1)	.2910"
GP-0218-2250-G	.2188" (7/32)	2.2500" (2-1/4)	.2290"	.1460"	.0960"	1.1250" (1-1/8)	.2910"
GP-0218-2500-G	.2188" (7/32)	2.5000" (2-1/2)	.2290"	.1460"	.0960"	1.2500" (1/4)	.2910"
GP-0218-2750-G	.2188" (7/32)	2.7500" (2-3/4)	.2290"	.1460"	.0960"	1.3750" (3/8)	.2910"
GP-0218-3000-G	.2188" (7/32)	3.0000" (3)	.2290"	.1460"	.0960"	1.5000" (1/2)	.2910"
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	+.005/-.005"	+.005/-.005"		
GP-0250-0500-G	.2500" (1/4)	.5000" (1/2)	.2630"	.1670"	.0960"	.2500" (1/4)	.3220"
GP-0250-0625-G	.2500" (1/4)	.6250" (5/8)	.2630"	.1670"	.0960"	.3125" (5/16)	.3220"
GP-0250-0750-G	.2500" (1/4)	.7500" (3/4)	.2630"	.1670"	.0960"	.3750" (3/8)	.3220"
GP-0250-0875-G	.2500" (1/4)	.8750" (7/8)	.2630"	.1670"	.0960"	.4375" (7/16)	.3220"
GP-0250-1000-G	.2500" (1/4)	1.0000" (1)	.2630"	.1670"	.0960"	.5000" (1/2)	.3220"
GP-0250-1250-G	.2500" (1/4)	1.2500" (1-1/4)	.2630"	.1670"	.0960"	.6250" (5/8)	.3220"
GP-0250-1500-G	.2500" (1/4)	1.5000" (1-1/2)	.2620"	.1670"	.0960"	.7500" (3/4)	.3220"
GP-0250-1750-G	.2500" (1/4)	1.7500" (1-3/4)	.2620"	.1670"	.0960"	.8750" (7/8)	.3220"
GP-0250-2000-G	.2500" (1/4)	2.0000" (2)	.2620"	.1670"	.0960"	1.0000" (1)	.3220"
GP-0250-2250-G	.2500" (1/4)	2.2500" (2-1/4)	.2620"	.1670"	.0960"	1.1250" (1-1/8)	.3220"
GP-0250-2500-G	.2500" (1/4)	2.5000" (2-1/2)	.2610"	.1670"	.0960"	1.2500" (1/4)	.3220"
GP-0250-2750-G	.2500" (1/4)	2.7500" (2-3/4)	.2610"	.1670"	.0960"	1.3750" (3/8)	.3220"
GP-0250-3000-G	.2500" (1/4)	3.0000" (3)	.2610"	.1670"	.0960"	1.5000" (1/2)	.3220"

*STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES

(A) OUTSIDE DIAMETER	.0625" (1/16)	.0937" (3/32)	.1250" (1/8)	.1562" (5/32)	.1875" (3/16)	.2187" (7/32)	.025" (1/4)	.3125" (5/16)	.3750" (3/8)	.4375" (7/16)	.500" (1/2)
(B) EXPANDED DIAMETER TOLERANCE REDUCED BY:	.002"	.002"	.002"	.002"	.003"	.003"	.003"	.004"	.005"	.006"	.006"

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TYPE G

ASME B18.8.2

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE DIAMETER	(G) GROOVE WIDTH	GROOVE LENGTH	END RADIUS
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	+.005/-.005"	+.005/-.005"		
GP-0312-0625-G	.3125" (5/16)	.6250" (5/8)	.3290"	.2090"	.1270"	.3125" (5/16)	.3850"
GP-0312-0750-G	.3125" (5/16)	.7500" (3/4)	.3290"	.2090"	.1270"	.3750" (3/8)	.3850"
GP-0312-0875-G	.3125" (5/16)	.8750" (7/8)	.3290"	.2090"	.1270"	.4375" (7/16)	.3850"
GP-0312-1000-G	.3125" (5/16)	1.0000" (1)	.3290"	.2090"	.1270"	.5000" (1/2)	.3850"
GP-0312-1250-G	.3125" (5/16)	1.2500" (1-1/4)	.3290"	.2090"	.1270"	.6250" (5/8)	.3850"
GP-0312-1500-G	.3125" (5/16)	1.5000" (1-1/2)	.3290"	.2090"	.1270"	.7500" (3/4)	.3850"
GP-0312-1750-G	.3125" (5/16)	1.7500" (1-3/4)	.3280"	.2090"	.1270"	.8750" (7/8)	.3850"
GP-0312-2000-G	.3125" (5/16)	2.0000" (2)	.3280"	.2090"	.1270"	1.0000" (1)	.3850"
GP-0312-2250-G	.3125" (5/16)	2.2500" (2-1/4)	.3280"	.2090"	.1270"	1.1250" (1-1/8)	.3850"
GP-0312-2500-G	.3125" (5/16)	2.5000" (2-1/2)	.3270"	.2090"	.1270"	1.2500" (1/4)	.3850"
GP-0312-2750-G	.3125" (5/16)	2.7500" (2-3/4)	.3270"	.2090"	.1270"	1.3750" (3/8)	.3850"
GP-0312-3000-G	.3125" (5/16)	3.0000" (3)	.3270"	.2090"	.1270"	1.5000" (1/2)	.3850"
GP-0312-3250-G	.3125" (5/16)	3.2500" (3-1/4)	.3270"	.2090"	.1270"	1.6250" (5/8)	.3850"
GP-0312-3500-G	.3125" (5/16)	3.5000" (3-1/2)	.3270"	.2090"	.1270"	1.7500" (3/4)	.3850"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"	+.005/-.005"	+.005/-.005"		
GP-0375-0750-G	.3750" (3/8)	.7500" (3/4)	.3940"	.2500" (1/4)	.1270"	.3750" (3/8)	.4790"
GP-0375-0875-G	.3750" (3/8)	.8750" (7/8)	.3940"	.2500" (1/4)	.1270"	.4375" (7/16)	.4790"
GP-0375-1000-G	.3750" (3/8)	1.0000" (1)	.3940"	.2500" (1/4)	.1270"	.5000" (1/2)	.4790"
GP-0375-1250-G	.3750" (3/8)	1.2500" (1-1/4)	.3940"	.2500" (1/4)	.1270"	.6250" (5/8)	.4790"
GP-0375-1500-G	.3750" (3/8)	1.5000" (1-1/2)	.3940"	.2500" (1/4)	.1270"	.7500" (3/4)	.4790"
GP-0375-1750-G	.3750" (3/8)	1.7500" (1-3/4)	.3930"	.2500" (1/4)	.1270"	.8750" (7/8)	.4790"
GP-0375-2000-G	.3750" (3/8)	2.0000" (2)	.3930"	.2500" (1/4)	.1270"	1.0000" (1)	.4790"
GP-0375-2250-G	.3750" (3/8)	2.2500" (2-1/4)	.3930"	.2500" (1/4)	.1270"	1.1250" (1-1/8)	.4790"
GP-0375-2500-G	.3750" (3/8)	2.5000" (2-1/2)	.3930"	.2500" (1/4)	.1270"	1.2500" (1/4)	.4790"
GP-0375-2750-G	.3750" (3/8)	2.7500" (2-3/4)	.3930"	.2500" (1/4)	.1270"	1.3750" (3/8)	.4790"
GP-0375-3000-G	.3750" (3/8)	3.0000" (3)	.3920"	.2500" (1/4)	.1270"	1.5000" (1/2)	.4790"
GP-0375-3250-G	.3750" (3/8)	3.2500" (3-1/4)	.3920"	.2500" (1/4)	.1270"	1.6250" (5/8)	.4790"
GP-0375-3500-G	.3750" (3/8)	3.5000" (3-1/2)	.3910"	.2500" (1/4)	.1270"	1.7500" (3/4)	.4790"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"	+.005/-.005"	+.005/-.005"		
GP-0437-1000-G	.4375" (7/16)	1.0000" (1)	.4590"	.2930"	.1900"	.5000" (1/2)	.5410"
GP-0437-1250-G	.4375" (7/16)	1.2500" (1-1/4)	.4590"	.2930"	.1900"	.6250" (5/8)	.5410"
GP-0437-1500-G	.4375" (7/16)	1.5000" (1-1/2)	.4590"	.2930"	.1900"	.7500" (3/4)	.5410"
GP-0437-1750-G	.4375" (7/16)	1.7500" (1-3/4)	.4590"	.2930"	.1900"	.8750" (7/8)	.5410"
GP-0437-2000-G	.4375" (7/16)	2.0000" (2)	.4580"	.2930"	.1900"	1.0000" (1)	.5410"
GP-0437-2250-G	.4375" (7/16)	2.2500" (2-1/4)	.4580"	.2930"	.1900"	1.1250" (1-1/8)	.5410"
GP-0437-2500-G	.4375" (7/16)	2.5000" (2-1/2)	.4580"	.2930"	.1900"	1.2500" (1/4)	.5410"
GP-0437-2750-G	.4375" (7/16)	2.7500" (2-3/4)	.4580"	.2930"	.1900"	1.3750" (3/8)	.5410"
GP-0437-3000-G	.4375" (7/16)	3.0000" (3)	.4570"	.2930"	.1900"	1.5000" (1/2)	.5410"
GP-0437-3250-G	.4375" (7/16)	3.2500" (3-1/4)	.4570"	.2930"	.1900"	1.6250" (5/8)	.5410"
GP-0437-3500-G	.4375" (7/16)	3.5000" (3-1/2)	.4560"	.2930"	.1900"	1.7500" (3/4)	.5410"
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"	+.005/-.005"	+.005/-.005"		
GP-0500-1250-G	.5000" (1/2)	1.2500" (1-1/4)	.5250"	.3120"	.1900"	.6250" (5/8)	.6350"
GP-0500-1500-G	.5000" (1/2)	1.5000" (1-1/2)	.5250"	.3120"	.1900"	.7500" (3/4)	.6350"
GP-0500-1750-G	.5000" (1/2)	1.7500" (1-3/4)	.5250"	.3120"	.1900"	.8750" (7/8)	.6350"
GP-0500-2000-G	.5000" (1/2)	2.0000" (2)	.5250"	.3120"	.1900"	1.0000" (1)	.6350"
GP-0500-2250-G	.5000" (1/2)	2.2500" (2-1/4)	.5240"	.3120"	.1900"	1.1250" (1-1/8)	.6350"
GP-0500-2500-G	.5000" (1/2)	2.5000" (2-1/2)	.5240"	.3120"	.1900"	1.2500" (1/4)	.6350"
GP-0500-2750-G	.5000" (1/2)	2.7500" (2-3/4)	.5240"	.3120"	.1900"	1.3750" (3/8)	.6350"
GP-0500-3000-G	.5000" (1/2)	3.0000" (3)	.5230"	.3120"	.1900"	1.5000" (1/2)	.6350"
GP-0500-3250-G	.5000" (1/2)	3.2500" (3-1/4)	.5230"	.3120"	.1900"	1.6250" (5/8)	.6350"
GP-0500-3500-G	.5000" (1/2)	3.5000" (3-1/2)	.5220"	.3120"	.1900"	1.7500" (3/4)	.6350"

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(SIMILAR TO TYPE G)

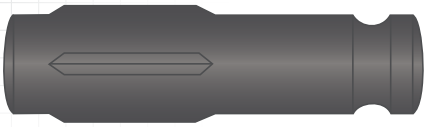
DIN 1469

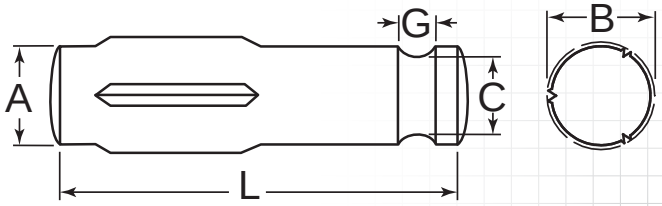
DESCRIPTION

A short pilot and three parallel half-length grooves, with an annular groove at the opposite end. Pilot eases installation. Annular groove works as a spring anchor. DIN 1469 is not interchangeable with ASME Type G.

HOW TO IDENTIFY

1. Verify three half-length parallel grooves and a pilot, with a grooved neck (G) at opposite end.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1469 identified by "-69" at end of item number.

GPM = LOW CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
2.000 mm (A) Outside Diameter: +0.000/-0.025 mm	(B) Expanded Diameter: 2.150 mm +0.050/-0.000 mm (C) Groove Diameter: 1.000 mm (G) Groove Width: 0.800 mm +0.125/-0.125 mm	
GPM-020-006-69	6.000 mm +0.024/-0.024 mm	2.300 mm
GPM-020-008-69	8.000 mm +0.029/-0.029 mm	3.300 mm
GPM-020-010-69	10.000 mm +0.029/-0.029 mm	4.300 mm
GPM-020-012-69	12.000 mm +0.035/-0.035 mm	5.300 mm
3.000 mm (A) Outside Diameter: +0.000/-0.025 mm	(B) Expanded Diameter: 3.200 mm +0.050/-0.050 mm (C) Groove Diameter: 1.500 mm (G) Groove Width: 1.000 mm +0.125/-0.125 mm	
GPM-030-006-69	6.000 mm +0.024/-0.024 mm	2.000 mm
GPM-030-008-69	8.000 mm +0.029/-0.029 mm	3.000 mm
GPM-030-010-69	10.000 mm +0.029/-0.029 mm	4.000 mm
GPM-030-012-69	12.000 mm +0.035/-0.035 mm	5.000 mm
GPM-030-016-69	16.000 mm +0.035/-0.035 mm	7.000 mm
GPM-030-020-69	20.000 mm +0.042/-0.042 mm	9.000 mm
GPM-030-030-69	30.000 mm +0.042/-0.042 mm	14.000 mm
4.000 mm (A) Outside Diameter: +0.000/-0.060 mm	(B) Expanded Diameter: 4.250 mm +0.050/-0.050 mm (C) Groove Diameter: 2.400 mm (G) Groove Width: 1.400 mm +0.125/-0.125 mm	
GPM-040-010-69	10.000 mm +0.029/-0.029 mm	3.500 mm
GPM-040-012-69	12.000 mm +0.035/-0.035 mm	4.500 mm
GPM-040-016-69	16.000 mm +0.035/-0.035 mm	6.500 mm
GPM-040-020-69	20.000 mm +0.042/-0.042 mm	8.500 mm
GPM-040-030-69	30.000 mm +0.042/-0.042 mm	13.500 mm
GPM-040-040-69	40.000 mm +0.050/-0.050 mm	18.500 mm
5.000 mm (A) Outside Diameter: +0.000/-0.060 mm	(B) Expanded Diameter: 5.250 mm +0.050/-0.050 mm (C) Groove Diameter: 2.800 mm (G) Groove Width: 1.600 mm +0.125/-0.125 mm	
GPM-050-010-69	10.000 mm +0.029/-0.029 mm	3.500 mm
GPM-050-012-69	12.000 mm +0.035/-0.035 mm	4.500 mm
GPM-050-016-69	16.000 mm +0.035/-0.035 mm	6.500 mm
GPM-050-020-69	20.000 mm +0.042/-0.042 mm	8.500 mm
GPM-050-030-69	30.000 mm +0.042/-0.042 mm	13.500 mm
GPM-050-040-69	40.000 mm +0.050/-0.050 mm	18.500 mm
GPM-050-045-69	45.000 mm +0.050/-0.050 mm	21.000 mm
GPM-050-050-69	50.000 mm +0.050/-0.050 mm	23.500 mm
6.000 mm (A) Outside Diameter: +0.000/-0.060 mm	(B) Expanded Diameter: 6.300 mm +0.050/-0.050 mm (C) Groove Diameter: 3.800 mm (G) Groove Width: 1.600 mm +0.125/-0.125 mm	
GPM-060-016-69	16.000 mm +0.035/-0.035 mm	6.000 mm
GPM-060-020-69	20.000 mm +0.042/-0.042 mm	8.000 mm
GPM-060-030-69	30.000 mm +0.042/-0.042 mm	13.000 mm
GPM-060-040-69	40.000 mm +0.050/-0.050 mm	18.000 mm
GPM-060-045-69	45.000 mm +0.050/-0.050 mm	20.500 mm
GPM-060-050-69	50.000 mm +0.050/-0.050 mm	23.000 mm
8.000 mm (A) Outside Diameter: +0.000/-0.060 mm	(B) Expanded Diameter: 8.300 mm +0.050/-0.050 mm (C) Groove Diameter: 5.000 mm (G) Groove Width: 2.000 mm +0.125/-0.125 mm	
GPM-080-016-69	16.000 mm +0.035/-0.035 mm	6.000 mm
GPM-080-020-69	20.000 mm +0.042/-0.042 mm	8.000 mm
GPM-080-030-69	30.000 mm +0.042/-0.042 mm	13.000 mm
GPM-080-040-69	40.000 mm +0.050/-0.050 mm	18.000 mm
GPM-080-045-69	45.000 mm +0.050/-0.050 mm	20.500 mm
GPM-080-050-69	50.000 mm +0.050/-0.050 mm	23.000 mm

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TYPE H

ASME B18.8.2

DESCRIPTION

A short pilot and three parallel half-length grooves at one end. Pilot eases installation. Smooth end is ideal for use as a stop, hinge, pivot, or key.

HOW TO IDENTIFY

1. Verify three half-length parallel grooves at one end.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.

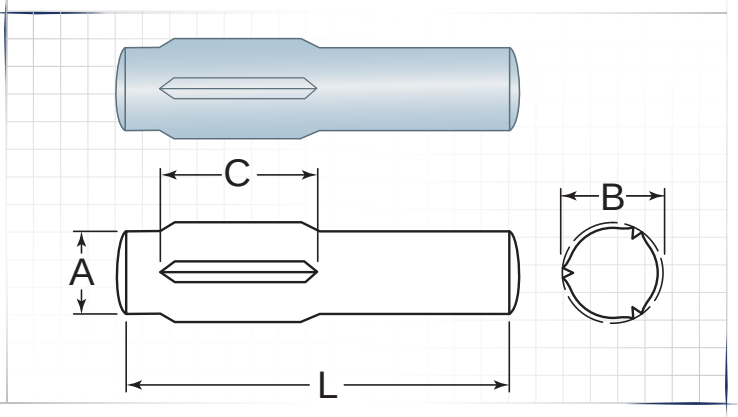
PREFIX MATERIAL/FINISH

Type H identified by "-H" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

*SEE STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES ON PAGE 195



ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH
	+.0000/-.0015"	+.010/-.010"	+.0015/-.0015"	
PREFIX-0062-0250-H	.0625" (1/16)	.2500" (1/4)	.0680"	.1250" (1/8)
PREFIX-0062-0375-H	.0625" (1/16)	.3750" (3/8)	.0680"	.1875" (3/16)
PREFIX-0062-0500-H	.0625" (1/16)	.5000" (1/2)	.0680"	.2500" (1/4)
PREFIX-0062-0625-H	.0625" (1/16)	.6250" (5/8)	.0680"	.3125" (5/16)
PREFIX-0062-0750-H	.0625" (1/16)	.7500" (3/4)	.0670"	.3750" (3/8)
PREFIX-0062-0875-H	.0625" (1/16)	.8750" (7/8)	.0670"	.4375" (7/16)
PREFIX-0062-1000-H	.0625" (1/16)	1.0000" (1)	.0670"	.5000" (1/2)
	+.0000/-.0015"	+.010/-.010"	+.0015/-.0015"	
PREFIX-0093-0250-H	.0938" (3/32)	.2500" (1/4)	.1010"	.1250" (1/8)
PREFIX-0093-0375-H	.0938" (3/32)	.3750" (3/8)	.1010"	.1875" (3/16)
PREFIX-0093-0437-H	.0938" (3/32)	.4375" (7/16)	.1010"	.2188" (7/32)
PREFIX-0093-0500-H	.0938" (3/32)	.5000" (1/2)	.1010"	.2500" (1/4)
PREFIX-0093-0625-H	.0938" (3/32)	.6250" (5/8)	.1010"	.3125" (5/16)
PREFIX-0093-0687-H	.0938" (3/32)	.6875" (11/16)	.1000"	.3437" (11/32)
PREFIX-0093-0750-H	.0938" (3/32)	.7500" (3/4)	.1000"	.3750" (3/8)
PREFIX-0093-0875-H	.0938" (3/32)	.8750" (7/8)	.1000"	.4375" (7/16)
PREFIX-0093-1000-H	.0938" (3/32)	1.0000" (1)	.1000"	.5000" (1/2)
PREFIX-0093-1250-H	.0938" (3/32)	1.2500" (1-1/4)	.1000"	.6250" (5/8)
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"	
PREFIX-0125-0250-H	.1250" (1/8)	.2500" (1/4)	.1340"	.1250" (1/8)
PREFIX-0125-0312-H	.1250" (1/8)	.3125" (5/16)	.1340"	.1563" (5/32)
PREFIX-0125-0375-H	.1250" (1/8)	.3750" (3/8)	.1340"	.1875" (3/16)
PREFIX-0125-0500-H	.1250" (1/8)	.5000" (1/2)	.1340"	.2500" (1/4)
PREFIX-0125-0562-H	.1250" (1/8)	.5625" (9/16)	.1340"	.2812" (9/32)
PREFIX-0125-0625-H	.1250" (1/8)	.6250" (5/8)	.1340"	.3125" (5/16)
PREFIX-0125-0750-H	.1250" (1/8)	.7500" (3/4)	.1340"	.3750" (3/8)
PREFIX-0125-0875-H	.1250" (1/8)	.8750" (7/8)	.1330"	.4375" (7/16)
PREFIX-0125-1000-H	.1250" (1/8)	1.0000" (1)	.1330"	.5000" (1/2)
PREFIX-0125-1250-H	.1250" (1/8)	1.2500" (1-1/4)	.1320"	.6250" (5/8)
PREFIX-0125-1500-H	.1250" (1/8)	1.5000" (1-1/2)	.1320"	.7500" (3/4)

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ASME B18.8.2

TYPE H

ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH
	+.0000/-.0020"	+.010/-.010"	+.0020/-.0020"	
PREFIX-0156-0375-H	.1563" (5/32)	.3750" (3/8)	.1660"	.1875" (3/16)
PREFIX-0156-0500-H	.1563" (5/32)	.5000" (1/2)	.1660"	.2500" (1/4)
PREFIX-0156-0625-H	.1563" (5/32)	.6250" (5/8)	.1660"	.3125" (5/16)
PREFIX-0156-0750-H	.1563" (5/32)	.7500" (3/4)	.1660"	.3750" (3/8)
PREFIX-0156-0875-H	.1563" (5/32)	.8750" (7/8)	.1650"	.4375" (7/16)
PREFIX-0156-1000-H	.1563" (5/32)	1.0000" (1)	.1650"	.5000" (1/2)
PREFIX-0156-1250-H	.1563" (5/32)	1.2500" (1-1/4)	.1640"	.6250" (5/8)
PREFIX-0156-1500-H	.1563" (5/32)	1.5000" (1-1/2)	.1640"	.7500" (3/4)
PREFIX-0156-1750-H	.1563" (5/32)	1.7500" (1-3/4)	.1630"	.8750" (7/8)
PREFIX-0156-2000-H	.1563" (5/32)	2.0000" (2)	.1630"	1.0000" (1)
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	
PREFIX-0187-0375-H	.1875" (3/16)	.3750" (3/8)	.1980"	.1875" (3/16)
PREFIX-0187-0500-H	.1875" (3/16)	.5000" (1/2)	.1980"	.2500" (1/4)
PREFIX-0187-0625-H	.1875" (3/16)	.6250" (5/8)	.1980"	.3125" (5/16)
PREFIX-0187-0750-H	.1875" (3/16)	.7500" (3/4)	.1980"	.3750" (3/8)
PREFIX-0187-0875-H	.1875" (3/16)	.8750" (7/8)	.1980"	.4375" (7/16)
PREFIX-0187-1000-H	.1875" (3/16)	1.0000" (1)	.1980"	.5000" (1/2)
PREFIX-0187-1250-H	.1875" (3/16)	1.2500" (1-1/4)	.1970"	.6250" (5/8)
PREFIX-0187-1500-H	.1875" (3/16)	1.5000" (1-1/2)	.1970"	.7500" (3/4)
PREFIX-0187-1750-H	.1875" (3/16)	1.7500" (1-3/4)	.1970"	.8750" (7/8)
PREFIX-0187-2000-H	.1875" (3/16)	2.0000" (2)	.1960"	1.0000" (1)
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	
PREFIX-0218-0500-H	.2188" (7/32)	.5000" (1/2)	.2300"	.2500" (1/4)
PREFIX-0218-0625-H	.2188" (7/32)	.6250" (5/8)	.2300"	.3125" (5/16)
PREFIX-0218-0750-H	.2188" (7/32)	.7500" (3/4)	.2300"	.3750" (3/8)
PREFIX-0218-0875-H	.2188" (7/32)	.8750" (7/8)	.2300"	.4375" (7/16)
PREFIX-0218-1000-H	.2188" (7/32)	1.0000" (1)	.2300"	.5000" (1/2)
PREFIX-0218-1250-H	.2188" (7/32)	1.2500" (1-1/4)	.2300"	.6250" (5/8)
PREFIX-0218-1500-H	.2188" (7/32)	1.5000" (1-1/2)	.2290"	.7500" (3/4)
PREFIX-0218-1750-H	.2188" (7/32)	1.7500" (1-3/4)	.2290"	.8750" (7/8)
PREFIX-0218-2000-H	.2188" (7/32)	2.0000" (2)	.2290"	1.0000" (1)
PREFIX-0218-2250-H	.2188" (7/32)	2.2500" (2-1/4)	.2290"	1.1250" (1-1/8)
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	
PREFIX-0250-0500-H	.2500" (1/4)	.5000" (1/2)	.2630"	.2500" (1/4)
PREFIX-0250-0625-H	.2500" (1/4)	.6250" (5/8)	.2630"	.3125" (5/16)
PREFIX-0250-0750-H	.2500" (1/4)	.7500" (3/4)	.2630"	.3750" (3/8)
PREFIX-0250-0875-H	.2500" (1/4)	.8750" (7/8)	.2630"	.4375" (7/16)
PREFIX-0250-1000-H	.2500" (1/4)	1.0000" (1)	.2630"	.5000" (1/2)
PREFIX-0250-1250-H	.2500" (1/4)	1.2500" (1-1/4)	.2630"	.6250" (5/8)
PREFIX-0250-1500-H	.2500" (1/4)	1.5000" (1-1/2)	.2620"	.7500" (3/4)
PREFIX-0250-1750-H	.2500" (1/4)	1.7500" (1-3/4)	.2620"	.8750" (7/8)
PREFIX-0250-2000-H	.2500" (1/4)	2.0000" (2)	.2620"	1.0000" (1)
PREFIX-0250-2250-H	.2500" (1/4)	2.2500" (2-1/4)	.2620"	1.1250" (1-1/8)
PREFIX-0250-2500-H	.2500" (1/4)	2.5000" (2-1/2)	.2610"	1.2500" (1-1/4)
PREFIX-0250-2750-H	.2500" (1/4)	2.7500" (2-3/4)	.2610"	1.3750" (1-3/8)
	+.0000/-.0020"	+.010/-.010"	+.0025/-.0025"	
PREFIX-0312-0625-H	.3125" (5/16)	.6250" (5/8)	.3290"	.3125" (5/16)
PREFIX-0312-0750-H	.3125" (5/16)	.7500" (3/4)	.3290"	.3750" (3/8)
PREFIX-0312-0875-H	.3125" (5/16)	.8750" (7/8)	.3290"	.4375" (7/16)
PREFIX-0312-1000-H	.3125" (5/16)	1.0000" (1)	.3290"	.5000" (1/2)
PREFIX-0312-1250-H	.3125" (5/16)	1.2500" (1-1/4)	.3290"	.6250" (5/8)
PREFIX-0312-1500-H	.3125" (5/16)	1.5000" (1-1/2)	.3290"	.7500" (3/4)

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TYPE H

ASME B18.8.2

PREFIX	MATERIAL/FINISH

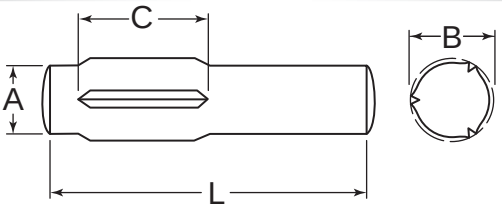
Type H identified by "-H" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR

GPA = ALLOY STEEL, PLAIN*

GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.



ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER	(C) GROOVE LENGTH
PREFIX-0312-1750-H	.3125" (5/16)	1.7500" (1-3/4)	.3280"	.8750" (7/8)
PREFIX-0312-2000-H	.3125" (5/16)	2.0000" (2)	.3280"	1.0000" (1)
PREFIX-0312-2250-H	.3125" (5/16)	2.2500" (2-1/4)	.3280"	1.1250" (1-1/8)
PREFIX-0312-2500-H	.3125" (5/16)	2.5000" (2-1/2)	.3270"	1.2500" (1-1/4)
PREFIX-0312-2750-H	.3125" (5/16)	2.7500" (2-3/4)	.3270"	1.3750" (1-3/8)
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"	
PREFIX-0375-0750-H	.3750" (3/8)	.7500" (3/4)	.3940"	.3750" (3/8)
PREFIX-0375-0875-H	.3750" (3/8)	.8750" (7/8)	.3940"	.4375" (7/16)
PREFIX-0375-1000-H	.3750" (3/8)	1.0000" (1)	.3940"	.5000" (1/2)
PREFIX-0375-1250-H	.3750" (3/8)	1.2500" (1-1/4)	.3940"	.6250" (5/8)
PREFIX-0375-1375-H	.3750" (3/8)	1.3750" (1-3/8)	.3940"	.6875" (11/16)
PREFIX-0375-1500-H	.3750" (3/8)	1.5000" (1-1/2)	.3940"	.7500" (3/4)
PREFIX-0375-1750-H	.3750" (3/8)	1.7500" (1-3/4)	.3930"	.8750" (7/8)
PREFIX-0375-2000-H	.3750" (3/8)	2.0000" (2)	.3930"	1.0000" (1)
PREFIX-0375-2250-H	.3750" (3/8)	2.2500" (2-1/4)	.3930"	1.1250" (1-1/8)
PREFIX-0375-2500-H	.3750" (3/8)	2.5000" (2-1/2)	.3930"	1.2500" (1-1/4)
PREFIX-0375-2750-H	.3750" (3/8)	2.7500" (2-3/4)	.3930"	1.3750" (1-3/8)
PREFIX-0375-3000-H	.3750" (3/8)	3.0000" (3)	.3920"	1.5000" (1-1/2)
PREFIX-0375-3250-H	.3750" (3/8)	3.2500" (3-1/4)	.3920"	1.6250" (1-5/8)
PREFIX-0375-3500-H	.3750" (3/8)	3.5000" (3-1/2)	.3910"	1.7500" (1-3/4)
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"	
PREFIX-0437-0875-H	.4375" (7/16)	.8750" (7/8)	.4590"	.4375" (7/16)
PREFIX-0437-1000-H	.4375" (7/16)	1.0000" (1)	.4590"	.5000" (1/2)
PREFIX-0437-1250-H	.4375" (7/16)	1.2500" (1-1/4)	.4590"	.6250" (5/8)
PREFIX-0437-1500-H	.4375" (7/16)	1.5000" (1-1/2)	.4590"	.7500" (3/4)
PREFIX-0437-1750-H	.4375" (7/16)	1.7500" (1-3/4)	.4590"	.8750" (7/8)
PREFIX-0437-2000-H	.4375" (7/16)	2.0000" (2)	.4580"	1.0000" (1)
PREFIX-0437-2250-H	.4375" (7/16)	2.2500" (2-1/4)	.4580"	1.1250" (1-1/8)
PREFIX-0437-2500-H	.4375" (7/16)	2.5000" (2-1/2)	.4580"	1.2500" (1-1/4)
PREFIX-0437-2750-H	.4375" (7/16)	2.7500" (2-3/4)	.4580"	1.3750" (1-3/8)
PREFIX-0437-3000-H	.4375" (7/16)	3.0000" (3)	.4570"	1.5000" (1-1/2)
PREFIX-0437-3250-H	.4375" (7/16)	3.2500" (3-1/4)	.4570"	1.6250" (1-5/8)
PREFIX-0437-3500-H	.4375" (7/16)	3.5000" (3-1/2)	.4560"	1.7500" (1-3/4)
	+.0000/-.0020"	+.010/-.010"	+.0030/-.0030"	
PREFIX-0500-1000-H	.5000" (1/2)	1.0000" (1)	.5250"	.5000" (1/2)
PREFIX-0500-1250-H	.5000" (1/2)	1.2500" (1-1/4)	.5250"	.6250" (5/8)
PREFIX-0500-1500-H	.5000" (1/2)	1.5000" (1-1/2)	.5250"	.7500" (3/4)
PREFIX-0500-1750-H	.5000" (1/2)	1.7500" (1-3/4)	.5250"	.8750" (7/8)
PREFIX-0500-2000-H	.5000" (1/2)	2.0000" (2)	.5250"	1.0000" (1)
PREFIX-0500-2250-H	.5000" (1/2)	2.2500" (2-1/4)	.5240"	1.1250" (1-1/8)
PREFIX-0500-2500-H	.5000" (1/2)	2.5000" (2-1/2)	.5240"	1.2500" (1-1/4)
PREFIX-0500-2750-H	.5000" (1/2)	2.7500" (2-3/4)	.5240"	1.3750" (1-3/8)
PREFIX-0500-3000-H	.5000" (1/2)	3.0000" (3)	.5230"	1.5000" (1-1/2)
PREFIX-0500-3250-H	.5000" (1/2)	3.2500" (3-1/4)	.5230"	1.6250" (1-5/8)
PREFIX-0500-3500-H	.5000" (1/2)	3.5000" (3-1/2)	.5220"	1.7500" (1-3/4)

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

ASME B18.8.2

TYPE U

DESCRIPTION

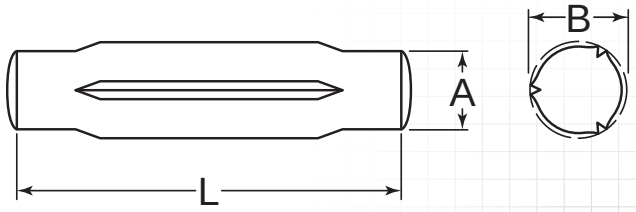
Three full-length grooves provide maximum holding power on entire pin length. A short pilot on each end means no orientation is needed during installation. Ideal for automated assembly.

HOW TO IDENTIFY

1. Verify three full-length parallel grooves with a short pilot on each end.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.



*SEE STAINLESS STEEL AND OTHER SPECIAL MATERIAL TOLERANCES ON PAGE 195



PREFIX MATERIAL/FINISH

Type U identified by "-U" at end of item number.

GP = LOW CARBON STEEL, ZINC CLEAR
GPA = ALLOY STEEL, PLAIN*
GPS = 300 SERIES STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER

1/16 (.0625")

(A) Outside Diameter: +.000/-.0015"

	+.010/-.010"	+.0015/-.0015"
PREFIX-0062-0250-U	.2500" (1/4)	.0680"
PREFIX-0062-0375-U	.3750" (3/8)	.0680"
PREFIX-0062-0500-U	.5000" (1/2)	.0680"
PREFIX-0062-0625-U	.6250" (5/8)	.0680"
PREFIX-0062-0750-U	.7500" (3/4)	.0670"
PREFIX-0062-0875-U	.8750" (7/8)	.0670"
PREFIX-0062-1000-U	1.0000" (1)	.0670"

3/32 (.0938")

(A) Outside Diameter: +.000/-.0015"

	+.010/-.010"	+.0020/-.0020"
PREFIX-0093-0250-U	.2500" (1/4)	.1010"
PREFIX-0093-0375-U	.3750" (3/8)	.1010"
PREFIX-0093-0437-U	.4375" (7/16)	.1010"
PREFIX-0093-0500-U	.5000" (1/2)	.1010"
PREFIX-0093-0625-U	.6250" (5/8)	.1010"
PREFIX-0093-0687-U	.6875" (11/16)	.1000"
PREFIX-0093-0750-U	.7500" (3/4)	.1000"
PREFIX-0093-0875-U	.8750" (7/8)	.1000"
PREFIX-0093-1000-U	1.0000" (1)	.1000"
PREFIX-0093-1250-U	1.2500" (1-1/4)	.1000"

1/8 (.1250")

(A) Outside Diameter: +.000/-.0020"

	+.010/-.010"	+.0020/-.0020"
PREFIX-0125-0250-U	.2500" (1/4)	.1340"
PREFIX-0125-0375-U	.3750" (3/8)	.1340"
PREFIX-0125-0500-U	.5000" (1/2)	.1340"
PREFIX-0125-0625-U	.6250" (5/8)	.1340"
PREFIX-0125-0750-U	.7500" (3/4)	.1340"
PREFIX-0125-0875-U	.8750" (7/8)	.1330"
PREFIX-0125-1000-U	1.0000" (1)	.1330"
PREFIX-0125-1250-U	1.2500" (1-1/4)	.1320"
PREFIX-0125-1500-U	1.5000" (1-1/2)	.1320"

5/32 (.1563")

(A) Outside Diameter: +.000/-.0020"

	+.010/-.010"	+.0020/-.0020"
PREFIX-0156-0375-U	.3750" (3/8)	.1660"
PREFIX-0156-0500-U	.5000" (1/2)	.1660"
PREFIX-0156-0625-U	.6250" (5/8)	.1660"
PREFIX-0156-0750-U	.7500" (3/4)	.1660"
PREFIX-0156-0875-U	.8750" (7/8)	.1650"
PREFIX-0156-1000-U	1.0000" (1)	.1650"
PREFIX-0156-1250-U	1.2500" (1-1/4)	.1640"
PREFIX-0156-1500-U	1.5000" (1-1/2)	.1640"
PREFIX-0156-1750-U	1.7500" (1-3/4)	.1630"
PREFIX-0156-2000-U	2.0000" (2)	.1630"

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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*Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.

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TYPE U

ASME B18.8.2

ITEM NUMBER	(L) OVERALL LENGTH	(B)* EXPANDED DIAMETER
3/16 (.1875") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0025/-.0025"
PREFIX-0187-0375-U	.3750" (3/8)	.1980"
PREFIX-0187-0500-U	.5000" (1/2)	.1980"
PREFIX-0187-0625-U	.6250" (5/8)	.1980"
PREFIX-0187-0750-U	.7500" (3/4)	.1980"
PREFIX-0187-0875-U	.8750" (7/8)	.1980"
PREFIX-0187-1000-U	1.0000" (1)	.1980"
PREFIX-0187-1250-U	1.2500" (1-1/4)	.1970"
PREFIX-0187-1500-U	1.5000" (1-1/2)	.1970"
PREFIX-0187-1750-U	1.7500" (1-3/4)	.1970"
PREFIX-0187-2000-U	2.0000" (2)	.1960"
PREFIX-0187-2250-U	2.2500" (2-1/4)	.1960"
7/32 (.2188") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0025/-.0025"
PREFIX-0218-0500-U	.5000" (1/2)	.2300"
PREFIX-0218-0625-U	.6250" (5/8)	.2300"
PREFIX-0218-0750-U	.7500" (3/4)	.2300"
PREFIX-0218-0875-U	.8750" (7/8)	.2300"
PREFIX-0218-1000-U	1.0000" (1)	.2300"
PREFIX-0218-1250-U	1.2500" (1-1/4)	.2300"
PREFIX-0218-1500-U	1.5000" (1-1/2)	.2290"
PREFIX-0218-1750-U	1.7500" (1-3/4)	.2290"
PREFIX-0218-2000-U	2.0000" (2)	.2290"
PREFIX-0218-2250-U	2.2500" (2-1/4)	.2290"
1/4 (.2500") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0025/-.0025"
PREFIX-0250-0500-U	.5000" (1/2)	.2630"
PREFIX-0250-0625-U	.6250" (5/8)	.2630"
PREFIX-0250-0750-U	.7500" (3/4)	.2630"
PREFIX-0250-0875-U	.8750" (7/8)	.2630"
PREFIX-0250-1000-U	1.0000" (1)	.2630"
PREFIX-0250-1250-U	1.2500" (1-1/4)	.2630"
PREFIX-0250-1500-U	1.5000" (1-1/2)	.2620"
PREFIX-0250-1750-U	1.7500" (1-3/4)	.2620"
PREFIX-0250-2000-U	2.0000" (2)	.2620"
PREFIX-0250-2250-U	2.2500" (2-1/4)	.2620"
PREFIX-0250-2500-U	2.5000" (2-1/2)	.2610"
PREFIX-0250-2750-U	2.7500" (2-3/4)	.2610"
5/16 (.3125") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0025/-.0025"
PREFIX-0312-0625-U	.6250" (5/8)	.3290"
PREFIX-0312-0750-U	.7500" (3/4)	.3290"
PREFIX-0312-0875-U	.8750" (7/8)	.3290"
PREFIX-0312-1000-U	1.0000" (1)	.3290"
PREFIX-0312-1250-U	1.2500" (1-1/4)	.3290"
PREFIX-0312-1500-U	1.5000" (1-1/2)	.3290"
PREFIX-0312-1750-U	1.7500" (1-3/4)	.3280"
PREFIX-0312-2000-U	2.0000" (2)	.3280"
PREFIX-0312-2250-U	2.2500" (2-1/4)	.3280"
PREFIX-0312-2500-U	2.5000" (2-1/2)	.3270"
PREFIX-0312-2750-U	2.7500" (2-3/4)	.3270"
3/8 (.3750") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0030/-.0030"
PREFIX-0375-0750-U	.7500" (3/4)	.3940"
PREFIX-0375-0875-U	.8750" (7/8)	.3940"
PREFIX-0375-1000-U	1.0000" (1)	.3940"
PREFIX-0375-1250-U	1.2500" (1-1/4)	.3940"
PREFIX-0375-1500-U	1.5000" (1-1/2)	.3940"
PREFIX-0375-1750-U	1.7500" (1-3/4)	.3930"
PREFIX-0375-2000-U	2.0000" (2)	.3930"
PREFIX-0375-2250-U	2.2500" (2-1/4)	.3930"
PREFIX-0375-2500-U	2.5000" (2-1/2)	.3930"
PREFIX-0375-2750-U	2.7500" (2-3/4)	.3930"
PREFIX-0375-3000-U	3.0000" (3)	.3920"
PREFIX-0375-3250-U	3.2500" (3-1/4)	.3920"
PREFIX-0375-3500-U	3.5000" (3-1/2)	.3910"
7/16 (.4375") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0030/-.0030"
PREFIX-0437-0875-U	.8750" (7/8)	.4590"
PREFIX-0437-1000-U	1.0000" (1)	.4590"
PREFIX-0437-1250-U	1.2500" (1-1/4)	.4590"
PREFIX-0437-1500-U	1.5000" (1-1/2)	.4590"
PREFIX-0437-1750-U	1.7500" (1-3/4)	.4590"
PREFIX-0437-2000-U	2.0000" (2)	.4580"
PREFIX-0437-2250-U	2.2500" (2-1/4)	.4580"
PREFIX-0437-2500-U	2.5000" (2-1/2)	.4580"
PREFIX-0437-2750-U	2.7500" (2-3/4)	.4580"
PREFIX-0437-3000-U	3.0000" (3)	.4570"
PREFIX-0437-3250-U	3.2500" (3-1/4)	.4570"
PREFIX-0437-3500-U	3.5000" (3-1/2)	.4560"
1/2 (.5000") (A) Outside Diameter: +.000/-.0020"		
	+.010/-.010"	+.0030/-.0030"
PREFIX-0500-1000-U	1.0000" (1)	.5250"
PREFIX-0500-1250-U	1.2500" (1-1/4)	.5250"
PREFIX-0500-1500-U	1.5000" (1-1/2)	.5250"
PREFIX-0500-1750-U	1.7500" (1-3/4)	.5250"
PREFIX-0500-2000-U	2.0000" (2)	.5250"
PREFIX-0500-2250-U	2.2500" (2-1/4)	.5240"
PREFIX-0500-2500-U	2.5000" (2-1/2)	.5240"
PREFIX-0500-2750-U	2.7500" (2-3/4)	.5240"
PREFIX-0500-3000-U	3.0000" (3)	.5230"
PREFIX-0500-3250-U	3.2500" (3-1/4)	.5230"
PREFIX-0500-3500-U	3.5000" (3-1/2)	.5220"

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

DIN 1470

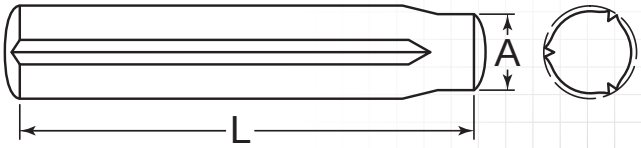
DESCRIPTION

Three full-length parallel grooves with a short pilot at one end. Ideal for applications requiring superior locking effect and ease of assembly.

HOW TO IDENTIFY

1. Verify three full-length parallel grooves with a short pilot on one end.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1470 identified by "-70" at end of item number.

GPM = CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.500 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-015-004-70	4.000 mm
GPM-015-005-70	5.000 mm
GPM-015-006-70	6.000 mm
GPM-015-008-70	8.000 mm
GPM-015-010-70	10.000 mm
GPM-015-012-70	12.000 mm
GPM-015-014-70	14.000 mm
GPM-015-016-70	16.000 mm
GPM-015-018-70	18.000 mm
GPM-015-020-70	20.000 mm

2.000 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-020-004-70	4.000 mm
GPM-020-005-70	5.000 mm
GPM-020-006-70	6.000 mm
GPM-020-008-70	8.000 mm
GPM-020-010-70	10.000 mm
GPM-020-012-70	12.000 mm
GPM-020-014-70	14.000 mm
GPM-020-016-70	16.000 mm
GPM-020-018-70	18.000 mm
GPM-020-020-70	20.000 mm
GPM-020-022-70	22.000 mm
GPM-020-024-70	24.000 mm
GPM-020-026-70	26.000 mm
GPM-020-028-70	28.000 mm
GPM-020-030-70	30.000 mm

2.500 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-025-006-70	6.000 mm
GPM-025-008-70	8.000 mm
GPM-025-010-70	10.000 mm
GPM-025-012-70	12.000 mm
GPM-025-014-70	14.000 mm
GPM-025-016-70	16.000 mm
GPM-025-018-70	18.000 mm
GPM-025-020-70	20.000 mm
GPM-025-022-70	22.000 mm
GPM-025-024-70	24.000 mm
GPM-025-026-70	26.000 mm
GPM-025-028-70	28.000 mm
GPM-025-030-70	30.000 mm

3.000 mm
(A) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.050/-0.050 mm
GPM-030-006-70	6.000 mm
GPM-030-008-70	8.000 mm
GPM-030-010-70	10.000 mm
GPM-030-012-70	12.000 mm
GPM-030-014-70	14.000 mm
GPM-030-016-70	16.000 mm
GPM-030-018-70	18.000 mm
GPM-030-020-70	20.000 mm
GPM-030-022-70	22.000 mm
GPM-030-024-70	24.000 mm
GPM-030-026-70	26.000 mm
GPM-030-028-70	28.000 mm
GPM-030-030-70	30.000 mm
GPM-030-032-70	32.000 mm
GPM-030-036-70	36.000 mm
GPM-030-040-70	40.000 mm

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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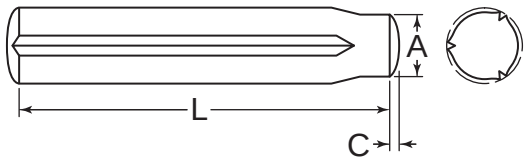
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DIN 1470

PREFIX	MATERIAL/FINISH
GPM	= CARBON STEEL, PLAIN*

DIN 1470 identified by "-70" at end of item number.



4.000 mm
(A) Outside Diameter: +0.000/-0.070 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.050/-0.050 mm
GPM-040-006-70	6.000 mm
GPM-040-008-70	8.000 mm
GPM-040-010-70	10.000 mm
GPM-040-012-70	12.000 mm
GPM-040-014-70	14.000 mm
GPM-040-016-70	16.000 mm
GPM-040-018-70	18.000 mm
GPM-040-020-70	20.000 mm
GPM-040-022-70	22.000 mm
GPM-040-024-70	24.000 mm
GPM-040-026-70	26.000 mm
GPM-040-028-70	28.000 mm
GPM-040-030-70	30.000 mm
GPM-040-032-70	32.000 mm
GPM-040-036-70	36.000 mm
GPM-040-040-70	40.000 mm
GPM-040-045-70	45.000 mm
GPM-040-050-70	50.000 mm

5.000 mm
(A) Outside Diameter: +0.000/-0.070 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.050/-0.050 mm
GPM-050-008-70	8.000 mm
GPM-050-010-70	10.000 mm
GPM-050-012-70	12.000 mm
GPM-050-014-70	14.000 mm
GPM-050-016-70	16.000 mm
GPM-050-018-70	18.000 mm
GPM-050-020-70	20.000 mm
GPM-050-022-70	22.000 mm
GPM-050-024-70	24.000 mm
GPM-050-026-70	26.000 mm
GPM-050-028-70	28.000 mm
GPM-050-030-70	30.000 mm
GPM-050-032-70	32.000 mm
GPM-050-036-70	36.000 mm
GPM-050-040-70	40.000 mm
GPM-050-045-70	45.000 mm
GPM-050-050-70	50.000 mm

6.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.050/-0.050 mm
GPM-060-008-70	8.000 mm
GPM-060-010-70	10.000 mm
GPM-060-012-70	12.000 mm
GPM-060-014-70	14.000 mm
GPM-060-016-70	16.000 mm
GPM-060-018-70	18.000 mm
GPM-060-020-70	20.000 mm
GPM-060-022-70	22.000 mm
GPM-060-024-70	24.000 mm
GPM-060-026-70	26.000 mm
GPM-060-028-70	28.000 mm
GPM-060-030-70	30.000 mm
GPM-060-032-70	32.000 mm
GPM-060-036-70	36.000 mm
GPM-060-040-70	40.000 mm
GPM-060-045-70	45.000 mm
GPM-060-050-70	50.000 mm
GPM-060-055-70	55.000 mm
GPM-060-060-70	60.000 mm

8.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.050/-0.050 mm
GPM-080-010-70	10.000 mm
GPM-080-012-70	12.000 mm
GPM-080-014-70	14.000 mm
GPM-080-016-70	16.000 mm
GPM-080-018-70	18.000 mm
GPM-080-020-70	20.000 mm
GPM-080-022-70	22.000 mm
GPM-080-024-70	24.000 mm
GPM-080-026-70	26.000 mm
GPM-080-028-70	28.000 mm
GPM-080-030-70	30.000 mm
GPM-080-032-70	32.000 mm
GPM-080-036-70	36.000 mm
GPM-080-040-70	40.000 mm
GPM-080-045-70	45.000 mm
GPM-080-050-70	50.000 mm
GPM-080-055-70	55.000 mm
GPM-080-060-70	60.000 mm
GPM-080-065-70	65.000 mm
GPM-080-070-70	70.000 mm

10.000 mm
(A) Outside Diameter: +0.000/-0.090 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.050/-0.050 mm
GPM-100-014-70	14.000 mm
GPM-100-016-70	16.000 mm
GPM-100-018-70	18.000 mm
GPM-100-020-70	20.000 mm
GPM-100-022-70	22.000 mm
GPM-100-025-70	25.000 mm
GPM-100-028-70	28.000 mm
GPM-100-030-70	30.000 mm
GPM-100-032-70	32.000 mm
GPM-100-036-70	36.000 mm
GPM-100-040-70	40.000 mm
GPM-100-045-70	45.000 mm
GPM-100-050-70	50.000 mm
GPM-100-055-70	55.000 mm
GPM-100-060-70	60.000 mm
GPM-100-065-70	65.000 mm
GPM-100-070-70	70.000 mm
GPM-100-080-70	80.000 mm
GPM-100-090-70	90.000 mm
GPM-100-100-70	100.000 mm
GPM-100-110-70	110.000 mm
GPM-100-120-70	120.000 mm

12.000 mm
(A) Outside Diameter: +0.000/-0.110 mm

ITEM NUMBER	(L) OVERALL LENGTH +0.100/-0.100 mm
GPM-120-014-70	14.000 mm
GPM-120-016-70	16.000 mm
GPM-120-018-70	18.000 mm
GPM-120-020-70	20.000 mm
GPM-120-022-70	22.000 mm
GPM-120-025-70	25.000 mm
GPM-120-028-70	28.000 mm
GPM-120-030-70	30.000 mm
GPM-120-032-70	32.000 mm
GPM-120-036-70	36.000 mm
GPM-120-040-70	40.000 mm
GPM-120-045-70	45.000 mm
GPM-120-050-70	50.000 mm

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DIN 1470

ITEM NUMBER	(L) OVERALL LENGTH
GPM-120-055-70	55.000 mm
GPM-120-060-70	60.000 mm
GPM-120-065-70	65.000 mm
GPM-120-070-70	70.000 mm
GPM-120-080-70	80.000 mm
GPM-120-090-70	90.000 mm
GPM-120-100-70	100.000 mm
GPM-120-110-70	110.000 mm
GPM-120-120-70	120.000 mm

14.000 mm

(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm
GPM-140-036-70	36.000 mm
GPM-140-040-70	40.000 mm
GPM-140-045-70	45.000 mm
GPM-140-050-70	50.000 mm
GPM-140-055-70	55.000 mm
GPM-140-060-70	60.000 mm
GPM-140-065-70	65.000 mm
GPM-140-070-70	70.000 mm
GPM-140-080-70	80.000 mm
GPM-140-090-70	90.000 mm
GPM-140-100-70	100.000 mm
GPM-140-110-70	110.000 mm
GPM-140-120-70	120.000 mm

16.000 mm

(A) Outside Diameter: +0.000/-0.110 mm

	+0.100/-0.100 mm
GPM-160-036-70	36.000 mm
GPM-160-040-70	40.000 mm
GPM-160-045-70	45.000 mm
GPM-160-050-70	50.000 mm
GPM-160-055-70	55.000 mm
GPM-160-060-70	60.000 mm
GPM-160-065-70	65.000 mm
GPM-160-070-70	70.000 mm
GPM-160-080-70	80.000 mm
GPM-160-090-70	90.000 mm
GPM-160-100-70	100.000 mm
GPM-160-110-70	110.000 mm
GPM-160-120-70	120.000 mm





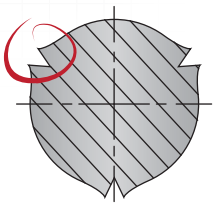
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GROOVED PINS

FUNCTION

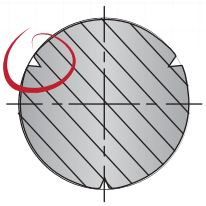
One of the most important design considerations with a grooved pin is that the pin is not actually grooved, but rather fluted. During manufacture, the grooves are formed by a swaging operation where material is displaced, but not removed. Then during installation the displaced material is compressed, which creates the radial holding force.

Material is displaced, not removed.



CROSS SECTION BEFORE INSTALLATION

Note that displaced material has been "compressed" into hole.



CROSS SECTION AFTER INSTALLATION

DRILLING PROCEDURES

The insertion and holding forces of grooved pins are entirely dependent on the relationship between the groove length of the pin and the hole diameter. When drilling holes, care should be taken to be as consistent as possible to maintain consistent insertion forces. The hole size should never be smaller than the outside (nominal) diameter of the pin or larger than the pin diameter plus the recommended hole tolerance.

MAXIMUM HOLE SIZES

PIN DIAMETER	DECIMAL EQUIVALENT	RECOMMENDED DRILL SIZE	MAXIMUM HOLE SIZE
Imperial Sizes			
1/16"	.0625"	1/16"	.0645"
3/32"	.0938"	3/32"	.0968"
1/8"	.1250"	1/8"	.1280"
5/32"	.1563"	5/32"	.1593"
3/16"	.1875"	3/16"	.1915"
7/32"	.2188"	7/32"	.2228"
1/4"	.2500"	1/4"	.2540"
5/16"	.3125"	5/16"	.3175"
3/8"	.3750"	3/8"	.3800"
7/16"	.4375"	7/16"	.4435"
1/2"	.5000"	1/2"	.5060"
Metric Sizes			
1.5 mm	–	1.5 mm	1.525 mm
2.0 mm	–	2.0 mm	2.025 mm
2.5 mm	–	2.5 mm	2.525 mm
3.0 mm	–	3.0 mm	3.025 mm
4.0 mm	–	4.0 mm	4.075 mm
5.0 mm	–	5.0 mm	5.075 mm
6.0 mm	–	6.0 mm	6.075 mm
8.0 mm	–	8.0 mm	8.090 mm
10.0 mm	–	10.0 mm	10.090 mm
12.0 mm	–	12.0 mm	12.110 mm
14.0 mm	–	14.0 mm	14.110 mm
16.0 mm	–	16.0 mm	16.110 mm

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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DIN 1473

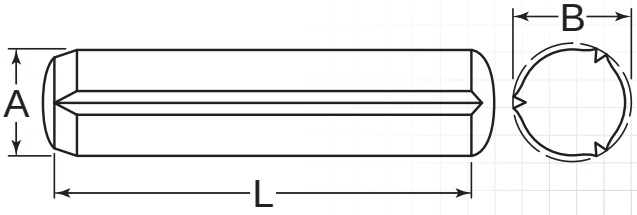
DESCRIPTION

Three full-length parallel grooves similar to DIN 1470 but with a chamfer on one end instead of a short pilot.

HOW TO IDENTIFY

1. Verify three full-length parallel grooves with a chamfer on one end.
2. Measure the diameter (A).
3. Measure the length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

DIN 1473 identified by "-73" at end of item number.

GPM = LOW CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.000 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 1.050 mm +0.050/-0.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
	+0.240/-0.240 mm	
GPM-010-004-73	4.000 mm	4.000 mm
GPM-010-005-73	5.000 mm	5.000 mm
GPM-010-006-73	6.000 mm	6.000 mm
	+0.290/-0.290 mm	
GPM-010-008-73	8.000 mm	8.000 mm
GPM-010-010-73	10.000 mm	10.000 mm

1.200 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 1.250 mm +0.050/-0.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
	+0.240/-0.240 mm	
GPM-012-004-73	4.000 mm	4.000 mm
GPM-012-005-73	5.000 mm	5.000 mm
GPM-012-006-73	6.000 mm	6.000 mm
	+0.290/-0.290 mm	
GPM-012-008-73	8.000 mm	8.000 mm
GPM-012-010-73	10.000 mm	10.000 mm

1.500 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 1.600 mm +0.050/-0.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
	+0.240/-0.240 mm	
GPM-015-004-73	4.000 mm	4.000 mm
GPM-015-005-73	5.000 mm	5.000 mm
GPM-015-006-73	6.000 mm	6.000 mm
	+0.290/-0.290 mm	
GPM-015-008-73	8.000 mm	8.000 mm
GPM-015-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-015-012-73	12.000 mm	12.000 mm

2.000 mm
(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 2.150 mm +0.050/-0.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
	+0.240/-0.240 mm	
GPM-020-004-73	4.000 mm	4.000 mm
GPM-020-005-73	5.000 mm	5.000 mm
GPM-020-006-73	6.000 mm	6.000 mm
	+0.290/-0.290 mm	
GPM-020-008-73	8.000 mm	8.000 mm
GPM-020-010-73	10.000 mm	10.000 mm

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DIN 1473

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
	+0.350/-0.350 mm	
GPM-020-012-73	12.000 mm	12.000 mm
GPM-020-014-73	14.000 mm	14.000 mm
GPM-020-016-73	16.000 mm	16.000 mm
GPM-020-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-020-020-73	20.000 mm	20.000 mm
GPM-020-022-73	22.000 mm	22.000 mm
GPM-020-024-73	24.000 mm	24.000 mm
GPM-020-026-73	26.000 mm	26.000 mm
GPM-020-028-73	28.000 mm	28.000 mm
GPM-020-030-73	30.000 mm	30.000 mm

2.500 mm

(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 2.650 mm +0.050/-0.050 mm

	+0.240/-0.240 mm	
GPM-025-006-73	6.000 mm	6.000 mm
	+0.290/-0.290 mm	
GPM-025-008-73	8.000 mm	8.000 mm
GPM-025-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-025-012-73	12.000 mm	12.000 mm
GPM-025-014-73	14.000 mm	14.000 mm
GPM-025-016-73	16.000 mm	16.000 mm
GPM-025-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-025-020-73	20.000 mm	20.000 mm
GPM-025-022-73	22.000 mm	22.000 mm
GPM-025-024-73	24.000 mm	24.000 mm
GPM-025-026-73	26.000 mm	26.000 mm
GPM-025-028-73	28.000 mm	28.000 mm
GPM-025-030-73	30.000 mm	30.000 mm

3.000 mm

(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 3.200 mm +0.050/-0.050 mm

	+0.240/-0.240 mm	
GPM-030-006-73	6.000 mm	6.000 mm
	+0.290/-0.290 mm	
GPM-030-008-73	8.000 mm	8.000 mm
GPM-030-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-030-012-73	12.000 mm	12.000 mm
GPM-030-014-73	14.000 mm	14.000 mm
GPM-030-016-73	16.000 mm	16.000 mm
GPM-030-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-030-020-73	20.000 mm	20.000 mm
GPM-030-022-73	22.000 mm	22.000 mm
GPM-030-024-73	24.000 mm	24.000 mm
GPM-030-026-73	26.000 mm	26.000 mm
GPM-030-028-73	28.000 mm	28.000 mm
GPM-030-030-73	30.000 mm	30.000 mm
	+.500/-.500 mm	
GPM-030-032-73	32.000 mm	32.000 mm
GPM-030-036-73	36.000 mm	36.000 mm

4.000 mm

(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 4.250 mm +0.050/-0.050 mm

	+0.240/-0.240 mm	
GPM-040-006-73	6.000 mm	6.000 mm
	+.290/-.290 mm	
GPM-040-008-73	8.000 mm	8.000 mm
GPM-040-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-040-012-73	12.000 mm	12.000 mm
GPM-040-014-73	14.000 mm	14.000 mm
GPM-040-016-73	16.000 mm	16.000 mm
GPM-040-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-040-020-73	20.000 mm	20.000 mm
GPM-040-022-73	22.000 mm	22.000 mm
GPM-040-024-73	24.000 mm	24.000 mm
GPM-040-026-73	26.000 mm	26.000 mm
GPM-040-028-73	28.000 mm	28.000 mm
GPM-040-030-73	30.000 mm	30.000 mm
	+0.500/-0.500 mm	
GPM-040-032-73	32.000 mm	32.000 mm
GPM-040-036-73	36.000 mm	36.000 mm
GPM-040-040-73	40.000 mm	40.000 mm
GPM-040-045-73	45.000 mm	45.000 mm

5.000 mm

(A) Outside Diameter: +0.000/-0.025 mm

(B) Expanded Diameter: 5.250 mm +0.050/-0.050 mm

	+0.290/-0.290 mm	
GPM-050-008-73	8.000 mm	8.000 mm
GPM-050-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-050-012-73	12.000 mm	12.000 mm
GPM-050-014-73	14.000 mm	14.000 mm
GPM-050-016-73	16.000 mm	16.000 mm
GPM-050-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-050-020-73	20.000 mm	20.000 mm
GPM-050-022-73	22.000 mm	22.000 mm
GPM-050-024-73	24.000 mm	24.000 mm
GPM-050-026-73	26.000 mm	26.000 mm
GPM-050-028-73	28.000 mm	28.000 mm
GPM-050-030-73	30.000 mm	30.000 mm

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DIN 1473

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
5.000 mm (A) Outside Diameter: +0.000/-0.025 mm		
(B) Expanded Diameter: 5.250 mm +0.050/-0.050 mm		
	+0.500/-0.500 mm	
GPM-050-032-73	32.000 mm	32.000 mm
GPM-050-036-73	36.000 mm	36.000 mm
GPM-050-040-73	40.000 mm	40.000 mm
GPM-050-045-73	45.000 mm	45.000 mm
GPM-050-050-73	50.000 mm	50.000 mm
6.000 mm (A) Outside Diameter: +0.000/-0.025 mm		
(B) Expanded Diameter: 6.300 mm +0.050/-0.050 mm		
	+0.290/-0.290 mm	
GPM-060-008-73	8.000 mm	8.000 mm
GPM-060-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-060-012-73	12.000 mm	12.000 mm
GPM-060-014-73	14.000 mm	14.000 mm
GPM-060-016-73	16.000 mm	16.000 mm
GPM-060-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-060-020-73	20.000 mm	20.000 mm
GPM-060-022-73	22.000 mm	22.000 mm
GPM-060-024-73	24.000 mm	24.000 mm
GPM-060-026-73	26.000 mm	26.000 mm
GPM-060-028-73	28.000 mm	28.000 mm
GPM-060-030-73	30.000 mm	30.000 mm
	+0.500/-0.500 mm	
GPM-060-032-73	32.000 mm	32.000 mm
GPM-060-036-73	36.000 mm	36.000 mm
GPM-060-040-73	40.000 mm	40.000 mm
GPM-060-045-73	45.000 mm	45.000 mm
GPM-060-050-73	50.000 mm	50.000 mm
	+0.600/-0.600 mm	
GPM-060-055-73	55.000 mm	55.000 mm
GPM-060-060-73	60.000 mm	60.000 mm
8.000 mm (A) Outside Diameter: +0.000/-0.090 mm		
(B) Expanded Diameter: 8.300 mm +0.050/-0.050 mm		
	+0.290/-0.290 mm	
GPM-080-010-73	10.000 mm	10.000 mm
	+0.350/-0.350 mm	
GPM-080-012-73	12.000 mm	12.000 mm
GPM-080-014-73	14.000 mm	14.000 mm
GPM-080-016-73	16.000 mm	16.000 mm
GPM-080-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-080-020-73	20.000 mm	20.000 mm
GPM-080-022-73	22.000 mm	22.000 mm
GPM-080-024-73	24.000 mm	24.000 mm
GPM-080-026-73	26.000 mm	26.000 mm
GPM-080-028-73	28.000 mm	28.000 mm
GPM-080-030-73	30.000 mm	30.000 mm
	+0.500/-0.500 mm	
GPM-080-032-73	32.000 mm	32.000 mm
GPM-080-036-73	36.000 mm	36.000 mm
GPM-080-040-73	40.000 mm	40.000 mm
GPM-080-045-73	45.000 mm	45.000 mm
GPM-080-050-73	50.000 mm	50.000 mm
	+0.600/-0.600 mm	
GPM-080-055-73	55.000 mm	55.000 mm
GPM-080-060-73	60.000 mm	60.000 mm
GPM-080-065-73	65.000 mm	65.000 mm
GPM-080-070-73	70.000 mm	70.000 mm
10.000 mm (A) Outside Diameter: +0.000/-0.090 mm		
(B) Expanded Diameter: 10.350 mm +0.050/-0.050 mm		
	+0.350/-0.350 mm	
GPM-100-014-73	14.000 mm	14.000 mm
GPM-100-016-73	16.000 mm	16.000 mm
GPM-100-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-100-020-73	20.000 mm	20.000 mm
GPM-100-022-73	22.000 mm	22.000 mm
GPM-100-025-73	25.000 mm	25.000 mm
GPM-100-028-73	28.000 mm	28.000 mm
GPM-100-030-73	30.000 mm	30.000 mm
	+0.500/-0.500 mm	
GPM-100-032-73	32.000 mm	32.000 mm
GPM-100-036-73	36.000 mm	36.000 mm
GPM-100-040-73	40.000 mm	40.000 mm
GPM-100-045-73	45.000 mm	45.000 mm
GPM-100-050-73	50.000 mm	50.000 mm
	+0.600/-0.600 mm	
GPM-100-055-73	55.000 mm	55.000 mm
GPM-100-060-73	60.000 mm	60.000 mm
GPM-100-065-73	65.000 mm	65.000 mm
GPM-100-070-73	70.000 mm	70.000 mm
GPM-100-080-73	80.000 mm	80.000 mm
	+0.700/-0.700 mm	
GPM-100-090-73	90.000 mm	90.000 mm
GPM-100-100-73	100.000 mm	100.000 mm
GPM-100-110-73	110.000 mm	110.000 mm
GPM-100-120-73	120.000 mm	120.000 mm

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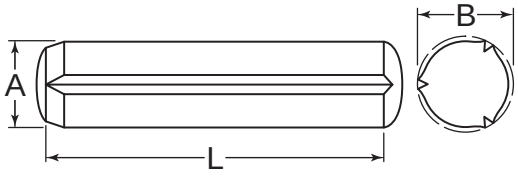
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DIN 1473

PREFIX	MATERIAL/FINISH
GPM	= LOW CARBON STEEL, PLAIN*

DIN 1473 identified by "-73" at end of item number.



ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
12.000 mm (A) Outside Diameter: +0.000/-0.110 mm		
(B) Expanded Diameter: 12.350 mm +0.100/-0.100 mm		
	+0.350/-0.350 mm	
GPM-120-014-73	14.000 mm	14.000 mm
GPM-120-016-73	16.000 mm	16.000 mm
GPM-120-018-73	18.000 mm	18.000 mm
	+0.420/-0.420 mm	
GPM-120-020-73	20.000 mm	20.000 mm
GPM-120-022-73	22.000 mm	22.000 mm
GPM-120-025-73	25.000 mm	25.000 mm
GPM-120-028-73	28.000 mm	28.000 mm
GPM-120-030-73	30.000 mm	30.000 mm
	+0.500/-0.500 mm	
GPM-120-032-73	32.000 mm	32.000 mm
GPM-120-036-73	36.000 mm	36.000 mm
GPM-120-040-73	40.000 mm	40.000 mm
GPM-120-045-73	45.000 mm	45.000 mm
GPM-120-050-73	50.000 mm	50.000 mm
	+0.600/-0.600 mm	
GPM-120-055-73	55.000 mm	55.000 mm
GPM-120-060-73	60.000 mm	60.000 mm
GPM-120-065-73	65.000 mm	65.000 mm
GPM-120-070-73	70.000 mm	70.000 mm
GPM-120-080-73	80.000 mm	80.000 mm
	+0.700/-0.700 mm	
GPM-120-090-73	90.000 mm	90.000 mm
GPM-120-100-73	100.000 mm	100.000 mm
GPM-120-110-73	110.000 mm	110.000 mm
GPM-120-120-73	120.000 mm	120.000 mm

ITEM NUMBER	(L) OVERALL LENGTH	GROOVE LENGTH
14.000 mm (A) Outside Diameter: +0.000/-0.110 mm		
(B) Expanded Diameter: 14.350 mm +0.100/-0.100 mm		
	+0.500/-0.500 mm	
GPM-140-036-73	36.000 mm	36.000 mm
GPM-140-040-73	40.000 mm	40.000 mm
GPM-140-045-73	45.000 mm	45.000 mm
GPM-140-050-73	50.000 mm	50.000 mm
	+0.600/-0.600 mm	
GPM-140-055-73	55.000 mm	55.000 mm
GPM-140-060-73	60.000 mm	60.000 mm
GPM-140-065-73	65.000 mm	65.000 mm
GPM-140-070-73	70.000 mm	70.000 mm
GPM-140-080-73	80.000 mm	80.000 mm
	+0.700/-0.700 mm	
GPM-140-090-73	90.000 mm	90.000 mm
GPM-140-100-73	100.000 mm	100.000 mm
GPM-140-110-73	110.000 mm	110.000 mm
GPM-140-120-73	120.000 mm	120.000 mm
16.000 mm (A) Outside Diameter: +0.000/-0.110 mm		
(B) Expanded Diameter: 16.400 mm +0.100/-0.100 mm		
	+0.500/-0.500 mm	
GPM-160-036-73	36.000 mm	36.000 mm
GPM-160-040-73	40.000 mm	40.000 mm
GPM-160-045-73	45.000 mm	45.000 mm
GPM-160-050-73	50.000 mm	50.000 mm
	+0.600/-0.600 mm	
GPM-160-055-73	55.000 mm	55.000 mm
GPM-160-060-73	60.000 mm	60.000 mm
GPM-160-065-73	65.000 mm	65.000 mm
GPM-160-070-73	70.000 mm	70.000 mm
GPM-160-080-73	80.000 mm	80.000 mm
	+0.700/-0.700 mm	
GPM-160-090-73	90.000 mm	90.000 mm
GPM-160-100-73	100.000 mm	100.000 mm
GPM-160-110-73	110.000 mm	110.000 mm
GPM-160-120-73	120.000 mm	120.000 mm

ALSO AVAILABLE:


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Machine Keys & Keystock


Retaining Rings & Clips


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Washers, Bushings, & Shims

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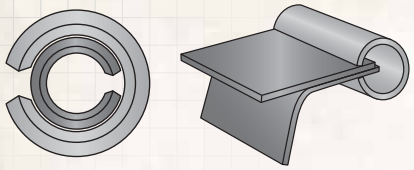
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SPRING PIN FEATURES

Spring pins are hollow, cylindrical tube-style press fit fasteners with chamfered ends. They weigh less and are easier to install than solid pins, as a result there is an abundance of types, materials, and finishes with wide stock availability. Spring pins are used as locking devices, positioning points, anti-chafing surfaces, shafts, or sleeves for wiring. Usage is limited only by imagination and technological capabilities. Slotted spring pins are also known generically as rolled pins or spring pins. Coiled spring pins are sometimes referred to as spiral pins.

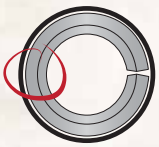
DESIGN CONSIDERATIONS

SLOTTED DESIGN



DOUBLE UP FOR ADDED SHEAR STRENGTH

USE THE SLOT AS A CUP OR AS AN ANCHORING CLIP



Part closes together upon installation. Stresses are concentrated opposite the gap.

COILED DESIGN

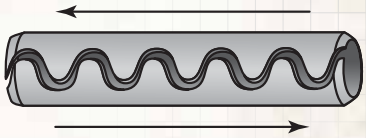


CONFORMS TO SHAPE OF OUT-OF-ROUND HOLES



As the part is pushed into hole, compression moves through the coils to the center, equally distributing the stress.

TOOTHED DESIGN



MINIMIZES LATERAL MOVEMENT IN OUT-OF-ROUND OR VIBRATORY ENVIRONMENTS



During compression, the teeth touch on one side only as a result of pre-designed spacing.

SHEAR STRENGTH

DOUBLE SHEAR STRENGTH IN LBS.





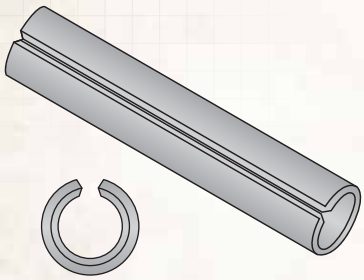
NOMINAL PIN DIAMETER	SLOTTED PIN: CARBON & 420 STAINLESS	SLOTTED PIN: 302 STAINLESS	COILED PIN: LIGHT DUTY CARBON & 420 STAINLESS	COILED PIN: LIGHT DUTY 302 STAINLESS	COILED PIN: STANDARD DUTY CARBON & 420 STAINLESS	COILED PIN: STANDARD DUTY 302 STAINLESS	COILED PIN: HEAVY DUTY CARBON & 420 STAINLESS	COILED PIN: HEAVY DUTY 302 STAINLESS
3/32"	1,150	670	475	360	775	600	1,150	825
1/8"	1,875	1,090	825	650	1,400	1,100	2,000	1,700
5/32"	2,750	1,600	1,300	1,000	2,200	1,700	3,100	2,400
3/16"	4,150	2,425	1,900	1,450	3,150	2,400	4,500	3,500
7/32"	5,850	3,400	–	–	–	–	–	6,200
1/4"	7,050	4,100	3,300	2,600	5,500	4,300	7,800	9,300
5/16"	10,800	6,300	5,200	4,000	8,700	6,700	12,000	1,400
3/8"	16,300	9,500	–	–	12,600	9,600	18,000	–
7/16"	19,800	11,500	–	–	–	–	–	–
1/2"	27,100	15,800	–	–	22,500	17,500	32,000	25,000

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SPRING PIN TYPES

SLOTTED

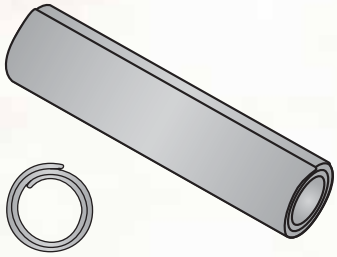
Standard single-turned pin with a longitudinal slot and chamfered ends to facilitate installation.



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LIGHT DUTY COILED

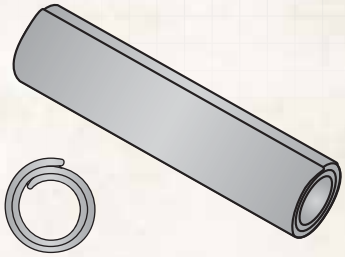
Multiple-turn roll-formed part that possesses the same 2-1/4 turns as a standard. By using thinner material, the double shear value and weight are reduced.



PAGE 225

STANDARD COILED

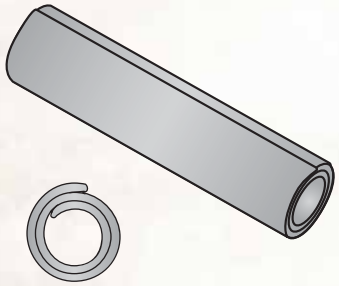
Standard 2-1/4 turn part. Coiled pins distribute forces more evenly vs. standard slotted pins.



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HEAVY DUTY COILED

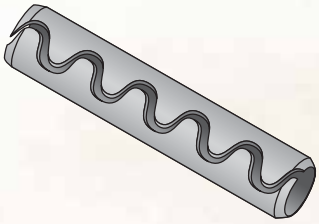
Extra thick material gives this 2-1/4 turn pin the highest double shear strength in the line.



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TOOTHED ROLLED PIN

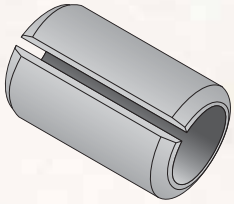
Precision pins with a "toothed" longitudinal slot. Toothed pins possess the tightest tolerance and highest seating capacity of this line.



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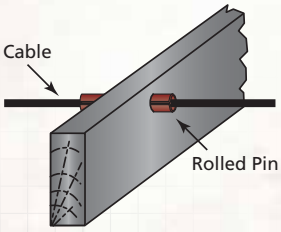
TENSION BUSHING

Heavy duty cousins to the slotted pin, tension bushings are made from hardened spring steel for use in load bearing, non-lubricated environments.

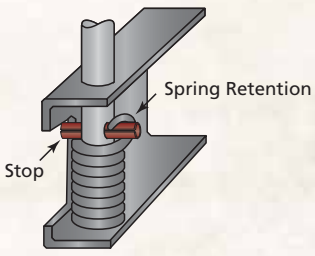


PAGE 246

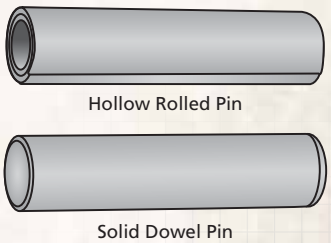
APPLICATIONS



HOLLOW DESIGN USEFUL IN OTHER NON-PIN APPLICATIONS SUCH AS A SLEEVE



DUAL PURPOSE APPLICATION AS A STOP AND AS A SPRING RETAINER



WEIGHS LESS THAN A SOLID PIN

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SPRING PINS

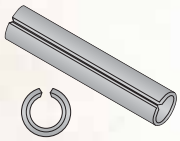
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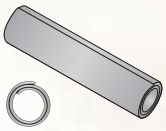
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QUICK REFERENCE GUIDE

Slotted spring pins are a single-turn, formed pin with one straight parallel slot. Because they can be installed in a single operation, they are economical and save time. The hollow design and slot give them their unique self-locking capabilities. Coiled spring pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section.





	SLOTTED	COILED
COMMON NAMES	Expansion Pin, Spring Pin, Tension Pin, Split Pin	Spiral Pins, Expansion Pin, Tension Pin
APPLICABLE STANDARDS	ASME B18.8.2, DIN 1481, ISO 8752, ASME B18.8.4	ASME B18.8.2, ISO 8750, ISO 8748
FABRICATION	Roll formed and heat treated.	Roll formed and heat treated.
HOW TO IDENTIFY	Nominal diameter × nominal length.	Light duty, medium (standard) duty, heavy duty, nominal diameter × nominal length. The "duty" is driven by material thickness, which affects outside diameter.
COMMON USES	Parts are larger than the hole. When installed, tension holds them in place. Low cost and versatile pin used in all sectors. Removable and reusable. Problems stem in workmanship (rolled edges do not meet or are too close), and in material.	Parts work similar as slotted pins, but because of coil action, parts perform better in out-of-round holes, and are less susceptible to vibration.
COMMENTS	Problems with metric parts. ISO standards are different than ASME standards which specifies a smaller slot for less nesting. Parts are lower priced and perform better than ISO counterpart, but smaller internal diameter should be considered.	ISO standards are consistent and are divided between standard duty and heavy duty. ASME and ISO standards are identical for metric sizes.

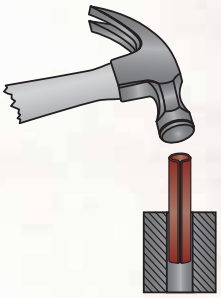
SPRING PIN BENEFITS

Spring pins require only a straight drilled hole, may be installed using automated equipment, and are reusable.

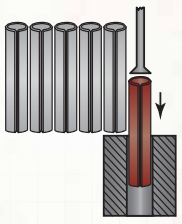
DRILL A HOLE
NO REAMING NEEDED



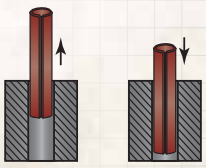
INSTALL



USE AUTOMATED ASSEMBLY



REMOVE AND REUSE



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ASME B18.8.2 SLOTTED – IMPERIAL

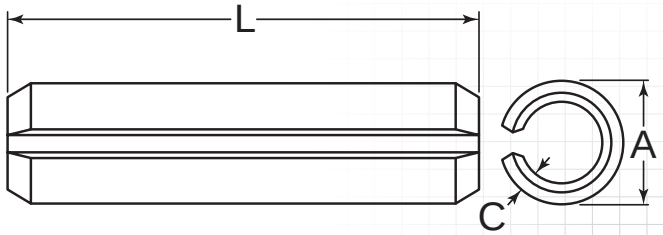
DESCRIPTION

A single-turn rolled pin, formed with one straight parallel slot. Slotted pins are economical and save time because they can be installed in a single operation. The hollow design and slot give them their unique self-locking capabilities.

HOW TO IDENTIFY

1. Verify single-turn roll with parallel slot.
2. Measure diameter (A).
3. Measure length (L).
4. Look up the part in the chart below.





PREFIX MATERIAL/FINISH

SP	=	HIGH CARBON STEEL, ZINC CLEAR
SPP	=	HIGH CARBON STEEL, PLAIN*
SPPH	=	HIGH CARBON STEEL, PHOSPHATE
SPY	=	HIGH CARBON STEEL, ZINC YELLOW
SPS	=	420 STAINLESS STEEL, PLAIN
SPSP	=	420 STAINLESS STEEL, PASSIVATED
SPS3P	=	302/304 STAINLESS STEEL, PASSIVATED

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

Material/finish combinations may not be available in all sizes.

1/16 (.063")
(A) Outside Diameter

(C) Wall Thickness: .012"
Recommended Hole Diameter: .062-.065"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-062-0125	.125" (1/8)
PREFIX-062-0187	.188" (3/16)
PREFIX-062-0250	.250" (1/4)
PREFIX-062-0312	.313" (5/16)
PREFIX-062-0343	.344" (11/32)
PREFIX-062-0375	.375" (3/8)
PREFIX-062-0437	.438" (7/16)
PREFIX-062-0500	.500" (1/2)
PREFIX-062-0562	.563" (9/16)
PREFIX-062-0625	.625" (5/8)
PREFIX-062-0687	.688" (11/16)
PREFIX-062-0750	.750" (3/4)
PREFIX-062-0812	.813" (13/16)
PREFIX-062-0875	.875" (7/8)
PREFIX-062-0937	.938" (15/16)
PREFIX-062-1000	1.000" (1)

5/64 (.078")
(A) Outside Diameter

(C) Wall Thickness: .018"
Recommended Hole Diameter: .078-.081"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-078-0187	.188" (3/16)
PREFIX-078-0250	.250" (1/4)
PREFIX-078-0312	.313" (5/16)
PREFIX-078-0375	.375" (3/8)
PREFIX-078-0437	.438" (7/16)
PREFIX-078-0500	.500" (1/2)
PREFIX-078-0562	.563" (9/16)
PREFIX-078-0625	.625" (5/8)
PREFIX-078-0687	.688" (11/16)
PREFIX-078-0750	.750" (3/4)
PREFIX-078-0812	.813" (13/16)
PREFIX-078-0875	.875" (7/8)
PREFIX-078-0937	.938" (15/16)
PREFIX-078-1000	1.000" (1)
	+.020/-.020"
PREFIX-078-1125	1.125" (1-1/8)
PREFIX-078-1250	1.250" (1-1/4)
PREFIX-078-1375	1.375" (1-3/8)
PREFIX-078-1500	1.500" (1-1/2)

3/32 (.094")
(A) Outside Diameter

(C) Wall Thickness: .022"
Recommended Hole Diameter: .094-.097"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-093-0187	.188" (3/16)
PREFIX-093-0218	.219" (7/32)
PREFIX-093-0250	.250" (1/4)
PREFIX-093-0312	.313" (5/16)
PREFIX-093-0375	.375" (3/8)
PREFIX-093-0437	.438" (7/16)
PREFIX-093-0500	.500" (1/2)
PREFIX-093-0562	.563" (9/16)
PREFIX-093-0625	.625" (5/8)
PREFIX-093-0687	.688" (11/16)
PREFIX-093-0750	.750" (3/4)
PREFIX-093-0812	.813" (13/16)
PREFIX-093-0875	.875" (7/8)
PREFIX-093-0937	.938" (15/16)
PREFIX-093-1000	1.000" (1)
	+.020/-.020"
PREFIX-093-1125	1.125" (1-1/8)
PREFIX-093-1250	1.250" (1-1/4)
PREFIX-093-1375	1.375" (1-3/8)

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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SLOTTED – IMPERIAL

ASME B18.8.2

3/32 (.094")
(A) Outside Diameter

(C) Wall Thickness: .022"
Recommended Hole Diameter: .094-.097"

ITEM NUMBER	(L) OVERALL LENGTH
	+.020/-.020"
PREFIX-093-1500	1.500" (1-1/2)
PREFIX-093-1750	1.750" (1-3/4)

7/64 (.109")
(A) Outside Diameter

(C) Wall Thickness: .025"
Recommended Hole Diameter: .109-.112"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-109-0250	.250" (1/4)
PREFIX-109-0312	.313" (5/16)
PREFIX-109-0375	.375" (3/8)
PREFIX-109-0437	.438" (7/16)
PREFIX-109-0500	.500" (1/2)
PREFIX-109-0562	.563" (9/16)
PREFIX-109-0625	.625" (5/8)
PREFIX-109-0687	.688" (11/16)
PREFIX-109-0750	.750" (3/4)
PREFIX-109-0812	.813" (13/16)
PREFIX-109-0875	.875" (7/8)
PREFIX-109-0937	.938" (15/16)
PREFIX-109-1000	1.000" (1)
	+.020/-.020"
PREFIX-109-1125	1.125" (1-1/8)
PREFIX-109-1250	1.250" (1-1/4)
PREFIX-109-1375	1.375" (1-3/8)
PREFIX-109-1500	1.500" (1-1/2)
PREFIX-109-1625	1.625" (1-5/8)
PREFIX-109-1750	1.750" (1-3/4)

1/8 (.125")
(A) Outside Diameter

(C) Wall Thickness: .028"
Recommended Hole Diameter: .125-.129"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-125-0250	.250" (1/4)
PREFIX-125-0312	.313" (5/16)
PREFIX-125-0375	.375" (3/8)
PREFIX-125-0437	.438" (7/16)
PREFIX-125-0500	.500" (1/2)
PREFIX-125-0562	.563" (9/16)
PREFIX-125-0625	.625" (5/8)
PREFIX-125-0687	.688" (11/16)
PREFIX-125-0750	.750" (3/4)
PREFIX-125-0812	.813" (13/16)
PREFIX-125-0875	.875" (7/8)
PREFIX-125-0937	.938" (15/16)
PREFIX-125-1000	1.000" (1)
	+.020/-.020"
PREFIX-125-1125	1.125" (1-1/8)
PREFIX-125-1250	1.250" (1-1/4)
PREFIX-125-1375	1.375" (1-3/8)
PREFIX-125-1500	1.500" (1-1/2)
PREFIX-125-1625	1.625" (1-5/8)
PREFIX-125-1750	1.750" (1-3/4)
PREFIX-125-1875	1.875" (1-7/8)
PREFIX-125-2000	2.000" (2)
	+.025/-.025"
PREFIX-125-2250	2.250" (2-1/4)
PREFIX-125-2500	2.500" (2-1/2)

9/64 (.141")
(A) Outside Diameter

(C) Wall Thickness: .028"
Recommended Hole Diameter: .140-.144"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-140-0375	.375" (3/8)
PREFIX-140-0500	.500" (1/2)
PREFIX-140-0562	.563" (9/16)
PREFIX-140-0625	.625" (5/8)
PREFIX-140-0687	.688" (11/16)
PREFIX-140-0750	.750" (3/4)
PREFIX-140-0812	.813" (13/16)
PREFIX-140-0875	.875" (7/8)
PREFIX-140-0937	.938" (15/16)
PREFIX-140-1000	1.000" (1)
	+.020/-.020"
PREFIX-140-1125	1.125" (1-1/8)
PREFIX-140-1250	1.250" (1-1/4)
PREFIX-140-1375	1.375" (1-3/8)
PREFIX-140-1500	1.500" (1-1/2)
PREFIX-140-1625	1.625" (1-5/8)
PREFIX-140-1750	1.750" (1-3/4)
PREFIX-140-1875	1.875" (1-7/8)
PREFIX-140-2000	2.000" (2)

5/32 (.156")
(A) Outside Diameter

(C) Wall Thickness: .032"
Recommended Hole Diameter: .156-.160"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-156-0312	.313" (5/16)
PREFIX-156-0375	.375" (3/8)
PREFIX-156-0437	.438" (7/16)
PREFIX-156-0500	.500" (1/2)
PREFIX-156-0562	.563" (9/16)
PREFIX-156-0625	.625" (5/8)
PREFIX-156-0687	.688" (11/16)
PREFIX-156-0750	.750" (3/4)
PREFIX-156-0812	.813" (13/16)
PREFIX-156-0875	.875" (7/8)
PREFIX-156-0937	.938" (15/16)
PREFIX-156-1000	1.000" (1)
	+.020/-.020"
PREFIX-156-1093	1.094" (1-3/32)
PREFIX-156-1125	1.125" (1-1/8)
PREFIX-156-1250	1.250" (1-1/4)
PREFIX-156-1375	1.375" (1-3/8)
PREFIX-156-1500	1.500" (1-1/2)
PREFIX-156-1625	1.625" (1-5/8)
PREFIX-156-1750	1.750" (1-3/4)
PREFIX-156-1875	1.875" (1-7/8)
PREFIX-156-2000	2.000" (2)
	+.025/-.025"
PREFIX-156-2250	2.250" (2-1/4)
PREFIX-156-2500	2.500" (2-1/2)
PREFIX-156-2750	2.750" (2-3/4)

3/16 (.188")
(A) Outside Diameter

(C) Wall Thickness: .040"
Recommended Hole Diameter: .187-.192"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-187-0312	.313" (5/16)
PREFIX-187-0375	.375" (3/8)
PREFIX-187-0437	.438" (7/16)
PREFIX-187-0500	.500" (1/2)
PREFIX-187-0562	.563" (9/16)
PREFIX-187-0625	.625" (5/8)
PREFIX-187-0687	.688" (11/16)
PREFIX-187-0750	.750" (3/4)
PREFIX-187-0812	.813" (13/16)
PREFIX-187-0875	.875" (7/8)
PREFIX-187-0937	.938" (15/16)
PREFIX-187-1000	1.000" (1)
	+.020/-.020"
PREFIX-187-1125	1.125" (1-1/8)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1375	1.375" (1-3/8)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1625	1.625" (1-5/8)
PREFIX-187-1687	1.688" (1-11/16)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

SP • SPP • SPPH • SPY
SPS • SPSP • SPS3P

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

ASME B18.8.2 SLOTTED – IMPERIAL

PREFIX		MATERIAL/FINISH
SP	=	HIGH CARBON STEEL, ZINC CLEAR
SPP	=	HIGH CARBON STEEL, PLAIN*
SPPH	=	HIGH CARBON STEEL, PHOSPHATE
SPY	=	HIGH CARBON STEEL, ZINC YELLOW
SPS	=	420 STAINLESS STEEL, PLAIN
SPSP	=	420 STAINLESS STEEL, PASSIVATED
SPS3P	=	302/304 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-1875	1.875" (1-7/8)
PREFIX-187-2000	2.000" (2)
	+.025/-.025"
PREFIX-187-2125	2.125" (2-1/8)
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)
PREFIX-187-2750	2.750" (2-3/4)
PREFIX-187-3000	3.000" (3)
	+.030/-.030"
PREFIX-187-3250	3.250" (3-1/4)
PREFIX-187-3500	3.500" (3-1/2)
PREFIX-187-4000	4.000" (4)

7/32 (.219")
(A) Outside Diameter

(C) Wall Thickness: .048"
Recommended Hole Diameter: .219-.224"

	+.015/-.015"
PREFIX-218-0500	.500" (1/2)
PREFIX-218-0562	.563" (9/16)
PREFIX-218-0625	.625" (5/8)
PREFIX-218-0687	.688" (11/16)
PREFIX-218-0750	.750" (3/4)
PREFIX-218-0812	.813" (13/16)
PREFIX-218-0875	.875" (7/8)
PREFIX-218-0937	.938" (15/16)
PREFIX-218-1000	1.000" (1)
	+.020/-.020"
PREFIX-218-1125	1.125" (1-1/8)
PREFIX-218-1250	1.250" (1-1/4)
PREFIX-218-1375	1.375" (1-3/8)
PREFIX-218-1500	1.500" (1-1/2)
PREFIX-218-1625	1.625" (1-5/8)
PREFIX-218-1750	1.750" (1-3/4)
PREFIX-218-1875	1.875" (1-7/8)
PREFIX-218-2000	2.000" (2)
	+.025/-.025"
PREFIX-218-2250	2.250" (2-1/4)
PREFIX-218-2500	2.500" (2-1/2)
PREFIX-218-2750	2.750" (2-3/4)
PREFIX-218-3000	3.000" (3)

ITEM NUMBER	(L) OVERALL LENGTH

1/4 (.250")
(A) Outside Diameter

(C) Wall Thickness: .048"
Recommended Hole Diameter: .250-.256"

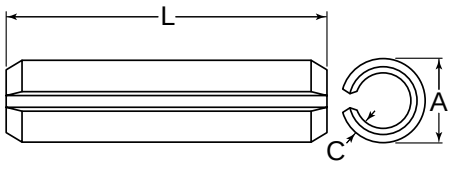
	+.015/-.015"
PREFIX-250-0375	.375" (3/8)
PREFIX-250-0500	.500" (1/2)
PREFIX-250-0562	.563" (9/16)
PREFIX-250-0625	.625" (5/8)
PREFIX-250-0687	.688" (11/16)
PREFIX-250-0750	.750" (3/4)
PREFIX-250-0812	.813" (13/16)
PREFIX-250-0875	.875" (7/8)
PREFIX-250-0937	.938" (15/16)
PREFIX-250-1000	1.000" (1)
	+.020/-.020"
PREFIX-250-1125	1.125" (1-1/8)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1312	1.313" (1-5/16)
PREFIX-250-1375	1.375" (1-3/8)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1625	1.625" (1-5/8)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-1875	1.875" (1-7/8)
PREFIX-250-2000	2.000" (2)
	+.025/-.025"
PREFIX-250-2125	2.125" (2-1/8)
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-2750	2.750" (2-3/4)
PREFIX-250-3000	3.000" (3)
	+.030/-.030"
PREFIX-250-3250	3.250" (3-1/4)
PREFIX-250-3500	3.500" (3-1/2)
PREFIX-250-3750	3.750" (3-3/4)
PREFIX-250-4000	4.000" (4)
	+.035/-.035"
PREFIX-250-4500	4.500" (4-1/2)
PREFIX-250-5000	5.000" (5)
PREFIX-250-5500	5.500" (5-1/2)

ITEM NUMBER	(L) OVERALL LENGTH

5/16 (.313")
(A) Outside Diameter

(C) Wall Thickness: .063" (1/16)
Recommended Hole Diameter: .312-.318"

	+.015/-.015"
PREFIX-312-0375	.375" (3/8)
PREFIX-312-0500	.500" (1/2)
PREFIX-312-0750	.750" (3/4)
PREFIX-312-0812	.813" (13/16)
PREFIX-312-0875	.875" (7/8)
PREFIX-312-0937	.938" (15/16)
PREFIX-312-1000	1.000" (1)
	+.020/-.020"
PREFIX-312-1125	1.125" (1-1/8)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1312	1.313" (1-5/16)
PREFIX-312-1375	1.375" (1-3/8)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1625	1.625" (1-5/8)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-1875	1.875" (1-7/8)
PREFIX-312-2000	2.000" (2)
	+.025/-.025"
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
	+.030/-.030"
PREFIX-312-3250	3.250" (3-1/4)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-3750	3.750" (3-3/4)
PREFIX-312-4000	4.000" (4)
	+.035/-.035"
PREFIX-312-4500	4.500" (4-1/2)
PREFIX-312-5000	5.000" (5)



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SLOTTED – IMPERIAL

ASME B18.8.2

3/8 (.375")
(A) Outside Diameter

(C) Wall Thickness: .077"
Recommended Hole Diameter: .375-.382"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-375-0750	.750" (3/4)
PREFIX-375-0812	.813" (13/16)
PREFIX-375-0875	.875" (7/8)
PREFIX-375-0937	.938" (15/16)
PREFIX-375-1000	1.000" (1)
	+.020/-.020"
PREFIX-375-1125	1.125" (1-1/8)
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1375	1.375" (1-3/8)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1625	1.625" (1-5/8)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-1875	1.875" (1-7/8)
PREFIX-375-2000	2.000" (2)
	+.025/-.025"
PREFIX-375-2125	2.125" (2-1/8)
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-2750	2.750" (2-3/4)
PREFIX-375-3000	3.000" (3)
	+.030/-.030"
PREFIX-375-3250	3.250" (3-1/4)
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-3750	3.750" (3-3/4)
PREFIX-375-4000	4.000" (4)
	+.035/-.035"
PREFIX-375-4500	4.500" (4-1/2)
PREFIX-375-5000	5.000" (5)
PREFIX-375-6000	6.000" (6)

7/16 (.438")
(A) Outside Diameter

(C) Wall Thickness: .077"
Recommended Hole Diameter: .437-.445"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-437-1000	1.000" (1)
	+.020/-.020"
PREFIX-437-1125	1.125" (1-1/8)
PREFIX-437-1250	1.250" (1-1/4)
PREFIX-437-1375	1.375" (1-3/8)
PREFIX-437-1500	1.500" (1-1/2)
PREFIX-437-1625	1.625" (1-5/8)
PREFIX-437-1750	1.750" (1-3/4)
PREFIX-437-1875	1.875" (1-7/8)
PREFIX-437-2000	2.000" (2)
	+.025/-.025"
PREFIX-437-2250	2.250" (2-1/4)
PREFIX-437-2500	2.500" (2-1/2)
PREFIX-437-2750	2.750" (2-3/4)
PREFIX-437-3000	3.000" (3)
	+.030/-.030"
PREFIX-437-3250	3.250" (3-1/4)
PREFIX-437-3500	3.500" (3-1/2)
PREFIX-437-3750	3.750" (3-3/4)
PREFIX-437-4000	4.000" (4)

1/2 (.500")
(A) Outside Diameter

(C) Wall Thickness: .094" (3/32)
Recommended Hole Diameter: .500-.510"

ITEM NUMBER	(L) OVERALL LENGTH
	+.015/-.015"
PREFIX-500-1000	1.000" (1)
	+.020/-.020"
PREFIX-500-1125	1.125" (1-1/8)
PREFIX-500-1250	1.250" (1-1/4)
PREFIX-500-1375	1.375" (1-3/8)
PREFIX-500-1500	1.500" (1-1/2)
PREFIX-500-1625	1.625" (1-5/8)
PREFIX-500-1750	1.750" (1-3/4)
PREFIX-500-1875	1.875" (1-7/8)
PREFIX-500-2000	2.000" (2)
	+.025/-.025"
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-2750	2.750" (2-3/4)
PREFIX-500-3000	3.000" (3)
	+.030/-.030"
PREFIX-500-3250	3.250" (3-1/4)
PREFIX-500-3500	3.500" (3-1/2)
PREFIX-500-3750	3.750" (3-3/4)
PREFIX-500-4000	4.000" (4)
	+.035/-.035"
PREFIX-500-4500	4.500" (4-1/2)
PREFIX-500-5000	5.000" (5)
PREFIX-500-5500	5.500" (5-1/2)
PREFIX-500-6000	6.000" (6)

5/8 (.625")
(A) Outside Diameter

(C) Wall Thickness: .125" (1/8)
Recommended Hole Diameter: .625-.636"

ITEM NUMBER	(L) OVERALL LENGTH
	+.020/-.020"
PREFIX-625-1500	1.500" (1-1/2)
PREFIX-625-1625	1.625" (1-5/8)
PREFIX-625-1750	1.750" (1-3/4)
PREFIX-625-2000	2.000" (2)
	+.025/-.025"
PREFIX-625-2250	2.250" (2-1/4)
PREFIX-625-2500	2.500" (2-1/2)
PREFIX-625-2625	2.625" (2-5/8)
PREFIX-625-2750	2.750" (2-3/4)
PREFIX-625-3000	3.000" (3)
	+.030/-.030"
PREFIX-625-3250	3.250" (3-1/4)
PREFIX-625-3500	3.500" (3-1/2)
PREFIX-625-3750	3.750" (3-3/4)
PREFIX-625-4000	4.000" (4)
	+.035/-.035"
PREFIX-625-4250	4.250" (4-1/4)
PREFIX-625-4500	4.500" (4-1/2)
PREFIX-625-4750	4.750" (4-3/4)
PREFIX-625-5000	5.000" (5)
PREFIX-625-5250	5.250" (5-1/4)
PREFIX-625-5500	5.500" (5-1/2)
PREFIX-625-5750	5.750" (5-3/4)
PREFIX-625-6000	6.000" (6)

3/4 (.750")
(A) Outside Diameter

(C) Wall Thickness: .150"
Recommended Hole Diameter: .750-.764"

ITEM NUMBER	(L) OVERALL LENGTH
	+.020/-.020"
PREFIX-750-1500	1.500" (1-1/2)
PREFIX-750-2000	2.000" (2)
	+.025/-.025"
PREFIX-750-2250	2.250" (2-1/4)
PREFIX-750-2500	2.500" (2-1/2)
PREFIX-750-2750	2.750" (2-3/4)
PREFIX-750-3000	3.000" (3)
	+.030/-.030"
PREFIX-750-3250	3.250" (3-1/4)
PREFIX-750-3500	3.500" (3-1/2)
PREFIX-750-3750	3.750" (3-3/4)
PREFIX-750-4000	4.000" (4)
	+.035/-.035"
PREFIX-750-4250	4.250" (4-1/4)
PREFIX-750-4500	4.500" (4-1/2)
PREFIX-750-4750	4.750" (4-3/4)
PREFIX-750-5000	5.000" (5)
PREFIX-750-5250	5.250" (5-1/4)
PREFIX-750-5500	5.500" (5-1/2)
PREFIX-750-5750	5.750" (5-3/4)
PREFIX-750-6000	6.000" (6)

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

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ASME B18.8.4M TYPE B SLOTTED – METRIC

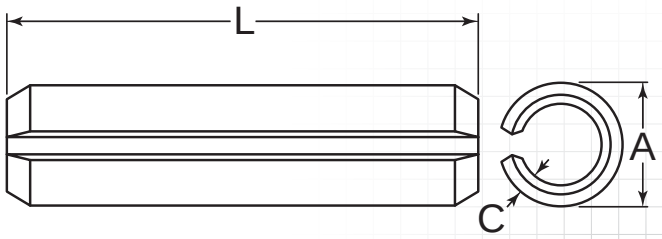
DESCRIPTION

A single-turn rolled pin, formed with one straight parallel slot. Slotted pins are economical and save time because they can be installed in a single operation. The hollow design and slot give them their unique self-locking capabilities.

HOW TO IDENTIFY

1. Verify single-turn roll with parallel slot.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

ASME B18.1.4M Type B identified by "-A" at end of item number.

SPM	=	HIGH CARBON STEEL, PLAIN*
SPMP	=	HIGH CARBON STEEL, PHOSPHATE
SPMZ	=	HIGH CARBON STEEL, ZINC CLEAR
SPM3P	=	302/304 STAINLESS STEEL, PASSIVATED
SPM9P	=	420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

1.50 mm
(A) Outside Diameter: +0.16/+0.08 mm

(C) Wall Thickness: 0.35 mm
Recommended Hole Diameter: 1.50-1.56 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-015-004-A	4.00 mm
PREFIX-015-005-A	5.00 mm
PREFIX-015-006-A	6.00 mm
PREFIX-015-008-A	8.00 mm
PREFIX-015-010-A	10.00 mm
PREFIX-015-012-A	12.00 mm
PREFIX-015-014-A	14.00 mm
PREFIX-015-016-A	16.00 mm
PREFIX-015-018-A	18.00 mm
PREFIX-015-020-A	20.00 mm
PREFIX-015-022-A	22.00 mm
PREFIX-015-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-015-026-A	26.00 mm
PREFIX-015-028-A	28.00 mm
PREFIX-015-030-A	30.00 mm

2.00 mm
(A) Outside Diameter: +0.19/+0.10 mm

(C) Wall Thickness: 0.45 mm
Recommended Hole Diameter: 2.00-2.07 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-020-004-A	4.00 mm
PREFIX-020-005-A	5.00 mm
PREFIX-020-006-A	6.00 mm
PREFIX-020-008-A	8.00 mm
PREFIX-020-010-A	10.00 mm
PREFIX-020-012-A	12.00 mm
PREFIX-020-014-A	14.00 mm
PREFIX-020-016-A	16.00 mm
PREFIX-020-018-A	18.00 mm
PREFIX-020-020-A	20.00 mm
PREFIX-020-022-A	22.00 mm
PREFIX-020-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-020-026-A	26.00 mm
PREFIX-020-028-A	28.00 mm
PREFIX-020-030-A	30.00 mm
PREFIX-020-032-A	32.00 mm
PREFIX-020-035-A	35.00 mm
PREFIX-020-040-A	40.00 mm
PREFIX-020-045-A	45.00 mm

2.50 mm
(A) Outside Diameter: +0.22/+.012 mm

(C) Wall Thickness: 0.55 mm
Recommended Hole Diameter: 2.50-2.58 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-025-005-A	5.00 mm
PREFIX-025-006-A	6.00 mm
PREFIX-025-008-A	8.00 mm
PREFIX-025-010-A	10.00 mm
PREFIX-025-012-A	12.00 mm
PREFIX-025-014-A	14.00 mm
PREFIX-025-016-A	16.00 mm
PREFIX-025-018-A	18.00 mm
PREFIX-025-020-A	20.00 mm
PREFIX-025-022-A	22.00 mm
PREFIX-025-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-025-026-A	26.00 mm
PREFIX-025-028-A	28.00 mm
PREFIX-025-030-A	30.00 mm
PREFIX-025-032-A	32.00 mm

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SLOTTED – METRIC

ASME B18.8.4M TYPE B

2.50 mm
(A) Outside Diameter: +0.22/+0.12 mm

(C) Wall Thickness: 0.55 mm
Recommended Hole Diameter: 2.50-2.58 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-025-035-A	35.00 mm
PREFIX-025-040-A	40.00 mm
PREFIX-025-045-A	45.00 mm

3.00 mm
(A) Outside Diameter: +0.25/+0.14 mm

(C) Wall Thickness: 0.65 mm
Recommended Hole Diameter: 3.00-3.10 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-030-005-A	5.00 mm
PREFIX-030-006-A	6.00 mm
PREFIX-030-008-A	8.00 mm
PREFIX-030-010-A	10.00 mm
PREFIX-030-012-A	12.00 mm
PREFIX-030-014-A	14.00 mm
PREFIX-030-016-A	16.00 mm
PREFIX-030-018-A	18.00 mm
PREFIX-030-020-A	20.00 mm
PREFIX-030-022-A	22.00 mm
PREFIX-030-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-030-026-A	26.00 mm
PREFIX-030-028-A	28.00 mm
PREFIX-030-030-A	30.00 mm
PREFIX-030-032-A	32.00 mm
PREFIX-030-035-A	35.00 mm
PREFIX-030-040-A	40.00 mm
PREFIX-030-045-A	45.00 mm
PREFIX-030-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-030-055-A	55.00 mm

4.00 mm
(A) Outside Diameter: +0.30/+0.16 mm

(C) Wall Thickness: 0.80 mm
Recommended Hole Diameter: 4.00-4.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-040-008-A	8.00 mm
PREFIX-040-010-A	10.00 mm
PREFIX-040-012-A	12.00 mm
PREFIX-040-014-A	14.00 mm
PREFIX-040-016-A	16.00 mm
PREFIX-040-018-A	18.00 mm
PREFIX-040-020-A	20.00 mm
PREFIX-040-022-A	22.00 mm
PREFIX-040-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-040-026-A	26.00 mm
PREFIX-040-028-A	28.00 mm
PREFIX-040-030-A	30.00 mm
PREFIX-040-032-A	32.00 mm
PREFIX-040-035-A	35.00 mm
PREFIX-040-040-A	40.00 mm
PREFIX-040-045-A	45.00 mm
PREFIX-040-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-040-055-A	55.00 mm
PREFIX-040-060-A	60.00 mm
PREFIX-040-065-A	65.00 mm
PREFIX-040-070-A	70.00 mm
PREFIX-040-075-A	75.00 mm

5.00 mm
(A) Outside Diameter: +0.33/+0.17 mm

(C) Wall Thickness: 1.00 mm
Recommended Hole Diameter: 5.00-5.12 mm

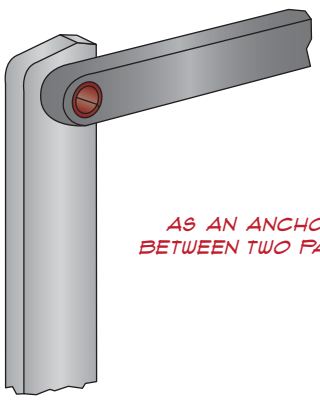
ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-050-010-A	10.00 mm
PREFIX-050-012-A	12.00 mm
PREFIX-050-014-A	14.00 mm
PREFIX-050-016-A	16.00 mm
PREFIX-050-018-A	18.00 mm
PREFIX-050-020-A	20.00 mm
PREFIX-050-022-A	22.00 mm
PREFIX-050-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-050-026-A	26.00 mm
PREFIX-050-028-A	28.00 mm
PREFIX-050-030-A	30.00 mm
PREFIX-050-032-A	32.00 mm
PREFIX-050-035-A	35.00 mm
PREFIX-050-036-A	36.00 mm
PREFIX-050-040-A	40.00 mm
PREFIX-050-045-A	45.00 mm
PREFIX-050-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-050-055-A	55.00 mm
PREFIX-050-060-A	60.00 mm
PREFIX-050-065-A	65.00 mm
PREFIX-050-070-A	70.00 mm
PREFIX-050-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-050-080-A	80.00 mm
PREFIX-050-085-A	85.00 mm

6.00 mm
(A) Outside Diameter: +0.36/+0.18 mm

(C) Wall Thickness: 1.20 mm
Recommended Hole Diameter: 6.00-6.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-060-012-A	12.00 mm
PREFIX-060-014-A	14.00 mm
PREFIX-060-016-A	16.00 mm
PREFIX-060-018-A	18.00 mm
PREFIX-060-020-A	20.00 mm
PREFIX-060-022-A	22.00 mm
PREFIX-060-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-060-026-A	26.00 mm
PREFIX-060-028-A	28.00 mm
PREFIX-060-030-A	30.00 mm
PREFIX-060-032-A	32.00 mm
PREFIX-060-035-A	35.00 mm
PREFIX-060-036-A	36.00 mm
PREFIX-060-040-A	40.00 mm
PREFIX-060-045-A	45.00 mm
PREFIX-060-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-060-055-A	55.00 mm
PREFIX-060-060-A	60.00 mm
PREFIX-060-065-A	65.00 mm
PREFIX-060-070-A	70.00 mm
PREFIX-060-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-060-080-A	80.00 mm
PREFIX-060-085-A	85.00 mm
PREFIX-060-090-A	90.00 mm
PREFIX-060-095-A	95.00 mm
PREFIX-060-100-A	100.00 mm
PREFIX-060-120-A	120.00 mm

APPLICATION



AS AN ANCHOR BETWEEN TWO PARTS

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ASME B18.8.4M TYPE B SLOTTED – METRIC

PREFIX	MATERIAL/FINISH

ASME B18.1.4M Type B identified by "-A" at end of item number.

SPM = HIGH CARBON STEEL, PLAIN*
SPMP = HIGH CARBON STEEL, PHOSPHATE
SPMZ = HIGH CARBON STEEL, ZINC CLEAR
SPM3P = 302/304 STAINLESS STEEL, PASSIVATED
SPM5P = 420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

8.00 mm
(A) Outside Diameter: +0.45/+0.22 mm

(C) Wall Thickness: 1.60 mm
Recommended Hole Diameter: 8.00-8.15 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-080-016-A	16.00 mm
PREFIX-080-018-A	18.00 mm
PREFIX-080-020-A	20.00 mm
PREFIX-080-022-A	22.00 mm
PREFIX-080-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-080-026-A	26.00 mm
PREFIX-080-028-A	28.00 mm
PREFIX-080-030-A	30.00 mm
PREFIX-080-032-A	32.00 mm
PREFIX-080-035-A	35.00 mm
PREFIX-080-040-A	40.00 mm
PREFIX-080-045-A	45.00 mm
PREFIX-080-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-080-055-A	55.00 mm
PREFIX-080-060-A	60.00 mm
PREFIX-080-065-A	65.00 mm
PREFIX-080-070-A	70.00 mm
PREFIX-080-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-080-080-A	80.00 mm
PREFIX-080-085-A	85.00 mm
PREFIX-080-090-A	90.00 mm
PREFIX-080-095-A	95.00 mm
PREFIX-080-100-A	100.00 mm
PREFIX-080-120-A	120.00 mm

10.00 mm
(A) Outside Diameter: +0.51/+0.25 mm

(C) Wall Thickness: 2.00 mm
Recommended Hole Diameter: 10.00-10.15 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-100-020-A	20.00 mm
PREFIX-100-022-A	22.00 mm
PREFIX-100-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-100-026-A	26.00 mm
PREFIX-100-028-A	28.00 mm
PREFIX-100-030-A	30.00 mm
PREFIX-100-032-A	32.00 mm
PREFIX-100-035-A	35.00 mm
PREFIX-100-040-A	40.00 mm
PREFIX-100-045-A	45.00 mm
PREFIX-100-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-100-055-A	55.00 mm
PREFIX-100-060-A	60.00 mm
PREFIX-100-065-A	65.00 mm
PREFIX-100-070-A	70.00 mm
PREFIX-100-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-100-080-A	80.00 mm
PREFIX-100-085-A	85.00 mm
PREFIX-100-090-A	90.00 mm
PREFIX-100-095-A	95.00 mm
PREFIX-100-100-A	100.00 mm
PREFIX-100-120-A	120.00 mm
PREFIX-100-140-A	140.00 mm
PREFIX-100-160-A	160.00 mm

12.00 mm
(A) Outside Diameter: +0.55/+0.28 mm

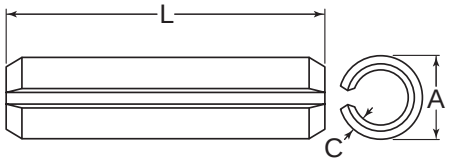
(C) Wall Thickness: 2.50 mm
Recommended Hole Diameter: 12.00-12.18 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.40/-0.40 mm
PREFIX-120-022-A	22.00 mm
PREFIX-120-024-A	24.00 mm
	+0.50/-0.50 mm
PREFIX-120-026-A	26.00 mm
PREFIX-120-028-A	28.00 mm
PREFIX-120-030-A	30.00 mm
PREFIX-120-032-A	32.00 mm
PREFIX-120-035-A	35.00 mm
PREFIX-120-040-A	40.00 mm
PREFIX-120-045-A	45.00 mm
PREFIX-120-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-120-055-A	55.00 mm
PREFIX-120-060-A	60.00 mm
PREFIX-120-065-A	65.00 mm
PREFIX-120-070-A	70.00 mm
PREFIX-120-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-120-080-A	80.00 mm
PREFIX-120-085-A	85.00 mm
PREFIX-120-090-A	90.00 mm
PREFIX-120-095-A	95.00 mm
PREFIX-120-100-A	100.00 mm
PREFIX-120-120-A	120.00 mm
PREFIX-120-140-A	140.00 mm
PREFIX-120-160-A	160.00 mm
PREFIX-120-180-A	180.00 mm

14.00 mm
(A) Outside Diameter: +0.60/+0.30 mm

(C) Wall Thickness: 3.00 mm
Recommended Hole Diameter: 14.00-14.18 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-140-030-A	30.00 mm
PREFIX-140-032-A	32.00 mm
PREFIX-140-035-A	35.00 mm
PREFIX-140-040-A	40.00 mm
PREFIX-140-045-A	45.00 mm
PREFIX-140-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-140-055-A	55.00 mm
PREFIX-140-060-A	60.00 mm
PREFIX-140-065-A	65.00 mm
PREFIX-140-070-A	70.00 mm
PREFIX-140-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-140-080-A	80.00 mm
PREFIX-140-085-A	85.00 mm
PREFIX-140-090-A	90.00 mm
PREFIX-140-095-A	95.00 mm
PREFIX-140-100-A	100.00 mm
PREFIX-140-120-A	120.00 mm
PREFIX-140-140-A	140.00 mm
PREFIX-140-160-A	160.00 mm
PREFIX-140-180-A	180.00 mm
PREFIX-140-200-A	200.00 mm



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SLOTTED – METRIC

ASME B18.8.4M TYPE B

ITEM NUMBER	(L) OVERALL LENGTH
16.00 mm (A) Outside Diameter: +0.65/+0.32 mm	
(C) Wall Thickness: 3.00 mm Recommended Hole Diameter: 16.00-16.18 mm	
	+0.50/-0.50 mm
PREFIX-160-032-A	32.00 mm
PREFIX-160-035-A	35.00 mm
PREFIX-160-040-A	40.00 mm
PREFIX-160-045-A	45.00 mm
PREFIX-160-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-160-055-A	55.00 mm
PREFIX-160-060-A	60.00 mm
PREFIX-160-065-A	65.00 mm
PREFIX-160-070-A	70.00 mm
PREFIX-160-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-160-080-A	80.00 mm
PREFIX-160-085-A	85.00 mm
PREFIX-160-090-A	90.00 mm
PREFIX-160-095-A	95.00 mm
PREFIX-160-100-A	100.00 mm
PREFIX-160-120-A	120.00 mm
PREFIX-160-140-A	140.00 mm
PREFIX-160-160-A	160.00 mm
PREFIX-160-180-A	180.00 mm
PREFIX-160-200-A	200.00 mm

ITEM NUMBER	(L) OVERALL LENGTH
18.00 mm (A) Outside Diameter: +0.71/+0.35 mm	
(C) Wall Thickness: 3.50 mm Recommended Hole Diameter: 18.00-18.18 mm	
	+0.50/-0.50 mm
PREFIX-180-035-A	35.00 mm
PREFIX-180-040-A	40.00 mm
PREFIX-180-045-A	45.00 mm
PREFIX-180-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-180-055-A	55.00 mm
PREFIX-180-060-A	60.00 mm
PREFIX-180-065-A	65.00 mm
PREFIX-180-070-A	70.00 mm
PREFIX-180-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-180-080-A	80.00 mm
PREFIX-180-085-A	85.00 mm
PREFIX-180-090-A	90.00 mm
PREFIX-180-095-A	95.00 mm
PREFIX-180-100-A	100.00 mm
PREFIX-180-120-A	120.00 mm
PREFIX-180-140-A	140.00 mm
PREFIX-180-160-A	160.00 mm
PREFIX-180-180-A	180.00 mm
PREFIX-180-200-A	200.00 mm

ITEM NUMBER	(L) OVERALL LENGTH
20.00 mm (A) Outside Diameter: +0.80/+0.40 mm	
(C) Wall Thickness: 4.00 mm Recommended Hole Diameter: 20.00-20.21 mm	
	+0.50/-0.50 mm
PREFIX-200-035-A	35.00 mm
PREFIX-200-040-A	40.00 mm
PREFIX-200-045-A	45.00 mm
PREFIX-200-050-A	50.00 mm
	+0.60/-0.60 mm
PREFIX-200-055-A	55.00 mm
PREFIX-200-060-A	60.00 mm
PREFIX-200-065-A	65.00 mm
PREFIX-200-070-A	70.00 mm
PREFIX-200-075-A	75.00 mm
	+0.75/-0.75 mm
PREFIX-200-080-A	80.00 mm
PREFIX-200-085-A	85.00 mm
PREFIX-200-090-A	90.00 mm
PREFIX-200-095-A	95.00 mm
PREFIX-200-100-A	100.00 mm
PREFIX-200-120-A	120.00 mm
PREFIX-200-140-A	140.00 mm
PREFIX-200-160-A	160.00 mm
PREFIX-200-180-A	180.00 mm
PREFIX-200-200-A	200.00 mm

ASME B18.8.4M VS. ISO 8752

SHEAR STRENGTH

NOMINAL DIAMETER	ISO KN	ASME KN
1.5 MM	1.58	1.8
2 MM	2.82	3.5
2.5 MM	4.38	5.5
3 MM	6.32	7.8
4 MM	11.24	12.3
5 MM	17.54	19.6
6 MM	26.04	28.5
8 MM	42.76	48.8
10 MM	70.16	79.1
12 MM	104.1	111.6
14 MM	144.7	170.0
16 MM	171.0	190.0
18 MM	222.5	250.0
20 MM	280.6	320.0

RECOMMENDED HOLES

NOMINAL DIAMETER	ISO	ASME
1.5 MM	1.50/1.60	1.50/1.56
2 MM	2.00/2.10	2.00/2.07
2.5 MM	2.50/2.65	2.50/2.58
3 MM & UP	No Difference	

LENGTH TOLERANCE

PIN LENGTH	ISO	ASME
4 – 10 MM	+0.25/-0.25 mm	+0.40/-0.40 mm
12 – 24 MM	+0.50/-0.50 mm	+0.40/-0.40 mm
26 – 50 MM	+0.50/-0.50 mm	+0.50/-0.50 mm
55 – 75 MM	+0.75/-0.75 mm	+0.60/-0.60 mm
80 – 100 MM	+0.75/-0.75 mm	+0.75/-0.75 mm

EXPANDED DIAMETER

ASME slotted spring pins have a smaller expanded or free diameter relative to the nominal hole.

STRAIGHTNESS

ASME specifices a straightness requirement.

MATERIAL

ASME includes Beryllium Copper.

SHEAR STRENGTH

ASME specifies a minimum double shear strength for austenitic stainless steel.

HARDNESS

The ASME specification for carbon steel is higher to maximize tensile strength. For chrome stainless steel it is slightly lower to avoid the risk of brittleness.

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ISO 8752 SLOTTED – METRIC

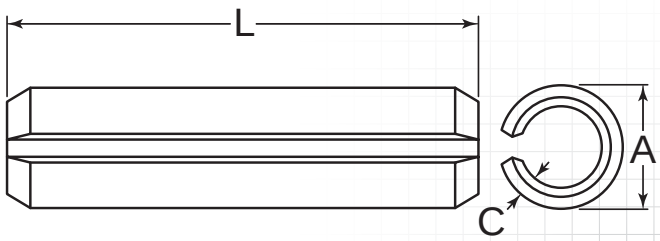
DESCRIPTION

A single-turn rolled pin, formed with one straight parallel slot. Slotted pins are economical and save time because they can be installed in a single operation. The hollow design and slot give them their unique self-locking capabilities. The ISO 8752 specification matches EN28752.

HOW TO IDENTIFY

1. Verify single-turn roll with parallel slot.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

ISO 8752 identified by "-I" at end of item number.

SPM = HIGH CARBON STEEL, PLAIN*
SPMP = HIGH CARBON STEEL, PHOSPHATE
SPMZ = HIGH CARBON STEEL, ZINC CLEAR

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

SPM3P = 302/304 STAINLESS STEEL, PASSIVATED
SPMSP = 420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

1.50 mm
(A) Outside Diameter: +0.03/+0.02 mm

(C) Wall Thickness: 0.30 mm
Recommended Hole Diameter: 1.50-1.60 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-015-004-I	4.00 mm
PREFIX-015-005-I	5.00 mm
PREFIX-015-006-I	6.00 mm
PREFIX-015-008-I	8.00 mm
PREFIX-015-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-015-012-I	12.00 mm
PREFIX-015-014-I	14.00 mm
PREFIX-015-016-I	16.00 mm
PREFIX-015-018-I	18.00 mm
PREFIX-015-020-I	20.00 mm
PREFIX-015-022-I	22.00 mm
PREFIX-015-024-I	24.00 mm
PREFIX-015-026-I	26.00 mm
PREFIX-015-028-I	28.00 mm

2.00 mm
(A) Outside Diameter: +0.04/+0.03 mm

(C) Wall Thickness: 0.40 mm
Recommended Hole Diameter: 2.00-2.10 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-020-004-I	4.00 mm
PREFIX-020-005-I	5.00 mm
PREFIX-020-006-I	6.00 mm
PREFIX-020-008-I	8.00 mm
PREFIX-020-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-020-012-I	12.00 mm
PREFIX-020-014-I	14.00 mm
PREFIX-020-016-I	16.00 mm
PREFIX-020-018-I	18.00 mm
PREFIX-020-020-I	20.00 mm
PREFIX-020-022-I	22.00 mm
PREFIX-020-024-I	24.00 mm
PREFIX-020-025-I	25.00 mm
PREFIX-020-026-I	26.00 mm
PREFIX-020-028-I	28.00 mm
PREFIX-020-030-I	30.00 mm
PREFIX-020-032-I	32.00 mm
PREFIX-020-035-I	35.00 mm
PREFIX-020-040-I	40.00 mm

2.50 mm
(A) Outside Diameter: +0.04/+0.03 mm

(C) Wall Thickness: 0.50 mm
Recommended Hole Diameter: 2.50-2.60 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-025-004-I	4.00 mm
PREFIX-025-005-I	5.00 mm
PREFIX-025-006-I	6.00 mm
PREFIX-025-008-I	8.00 mm
PREFIX-025-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-025-012-I	12.00 mm
PREFIX-025-014-I	14.00 mm
PREFIX-025-016-I	16.00 mm
PREFIX-025-018-I	18.00 mm
PREFIX-025-020-I	20.00 mm
PREFIX-025-022-I	22.00 mm
PREFIX-025-024-I	24.00 mm
PREFIX-025-026-I	26.00 mm
PREFIX-025-028-I	28.00 mm
PREFIX-025-030-I	30.00 mm
PREFIX-025-032-I	32.00 mm
PREFIX-025-035-I	35.00 mm

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SLOTTED – METRIC

ISO 8752

PREFIX	MATERIAL/FINISH
SPM	= HIGH CARBON STEEL, PLAIN*
SPMP	= HIGH CARBON STEEL, PHOSPHATE
SPMZ	= HIGH CARBON STEEL, ZINC CLEAR
SPM3P	= 302/304 STAINLESS STEEL, PASSIVATED
SPM5P	= 420 STAINLESS STEEL, PASSIVATED

ISO 8752 identified by "-I" at end of item number.

Material/finish combinations may not be available in all sizes.

2.50 mm
(A) Outside Diameter: +0.04/+0.03 mm

(C) Wall Thickness: 0.50 mm
Recommended Hole Diameter: 2.50-2.60 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-025-040-I	40.00 mm
PREFIX-025-045-I	45.00 mm

3.00 mm
(A) Outside Diameter: +0.05/+0.03 mm

(C) Wall Thickness: 0.60 mm
Recommended Hole Diameter: 3.00-3.10 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-030-004-I	4.00 mm
PREFIX-030-005-I	5.00 mm
PREFIX-030-006-I	6.00 mm
PREFIX-030-008-I	8.00 mm
PREFIX-030-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-030-012-I	12.00 mm
PREFIX-030-014-I	14.00 mm
PREFIX-030-016-I	16.00 mm
PREFIX-030-018-I	18.00 mm
PREFIX-030-020-I	20.00 mm
PREFIX-030-022-I	22.00 mm
PREFIX-030-024-I	24.00 mm
PREFIX-030-025-I	25.00 mm
PREFIX-030-026-I	26.00 mm
PREFIX-030-028-I	28.00 mm
PREFIX-030-030-I	30.00 mm
PREFIX-030-032-I	32.00 mm
PREFIX-030-035-I	35.00 mm
PREFIX-030-036-I	36.00 mm
PREFIX-030-040-I	40.00 mm
PREFIX-030-045-I	45.00 mm
PREFIX-030-050-I	50.00 mm

3.50 mm
(A) Outside Diameter: +0.05/+0.03 mm

(C) Wall Thickness: 0.75 mm
Recommended Hole Diameter: 3.50-3.62 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-035-004-I	4.00 mm
PREFIX-035-006-I	6.00 mm
PREFIX-035-008-I	8.00 mm
PREFIX-035-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-035-012-I	12.00 mm
PREFIX-035-014-I	14.00 mm
PREFIX-035-016-I	16.00 mm
PREFIX-035-018-I	18.00 mm
PREFIX-035-020-I	20.00 mm
PREFIX-035-022-I	22.00 mm
PREFIX-035-024-I	24.00 mm
PREFIX-035-026-I	26.00 mm
PREFIX-035-028-I	28.00 mm
PREFIX-035-030-I	30.00 mm
PREFIX-035-032-I	32.00 mm
PREFIX-035-035-I	35.00 mm
PREFIX-035-040-I	40.00 mm
PREFIX-035-045-I	45.00 mm
PREFIX-035-050-I	50.00 mm

4.00 mm
(A) Outside Diameter: +0.06/+0.04 mm

(C) Wall Thickness: 0.80 mm
Recommended Hole Diameter: 4.00-4.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-040-004-I	4.00 mm
PREFIX-040-005-I	5.00 mm
PREFIX-040-006-I	6.00 mm
PREFIX-040-008-I	8.00 mm
PREFIX-040-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-040-012-I	12.00 mm
PREFIX-040-014-I	14.00 mm
PREFIX-040-016-I	16.00 mm
PREFIX-040-018-I	18.00 mm
PREFIX-040-020-I	20.00 mm
PREFIX-040-022-I	22.00 mm
PREFIX-040-024-I	24.00 mm
PREFIX-040-026-I	26.00 mm
PREFIX-040-028-I	28.00 mm
PREFIX-040-030-I	30.00 mm
PREFIX-040-032-I	32.00 mm
PREFIX-040-035-I	35.00 mm
PREFIX-040-036-I	36.00 mm
PREFIX-040-040-I	40.00 mm
PREFIX-040-045-I	45.00 mm
PREFIX-040-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-040-055-I	55.00 mm
PREFIX-040-060-I	60.00 mm

4.50 mm
(A) Outside Diameter: +0.06/+0.04 mm

(C) Wall Thickness: 1.00 mm
Recommended Hole Diameter: 4.50-4.62 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-045-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-045-012-I	12.00 mm
PREFIX-045-014-I	14.00 mm
PREFIX-045-016-I	16.00 mm
PREFIX-045-018-I	18.00 mm
PREFIX-045-020-I	20.00 mm
PREFIX-045-022-I	22.00 mm
PREFIX-045-024-I	24.00 mm
PREFIX-045-026-I	26.00 mm
PREFIX-045-028-I	28.00 mm
PREFIX-045-030-I	30.00 mm
PREFIX-045-032-I	32.00 mm
PREFIX-045-035-I	35.00 mm
PREFIX-045-040-I	40.00 mm
PREFIX-045-045-I	45.00 mm
PREFIX-045-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-045-055-I	55.00 mm
PREFIX-045-060-I	60.00 mm

5.00 mm
(A) Outside Diameter: +0.06/+0.04 mm

(C) Wall Thickness: 1.00 mm
Recommended Hole Diameter: 5.00-5.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-050-006-I	6.00 mm
PREFIX-050-008-I	8.00 mm
PREFIX-050-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-050-012-I	12.00 mm
PREFIX-050-014-I	14.00 mm
PREFIX-050-016-I	16.00 mm
PREFIX-050-018-I	18.00 mm
PREFIX-050-020-I	20.00 mm

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ISO 8752

SLOTTED – METRIC

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-050-022-I	22.00 mm
PREFIX-050-024-I	24.00 mm
PREFIX-050-025-I	25.00 mm
PREFIX-050-026-I	26.00 mm
PREFIX-050-028-I	28.00 mm
PREFIX-050-030-I	30.00 mm
PREFIX-050-032-I	32.00 mm
PREFIX-050-035-I	35.00 mm
PREFIX-050-036-I	36.00 mm
PREFIX-050-038-I	38.00 mm
PREFIX-050-040-I	40.00 mm
PREFIX-050-045-I	45.00 mm
PREFIX-050-046-I	46.00 mm
PREFIX-050-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-050-055-I	55.00 mm
PREFIX-050-060-I	60.00 mm
PREFIX-050-065-I	65.00 mm
PREFIX-050-070-I	70.00 mm
PREFIX-050-075-I	75.00 mm
PREFIX-050-080-I	80.00 mm

6.00 mm

(A) Outside Diameter: +0.07/+0.04 mm

(C) Wall Thickness: 1.20 mm
Recommended Hole Diameter: 6.00-6.12 mm

	+0.25/-0.25 mm
PREFIX-060-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-060-012-I	12.00 mm
PREFIX-060-014-I	14.00 mm
PREFIX-060-016-I	16.00 mm
PREFIX-060-018-I	18.00 mm
PREFIX-060-020-I	20.00 mm
PREFIX-060-022-I	22.00 mm
PREFIX-060-024-I	24.00 mm
PREFIX-060-025-I	25.00 mm
PREFIX-060-026-I	26.00 mm
PREFIX-060-028-I	28.00 mm
PREFIX-060-030-I	30.00 mm
PREFIX-060-032-I	32.00 mm
PREFIX-060-035-I	35.00 mm
PREFIX-060-036-I	36.00 mm
PREFIX-060-040-I	40.00 mm
PREFIX-060-045-I	45.00 mm
PREFIX-060-046-I	46.00 mm
PREFIX-060-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-060-055-I	55.00 mm
PREFIX-060-060-I	60.00 mm
PREFIX-060-065-I	65.00 mm
PREFIX-060-070-I	70.00 mm
PREFIX-060-075-I	75.00 mm

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-060-080-I	80.00 mm
PREFIX-060-085-I	85.00 mm
PREFIX-060-090-I	90.00 mm
PREFIX-060-095-I	95.00 mm
PREFIX-060-100-I	100.00 mm

8.00 mm

(A) Outside Diameter: +0.08/+0.05 mm

(C) Wall Thickness: 1.50 mm
Recommended Hole Diameter: 8.00-8.15 mm

	+0.25/-0.25 mm
PREFIX-080-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-080-012-I	12.00 mm
PREFIX-080-014-I	14.00 mm
PREFIX-080-016-I	16.00 mm
PREFIX-080-018-I	18.00 mm
PREFIX-080-020-I	20.00 mm
PREFIX-080-022-I	22.00 mm
PREFIX-080-024-I	24.00 mm
PREFIX-080-025-I	25.00 mm
PREFIX-080-026-I	26.00 mm
PREFIX-080-028-I	28.00 mm
PREFIX-080-030-I	30.00 mm
PREFIX-080-032-I	32.00 mm
PREFIX-080-035-I	35.00 mm
PREFIX-080-036-I	36.00 mm
PREFIX-080-040-I	40.00 mm
PREFIX-080-045-I	45.00 mm
PREFIX-080-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-080-055-I	55.00 mm
PREFIX-080-060-I	60.00 mm
PREFIX-080-065-I	65.00 mm
PREFIX-080-070-I	70.00 mm
PREFIX-080-075-I	75.00 mm
PREFIX-080-080-I	80.00 mm
PREFIX-080-085-I	85.00 mm
PREFIX-080-090-I	90.00 mm
PREFIX-080-095-I	95.00 mm
PREFIX-080-100-I	100.00 mm
PREFIX-080-120-I	120.00 mm

10.00 mm

(A) Outside Diameter: +0.08/+0.05 mm

(C) Wall Thickness: 2.00 mm
Recommended Hole Diameter: 10.00-10.15 mm

	+0.25/-0.25 mm
PREFIX-100-010-I	10.00 mm
	+0.50/-0.50 mm
PREFIX-100-012-I	12.00 mm
PREFIX-100-014-I	14.00 mm
PREFIX-100-016-I	16.00 mm

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-100-018-I	18.00 mm
PREFIX-100-020-I	20.00 mm
PREFIX-100-022-I	22.00 mm
PREFIX-100-024-I	24.00 mm
PREFIX-100-026-I	26.00 mm
PREFIX-100-028-I	28.00 mm
PREFIX-100-030-I	30.00 mm
PREFIX-100-032-I	32.00 mm
PREFIX-100-035-I	35.00 mm
PREFIX-100-036-I	36.00 mm
PREFIX-100-038-I	38.00 mm
PREFIX-100-040-I	40.00 mm
PREFIX-100-045-I	45.00 mm
PREFIX-100-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-100-055-I	55.00 mm
PREFIX-100-060-I	60.00 mm
PREFIX-100-065-I	65.00 mm
PREFIX-100-070-I	70.00 mm
PREFIX-100-075-I	75.00 mm
PREFIX-100-080-I	80.00 mm
PREFIX-100-085-I	85.00 mm
PREFIX-100-090-I	90.00 mm
PREFIX-100-095-I	95.00 mm
PREFIX-100-100-I	100.00 mm
PREFIX-100-120-I	120.00 mm
PREFIX-100-140-I	140.00 mm
PREFIX-100-160-I	160.00 mm

12.00 mm

(A) Outside Diameter: +0.08/+0.05 mm

(C) Wall Thickness: 2.50 mm
Recommended Hole Diameter: 12.00-12.18 mm

	+0.50/-0.50 mm
PREFIX-120-022-I	22.00 mm
PREFIX-120-024-I	24.00 mm
PREFIX-120-026-I	26.00 mm
PREFIX-120-028-I	28.00 mm
PREFIX-120-030-I	30.00 mm
PREFIX-120-032-I	32.00 mm
PREFIX-120-035-I	35.00 mm
PREFIX-120-040-I	40.00 mm
PREFIX-120-045-I	45.00 mm
PREFIX-120-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-120-055-I	55.00 mm
PREFIX-120-060-I	60.00 mm
PREFIX-120-065-I	65.00 mm
PREFIX-120-070-I	70.00 mm
PREFIX-120-075-I	75.00 mm
PREFIX-120-080-I	80.00 mm
PREFIX-120-085-I	85.00 mm
PREFIX-120-090-I	90.00 mm

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SLOTTED – METRIC

ISO 8752

PREFIX	MATERIAL/FINISH
SPM	= HIGH CARBON STEEL, PLAIN*
SPMP	= HIGH CARBON STEEL, PHOSPHATE
SPMZ	= HIGH CARBON STEEL, ZINC CLEAR
SPM3P	= 302/304 STAINLESS STEEL, PASSIVATED
SPM9P	= 420 STAINLESS STEEL, PASSIVATED

ISO 8752 identified by "-I" at end of item number.

Material/finish combinations may not be available in all sizes.

12.00 mm
(A) Outside Diameter: +0.08/+0.05 mm

(C) Wall Thickness: 2.50 mm
Recommended Hole Diameter: 12.00-12.18 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.75/-0.75 mm
PREFIX-120-095-I	95.00 mm
PREFIX-120-100-I	100.00 mm
PREFIX-120-120-I	120.00 mm
PREFIX-120-140-I	140.00 mm
PREFIX-120-160-I	160.00 mm
PREFIX-120-180-I	180.00 mm

14.00 mm
(A) Outside Diameter: +0.08/+0.05 mm

(C) Wall Thickness: 3.00 mm
Recommended Hole Diameter: 14.00-14.18 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-140-022-I	22.00 mm
PREFIX-140-030-I	30.00 mm
PREFIX-140-032-I	32.00 mm
PREFIX-140-035-I	35.00 mm
PREFIX-140-040-I	40.00 mm
PREFIX-140-045-I	45.00 mm
PREFIX-140-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-140-055-I	55.00 mm
PREFIX-140-060-I	60.00 mm
PREFIX-140-065-I	65.00 mm
PREFIX-140-070-I	70.00 mm
PREFIX-140-075-I	75.00 mm
PREFIX-140-080-I	80.00 mm
PREFIX-140-085-I	85.00 mm
PREFIX-140-090-I	90.00 mm
PREFIX-140-095-I	95.00 mm
PREFIX-140-100-I	100.00 mm
PREFIX-140-120-I	120.00 mm
PREFIX-140-140-I	140.00 mm
PREFIX-140-160-I	160.00 mm
PREFIX-140-180-I	180.00 mm
PREFIX-140-200-I	200.00 mm

16.00 mm
(A) Outside Diameter: +0.08/+0.05 mm

(C) Wall Thickness: 3.00 mm
Recommended Hole Diameter: 16.00-16.18 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-160-032-I	32.00 mm
PREFIX-160-035-I	35.00 mm
PREFIX-160-040-I	40.00 mm
PREFIX-160-045-I	45.00 mm
PREFIX-160-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-160-055-I	55.00 mm
PREFIX-160-060-I	60.00 mm
PREFIX-160-065-I	65.00 mm
PREFIX-160-070-I	70.00 mm
PREFIX-160-075-I	75.00 mm
PREFIX-160-080-I	80.00 mm
PREFIX-160-085-I	85.00 mm
PREFIX-160-090-I	90.00 mm
PREFIX-160-095-I	95.00 mm
PREFIX-160-100-I	100.00 mm
PREFIX-160-120-I	120.00 mm
PREFIX-160-140-I	140.00 mm
PREFIX-160-160-I	160.00 mm
PREFIX-160-180-I	180.00 mm
PREFIX-160-200-I	200.00 mm

18.00 mm
(A) Outside Diameter: +0.09/+0.05 mm

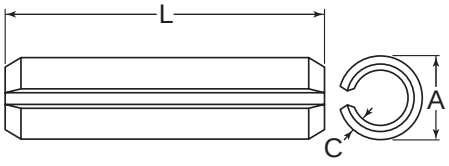
(C) Wall Thickness: 3.50 mm
Recommended Hole Diameter: 18.00-18.18 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-180-035-I	35.00 mm
PREFIX-180-040-I	40.00 mm
PREFIX-180-045-I	45.00 mm
PREFIX-180-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-180-055-I	55.00 mm
PREFIX-180-060-I	60.00 mm
PREFIX-180-065-I	65.00 mm
PREFIX-180-070-I	70.00 mm
PREFIX-180-075-I	75.00 mm
PREFIX-180-080-I	80.00 mm
PREFIX-180-085-I	85.00 mm
PREFIX-180-090-I	90.00 mm
PREFIX-180-095-I	95.00 mm
PREFIX-180-100-I	100.00 mm
PREFIX-180-120-I	120.00 mm
PREFIX-180-140-I	140.00 mm
PREFIX-180-160-I	160.00 mm
PREFIX-180-180-I	180.00 mm
PREFIX-180-200-I	200.00 mm

20.00 mm
(A) Outside Diameter: +0.09/+0.05 mm

(C) Wall Thickness: 4.00 mm
Recommended Hole Diameter: 20.00-20.21 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-200-035-I	35.00 mm
PREFIX-200-040-I	40.00 mm
PREFIX-200-045-I	45.00 mm
PREFIX-200-050-I	50.00 mm
	+0.75/-0.75 mm
PREFIX-200-055-I	55.00 mm
PREFIX-200-060-I	60.00 mm
PREFIX-200-065-I	65.00 mm
PREFIX-200-070-I	70.00 mm
PREFIX-200-075-I	75.00 mm
PREFIX-200-080-I	80.00 mm
PREFIX-200-085-I	85.00 mm
PREFIX-200-090-I	90.00 mm
PREFIX-200-095-I	95.00 mm
PREFIX-200-100-I	100.00 mm
PREFIX-200-120-I	120.00 mm
PREFIX-200-140-I	140.00 mm
PREFIX-200-160-I	160.00 mm
PREFIX-200-180-I	180.00 mm
PREFIX-200-200-I	200.00 mm



FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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ASME B18.8.2 COILED – LIGHT DUTY, IMPERIAL

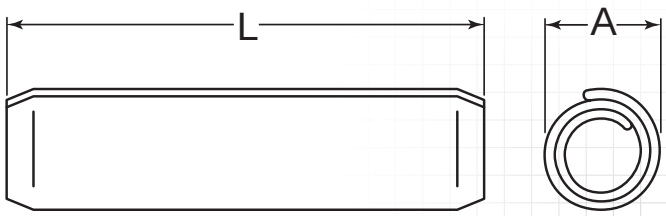
DESCRIPTION

Sometimes referred to as spiral pins, coiled pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section. Light duty pins are made from thinner walled material.

HOW TO IDENTIFY

1. Verify rolled pin with 2-1/4 turns.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

PREFIX MATERIAL/FINISH

Light duty identified by "L" at end of item number.

SPC	=	HIGH CARBON STEEL, PLAIN*
SPCP	=	HIGH CARBON STEEL, PHOSPHATE
SPCZ	=	HIGH CARBON STEEL, ZINC CLEAR
SPC3P	=	302/304 STAINLESS STEEL, PASSIVATED
SPC9P	=	420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

1/16 (.063")

(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .061-.065"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-062-0187L	.188" (3/16)
PREFIX-062-0250L	.250" (1/4)
PREFIX-062-0312L	.313" (5/16)
PREFIX-062-0375L	.375" (3/8)
PREFIX-062-0437L	.438" (7/16)
PREFIX-062-0500L	.500" (1/2)
PREFIX-062-0562L	.563" (9/16)
PREFIX-062-0625L	.625" (5/8)
PREFIX-062-0750L	.750" (3/4)
PREFIX-062-0875L	.875" (7/8)
PREFIX-062-1000L	1.000" (1)

5/64 (.078")

(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .077-.081"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-078-0187L	.188" (3/16)
PREFIX-078-0250L	.250" (1/4)
PREFIX-078-0312L	.313" (5/16)
PREFIX-078-0375L	.375" (3/8)
PREFIX-078-0437L	.438" (7/16)
PREFIX-078-0500L	.500" (1/2)
PREFIX-078-0562L	.563" (9/16)
PREFIX-078-0625L	.625" (5/8)
PREFIX-078-0750L	.750" (3/4)
PREFIX-078-0875L	.875" (7/8)
PREFIX-078-1000L	1.000" (1)
PREFIX-078-1125L	1.125" (1-1/8)
PREFIX-078-1250L	1.250" (1-1/4)
PREFIX-078-1375L	1.375" (1-3/8)
PREFIX-078-1500L	1.500" (1-1/2)

3/32 (.094")

(A) Outside Diameter: +.012/+.005"

Recommended Hole Diameter: .093-.097"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-093-0187L	.188" (3/16)
PREFIX-093-0250L	.250" (1/4)
PREFIX-093-0312L	.313" (5/16)
PREFIX-093-0375L	.375" (3/8)
PREFIX-093-0437L	.438" (7/16)
PREFIX-093-0500L	.500" (1/2)
PREFIX-093-0562L	.563" (9/16)
PREFIX-093-0625L	.625" (5/8)
PREFIX-093-0750L	.750" (3/4)
PREFIX-093-0875L	.875" (7/8)
PREFIX-093-1000L	1.000" (1)
PREFIX-093-1125L	1.125" (1-1/8)
PREFIX-093-1250L	1.250" (1-1/4)
PREFIX-093-1375L	1.375" (1-3/8)
PREFIX-093-1500L	1.500" (1-1/2)

7/64 (.109")

(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .108-.112"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-109-0250L	.250" (1/4)
PREFIX-109-0312L	.313" (5/16)
PREFIX-109-0375L	.375" (3/8)
PREFIX-109-0437L	.438" (7/16)
PREFIX-109-0500L	.500" (1/2)
PREFIX-109-0562L	.563" (9/16)
PREFIX-109-0625L	.625" (5/8)
PREFIX-109-0750L	.750" (3/4)
PREFIX-109-0875L	.875" (7/8)
PREFIX-109-1000L	1.000" (1)
PREFIX-109-1125L	1.125" (1-1/8)
PREFIX-109-1250L	1.250" (1-1/4)
PREFIX-109-1375L	1.375" (1-3/8)
PREFIX-109-1500L	1.500" (1-1/2)
PREFIX-109-1625L	1.625" (1-5/8)
PREFIX-109-1750L	1.750" (1-3/4)

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COILED – LIGHT DUTY, IMPERIAL

ASME B18.8.2

1/8 (.125")

(A) Outside Diameter: +.014/+.006"

Recommended Hole Diameter: .124-.129"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-125-0250L	.250" (1/4)
PREFIX-125-0312L	.313" (5/16)
PREFIX-125-0375L	.375" (3/8)
PREFIX-125-0437L	.438" (7/16)
PREFIX-125-0500L	.500" (1/2)
PREFIX-125-0562L	.563" (9/16)
PREFIX-125-0625L	.625" (5/8)
PREFIX-125-0750L	.750" (3/4)
PREFIX-125-0875L	.875" (7/8)
PREFIX-125-1000L	1.000" (1)
PREFIX-125-1125L	1.125" (1-1/8)
PREFIX-125-1250L	1.250" (1-1/4)
PREFIX-125-1375L	1.375" (1-3/8)
PREFIX-125-1500L	1.500" (1-1/2)
PREFIX-125-1625L	1.625" (1-5/8)
PREFIX-125-1750L	1.750" (1-3/4)
PREFIX-125-1875L	1.875" (1-7/8)
PREFIX-125-2000L	2.000" (2)

5/32 (.156")

(A) Outside Diameter: +.016/+.007"

Recommended Hole Diameter: .155-.160"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-156-0312L	.313" (5/16)
PREFIX-156-0375L	.375" (3/8)
PREFIX-156-0437L	.438" (7/16)
PREFIX-156-0500L	.500" (1/2)
PREFIX-156-0562L	.563" (9/16)
PREFIX-156-0625L	.625" (5/8)
PREFIX-156-0750L	.750" (3/4)
PREFIX-156-0875L	.875" (7/8)
PREFIX-156-1000L	1.000" (1)
PREFIX-156-1125L	1.125" (1-1/8)
PREFIX-156-1250L	1.250" (1-1/4)
PREFIX-156-1375L	1.375" (1-3/8)
PREFIX-156-1500L	1.500" (1-1/2)
PREFIX-156-1625L	1.625" (1-5/8)
PREFIX-156-1750L	1.750" (1-3/4)
PREFIX-156-1875L	1.875" (1-7/8)
PREFIX-156-2000L	2.000" (2)
	+.015/-.015"
PREFIX-156-2250L	2.250" (2-1/4)
PREFIX-156-2500L	2.500" (2-1/2)

3/16 (.188")

(A) Outside Diameter: +.020/+.009"

Recommended Hole Diameter: .185-.192"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-187-0375L	.375" (3/8)
PREFIX-187-0437L	.438" (7/16)
PREFIX-187-0500L	.500" (1/2)
PREFIX-187-0562L	.563" (9/16)
PREFIX-187-0625L	.625" (5/8)
PREFIX-187-0750L	.750" (3/4)
PREFIX-187-0875L	.875" (7/8)
PREFIX-187-1000L	1.000" (1)
PREFIX-187-1125L	1.125" (1-1/8)
PREFIX-187-1250L	1.250" (1-1/4)
PREFIX-187-1375L	1.375" (1-3/8)
PREFIX-187-1500L	1.500" (1-1/2)
PREFIX-187-1625L	1.625" (1-5/8)
PREFIX-187-1750L	1.750" (1-3/4)
PREFIX-187-1875L	1.875" (1-7/8)
PREFIX-187-2000L	2.000" (2)
	+.015/-.015"
PREFIX-187-2250L	2.250" (2-1/4)
PREFIX-187-2500L	2.500" (2-1/2)

7/32 (.219")

(A) Outside Diameter: +.019/+.009"

Recommended Hole Diameter: .217-.224"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-218-0500L	.500" (1/2)
PREFIX-218-0562L	.563" (9/16)
PREFIX-218-0625L	.625" (5/8)
PREFIX-218-0750L	.750" (3/4)
PREFIX-218-0875L	.875" (7/8)
PREFIX-218-1000L	1.000" (1)
PREFIX-218-1125L	1.125" (1-1/8)
PREFIX-218-1250L	1.250" (1-1/4)
PREFIX-218-1375L	1.375" (1-3/8)
PREFIX-218-1500L	1.500" (1-1/2)
PREFIX-218-1625L	1.625" (1-5/8)
PREFIX-218-1750L	1.750" (1-3/4)
PREFIX-218-1875L	1.875" (1-7/8)
PREFIX-218-2000L	2.000" (2)
	+.015/-.015"
PREFIX-218-2250L	2.250" (2-1/4)
PREFIX-218-2500L	2.500" (2-1/2)
PREFIX-218-2750L	2.750" (2-3/4)
PREFIX-218-3000L	3.000" (3)

1/4 (.250")

(A) Outside Diameter: +.023/+.010"

Recommended Hole Diameter: .247-.256"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-250-0500L	.500" (1/2)
PREFIX-250-0562L	.563" (9/16)
PREFIX-250-0625L	.625" (5/8)
PREFIX-250-0750L	.750" (3/4)
PREFIX-250-0875L	.875" (7/8)
PREFIX-250-1000L	1.000" (1)
PREFIX-250-1125L	1.125" (1-1/8)
PREFIX-250-1250L	1.250" (1-1/4)
PREFIX-250-1375L	1.375" (1-3/8)
PREFIX-250-1500L	1.500" (1-1/2)
PREFIX-250-1625L	1.625" (1-5/8)
PREFIX-250-1750L	1.750" (1-3/4)
PREFIX-250-1875L	1.875" (1-7/8)
PREFIX-250-2000L	2.000" (2)
	+.015/-.015"
PREFIX-250-2250L	2.250" (2-1/4)
PREFIX-250-2500L	2.500" (2-1/2)
PREFIX-250-2750L	2.750" (2-3/4)
PREFIX-250-3000L	3.000" (3)
PREFIX-250-3250L	3.250" (3-1/4)
PREFIX-250-3500L	3.500" (3-1/2)

5/16 (.313")

(A) Outside Diameter: +.024/+.011"

Recommended Hole Diameter: .308-.319"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-312-0625L	.625" (5/8)
PREFIX-312-0750L	.750" (3/4)
PREFIX-312-0875L	.875" (7/8)
PREFIX-312-1000L	1.000" (1)
PREFIX-312-1125L	1.125" (1-1/8)
PREFIX-312-1250L	1.250" (1-1/4)
PREFIX-312-1375L	1.375" (1-3/8)
PREFIX-312-1500L	1.500" (1-1/2)
PREFIX-312-1625L	1.625" (1-5/8)
PREFIX-312-1750L	1.750" (1-3/4)
PREFIX-312-1875L	1.875" (1-7/8)
PREFIX-312-2000L	2.000" (2)
	+.015/-.015"
PREFIX-312-2250L	2.250" (2-1/4)
PREFIX-312-2500L	2.500" (2-1/2)
PREFIX-312-2750L	2.750" (2-3/4)
PREFIX-312-3000L	3.000" (3)
PREFIX-312-3250L	3.250" (3-1/4)
PREFIX-312-3500L	3.500" (3-1/2)
PREFIX-312-3750L	3.750" (3-3/4)
PREFIX-312-4000L	4.000" (4)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

SPC • SPCP • SPCZ • SPC3P • SPCSP

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ASME B18.8.3M/ISO 8751

COILED – LIGHT DUTY, METRIC

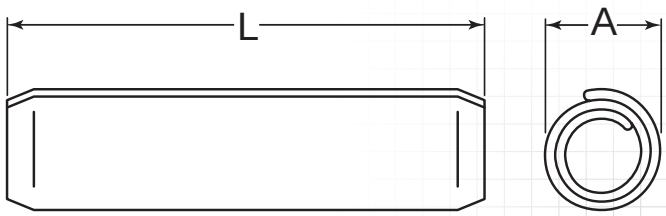
DESCRIPTION

Sometimes referred to as spiral pins, coiled pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section. Light duty pins are made from thinner walled material.

HOW TO IDENTIFY

1. Verify rolled pin with 2-1/4 turns.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

PREFIX MATERIAL/FINISH

ISO 8751 identified by "L" at end of item number.

SPCM = HIGH CARBON STEEL, PLAIN*
SPCMP = HIGH CARBON STEEL, PHOSPHATE
SPCMZ = HIGH CARBON STEEL, ZINC CLEAR
SPCM3P = 302/304 STAINLESS STEEL, PASSIVATED
SPCMSP = 420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

1.50 mm
(A) Outside Diameter: +0.25/+0.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-015-004L	4.00 mm
PREFIX-015-005L	5.00 mm
PREFIX-015-006L	6.00 mm
PREFIX-015-008L	8.00 mm
PREFIX-015-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-015-012L	12.00 mm
PREFIX-015-014L	14.00 mm
PREFIX-015-016L	16.00 mm
PREFIX-015-018L	18.00 mm
PREFIX-015-020L	20.00 mm
PREFIX-015-022L	22.00 mm
PREFIX-015-024L	24.00 mm
PREFIX-015-026L	26.00 mm

2.00 mm
(A) Outside Diameter: +0.28/+0.13 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-020-004L	4.00 mm
PREFIX-020-005L	5.00 mm
PREFIX-020-006L	6.00 mm
PREFIX-020-008L	8.00 mm
PREFIX-020-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-020-012L	12.00 mm
PREFIX-020-014L	14.00 mm
PREFIX-020-016L	16.00 mm
PREFIX-020-018L	18.00 mm
PREFIX-020-020L	20.00 mm
PREFIX-020-022L	22.00 mm
PREFIX-020-024L	24.00 mm
PREFIX-020-026L	26.00 mm
PREFIX-020-028L	28.00 mm
PREFIX-020-030L	30.00 mm
PREFIX-020-035L	35.00 mm
PREFIX-020-040L	40.00 mm

2.50 mm
(A) Outside Diameter: +0.32/+0.15 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-025-005L	5.00 mm
PREFIX-025-006L	6.00 mm
PREFIX-025-008L	8.00 mm
PREFIX-025-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-025-012L	12.00 mm
PREFIX-025-014L	14.00 mm
PREFIX-025-016L	16.00 mm
PREFIX-025-018L	18.00 mm
PREFIX-025-020L	20.00 mm
PREFIX-025-022L	22.00 mm
PREFIX-025-024L	24.00 mm
PREFIX-025-026L	26.00 mm
PREFIX-025-028L	28.00 mm
PREFIX-025-030L	30.00 mm
PREFIX-025-035L	35.00 mm
PREFIX-025-040L	40.00 mm
PREFIX-025-045L	45.00 mm

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COILED – LIGHT DUTY, METRIC

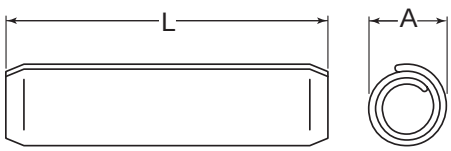
ASME B18.8.3M/ISO 8751

3.00 mm
(A) Outside Diameter: +0.35/+0.15 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-030-006L	6.00 mm
PREFIX-030-008L	8.00 mm
PREFIX-030-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-030-012L	12.00 mm
PREFIX-030-014L	14.00 mm
PREFIX-030-016L	16.00 mm
PREFIX-030-018L	18.00 mm
PREFIX-030-020L	20.00 mm
PREFIX-030-022L	22.00 mm
PREFIX-030-024L	24.00 mm
PREFIX-030-026L	26.00 mm
PREFIX-030-028L	28.00 mm
PREFIX-030-030L	30.00 mm
PREFIX-030-035L	35.00 mm
PREFIX-030-040L	40.00 mm
PREFIX-030-045L	45.00 mm
PREFIX-030-050L	50.00 mm

3.50 mm
(A) Outside Diameter: +0.37/+0.17 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-035-006L	6.00 mm
PREFIX-035-008L	8.00 mm
PREFIX-035-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-035-012L	12.00 mm
PREFIX-035-014L	14.00 mm
PREFIX-035-016L	16.00 mm
PREFIX-035-018L	18.00 mm
PREFIX-035-020L	20.00 mm
PREFIX-035-022L	22.00 mm
PREFIX-035-024L	24.00 mm
PREFIX-035-026L	26.00 mm
PREFIX-035-028L	28.00 mm
PREFIX-035-030L	30.00 mm
PREFIX-035-035L	35.00 mm
PREFIX-035-040L	40.00 mm
PREFIX-035-045L	45.00 mm
PREFIX-035-050L	50.00 mm



4.00 mm
(A) Outside Diameter: +0.45/+0.20 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-040-008L	8.00 mm
PREFIX-040-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-040-012L	12.00 mm
PREFIX-040-014L	14.00 mm
PREFIX-040-016L	16.00 mm
PREFIX-040-018L	18.00 mm
PREFIX-040-020L	20.00 mm
PREFIX-040-022L	22.00 mm
PREFIX-040-024L	24.00 mm
PREFIX-040-026L	26.00 mm
PREFIX-040-028L	28.00 mm
PREFIX-040-030L	30.00 mm
PREFIX-040-035L	35.00 mm
PREFIX-040-040L	40.00 mm
PREFIX-040-045L	45.00 mm
PREFIX-040-050L	50.00 mm
	+0.75/-0.75 mm
PREFIX-040-055L	55.00 mm
PREFIX-040-060L	60.00 mm

5.00 mm
(A) Outside Diameter: +0.50/+0.20 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-050-010L	10.00 mm
	+0.50/-0.50 mm
PREFIX-050-012L	12.00 mm
PREFIX-050-014L	14.00 mm
PREFIX-050-016L	16.00 mm
PREFIX-050-018L	18.00 mm
PREFIX-050-020L	20.00 mm
PREFIX-050-022L	22.00 mm
PREFIX-050-024L	24.00 mm
PREFIX-050-026L	26.00 mm
PREFIX-050-028L	28.00 mm
PREFIX-050-030L	30.00 mm
PREFIX-050-035L	35.00 mm
PREFIX-050-040L	40.00 mm
PREFIX-050-045L	45.00 mm
PREFIX-050-050L	50.00 mm
	+0.75/-0.75 mm
PREFIX-050-055L	55.00 mm
PREFIX-050-060L	60.00 mm

6.00 mm
(A) Outside Diameter: +0.55/+0.25 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-060-012L	12.00 mm
PREFIX-060-014L	14.00 mm
PREFIX-060-016L	16.00 mm
PREFIX-060-018L	18.00 mm
PREFIX-060-020L	20.00 mm
PREFIX-060-022L	22.00 mm
PREFIX-060-024L	24.00 mm
PREFIX-060-026L	26.00 mm
PREFIX-060-028L	28.00 mm
PREFIX-060-030L	30.00 mm
PREFIX-060-035L	35.00 mm
PREFIX-060-040L	40.00 mm
PREFIX-060-045L	45.00 mm
PREFIX-060-050L	50.00 mm
	+0.75/-0.75 mm
PREFIX-060-055L	55.00 mm
PREFIX-060-060L	60.00 mm
PREFIX-060-065L	65.00 mm
PREFIX-060-070L	70.00 mm
PREFIX-060-075L	75.00 mm

8.00 mm
(A) Outside Diameter: +0.65/+0.30 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-080-016L	16.00 mm
PREFIX-080-018L	18.00 mm
PREFIX-080-020L	20.00 mm
PREFIX-080-022L	22.00 mm
PREFIX-080-024L	24.00 mm
PREFIX-080-026L	26.00 mm
PREFIX-080-028L	28.00 mm
PREFIX-080-030L	30.00 mm
PREFIX-080-035L	35.00 mm
PREFIX-080-040L	40.00 mm
PREFIX-080-045L	45.00 mm
PREFIX-080-050L	50.00 mm
	+0.75/-0.75 mm
PREFIX-080-055L	55.00 mm
PREFIX-080-060L	60.00 mm
PREFIX-080-065L	65.00 mm
PREFIX-080-070L	70.00 mm
PREFIX-080-075L	75.00 mm
PREFIX-080-080L	80.00 mm
PREFIX-080-085L	85.00 mm
PREFIX-080-090L	90.00 mm
PREFIX-080-095L	95.00 mm
PREFIX-080-100L	100.00 mm
PREFIX-080-120L	120.00 mm

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ASME B18.8.2 COILED – STANDARD DUTY, IMPERIAL

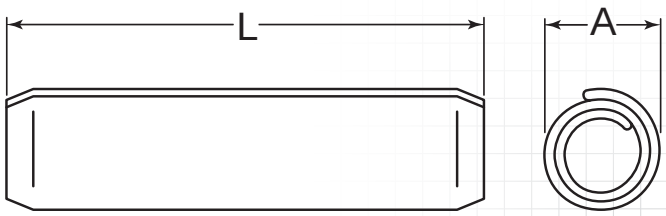
DESCRIPTION

Sometimes referred to as spiral pins, coiled pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section.

HOW TO IDENTIFY

1. Verify rolled pin with 2-1/4 turns.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

PREFIX MATERIAL/FINISH

SPC = DIA. < 5/8" HIGH CARBON STEEL, PLAIN*; >= 5/8" ALLOY CARBON STEEL, PLAIN*

SPCP = DIA. < 5/8" HIGH CARBON STEEL, PHOSPHATE; >= 5/8" ALLOY CARBON STEEL, PHOSPHATE

SPCZ = DIA. < 5/8" HIGH CARBON STEEL, ZINC CLEAR; >= 5/8" ALLOY CARBON STEEL, ZINC CLEAR

SPC3P = 302/304 STAINLESS STEEL, PASSIVATED

SPC9P = 420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

1/32 (.031")
(A) Outside Diameter: +.004/+.002"

Recommended Hole Diameter: .031-.032"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-031-0125	.125" (1/8)
PREFIX-031-0187	.188" (3/16)
PREFIX-031-0250	.250" (1/4)
PREFIX-031-0312	.313" (5/16)
PREFIX-031-0375	.375" (3/8)
PREFIX-031-0437	.438" (7/16)
PREFIX-031-0500	.500" (1/2)
PREFIX-031-0562	.563" (9/16)
PREFIX-031-0625	.625" (5/8)

3/64 (.047")
(A) Outside Diameter: +.005/+.002"

Recommended Hole Diameter: .047-.048"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-046-0125	.125" (1/8)
PREFIX-046-0187	.188" (3/16)
PREFIX-046-0250	.250" (1/4)
PREFIX-046-0312	.313" (5/16)
PREFIX-046-0375	.375" (3/8)
PREFIX-046-0437	.438" (7/16)
PREFIX-046-0500	.500" (1/2)
PREFIX-046-0562	.563" (9/16)
PREFIX-046-0625	.625" (5/8)

1/16 (.063")
(A) Outside Diameter: +.010/+.005"

Recommended Hole Diameter: .061-.065"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-062-0187	.188" (3/16)
PREFIX-062-0250	.250" (1/4)
PREFIX-062-0312	.313" (5/16)
PREFIX-062-0375	.375" (3/8)
PREFIX-062-0437	.438" (7/16)
PREFIX-062-0500	.500" (1/2)
PREFIX-062-0562	.563" (9/16)
PREFIX-062-0625	.625" (5/8)
PREFIX-062-0687	.688" (11/16)
PREFIX-062-0750	.750" (3/4)
PREFIX-062-0812	.813" (13/16)
PREFIX-062-0875	.875" (7/8)
PREFIX-062-0937	.938" (15/16)
PREFIX-062-1000	1.000" (1)
PREFIX-062-1125	1.125" (1-1/8)
PREFIX-062-1250	1.250" (1-1/4)

5/64 (.078")
(A) Outside Diameter: +.010/+.005"

Recommended Hole Diameter: .077-.081"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-078-0187	.188" (3/16)
PREFIX-078-0250	.250" (1/4)
PREFIX-078-0312	.313" (5/16)
PREFIX-078-0375	.375" (3/8)
PREFIX-078-0437	.438" (7/16)
PREFIX-078-0500	.500" (1/2)
PREFIX-078-0562	.563" (9/16)
PREFIX-078-0625	.625" (5/8)
PREFIX-078-0687	.688" (11/16)
PREFIX-078-0750	.750" (3/4)
PREFIX-078-0812	.813" (13/16)
PREFIX-078-0875	.875" (7/8)
PREFIX-078-0937	.938" (15/16)
PREFIX-078-1000	1.000" (1)
PREFIX-078-1125	1.125" (1-1/8)
PREFIX-078-1250	1.250" (1-1/4)
PREFIX-078-1375	1.375" (1-3/8)
PREFIX-078-1500	1.500" (1-1/2)

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COILED – STANDARD DUTY, IMPERIAL

ASME B18.8.2

3/32 (.094")
(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .093-.097"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-093-0187	.188" (3/16)
PREFIX-093-0250	.250" (1/4)
PREFIX-093-0312	.313" (5/16)
PREFIX-093-0375	.375" (3/8)
PREFIX-093-0437	.438" (7/16)
PREFIX-093-0500	.500" (1/2)
PREFIX-093-0562	.563" (9/16)
PREFIX-093-0625	.625" (5/8)
PREFIX-093-0687	.688" (11/16)
PREFIX-093-0750	.750" (3/4)
PREFIX-093-0812	.813" (13/16)
PREFIX-093-0875	.875" (7/8)
PREFIX-093-0937	.938" (15/16)
PREFIX-093-1000	1.000" (1)
PREFIX-093-1125	1.125" (1-1/8)
PREFIX-093-1250	1.250" (1-1/4)
PREFIX-093-1375	1.375" (1-3/8)
PREFIX-093-1500	1.500" (1-1/2)
PREFIX-093-1625	1.625" (1-5/8)
PREFIX-093-1750	1.750" (1-3/4)

7/64 (.109")
(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .108-.112"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-109-0250	.250" (1/4)
PREFIX-109-0312	.313" (5/16)
PREFIX-109-0375	.375" (3/8)
PREFIX-109-0437	.438" (7/16)
PREFIX-109-0500	.500" (1/2)
PREFIX-109-0562	.563" (9/16)
PREFIX-109-0625	.625" (5/8)
PREFIX-109-0750	.750" (3/4)
PREFIX-109-0875	.875" (7/8)
PREFIX-109-1000	1.000" (1)
PREFIX-109-1125	1.125" (1-1/8)
PREFIX-109-1250	1.250" (1-1/4)
PREFIX-109-1375	1.375" (1-3/8)
PREFIX-109-1500	1.500" (1-1/2)
PREFIX-109-1625	1.625" (1-5/8)
PREFIX-109-1750	1.750" (1-3/4)

1/8 (.125")
(A) Outside Diameter: +.013/+.006"

Recommended Hole Diameter: .124-.129"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-125-0250	.250" (1/4)
PREFIX-125-0312	.313" (5/16)
PREFIX-125-0375	.375" (3/8)
PREFIX-125-0437	.438" (7/16)
PREFIX-125-0500	.500" (1/2)
PREFIX-125-0562	.563" (9/16)
PREFIX-125-0625	.625" (5/8)
PREFIX-125-0687	.688" (11/16)
PREFIX-125-0750	.750" (3/4)
PREFIX-125-0812	.813" (13/16)
PREFIX-125-0875	.875" (7/8)
PREFIX-125-0937	.938" (15/16)
PREFIX-125-1000	1.000" (1)
PREFIX-125-1125	1.125" (1-1/8)
PREFIX-125-1250	1.250" (1-1/4)
PREFIX-125-1375	1.375" (1-3/8)
PREFIX-125-1500	1.500" (1-1/2)
PREFIX-125-1625	1.625" (1-5/8)
PREFIX-125-1750	1.750" (1-3/4)
PREFIX-125-1875	1.875" (1-7/8)
PREFIX-125-2000	2.000" (2)

5/32 (.156")
(A) Outside Diameter: +.015/+.007"

Recommended Hole Diameter: .155-.160"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-156-0312	.313" (5/16)
PREFIX-156-0375	.375" (3/8)
PREFIX-156-0437	.438" (7/16)
PREFIX-156-0500	.500" (1/2)
PREFIX-156-0562	.563" (9/16)
PREFIX-156-0625	.625" (5/8)
PREFIX-156-0687	.688" (11/16)
PREFIX-156-0750	.750" (3/4)
PREFIX-156-0812	.813" (13/16)
PREFIX-156-0875	.875" (7/8)
PREFIX-156-0937	.938" (15/16)
PREFIX-156-1000	1.000" (1)
PREFIX-156-1125	1.125" (1-1/8)
PREFIX-156-1250	1.250" (1-1/4)
PREFIX-156-1375	1.375" (1-3/8)
PREFIX-156-1500	1.500" (1-1/2)
PREFIX-156-1625	1.625" (1-5/8)
PREFIX-156-1750	1.750" (1-3/4)
PREFIX-156-1875	1.875" (1-7/8)
PREFIX-156-2000	2.000" (2)
	+.015/-.015"
PREFIX-156-2250	2.250" (2-1/4)
PREFIX-156-2500	2.500" (2-1/2)

3/16 (.188")
(A) Outside Diameter: +.018/+.009"

Recommended Hole Diameter: .185-.192"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-187-0375	.375" (3/8)
PREFIX-187-0437	.438" (7/16)
PREFIX-187-0500	.500" (1/2)
PREFIX-187-0562	.563" (9/16)
PREFIX-187-0625	.625" (5/8)
PREFIX-187-0687	.688" (11/16)
PREFIX-187-0750	.750" (3/4)
PREFIX-187-0812	.813" (13/16)
PREFIX-187-0875	.875" (7/8)
PREFIX-187-0937	.938" (15/16)
PREFIX-187-1000	1.000" (1)
PREFIX-187-1125	1.125" (1-1/8)
PREFIX-187-1250	1.250" (1-1/4)
PREFIX-187-1375	1.375" (1-3/8)
PREFIX-187-1500	1.500" (1-1/2)
PREFIX-187-1625	1.625" (1-5/8)
PREFIX-187-1750	1.750" (1-3/4)
PREFIX-187-1875	1.875" (1-7/8)
PREFIX-187-2000	2.000" (2)
	+.015/-.015"
PREFIX-187-2250	2.250" (2-1/4)
PREFIX-187-2500	2.500" (2-1/2)

7/32 (.219")
(A) Outside Diameter: +.019/+.009"

Recommended Hole Diameter: .217-.224"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-218-0500	.500" (1/2)
PREFIX-218-0562	.563" (9/16)
PREFIX-218-0625	.625" (5/8)
PREFIX-218-0687	.688" (11/16)
PREFIX-218-0750	.750" (3/4)
PREFIX-218-0812	.813" (13/16)
PREFIX-218-0875	.875" (7/8)
PREFIX-218-0937	.938" (15/16)
PREFIX-218-1000	1.000" (1)
PREFIX-218-1125	1.125" (1-1/8)
PREFIX-218-1250	1.250" (1-1/4)
PREFIX-218-1375	1.375" (1-3/8)
PREFIX-218-1500	1.500" (1-1/2)
PREFIX-218-1625	1.625" (1-5/8)
PREFIX-218-1750	1.750" (1-3/4)
PREFIX-218-1875	1.875" (1-7/8)
PREFIX-218-2000	2.000" (2)
	+.015/-.015"
PREFIX-218-2250	2.250" (2-1/4)
PREFIX-218-2500	2.500" (2-1/2)
PREFIX-218-2750	2.750" (2-3/4)
PREFIX-218-3000	3.000" (3)

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ASME B18.8.2 COILED – STANDARD DUTY, IMPERIAL

1/4 (.250")

(A) Outside Diameter: +.021/+.010"

Recommended Hole Diameter: .247-.256"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-250-0500	.500" (1/2)
PREFIX-250-0562	.563" (9/16)
PREFIX-250-0625	.625" (5/8)
PREFIX-250-0687	.688" (11/16)
PREFIX-250-0750	.750" (3/4)
PREFIX-250-0812	.813" (13/16)
PREFIX-250-0875	.875" (7/8)
PREFIX-250-0937	.938" (15/16)
PREFIX-250-1000	1.000" (1)
PREFIX-250-1125	1.125" (1-1/8)
PREFIX-250-1250	1.250" (1-1/4)
PREFIX-250-1375	1.375" (1-3/8)
PREFIX-250-1500	1.500" (1-1/2)
PREFIX-250-1625	1.625" (1-5/8)
PREFIX-250-1750	1.750" (1-3/4)
PREFIX-250-1875	1.875" (1-7/8)
PREFIX-250-2000	2.000" (2)
	+.015/-.015"
PREFIX-250-2250	2.250" (2-1/4)
PREFIX-250-2500	2.500" (2-1/2)
PREFIX-250-2750	2.750" (2-3/4)
PREFIX-250-3000	3.000" (3)
	+.025/-.025"
PREFIX-250-3250	3.250" (3-1/4)
PREFIX-250-3500	3.500" (3-1/2)

5/16 (.313")

(A) Outside Diameter: +.025/+.012"

Recommended Hole Diameter: .308-.319"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-312-0625	.625" (5/8)
PREFIX-312-0750	.750" (3/4)
PREFIX-312-0812	.813" (13/16)
PREFIX-312-0875	.875" (7/8)
PREFIX-312-0937	.938" (15/16)
PREFIX-312-1000	1.000" (1)
PREFIX-312-1125	1.125" (1-1/8)
PREFIX-312-1250	1.250" (1-1/4)
PREFIX-312-1375	1.375" (1-3/8)
PREFIX-312-1500	1.500" (1-1/2)
PREFIX-312-1625	1.625" (1-5/8)
PREFIX-312-1750	1.750" (1-3/4)
PREFIX-312-1875	1.875" (1-7/8)
PREFIX-312-2000	2.000" (2)
	+.015/-.015"
PREFIX-312-2250	2.250" (2-1/4)
PREFIX-312-2500	2.500" (2-1/2)
PREFIX-312-2750	2.750" (2-3/4)
PREFIX-312-3000	3.000" (3)
	+.025/-.025"
PREFIX-312-3250	3.250" (3-1/4)
PREFIX-312-3500	3.500" (3-1/2)
PREFIX-312-3750	3.750" (3-3/4)
PREFIX-312-4000	4.000" (4)

3/8 (.375")

(A) Outside Diameter: +.028/+.013"

Recommended Hole Diameter: .370-.383"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-375-0750	.750" (3/4)
PREFIX-375-0875	.875" (7/8)
PREFIX-375-1000	1.000" (1)
PREFIX-375-1125	1.125" (1-1/8)
PREFIX-375-1250	1.250" (1-1/4)
PREFIX-375-1375	1.375" (1-3/8)
PREFIX-375-1500	1.500" (1-1/2)
PREFIX-375-1625	1.625" (1-5/8)
PREFIX-375-1750	1.750" (1-3/4)
PREFIX-375-1875	1.875" (1-7/8)
PREFIX-375-2000	2.000" (2)
	+.015/-.015"
PREFIX-375-2250	2.250" (2-1/4)
PREFIX-375-2500	2.500" (2-1/2)
PREFIX-375-2750	2.750" (2-3/4)
PREFIX-375-3000	3.000" (3)
	+.025/-.025"
PREFIX-375-3250	3.250" (3-1/4)
PREFIX-375-3500	3.500" (3-1/2)
PREFIX-375-3750	3.750" (3-3/4)
PREFIX-375-4000	4.000" (4)

7/16 (.438")

(A) Outside Diameter: +.032/+.015"

Recommended Hole Diameter: .431-.446"

ITEM NUMBER	(L) OVERALL LENGTH
	+.010/-.010"
PREFIX-437-1000	1.000" (1)
PREFIX-437-1250	1.250" (1-1/4)
PREFIX-437-1500	1.500" (1-1/2)
PREFIX-437-1750	1.750" (1-3/4)
PREFIX-437-1875	1.875" (1-7/8)
PREFIX-437-2000	2.000" (2)
	+.015/-.015"
PREFIX-437-2250	2.250" (2-1/4)
PREFIX-437-2500	2.500" (2-1/2)
PREFIX-437-2750	2.750" (2-3/4)
PREFIX-437-3000	3.000" (3)
	+.025/-.025"
PREFIX-437-3250	3.250" (3-1/4)
PREFIX-437-3500	3.500" (3-1/2)
PREFIX-437-3750	3.750" (3-3/4)
PREFIX-437-4000	4.000" (4)

1/2 (.500")

(A) Outside Diameter: +.035/+.016"

Recommended Hole Diameter: .493-.510"

ITEM NUMBER	(L) OVERALL LENGTH
	+.025/-.025"
PREFIX-500-1250	1.250" (1-1/4)
PREFIX-500-1500	1.500" (1-1/2)
PREFIX-500-1625	1.625" (1-5/8)
PREFIX-500-1750	1.750" (1-3/4)
PREFIX-500-1875	1.875" (1-7/8)
PREFIX-500-2000	2.000" (2)
PREFIX-500-2250	2.250" (2-1/4)
PREFIX-500-2500	2.500" (2-1/2)
PREFIX-500-2750	2.750" (2-3/4)
PREFIX-500-3000	3.000" (3)
PREFIX-500-3250	3.250" (3-1/4)
PREFIX-500-3500	3.500" (3-1/2)
PREFIX-500-3750	3.750" (3-3/4)
PREFIX-500-4000	4.000" (4)
PREFIX-500-4750	4.750" (4-3/4)
PREFIX-500-5000	5.000" (5)

5/8 (.625")

(A) Outside Diameter: +.036/+.017"

Recommended Hole Diameter: .618-.635"

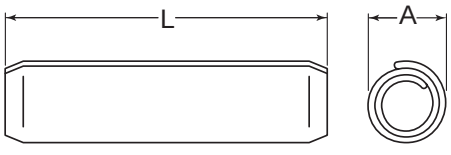
ITEM NUMBER	(L) OVERALL LENGTH
	+.025/-.025"
PREFIX-625-0500	.500" (1/2)
PREFIX-625-1000	1.000" (1)
PREFIX-625-1750	1.750" (1-3/4)
PREFIX-625-2000	2.000" (2)
PREFIX-625-3000	3.000" (3)
PREFIX-625-3250	3.250" (3-1/4)
PREFIX-625-4000	4.000" (4)
PREFIX-625-4250	4.250" (4-1/4)
PREFIX-625-5000	5.000" (5)
PREFIX-625-5250	5.250" (5-1/4)

3/4 (.750")

(A) Outside Diameter: +.037/+.018"

Recommended Hole Diameter: .743-.760"

ITEM NUMBER	(L) OVERALL LENGTH
	+.025/-.025"
PREFIX-750-1500	1.500" (1-1/2)
PREFIX-750-2000	2.000" (2)
PREFIX-750-3000	3.000" (3)
PREFIX-750-4000	4.000" (4)



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COILED – STANDARD DUTY, METRIC

ASME B18.8.3M/ISO 8750

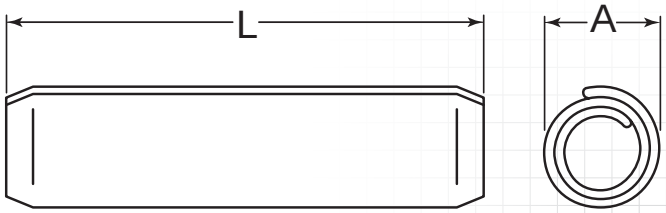
DESCRIPTION

Sometimes referred to as spiral pins, coiled pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section.

HOW TO IDENTIFY

1. Verify rolled pin with 2-1/4 turns.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

PREFIX MATERIAL/FINISH

SPCM = DIA. <16MM HIGH CARBON STEEL, PLAIN*; >=16MM ALLOY CARBON STEEL, PLAIN*

SPCMP = DIA. <16MM HIGH CARBON STEEL, PHOSPHATE; >=16MM ALLOY CARBON STEEL, PHOSPHATE

SPCMZ = DIA. <16MM HIGH CARBON STEEL, ZINC CLEAR; >=16MM ALLOY CARBON STEEL, ZINC CLEAR

SPCM3P = 302/304 STAINLESS STEEL, PASSIVATED

SPCM5P = 420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

0.80 mm
(A) Outside Diameter: +0.11/+0.05 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-008-004	4.00 mm
PREFIX-008-005	5.00 mm
PREFIX-008-006	6.00 mm
PREFIX-008-008	8.00 mm
PREFIX-008-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-008-012	12.00 mm
PREFIX-008-014	14.00 mm
PREFIX-008-016	16.00 mm
PREFIX-008-018	18.00 mm
PREFIX-008-020	20.00 mm
PREFIX-008-022	22.00 mm
PREFIX-008-024	24.00 mm
PREFIX-008-026	26.00 mm

1.00 mm
(A) Outside Diameter: +0.15/+0.05 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-010-004	4.00 mm
PREFIX-010-005	5.00 mm
PREFIX-010-006	6.00 mm
PREFIX-010-008	8.00 mm
PREFIX-010-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-010-012	12.00 mm
PREFIX-010-014	14.00 mm
PREFIX-010-016	16.00 mm
PREFIX-010-018	18.00 mm
PREFIX-010-020	20.00 mm
PREFIX-010-022	22.00 mm
PREFIX-010-024	24.00 mm
PREFIX-010-026	26.00 mm

1.20 mm
(A) Outside Diameter: +0.15/+0.05 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-012-004	4.00 mm
PREFIX-012-005	5.00 mm
PREFIX-012-006	6.00 mm
PREFIX-012-008	8.00 mm
PREFIX-012-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-012-012	12.00 mm
PREFIX-012-014	14.00 mm
PREFIX-012-016	16.00 mm
PREFIX-012-018	18.00 mm
PREFIX-012-020	20.00 mm
PREFIX-012-022	22.00 mm
PREFIX-012-024	24.00 mm
PREFIX-012-026	26.00 mm

1.50 mm
(A) Outside Diameter: +0.23/+0.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-015-004	4.00 mm
PREFIX-015-005	5.00 mm
PREFIX-015-006	6.00 mm
PREFIX-015-008	8.00 mm
PREFIX-015-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-015-012	12.00 mm
PREFIX-015-014	14.00 mm
PREFIX-015-016	16.00 mm
PREFIX-015-018	18.00 mm
PREFIX-015-020	20.00 mm
PREFIX-015-022	22.00 mm
PREFIX-015-024	24.00 mm
PREFIX-015-026	26.00 mm

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ASME B18.8.3M/ISO 8750 COILED – STANDARD DUTY, METRIC

ITEM NUMBER	(L) OVERALL LENGTH
2.00 mm (A) Outside Diameter: +0.25/+0.13 mm	
	+0.25/-0.25 mm
PREFIX-020-004	4.00 mm
PREFIX-020-005	5.00 mm
PREFIX-020-006	6.00 mm
PREFIX-020-008	8.00 mm
PREFIX-020-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-020-012	12.00 mm
PREFIX-020-014	14.00 mm
PREFIX-020-016	16.00 mm
PREFIX-020-018	18.00 mm
PREFIX-020-020	20.00 mm
PREFIX-020-022	22.00 mm
PREFIX-020-024	24.00 mm
PREFIX-020-026	26.00 mm
PREFIX-020-028	28.00 mm
PREFIX-020-030	30.00 mm
PREFIX-020-032	32.00 mm
PREFIX-020-035	35.00 mm
PREFIX-020-040	40.00 mm
2.50 mm (A) Outside Diameter: +0.28/+0.15 mm	
	+0.25/-0.25 mm
PREFIX-025-004	4.00 mm
PREFIX-025-005	5.00 mm
PREFIX-025-006	6.00 mm
PREFIX-025-008	8.00 mm
PREFIX-025-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-025-012	12.00 mm
PREFIX-025-014	14.00 mm
PREFIX-025-016	16.00 mm
PREFIX-025-018	18.00 mm
PREFIX-025-020	20.00 mm
PREFIX-025-022	22.00 mm
PREFIX-025-024	24.00 mm
PREFIX-025-026	26.00 mm
PREFIX-025-028	28.00 mm
PREFIX-025-030	30.00 mm
PREFIX-025-032	32.00 mm
PREFIX-025-035	35.00 mm
PREFIX-025-040	40.00 mm
PREFIX-025-045	45.00 mm
3.00 mm (A) Outside Diameter: +0.30/+0.15 mm	
	+0.25/-0.25 mm
PREFIX-030-006	6.00 mm
PREFIX-030-008	8.00 mm
PREFIX-030-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-030-012	12.00 mm
PREFIX-030-014	14.00 mm
PREFIX-030-016	16.00 mm
PREFIX-030-018	18.00 mm
PREFIX-030-020	20.00 mm
PREFIX-030-022	22.00 mm
PREFIX-030-024	24.00 mm
PREFIX-030-026	26.00 mm
PREFIX-030-028	28.00 mm
PREFIX-030-030	30.00 mm
PREFIX-030-032	32.00 mm
PREFIX-030-035	35.00 mm
PREFIX-030-040	40.00 mm
PREFIX-030-045	45.00 mm
PREFIX-030-050	50.00 mm
3.50 mm (A) Outside Diameter: +0.34/+0.17 mm	
	+0.25/-0.25 mm
PREFIX-035-006	6.00 mm
PREFIX-035-008	8.00 mm
PREFIX-035-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-035-012	12.00 mm
PREFIX-035-014	14.00 mm
PREFIX-035-016	16.00 mm
PREFIX-035-018	18.00 mm
PREFIX-035-020	20.00 mm
PREFIX-035-022	22.00 mm
PREFIX-035-024	24.00 mm
PREFIX-035-026	26.00 mm
PREFIX-035-028	28.00 mm
PREFIX-035-030	30.00 mm
PREFIX-035-032	32.00 mm
PREFIX-035-035	35.00 mm
PREFIX-035-040	40.00 mm
PREFIX-035-045	45.00 mm
PREFIX-035-050	50.00 mm
4.00 mm (A) Outside Diameter: +0.40/+0.20 mm	
	+0.25/-0.25 mm
PREFIX-040-008	8.00 mm
PREFIX-040-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-040-012	12.00 mm
PREFIX-040-014	14.00 mm
PREFIX-040-016	16.00 mm
PREFIX-040-018	18.00 mm
PREFIX-040-020	20.00 mm
PREFIX-040-022	22.00 mm
PREFIX-040-024	24.00 mm
PREFIX-040-026	26.00 mm
PREFIX-040-028	28.00 mm
PREFIX-040-030	30.00 mm
PREFIX-040-032	32.00 mm
PREFIX-040-035	35.00 mm
PREFIX-040-036	36.00 mm
PREFIX-040-040	40.00 mm
PREFIX-040-045	45.00 mm
PREFIX-040-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-040-055	55.00 mm
PREFIX-040-060	60.00 mm
5.00 mm (A) Outside Diameter: +0.50/+0.25 mm	
	+0.25/-0.25 mm
PREFIX-050-010	10.00 mm
	+0.50/-0.50 mm
PREFIX-050-012	12.00 mm
PREFIX-050-014	14.00 mm
PREFIX-050-016	16.00 mm
PREFIX-050-018	18.00 mm
PREFIX-050-020	20.00 mm
PREFIX-050-022	22.00 mm
PREFIX-050-024	24.00 mm
PREFIX-050-026	26.00 mm
PREFIX-050-028	28.00 mm
PREFIX-050-030	30.00 mm
PREFIX-050-032	32.00 mm
PREFIX-050-035	35.00 mm
PREFIX-050-036	36.00 mm
PREFIX-050-040	40.00 mm
PREFIX-050-045	45.00 mm
PREFIX-050-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-050-055	55.00 mm
PREFIX-050-060	60.00 mm
6.00 mm (A) Outside Diameter: +0.50/+0.25 mm	
	+0.50/-0.50 mm
PREFIX-060-012	12.00 mm
PREFIX-060-014	14.00 mm
PREFIX-060-016	16.00 mm
PREFIX-060-018	18.00 mm
PREFIX-060-020	20.00 mm
PREFIX-060-022	22.00 mm
PREFIX-060-024	24.00 mm
PREFIX-060-026	26.00 mm
PREFIX-060-028	28.00 mm
PREFIX-060-030	30.00 mm
PREFIX-060-032	32.00 mm

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COILED – STANDARD DUTY, METRIC

ASME B18.8.3M/ISO 8750

PREFIX	MATERIAL/FINISH
SPCM =	DIA. <16MM HIGH CARBON STEEL, PLAIN*; >=16MM ALLOY CARBON STEEL, PLAIN*
SPCMP =	DIA. <16MM HIGH CARBON STEEL, PHOSPHATE; >=16MM ALLOY CARBON STEEL, PHOSPHATE
SPCMZ =	DIA. <16MM HIGH CARBON STEEL, ZINC CLEAR; >=16MM ALLOY CARBON STEEL, ZINC CLEAR
SPCM3P =	302/304 STAINLESS STEEL, PASSIVATED
SPCM5P =	420 STAINLESS STEEL, PASSIVATED

Material/finish combinations may not be available in all sizes.

6.00 mm
(A) Outside Diameter: +0.50/+0.25 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-060-035	35.00 mm
PREFIX-060-036	36.00 mm
PREFIX-060-040	40.00 mm
PREFIX-060-045	45.00 mm
PREFIX-060-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-060-055	55.00 mm
PREFIX-060-060	60.00 mm
PREFIX-060-065	65.00 mm
PREFIX-060-070	70.00 mm
PREFIX-060-075	75.00 mm

8.00 mm
(A) Outside Diameter: +0.63/+0.30 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-080-016	16.00 mm
PREFIX-080-018	18.00 mm
PREFIX-080-020	20.00 mm
PREFIX-080-022	22.00 mm
PREFIX-080-024	24.00 mm
PREFIX-080-026	26.00 mm
PREFIX-080-028	28.00 mm
PREFIX-080-030	30.00 mm
PREFIX-080-032	32.00 mm
PREFIX-080-035	35.00 mm
PREFIX-080-036	36.00 mm
PREFIX-080-040	40.00 mm
PREFIX-080-045	45.00 mm
PREFIX-080-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-080-055	55.00 mm
PREFIX-080-060	60.00 mm
PREFIX-080-065	65.00 mm
PREFIX-080-070	70.00 mm
PREFIX-080-075	75.00 mm
PREFIX-080-080	80.00 mm
PREFIX-080-085	85.00 mm
PREFIX-080-090	90.00 mm
PREFIX-080-095	95.00 mm
PREFIX-080-100	100.00 mm
PREFIX-080-120	120.00 mm

10.00 mm
(A) Outside Diameter: +0.80/+0.35 mm

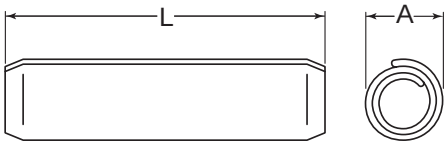
ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-100-020	20.00 mm
PREFIX-100-022	22.00 mm
PREFIX-100-024	24.00 mm
PREFIX-100-026	26.00 mm
PREFIX-100-028	28.00 mm
PREFIX-100-030	30.00 mm
PREFIX-100-032	32.00 mm
PREFIX-100-035	35.00 mm
PREFIX-100-036	36.00 mm
PREFIX-100-040	40.00 mm
PREFIX-100-045	45.00 mm
PREFIX-100-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-100-055	55.00 mm
PREFIX-100-060	60.00 mm
PREFIX-100-065	65.00 mm
PREFIX-100-070	70.00 mm
PREFIX-100-075	75.00 mm
PREFIX-100-080	80.00 mm
PREFIX-100-085	85.00 mm
PREFIX-100-090	90.00 mm
PREFIX-100-095	95.00 mm
PREFIX-100-100	100.00 mm
PREFIX-100-120	120.00 mm

12.00 mm
(A) Outside Diameter: +0.85/+0.40 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-120-022	22.00 mm
PREFIX-120-024	24.00 mm
PREFIX-120-026	26.00 mm
PREFIX-120-028	28.00 mm
PREFIX-120-030	30.00 mm
PREFIX-120-032	32.00 mm
PREFIX-120-035	35.00 mm
PREFIX-120-036	36.00 mm
PREFIX-120-040	40.00 mm
PREFIX-120-045	45.00 mm
PREFIX-120-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-120-055	55.00 mm
PREFIX-120-060	60.00 mm
PREFIX-120-065	65.00 mm
PREFIX-120-070	70.00 mm
PREFIX-120-075	75.00 mm
PREFIX-120-080	80.00 mm
PREFIX-120-085	85.00 mm
PREFIX-120-090	90.00 mm
PREFIX-120-095	95.00 mm
PREFIX-120-100	100.00 mm
PREFIX-120-120	120.00 mm
PREFIX-120-140	140.00 mm
PREFIX-120-160	160.00 mm

16.00 mm
(A) Outside Diameter: +1.00/+0.45 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-160-035	35.00 mm
PREFIX-160-040	40.00 mm
PREFIX-160-045	45.00 mm
PREFIX-160-050	50.00 mm
	+0.75/-0.75 mm
PREFIX-160-055	55.00 mm
PREFIX-160-060	60.00 mm
PREFIX-160-065	65.00 mm
PREFIX-160-070	70.00 mm
PREFIX-160-075	75.00 mm
PREFIX-160-080	80.00 mm
PREFIX-160-085	85.00 mm
PREFIX-160-090	90.00 mm
PREFIX-160-095	95.00 mm
PREFIX-160-100	100.00 mm
PREFIX-160-120	120.00 mm
PREFIX-160-180	180.00 mm



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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

ASME B18.8.2 COILED – HEAVY DUTY, IMPERIAL

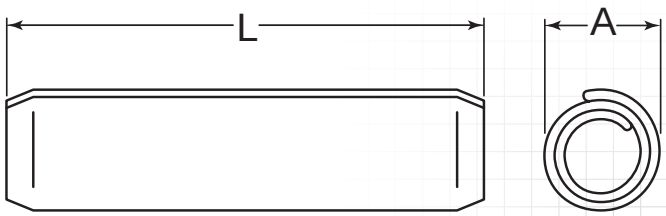
DESCRIPTION

Sometimes referred to as spiral pins, coiled pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section. Heavy duty pins are made with thicker material.

HOW TO IDENTIFY

1. Verify rolled pin with 2-1/4 turns.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

SPC = DIA. < 5/8" HIGH CARBON STEEL, PLAIN*; >= 5/8" ALLOY CARBON STEEL, PLAIN*

SPCP = DIA. < 5/8" HIGH CARBON STEEL, PHOSPHATE; >= 5/8" ALLOY CARBON STEEL, PHOSPHATE

SPCZ = DIA. < 5/8" HIGH CARBON STEEL, ZINC CLEAR; >= 5/8" ALLOY CARBON STEEL, ZINC CLEAR

SPC3P = 302/304 STAINLESS STEEL, PASSIVATED

SPC5P = 420 STAINLESS STEEL, PASSIVATED

Heavy duty identified by "H" at end of item number.
Material/finish combinations may not be available in all sizes.

1/16 (.063")

(A) Outside Diameter: +.008/+.004"

Recommended Hole Diameter: .061-.065"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-062-0187H	.188" (3/16)
PREFIX-062-0250H	.250" (1/4)
PREFIX-062-0312H	.313" (5/16)
PREFIX-062-0375H	.375" (3/8)
PREFIX-062-0437H	.438" (7/16)
PREFIX-062-0500H	.500" (1/2)
PREFIX-062-0562H	.563" (9/16)
PREFIX-062-0625H	.625" (5/8)
PREFIX-062-0687H	.688" (11/16)
PREFIX-062-0750H	.750" (3/4)
PREFIX-062-0812H	.813" (13/16)
PREFIX-062-0875H	.875" (7/8)
PREFIX-062-0937H	.938" (15/16)
PREFIX-062-1000H	1.000" (1)

5/64 (.078")

(A) Outside Diameter: +.008/+.004"

Recommended Hole Diameter: .077-.081"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-078-0187H	.188" (3/16)
PREFIX-078-0250H	.250" (1/4)
PREFIX-078-0312H	.313" (5/16)
PREFIX-078-0375H	.375" (3/8)
PREFIX-078-0437H	.438" (7/16)
PREFIX-078-0500H	.500" (1/2)
PREFIX-078-0562H	.563" (9/16)
PREFIX-078-0625H	.625" (5/8)
PREFIX-078-0750H	.750" (3/4)
PREFIX-078-0875H	.875" (7/8)
PREFIX-078-1000H	1.000" (1)
PREFIX-078-1125H	1.125" (1-1/8)
PREFIX-078-1250H	1.250" (1-1/4)
PREFIX-078-1375H	1.375" (1-3/8)
PREFIX-078-1500H	1.500" (1-1/2)

3/32 (.094")

(A) Outside Diameter: +.008/+.004"

Recommended Hole Diameter: .093-.097"

ITEM NUMBER	(L) OVERALL LENGTH +.010/-.010"
PREFIX-093-0187H	.188" (3/16)
PREFIX-093-0250H	.250" (1/4)
PREFIX-093-0312H	.313" (5/16)
PREFIX-093-0375H	.375" (3/8)
PREFIX-093-0437H	.438" (7/16)
PREFIX-093-0500H	.500" (1/2)
PREFIX-093-0562H	.563" (9/16)
PREFIX-093-0625H	.625" (5/8)
PREFIX-093-0750H	.750" (3/4)
PREFIX-093-0875H	.875" (7/8)
PREFIX-093-1000H	1.000" (1)
PREFIX-093-1125H	1.125" (1-1/8)
PREFIX-093-1250H	1.250" (1-1/4)
PREFIX-093-1375H	1.375" (1-3/8)
PREFIX-093-1500H	1.500" (1-1/2)

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COILED – HEAVY DUTY, IMPERIAL

ASME B18.8.2

ITEM NUMBER	(L) OVERALL LENGTH

7/64 (.109")

(A) Outside Diameter: +.008/+.004"

Recommended Hole Diameter: .108-.112"

	+.010/-.010"
PREFIX-109-0250H	.250" (1/4)
PREFIX-109-0312H	.313" (5/16)
PREFIX-109-0375H	.375" (3/8)
PREFIX-109-0437H	.438" (7/16)
PREFIX-109-0500H	.500" (1/2)
PREFIX-109-0562H	.563" (9/16)
PREFIX-109-0625H	.625" (5/8)
PREFIX-109-0750H	.750" (3/4)
PREFIX-109-0875H	.875" (7/8)
PREFIX-109-1000H	1.000" (1)
PREFIX-109-1125H	1.125" (1-1/8)
PREFIX-109-1250H	1.250" (1-1/4)
PREFIX-109-1375H	1.375" (1-3/8)
PREFIX-109-1500H	1.500" (1-1/2)
PREFIX-109-1625H	1.625" (1-5/8)
PREFIX-109-1750H	1.750" (1-3/4)

1/8 (.125")

(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .124-.129"

	+.010/-.010"
PREFIX-125-0250H	.250" (1/4)
PREFIX-125-0312H	.313" (5/16)
PREFIX-125-0375H	.375" (3/8)
PREFIX-125-0437H	.438" (7/16)
PREFIX-125-0500H	.500" (1/2)
PREFIX-125-0562H	.563" (9/16)
PREFIX-125-0625H	.625" (5/8)
PREFIX-125-0687H	.688" (11/16)
PREFIX-125-0750H	.750" (3/4)
PREFIX-125-0875H	.875" (7/8)
PREFIX-125-1000H	1.000" (1)
PREFIX-125-1125H	1.125" (1-1/8)
PREFIX-125-1250H	1.250" (1-1/4)
PREFIX-125-1375H	1.375" (1-3/8)
PREFIX-125-1500H	1.500" (1-1/2)
PREFIX-125-1625H	1.625" (1-5/8)
PREFIX-125-1750H	1.750" (1-3/4)
PREFIX-125-1875H	1.875" (1-7/8)
PREFIX-125-2000H	2.000" (2)

5/32 (.156")

(A) Outside Diameter: +.011/+.005"

Recommended Hole Diameter: .155-.160"

	+.010/-.010"
PREFIX-156-0312H	.313" (5/16)
PREFIX-156-0375H	.375" (3/8)
PREFIX-156-0437H	.438" (7/16)

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-156-0500H	.500" (1/2)
PREFIX-156-0562H	.563" (9/16)
PREFIX-156-0625H	.625" (5/8)
PREFIX-156-0750H	.750" (3/4)
PREFIX-156-0875H	.875" (7/8)
PREFIX-156-1000H	1.000" (1)
PREFIX-156-1125H	1.125" (1-1/8)
PREFIX-156-1250H	1.250" (1-1/4)
PREFIX-156-1375H	1.375" (1-3/8)
PREFIX-156-1500H	1.500" (1-1/2)
PREFIX-156-1625H	1.625" (1-5/8)
PREFIX-156-1750H	1.750" (1-3/4)
PREFIX-156-1875H	1.875" (1-7/8)
PREFIX-156-2000H	2.000" (2)
	+.015/-.015"
PREFIX-156-2250H	2.250" (2-1/4)
PREFIX-156-2500H	2.500" (2-1/2)

3/16 (.188")

(A) Outside Diameter: +.015/+.007"

Recommended Hole Diameter: .185-.192"

	+.010/-.010"
PREFIX-187-0375H	.375" (3/8)
PREFIX-187-0437H	.438" (7/16)
PREFIX-187-0500H	.500" (1/2)
PREFIX-187-0562H	.563" (9/16)
PREFIX-187-0625H	.625" (5/8)
PREFIX-187-0750H	.750" (3/4)
PREFIX-187-0875H	.875" (7/8)
PREFIX-187-1000H	1.000" (1)
PREFIX-187-1125H	1.125" (1-1/8)
PREFIX-187-1250H	1.250" (1-1/4)
PREFIX-187-1375H	1.375" (1-3/8)
PREFIX-187-1500H	1.500" (1-1/2)
PREFIX-187-1625H	1.625" (1-5/8)
PREFIX-187-1750H	1.750" (1-3/4)
PREFIX-187-1875H	1.875" (1-7/8)
PREFIX-187-2000H	2.000" (2)
	+.015/-.015"
PREFIX-187-2250H	2.250" (2-1/4)
PREFIX-187-2500H	2.500" (2-1/2)

7/32 (.219")

(A) Outside Diameter: +.017/+.008"

Recommended Hole Diameter: .217-.224"

	+.010/-.010"
PREFIX-218-0500H	.500" (1/2)
PREFIX-218-0562H	.563" (9/16)
PREFIX-218-0625H	.625" (5/8)
PREFIX-218-0750H	.750" (3/4)
PREFIX-218-0875H	.875" (7/8)
PREFIX-218-1000H	1.000" (1)
PREFIX-218-1125H	1.125" (1-1/8)

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-218-1250H	1.250" (1-1/4)
PREFIX-218-1375H	1.375" (1-3/8)
PREFIX-218-1500H	1.500" (1-1/2)
PREFIX-218-1625H	1.625" (1-5/8)
PREFIX-218-1750H	1.750" (1-3/4)
PREFIX-218-1875H	1.875" (1-7/8)
PREFIX-218-2000H	2.000" (2)
	+.015/-.015"
PREFIX-218-2250H	2.250" (2-1/4)
PREFIX-218-2500H	2.500" (2-1/2)
PREFIX-218-2750H	2.750" (2-3/4)
PREFIX-218-3000H	3.000" (3)

1/4 (.250")

(A) Outside Diameter: +.018/+.008"

Recommended Hole Diameter: .247-.256"

	+.010/-.010"
PREFIX-250-0500H	.500" (1/2)
PREFIX-250-0562H	.563" (9/16)
PREFIX-250-0625H	.625" (5/8)
PREFIX-250-0750H	.750" (3/4)
PREFIX-250-0875H	.875" (7/8)
PREFIX-250-1000H	1.000" (1)
PREFIX-250-1125H	1.125" (1-1/8)
PREFIX-250-1250H	1.250" (1-1/4)
PREFIX-250-1375H	1.375" (1-3/8)
PREFIX-250-1500H	1.500" (1-1/2)
PREFIX-250-1625H	1.625" (1-5/8)
PREFIX-250-1750H	1.750" (1-3/4)
PREFIX-250-1875H	1.875" (1-7/8)
PREFIX-250-2000H	2.000" (2)
	+.015/-.015"
PREFIX-250-2250H	2.250" (2-1/4)
PREFIX-250-2500H	2.500" (2-1/2)
PREFIX-250-2750H	2.750" (2-3/4)
PREFIX-250-3000H	3.000" (3)
	+.025/-.025"
PREFIX-250-3250H	3.250" (3-1/4)
PREFIX-250-3500H	3.500" (3-1/2)

5/16 (.313")

(A) Outside Diameter: +.022/+.010"

Recommended Hole Diameter: .308-.319"

	+.010/-.010"
PREFIX-312-0625H	.625" (5/8)
PREFIX-312-0750H	.750" (3/4)
PREFIX-312-0875H	.875" (7/8)
PREFIX-312-1000H	1.000" (1)
PREFIX-312-1125H	1.125" (1-1/8)
PREFIX-312-1250H	1.250" (1-1/4)
PREFIX-312-1375H	1.375" (1-3/8)
PREFIX-312-1500H	1.500" (1-1/2)
PREFIX-312-1625H	1.625" (1-5/8)

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ASME B18.8.2 COILED – HEAVY DUTY, IMPERIAL

PREFIX		MATERIAL/FINISH
SPC	=	DIA. < 5/8" HIGH CARBON STEEL, PLAIN*; >= 5/8" ALLOY CARBON STEEL, PLAIN*
SPCP	=	DIA. < 5/8" HIGH CARBON STEEL, PHOSPHATE; >= 5/8" ALLOY CARBON STEEL, PHOSPHATE
SPCZ	=	DIA. < 5/8" HIGH CARBON STEEL, ZINC CLEAR; >= 5/8" ALLOY CARBON STEEL, ZINC CLEAR
SPC3P	=	302/304 STAINLESS STEEL, PASSIVATED
SPC8P	=	420 STAINLESS STEEL, PASSIVATED

Heavy duty identified by "H" at end of item number.
Material/finish combinations may not be available in all sizes.

ITEM NUMBER	(L) OVERALL LENGTH
PREFIX-312-1750H	1.750" (1-3/4)
PREFIX-312-1875H	1.875" (1-7/8)
PREFIX-312-2000H	2.000" (2)
	+.015/-.015"
PREFIX-312-2250H	2.250" (2-1/4)
PREFIX-312-2500H	2.500" (2-1/2)
PREFIX-312-2750H	2.750" (2-3/4)
PREFIX-312-3000H	3.000" (3)
	+.025/-.025"
PREFIX-312-3250H	3.250" (3-1/4)
PREFIX-312-3500H	3.500" (3-1/2)
PREFIX-312-3750H	3.750" (3-3/4)
PREFIX-312-4000H	4.000" (4)

3/8 (.375")
(A) Outside Diameter: +.025/+.011"

Recommended Hole Diameter: .370-.383"	
	+.010/-.010"
PREFIX-375-0750H	.750" (3/4)
PREFIX-375-0875H	.875" (7/8)
PREFIX-375-1000H	1.000" (1)
PREFIX-375-1125H	1.125" (1-1/8)
PREFIX-375-1250H	1.250" (1-1/4)
PREFIX-375-1375H	1.375" (1-3/8)
PREFIX-375-1500H	1.500" (1-1/2)
PREFIX-375-1625H	1.625" (1-5/8)
PREFIX-375-1750H	1.750" (1-3/4)
PREFIX-375-1875H	1.875" (1-7/8)
PREFIX-375-2000H	2.000" (2)
	+.015/-.015"
PREFIX-375-2250H	2.250" (2-1/4)
PREFIX-375-2500H	2.500" (2-1/2)
PREFIX-375-2750H	2.750" (2-3/4)
PREFIX-375-3000H	3.000" (3)
	+.025/-.025"
PREFIX-375-3250H	3.250" (3-1/4)
PREFIX-375-3500H	3.500" (3-1/2)
PREFIX-375-3750H	3.750" (3-3/4)
PREFIX-375-4000H	4.000" (4)

ITEM NUMBER	(L) OVERALL LENGTH

7/16 (.438")
(A) Outside Diameter: +.029/+.013"

Recommended Hole Diameter: .431-.446"	
	+.010/-.010"
PREFIX-437-1000H	1.000" (1)
PREFIX-437-1250H	1.250" (1-1/4)
PREFIX-437-1500H	1.500" (1-1/2)
PREFIX-437-1750H	1.750" (1-3/4)
PREFIX-437-1875H	1.875" (1-7/8)
PREFIX-437-2000H	2.000" (2)
	+.015/-.015"
PREFIX-437-2250H	2.250" (2-1/4)
PREFIX-437-2500H	2.500" (2-1/2)
PREFIX-437-2750H	2.750" (2-3/4)
PREFIX-437-3000H	3.000" (3)
	+.025/-.025"
PREFIX-437-3250H	3.250" (3-1/4)
PREFIX-437-3500H	3.500" (3-1/2)
PREFIX-437-3750H	3.750" (3-3/4)
PREFIX-437-4000H	4.000" (4)

1/2 (.500")
(A) Outside Diameter: +.032/+.014"

Recommended Hole Diameter: .493-.510"	
	+.025/-.025"
PREFIX-500-1250H	1.250" (1-1/4)
PREFIX-500-1500H	1.500" (1-1/2)
PREFIX-500-1625H	1.625" (1-5/8)
PREFIX-500-1750H	1.750" (1-3/4)
PREFIX-500-1875H	1.875" (1-7/8)
PREFIX-500-2000H	2.000" (2)
PREFIX-500-2250H	2.250" (2-1/4)
PREFIX-500-2500H	2.500" (2-1/2)
PREFIX-500-2750H	2.750" (2-3/4)
PREFIX-500-3000H	3.000" (3)
PREFIX-500-3250H	3.250" (3-1/4)
PREFIX-500-3500H	3.500" (3-1/2)
PREFIX-500-3750H	3.750" (3-3/4)
PREFIX-500-4000H	4.000" (4)
PREFIX-500-4750H	4.750" (4-3/4)

ITEM NUMBER	(L) OVERALL LENGTH

5/8 (.625")
(A) Outside Diameter: +.033/+.015"

Recommended Hole Diameter: .618-.635"	
	+.025/-.025"
PREFIX-625-1500H	1.500" (1-1/2)
PREFIX-625-1625H	1.625" (1-5/8)
PREFIX-625-1750H	1.750" (1-3/4)
PREFIX-625-1875H	1.875" (1-7/8)
PREFIX-625-2000H	2.000" (2)
PREFIX-625-2250H	2.250" (2-1/4)
PREFIX-625-2500H	2.500" (2-1/2)
PREFIX-625-2750H	2.750" (2-3/4)
PREFIX-625-3000H	3.000" (3)
PREFIX-625-3250H	3.250" (3-1/4)
PREFIX-625-3500H	3.500" (3-1/2)
PREFIX-625-3750H	3.750" (3-3/4)
PREFIX-625-4000H	4.000" (4)
PREFIX-625-4500H	4.500" (4-1/2)
PREFIX-625-5000H	5.000" (5)
PREFIX-625-5250H	5.250" (5-1/4)
PREFIX-625-5500H	5.500" (5-1/2)
PREFIX-625-5750H	5.750" (5-3/4)
PREFIX-625-6000H	6.000" (6)

3/4 (.750")
(A) Outside Diameter: +.034/+.016"

Recommended Hole Diameter: .743-.760"	
	+.025/-.025"
PREFIX-750-1875H	1.875" (1-7/8)
PREFIX-750-2000H	2.000" (2)
PREFIX-750-2250H	2.250" (2-1/4)
PREFIX-750-2500H	2.500" (2-1/2)
PREFIX-750-2750H	2.750" (2-3/4)
PREFIX-750-3000H	3.000" (3)
PREFIX-750-3250H	3.250" (3-1/4)
PREFIX-750-3500H	3.500" (3-1/2)
PREFIX-750-3750H	3.750" (3-3/4)
PREFIX-750-4000H	4.000" (4)
PREFIX-750-4500H	4.500" (4-1/2)
PREFIX-750-5000H	5.000" (5)
PREFIX-750-5250H	5.250" (5-1/4)
PREFIX-750-5500H	5.500" (5-1/2)
PREFIX-750-5750H	5.750" (5-3/4)
PREFIX-750-6000H	6.000" (6)

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

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COILED – HEAVY DUTY, METRIC

ASME B18.8.3M/ISO 8748

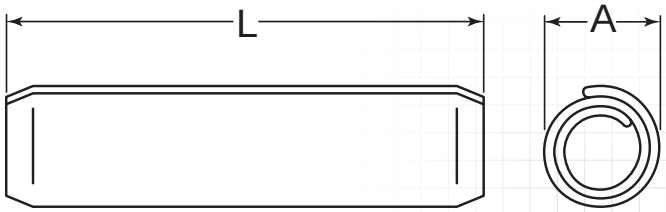
DESCRIPTION

Sometimes referred to as spiral pins, coiled pins are rolled forms made with 2-1/4 turns of steel. The wound design allows stress to be evenly distributed throughout the pin's cross section. Heavy duty pins are made from thicker material.

HOW TO IDENTIFY

1. Verify rolled pin with 2-1/4 turns.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

SPCM = DIA. <16MM HIGH CARBON STEEL, PLAIN*; >=16MM ALLOY CARBON STEEL, PLAIN*

SPCMP = DIA. <16MM HIGH CARBON STEEL, PHOSPHATE; >=16MM ALLOY CARBON STEEL, PHOSPHATE

SPCMZ = DIA. <16MM HIGH CARBON STEEL, ZINC CLEAR; >=16MM ALLOY CARBON STEEL, ZINC CLEAR

SPCM3P = 302/304 STAINLESS STEEL, PASSIVATED

SPCM5P = 420 STAINLESS STEEL, PASSIVATED

ISO 8748 identified by "H" at end of item number.

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.50 mm
(A) Outside Diameter: +0.25/+0.12 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-015-004H	4.00 mm
PREFIX-015-005H	5.00 mm
PREFIX-015-006H	6.00 mm
PREFIX-015-008H	8.00 mm
PREFIX-015-010H	10.00 mm
	+0.50/-0.50 mm
PREFIX-015-012H	12.00 mm
PREFIX-015-014H	14.00 mm
PREFIX-015-016H	16.00 mm
PREFIX-015-018H	18.00 mm
PREFIX-015-020H	20.00 mm
PREFIX-015-022H	22.00 mm
PREFIX-015-024H	24.00 mm
PREFIX-015-026H	26.00 mm

2.00 mm
(A) Outside Diameter: +0.28/+0.13 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-020-004H	4.00 mm
PREFIX-020-005H	5.00 mm
PREFIX-020-006H	6.00 mm
PREFIX-020-008H	8.00 mm
PREFIX-020-010H	10.00 mm
	+0.50/-0.50 mm
PREFIX-020-012H	12.00 mm
PREFIX-020-014H	14.00 mm
PREFIX-020-016H	16.00 mm
PREFIX-020-018H	18.00 mm
PREFIX-020-020H	20.00 mm
PREFIX-020-022H	22.00 mm
PREFIX-020-024H	24.00 mm
PREFIX-020-026H	26.00 mm
PREFIX-020-028H	28.00 mm
PREFIX-020-030H	30.00 mm
PREFIX-020-032H	32.00 mm
PREFIX-020-035H	35.00 mm
PREFIX-020-040H	40.00 mm

2.50 mm
(A) Outside Diameter: +0.32/+0.15 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-025-005H	5.00 mm
PREFIX-025-006H	6.00 mm
PREFIX-025-008H	8.00 mm
PREFIX-025-010H	10.00 mm
	+0.50/-0.50 mm
PREFIX-025-012H	12.00 mm
PREFIX-025-014H	14.00 mm
PREFIX-025-016H	16.00 mm
PREFIX-025-018H	18.00 mm
PREFIX-025-020H	20.00 mm
PREFIX-025-022H	22.00 mm
PREFIX-025-024H	24.00 mm
PREFIX-025-026H	26.00 mm
PREFIX-025-028H	28.00 mm
PREFIX-025-030H	30.00 mm
PREFIX-025-032H	32.00 mm
PREFIX-025-035H	35.00 mm
PREFIX-025-040H	40.00 mm
PREFIX-025-045H	45.00 mm

3.00 mm
(A) Outside Diameter: +0.35/+0.15 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.25/-0.25 mm
PREFIX-030-006H	6.00 mm
PREFIX-030-008H	8.00 mm
PREFIX-030-010H	10.00 mm

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ASME B18.8.3M/ISO 8748

COILED – HEAVY DUTY, METRIC

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-030-012H	12.00 mm
PREFIX-030-014H	14.00 mm
PREFIX-030-016H	16.00 mm
PREFIX-030-018H	18.00 mm
PREFIX-030-020H	20.00 mm
PREFIX-030-022H	22.00 mm
PREFIX-030-024H	24.00 mm
PREFIX-030-026H	26.00 mm
PREFIX-030-028H	28.00 mm
PREFIX-030-030H	30.00 mm
PREFIX-030-032H	32.00 mm
PREFIX-030-035H	35.00 mm
PREFIX-030-040H	40.00 mm
PREFIX-030-045H	45.00 mm
PREFIX-030-050H	50.00 mm

3.50 mm
(A) Outside Diameter: +0.29/+0.14 mm

	+0.25/-0.25 mm
PREFIX-035-006H	6.00 mm
PREFIX-035-008H	8.00 mm
PREFIX-035-010H	10.00 mm
	+0.50/-0.50 mm
PREFIX-035-012H	12.00 mm
PREFIX-035-014H	14.00 mm
PREFIX-035-016H	16.00 mm
PREFIX-035-018H	18.00 mm
PREFIX-035-020H	20.00 mm
PREFIX-035-022H	22.00 mm
PREFIX-035-024H	24.00 mm
PREFIX-035-026H	26.00 mm
PREFIX-035-028H	28.00 mm
PREFIX-035-030H	30.00 mm
PREFIX-035-035H	35.00 mm
PREFIX-035-040H	40.00 mm
PREFIX-035-045H	45.00 mm
PREFIX-035-050H	50.00 mm

4.00 mm
(A) Outside Diameter: +0.45/+0.20 mm

	+0.25/-0.25 mm
PREFIX-040-008H	8.00 mm
PREFIX-040-010H	10.00 mm
	+0.50/-0.50 mm
PREFIX-040-012H	12.00 mm
PREFIX-040-014H	14.00 mm
PREFIX-040-016H	16.00 mm
PREFIX-040-018H	18.00 mm
PREFIX-040-020H	20.00 mm
PREFIX-040-022H	22.00 mm
PREFIX-040-024H	24.00 mm
PREFIX-040-026H	26.00 mm
PREFIX-040-028H	28.00 mm
PREFIX-040-030H	30.00 mm
PREFIX-040-032H	32.00 mm
PREFIX-040-035H	35.00 mm
PREFIX-040-040H	40.00 mm
PREFIX-040-045H	45.00 mm
PREFIX-040-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-040-055H	55.00 mm
PREFIX-040-060H	60.00 mm

5.00 mm
(A) Outside Diameter: +0.50/+0.20 mm

	+0.25/-0.25 mm
PREFIX-050-010H	10.00 mm
	+0.50/-0.50 mm
PREFIX-050-012H	12.00 mm
PREFIX-050-014H	14.00 mm
PREFIX-050-016H	16.00 mm
PREFIX-050-018H	18.00 mm
PREFIX-050-020H	20.00 mm
PREFIX-050-022H	22.00 mm
PREFIX-050-024H	24.00 mm
PREFIX-050-026H	26.00 mm
PREFIX-050-028H	28.00 mm
PREFIX-050-030H	30.00 mm
PREFIX-050-032H	32.00 mm
PREFIX-050-035H	35.00 mm
PREFIX-050-040H	40.00 mm
PREFIX-050-045H	45.00 mm
PREFIX-050-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-050-055H	55.00 mm
PREFIX-050-060H	60.00 mm

6.00 mm
(A) Outside Diameter: +0.55/+0.25 mm

	+0.50/-0.50 mm
PREFIX-060-012H	12.00 mm
PREFIX-060-014H	14.00 mm
PREFIX-060-016H	16.00 mm
PREFIX-060-018H	18.00 mm
PREFIX-060-020H	20.00 mm
PREFIX-060-022H	22.00 mm
PREFIX-060-024H	24.00 mm
PREFIX-060-026H	26.00 mm
PREFIX-060-028H	28.00 mm
PREFIX-060-030H	30.00 mm
PREFIX-060-032H	32.00 mm
PREFIX-060-035H	35.00 mm
PREFIX-060-040H	40.00 mm
PREFIX-060-045H	45.00 mm
PREFIX-060-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-060-055H	55.00 mm
PREFIX-060-060H	60.00 mm
PREFIX-060-065H	65.00 mm
PREFIX-060-070H	70.00 mm
PREFIX-060-075H	75.00 mm

8.00 mm
(A) Outside Diameter: +0.55/+0.25 mm

	+0.50/-0.50 mm
PREFIX-080-016H	16.00 mm
PREFIX-080-018H	18.00 mm
PREFIX-080-020H	20.00 mm
PREFIX-080-022H	22.00 mm
PREFIX-080-024H	24.00 mm
PREFIX-080-026H	26.00 mm
PREFIX-080-028H	28.00 mm
PREFIX-080-030H	30.00 mm
PREFIX-080-032H	32.00 mm
PREFIX-080-035H	35.00 mm
PREFIX-080-040H	40.00 mm
PREFIX-080-045H	45.00 mm
PREFIX-080-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-080-055H	55.00 mm
PREFIX-080-060H	60.00 mm
PREFIX-080-065H	65.00 mm
PREFIX-080-070H	70.00 mm
PREFIX-080-075H	75.00 mm
PREFIX-080-080H	80.00 mm
PREFIX-080-085H	85.00 mm
PREFIX-080-090H	90.00 mm
PREFIX-080-095H	95.00 mm
PREFIX-080-100H	100.00 mm
PREFIX-080-120H	120.00 mm

10.00 mm
(A) Outside Diameter: +0.65/+0.30 mm

	+0.50/-0.50 mm
PREFIX-100-020H	20.00 mm
PREFIX-100-022H	22.00 mm
PREFIX-100-024H	24.00 mm
PREFIX-100-026H	26.00 mm
PREFIX-100-028H	28.00 mm
PREFIX-100-030H	30.00 mm
PREFIX-100-035H	35.00 mm
PREFIX-100-040H	40.00 mm
PREFIX-100-045H	45.00 mm
PREFIX-100-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-100-055H	55.00 mm
PREFIX-100-060H	60.00 mm
PREFIX-100-065H	65.00 mm

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COILED – HEAVY DUTY, METRIC

ASME B18.8.3M/ISO 8748

PREFIX MATERIAL/FINISH

SPCM = DIA. <16MM HIGH CARBON STEEL, PLAIN*; >=16MM ALLOY CARBON STEEL, PLAIN*

SPCMP = DIA. <16MM HIGH CARBON STEEL, PHOSPHATE; >=16MM ALLOY CARBON STEEL, PHOSPHATE

SPCMZ = DIA. <16MM HIGH CARBON STEEL, ZINC CLEAR; >=16MM ALLOY CARBON STEEL, ZINC CLEAR

SPCM3P = 302/304 STAINLESS STEEL, PASSIVATED

SPCM5P = 420 STAINLESS STEEL, PASSIVATED

ISO 8748 identified by "H" at end of item number.
Material/finish combinations may not be available in all sizes.

10.00 mm
(A) Outside Diameter: +0.65/+0.30 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.75/-0.75 mm
PREFIX-100-070H	70.00 mm
PREFIX-100-075H	75.00 mm
PREFIX-100-080H	80.00 mm
PREFIX-100-085H	85.00 mm
PREFIX-100-090H	90.00 mm
PREFIX-100-095H	95.00 mm
PREFIX-100-100H	100.00 mm
PREFIX-100-120H	120.00 mm

12.00 mm
(A) Outside Diameter: +0.75/+0.35 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-120-024H	24.00 mm
PREFIX-120-026H	26.00 mm
PREFIX-120-028H	28.00 mm
PREFIX-120-030H	30.00 mm
PREFIX-120-035H	35.00 mm
PREFIX-120-040H	40.00 mm
PREFIX-120-045H	45.00 mm
PREFIX-120-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-120-055H	55.00 mm
PREFIX-120-060H	60.00 mm
PREFIX-120-065H	65.00 mm
PREFIX-120-070H	70.00 mm
PREFIX-120-075H	75.00 mm
PREFIX-120-080H	80.00 mm
PREFIX-120-085H	85.00 mm
PREFIX-120-090H	90.00 mm
PREFIX-120-095H	95.00 mm
PREFIX-120-100H	100.00 mm
PREFIX-120-120H	120.00 mm
PREFIX-120-140H	140.00 mm
PREFIX-120-160H	160.00 mm

16.00 mm
(A) Outside Diameter: +0.90/+0.40 mm

ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-160-035H	35.00 mm
PREFIX-160-040H	40.00 mm
PREFIX-160-045H	45.00 mm
PREFIX-160-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-160-055H	55.00 mm
PREFIX-160-060H	60.00 mm
PREFIX-160-065H	65.00 mm
PREFIX-160-070H	70.00 mm
PREFIX-160-075H	75.00 mm
PREFIX-160-080H	80.00 mm
PREFIX-160-085H	85.00 mm
PREFIX-160-090H	90.00 mm
PREFIX-160-095H	95.00 mm
PREFIX-160-100H	100.00 mm
PREFIX-160-120H	120.00 mm
PREFIX-160-140H	140.00 mm
PREFIX-160-160H	160.00 mm
PREFIX-160-180H	180.00 mm
PREFIX-160-200H	200.00 mm

20.00 mm
(A) Outside Diameter: +1.00/+0.40 mm

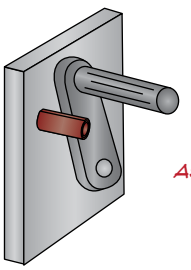
ITEM NUMBER	(L) OVERALL LENGTH
	+0.50/-0.50 mm
PREFIX-200-045H	45.00 mm
PREFIX-200-050H	50.00 mm
	+0.75/-0.75 mm
PREFIX-200-055H	55.00 mm
PREFIX-200-060H	60.00 mm
PREFIX-200-065H	65.00 mm
PREFIX-200-070H	70.00 mm
PREFIX-200-075H	75.00 mm
PREFIX-200-080H	80.00 mm
PREFIX-200-085H	85.00 mm
PREFIX-200-090H	90.00 mm
PREFIX-200-095H	95.00 mm
PREFIX-200-100H	100.00 mm
PREFIX-200-120H	120.00 mm
PREFIX-200-140H	140.00 mm
PREFIX-200-160H	160.00 mm
PREFIX-200-180H	180.00 mm
PREFIX-200-200H	200.00 mm

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

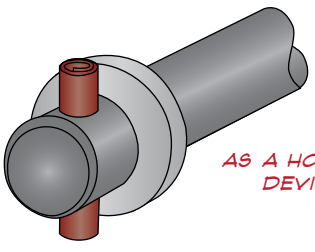
SPCM • SPCMP • SPCMZ
SPCM3P • SPCM5P

IN STOCK
ORDERS SHIP NEXT BUSINESS DAY

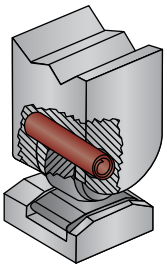
APPLICATIONS



AS A PIVOT FOR A HANDLE



AS A HOLDING DEVICE



ABSORBS SHOCK AND VIBRATIONS

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JIS B2808

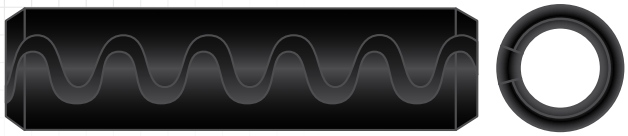
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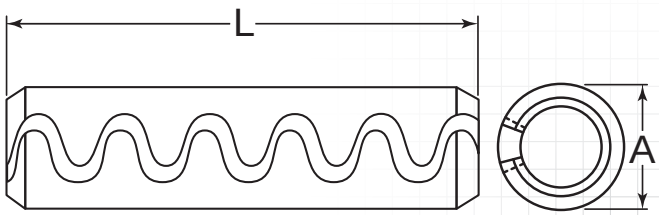
DESCRIPTION

Staggered teeth spaced to interlock when the pin is compressed. This alignment helps retain the roundness of the pin and minimizes lateral movement in vibratory environments or in an out-of-round hole.

HOW TO IDENTIFY

1. Verify rolled pin with toothed slot.
2. Measure diameter (A).
3. Measure length (L).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

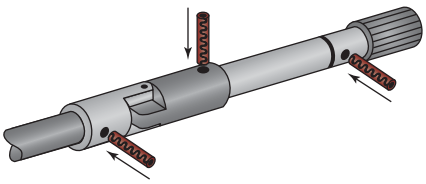
SPT = ALLOY STEEL, BLACK OXIDE

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

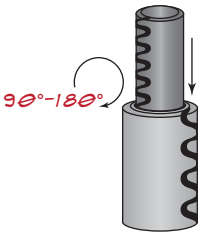
ITEM NUMBER	(A) OUTSIDE DIAMETER	(L) OVERALL LENGTH
SPT-0625-2000	.625" (5/8) .656/.645"	2.000" (2) 2.020/1.980"
SPT-0625-4000	.625" (5/8) .656/.645"	4.000" (4) 4.020/3.980"
SPT-0750-2000	.750" (3/4) .782/.769"	2.000" (2) 2.020/1.980"
SPT-0750-6000	.750" (3/4) .782/.769"	6.000" (6) 6.020/5.980"

APPLICATION



CONNECTOR BETWEEN SHAFT AND HANDLE FOR ROLLER SHUTTER

DOUBLE PINS FOR HEAVY DUTY APPLICATIONS



When a higher shear strength is needed for heavy duty applications, pins can be doubled up for approximately 35% to 40% added shear strength. When using toothed spring pins in this way, position the slots at an angle between 90° and 180° to each other.

MANUFACTURING CAPABILITIES:



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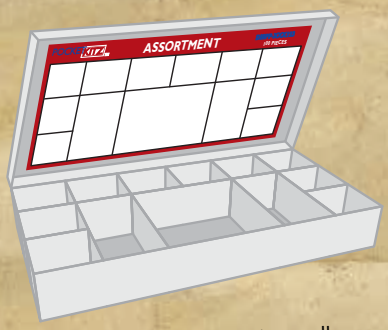
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ASSORTMENTS

POCKETKITZ™

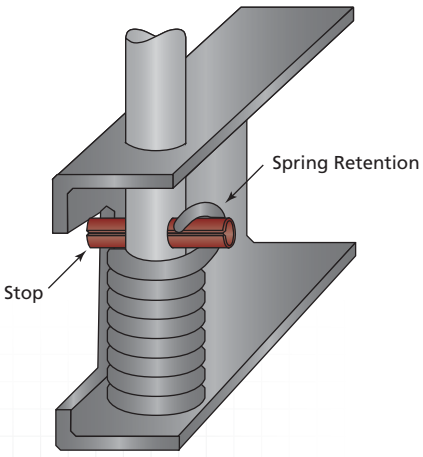


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APPLICATIONS

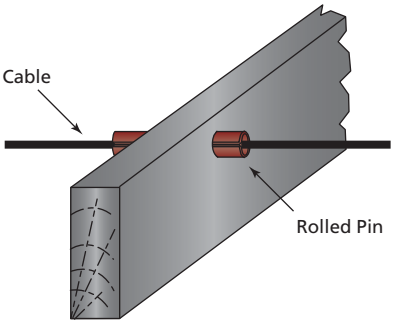


DUAL PURPOSE APPLICATION AS A STOP AND AS A SPRING RETAINER

Slotted – Imperial DISP-SP50

50 Pieces – Zinc Clear

Parts Included	Size	Qty
SP-093-0625	3/32" x 5/8"	2
SP-093-0750	3/32" x 3/4"	2
SP-125-0625	1/8" x 5/8"	2
SP-125-1000	1/8" x 1"	2
SP-187-0750	3/16" x 3/4"	2
SP-187-1000	3/16" x 1"	2
SP-187-1250	3/16" x 1-1/4"	2
SP-187-1750	3/16" x 1-3/4"	2
SP-250-1000	1/4" x 1"	2
SP-250-1250	1/4" x 1-1/4"	2
SP-250-1375	1/4" x 1-3/8"	2
SP-250-1500	1/4" x 1-1/2"	2
SP-250-1625	1/4" x 1-5/8"	2
SP-250-1750	1/4" x 1-3/4"	2
SP-250-1875	1/4" x 1-7/8"	2
SP-250-2000	1/4" x 2"	2
SP-250-2250	1/4" x 2-1/4"	2
SP-250-2500	1/4" x 2-1/2"	2
SP-312-1500	5/16" x 1-1/2"	1
SP-312-1750	5/16" x 1-3/4"	1
SP-312-2000	5/16" x 2"	1
SP-312-2250	5/16" x 2-1/4"	1
SP-312-2500	5/16" x 2-1/2"	1
SP-312-3750	5/16" x 3-3/4"	1
SP-375-1500	3/8" x 1-1/2"	1
SP-375-1750	3/8" x 1-3/4"	1
SP-375-2000	3/8" x 2"	1
SP-375-2250	3/8" x 2-1/4"	1
SP-375-2500	3/8" x 2-1/2"	1
SP-500-2000	1/2" x 2"	1
SP-500-2250	1/2" x 2-1/4"	1
SP-500-2500	1/2" x 2-1/2"	1



HOLLOW DESIGN USEFUL IN OTHER NON-PIN APPLICATIONS SUCH AS A SLEEVE

Slotted – Imperial DISP-SP300

300 Pieces – Zinc Clear

Parts Included	Size	Qty
SP-062-0250	1/16" x 1/4"	10
SP-062-0375	1/16" x 3/8"	10
SP-062-0500	1/16" x 1/2"	10
SP-062-0750	1/16" x 3/4"	10
SP-078-0250	5/64" x 1/4"	10
SP-078-0375	5/64" x 3/8"	10
SP-078-0500	5/64" x 1/2"	10
SP-078-0750	5/64" x 3/4"	10
SP-093-0625	3/32" x 5/8"	10
SP-093-1000	3/32" x 1"	10
SP-093-1250	3/32" x 1-1/4"	10
SP-093-1500	3/32" x 1-1/2"	8
SP-125-0625	1/8" x 5/8"	10
SP-125-1000	1/8" x 1"	10
SP-125-1250	1/8" x 1-1/4"	10
SP-125-1500	1/8" x 1-1/2"	8
SP-156-1000	5/32" x 1"	7
SP-156-1250	5/32" x 1-1/4"	7
SP-156-1500	5/32" x 1-1/2"	7
SP-156-1750	5/32" x 1-3/4"	7
SP-187-1000	3/16" x 1"	7
SP-187-1250	3/16" x 1-1/4"	7
SP-187-1500	3/16" x 1-1/2"	7
SP-187-1750	3/16" x 1-3/4"	7
SP-218-1250	7/32" x 1-1/4"	7
SP-218-1500	7/32" x 1-1/2"	7
SP-218-1750	7/32" x 1-3/4"	7
SP-218-2000	7/32" x 2"	7
SP-250-1250	1/4" x 1-1/4"	7
SP-250-1500	1/4" x 1-1/2"	7
SP-250-1750	1/4" x 1-3/4"	7
SP-250-2000	1/4" x 2"	7
SP-312-1500	5/16" x 1-1/2"	5
SP-312-1750	5/16" x 1-3/4"	5
SP-312-2000	5/16" x 2"	5
SP-312-2500	5/16" x 2-1/2"	5
SP-375-1500	3/8" x 1-1/2"	3
SP-375-1750	3/8" x 1-3/4"	3
SP-375-2000	3/8" x 2"	3
SP-375-2500	3/8" x 2-1/2"	3



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ASSORTMENTS

Slotted – Imperial
DISP-SP500

504 Pieces – Zinc Clear

Parts Included	Size	Qty
SP-062-0250	1/16" x 1/4"	10
SP-062-0312	1/16" x 5/16"	10
SP-062-0375	1/16" x 3/8"	10
SP-062-0437	1/16" x 7/16"	10
SP-062-0500	1/16" x 1/2"	10
SP-062-0750	1/16" x 3/4"	10
SP-062-0875	1/16" x 7/8"	10
SP-078-0250	5/64" x 1/4"	10
SP-078-0312	5/64" x 5/16"	10
SP-078-0375	5/64" x 3/8"	10
SP-078-0437	5/64" x 7/16"	10
SP-078-0500	5/64" x 1/2"	10
SP-078-0750	5/64" x 3/4"	10
SP-078-0875	5/64" x 7/8"	10
SP-093-0500	3/32" x 1/2"	10
SP-093-0625	3/32" x 5/8"	10
SP-093-0750	3/32" x 3/4"	10
SP-093-1000	3/32" x 1"	10
SP-093-1250	3/32" x 1-1/4"	10
SP-093-1375	3/32" x 1-3/8"	10
SP-093-1500	3/32" x 1-1/2"	10
SP-125-0500	1/8" x 1/2"	8
SP-125-0625	1/8" x 5/8"	8
SP-125-0750	1/8" x 3/4"	8
SP-125-1000	1/8" x 1"	8
SP-125-1250	1/8" x 1-1/4"	8
SP-125-1375	1/8" x 1-3/8"	8
SP-125-1500	1/8" x 1-1/2"	8
SP-156-0750	5/32" x 3/4"	7
SP-156-1000	5/32" x 1"	7
SP-156-1250	5/32" x 1-1/4"	7
SP-156-1375	5/32" x 1-3/8"	7
SP-156-1500	5/32" x 1-1/2"	7
SP-156-1625	5/32" x 1-5/8"	7
SP-156-1750	5/32" x 1-3/4"	7

Parts Included	Size	Qty
SP-187-0750	3/16" x 3/4"	7
SP-187-1000	3/16" x 1"	7
SP-187-1250	3/16" x 1-1/4"	7
SP-187-1375	3/16" x 1-3/8"	7
SP-187-1500	3/16" x 1-1/2"	7
SP-187-1625	3/16" x 1-5/8"	7
SP-187-1750	3/16" x 1-3/4"	7
SP-218-1000	7/32" x 1"	6
SP-218-1250	7/32" x 1-1/4"	6
SP-218-1375	7/32" x 1-3/8"	6
SP-218-1500	7/32" x 1-1/2"	6
SP-218-1625	7/32" x 1-5/8"	6
SP-218-1750	7/32" x 1-3/4"	6
SP-218-2000	7/32" x 2"	6
SP-250-1000	1/4" x 1"	6
SP-250-1250	1/4" x 1-1/4"	6
SP-250-1375	1/4" x 1-3/8"	6
SP-250-1500	1/4" x 1-1/2"	6
SP-250-1625	1/4" x 1-5/8"	6
SP-250-1750	1/4" x 1-3/4"	6
SP-250-2000	1/4" x 2"	6
SP-312-1500	5/16" x 1-1/2"	5
SP-312-1625	5/16" x 1-5/8"	5
SP-312-1750	5/16" x 1-3/4"	5
SP-312-1875	5/16" x 1-7/8"	5
SP-312-2000	5/16" x 2"	5
SP-312-2250	5/16" x 2-1/4"	5
SP-312-2500	5/16" x 2-1/2"	5
SP-375-1250	3/8" x 1-1/4"	3
SP-375-1500	3/8" x 1-1/2"	3
SP-375-1750	3/8" x 1-3/4"	3
SP-375-2000	3/8" x 2"	3
SP-375-2250	3/8" x 2-1/4"	3
SP-375-2500	3/8" x 2-1/2"	3
SP-375-2750	3/8" x 2-3/4"	3

Slotted – Metric
DISP-SPM375

375 Pieces – Plain*

Parts Included	Size	Qty
SPM-015-010-A	1.5 mm x 10 mm	20
SPM-015-016-A	1.5 mm x 16 mm	20
SPM-020-010-A	2 mm x 10 mm	20
SPM-020-020-A	2 mm x 20 mm	20
SPM-025-016-A	2.5 mm x 16 mm	20
SPM-025-026-A	2.5 mm x 26 mm	20
SPM-030-016-A	3 mm x 16 mm	20
SPM-030-026-A	3 mm x 26 mm	20
SPM-030-040-A	3 mm x 40 mm	20
SPM-040-024-A	4 mm x 24 mm	20
SPM-040-028-A	4 mm x 28 mm	20
SPM-040-035-A	4 mm x 35 mm	20
SPM-040-040-A	4 mm x 40 mm	15
SPM-050-026-A	5 mm x 26 mm	15
SPM-050-032-A	5 mm x 32 mm	15
SPM-050-045-A	5 mm x 45 mm	15
SPM-060-030-A	6 mm x 30 mm	15
SPM-060-036-A	6 mm x 36 mm	15
SPM-060-050-A	6 mm x 50 mm	15
SPM-080-028-A	8 mm x 28 mm	15
SPM-080-040-A	8 mm x 40 mm	15

Slotted – Metric
DISP-SPMSP150

150 Pieces – 420 Stainless Steel, Passivated

Parts Included	Size	Qty
SPMSP-015-006-A	1.5 mm x 6 mm	10
SPMSP-015-010-A	1.5 mm x 10 mm	10
SPMSP-015-012-A	1.5 mm x 12 mm	10
SPMSP-015-020-A	1.5 mm x 20 mm	10
SPMSP-020-006-A	2 mm x 6 mm	10
SPMSP-020-010-A	2 mm x 10 mm	8
SPMSP-020-012-A	2 mm x 12 mm	8
SPMSP-020-020-A	2 mm x 20 mm	8
SPMSP-030-010-A	3 mm x 10 mm	7
SPMSP-030-024-A	3 mm x 24 mm	7
SPMSP-030-030-A	3 mm x 30 mm	6
SPMSP-030-040-A	3 mm x 40 mm	6
SPMSP-040-010-A	4 mm x 10 mm	6
SPMSP-040-018-A	4 mm x 18 mm	6
SPMSP-040-022-A	4 mm x 22 mm	6
SPMSP-050-014-A	5 mm x 14 mm	6
SPMSP-050-018-A	5 mm x 18 mm	5
SPMSP-060-014-A	6 mm x 14 mm	5
SPMSP-060-018-A	6 mm x 18 mm	4
SPMSP-080-030-A	8 mm x 30 mm	4
SPMSP-080-065-A	8 mm x 65 mm	4
SPMSP-100-050-A	10 mm x 50 mm	4

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ASSORTMENTS

Slotted – Imperial DISP-SPSP300

300 Pieces – 420 Stainless Steel, Passivated

Parts Included	Size	Qty
SPSP-062-0250	1/16" x 1/4"	5
SPSP-062-0500	1/16" x 1/2"	5
SPSP-062-0750	1/16" x 3/4"	5
SPSP-078-0500	5/64" x 1/2"	5
SPSP-078-0750	5/64" x 3/4"	5
SPSP-078-1000	5/64" x 1"	5
SPSP-078-1500	5/64" x 1-1/2"	5
SPSP-093-0500	3/32" x 1/2"	5
SPSP-093-0750	3/32" x 3/4"	10
SPSP-093-1000	3/32" x 1"	10
SPSP-093-1500	3/32" x 1-1/2"	10
SPSP-125-0750	1/8" x 3/4"	10
SPSP-125-1000	1/8" x 1"	10
SPSP-125-1500	1/8" x 1-1/2"	10
SPSP-125-2000	1/8" x 2"	10
SPSP-156-1000	5/32" x 1"	10
SPSP-156-1500	5/32" x 1-1/2"	10
SPSP-156-2000	5/32" x 2"	10
SPSP-156-2500	5/32" x 2-1/2"	10
SPSP-187-1000	3/16" x 1"	10
SPSP-187-1500	3/16" x 1-1/2"	10
SPSP-187-2000	3/16" x 2"	10
SPSP-187-2500	3/16" x 2-1/2"	10
SPSP-218-1000	7/32" x 1"	5
SPSP-218-1500	7/32" x 1-1/2"	5
SPSP-218-2000	7/32" x 2"	10
SPSP-218-2500	7/32" x 2-1/2"	5
SPSP-250-1000	1/4" x 1"	10
SPSP-250-1500	1/4" x 1-1/2"	10
SPSP-250-2000	1/4" x 2"	10
SPSP-250-2500	1/4" x 2-1/2"	10
SPSP-312-1000	5/16" x 1"	5
SPSP-312-1500	5/16" x 1-1/2"	5
SPSP-312-2000	5/16" x 2"	10
SPSP-312-2500	5/16" x 2-1/2"	5
SPSP-375-1000	3/8" x 1"	5
SPSP-375-1500	3/8" x 1-1/2"	5
SPSP-375-2000	3/8" x 2"	5
SPSP-375-2500	3/8" x 2-1/2"	5

Slotted – Imperial DISP-SPS300

300 Pieces – 420 Stainless Steel
SPS = Plain, SPSP=Passivated

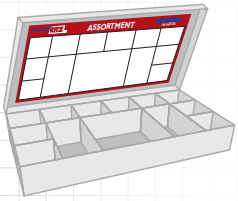
Parts Included	Size	Qty
SPS-062-1000	1/16" x 1"	5
SPS-078-1000	5/64" x 1"	5
SPS-078-1500	5/64" x 1-1/2"	5
SPS-093-1500	3/32" x 1-1/2"	10
SPS-125-1500	1/8" x 1-1/2"	10
SPS-125-2000	1/8" x 2"	10
SPS-156-1500	5/32" x 1-1/2"	10
SPS-156-2000	5/32" x 2"	10
SPS-187-2500	3/16" x 2-1/2"	10
SPS-218-1000	7/32" x 1"	5
SPS-218-1500	7/32" x 1-1/2"	5
SPS-218-2500	7/32" x 2-1/2"	5
SPS-250-1500	1/4" x 1-1/2"	10
SPS-250-2000	1/4" x 2"	10
SPS-250-2500	1/4" x 2-1/2"	10
SPS-312-1000	5/16" x 1"	5
SPS-312-1500	5/16" x 1-1/2"	5
SPS-312-2500	5/16" x 2-1/2"	5
SPS-375-1500	3/8" x 1-1/2"	5
SPS-375-2000	3/8" x 2"	5
SPS-375-2500	3/8" x 2-1/2"	5
SPSP-062-0250	1/16" x 1/4"	5
SPSP-062-0500	1/16" x 1/2"	5
SPSP-062-0750	1/16" x 3/4"	5
SPSP-078-0500	5/64" x 1/2"	5
SPSP-078-0750	5/64" x 3/4"	5
SPSP-093-0500	3/32" x 1/2"	10
SPSP-093-0750	3/32" x 3/4"	10
SPSP-093-1000	3/32" x 1"	10
SPSP-125-0750	1/8" x 3/4"	10
SPSP-125-1000	1/8" x 1"	10
SPSP-156-1000	5/32" x 1"	10
SPSP-156-2500	5/32" x 2-1/2"	10
SPSP-187-1000	3/16" x 1"	10
SPSP-187-1500	3/16" x 1-1/2"	10
SPSP-187-2000	3/16" x 2"	10
SPSP-218-2000	7/32" x 2"	5
SPSP-250-1000	1/4" x 1"	10
SPSP-312-2000	5/16" x 2"	5
SPSP-375-1000	3/8" x 1"	5

Slotted – Imperial DISP-SPS3P300

300 Pieces – 302/304 Stainless Steel, Plain

Parts Included	Size	Qty
SPS3P-062-0250	1/16" x 1/4"	5
SPS3P-062-0500	1/16" x 1/2"	5
SPS3P-062-0750	1/16" x 3/4"	5
SPS3P-062-1000	1/16" x 1"	5
SPS3P-078-0500	5/64" x 1/2"	5
SPS3P-078-0750	5/64" x 3/4"	5
SPS3P-078-1000	5/64" x 1"	5
SPS3P-078-1500	5/64" x 1-1/2"	5
SPS3P-093-0500	3/32" x 1/2"	10
SPS3P-093-0750	3/32" x 3/4"	10
SPS3P-093-1000	3/32" x 1"	10
SPS3P-093-1500	3/32" x 1-1/2"	10
SPS3P-125-0750	1/8" x 3/4"	10
SPS3P-125-1000	1/8" x 1"	10
SPS3P-125-1500	1/8" x 1-1/2"	10
SPS3P-125-2000	1/8" x 2"	10
SPS3P-156-1000	5/32" x 1"	10
SPS3P-156-1500	5/32" x 1-1/2"	10
SPS3P-156-2000	5/32" x 2"	10
SPS3P-156-2500	5/32" x 2-1/2"	10
SPS3P-187-1000	3/16" x 1"	10
SPS3P-187-1500	3/16" x 1-1/2"	10
SPS3P-187-2000	3/16" x 2"	10
SPS3P-187-2500	3/16" x 2-1/2"	10
SPS3P-218-1000	7/32" x 1"	5
SPS3P-218-1500	7/32" x 1-1/2"	5
SPS3P-218-2000	7/32" x 2"	5
SPS3P-218-2500	7/32" x 2-1/2"	5
SPS3P-250-1000	1/4" x 1"	10
SPS3P-250-1500	1/4" x 1-1/2"	10
SPS3P-250-2000	1/4" x 2"	10
SPS3P-250-2500	1/4" x 2-1/2"	10
SPS3P-312-1000	5/16" x 1"	5
SPS3P-312-1500	5/16" x 1-1/2"	5
SPS3P-312-2000	5/16" x 2"	5
SPS3P-312-2500	5/16" x 2-1/2"	5
SPS3P-375-1000	3/8" x 1"	5
SPS3P-375-1500	3/8" x 1-1/2"	5
SPS3P-375-2000	3/8" x 2"	5
SPS3P-375-2500	3/8" x 2-1/2"	5

ASSORTMENTS



- EASY BIN STOCKING
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ASSORTMENTS

Coiled – Imperial Standard Duty DISP-SPC50

50 Pieces – Plain		
Parts Included	Size	Qty
SPC-375-1500	3/8" x 1-1/2"	3
SPC-375-2000	3/8" x 2"	3
SPC-375-2500	3/8" x 2-1/2"	3
SPC-375-3000	3/8" x 3"	3
SPC-437-2000	7/16" x 2"	5
SPC-500-2000	1/2" x 2"	5
SPC-500-2500	1/2" x 2-1/2"	5
SPC-500-3000	1/2" x 3"	5
SPC-500-4000	1/2" x 4"	3
SPC-625-2000	5/8" x 2"	3
SPC-625-3000	5/8" x 3"	3
SPC-625-4000	5/8" x 4"	3
SPC-750-2000	3/4" x 2"	2
SPC-750-3000	3/4" x 3"	2
SPC-750-4000	3/4" x 4"	2

Coiled – Imperial Standard Duty DISP-SPC125

125 Pieces – Plain		
Parts Included	Size	Qty
SPC-062-0500	1/16" x 1/2"	10
SPC-062-1000	1/16" x 1"	10
SPC-093-0500	3/32" x 1/2"	10
SPC-093-1000	3/32" x 1"	10
SPC-125-0500	1/8" x 1/2"	10
SPC-125-0750	1/8" x 3/4"	15
SPC-125-1000	1/8" x 1"	15
SPC-156-0500	5/32" x 1/2"	5
SPC-156-1000	5/32" x 1"	5
SPC-187-1000	3/16" x 1"	10
SPC-187-1500	3/16" x 1-1/2"	10
SPC-250-1000	1/4" x 1"	5
SPC-250-1500	1/4" x 1-1/2"	5
SPC-250-2000	1/4" x 2"	5

Coiled – Imperial Standard Duty DISP-SPC250

250 Pieces – Plain		
Parts Included	Size	Qty
SPC-062-0250	1/16" x 1/4"	20
SPC-062-0500	1/16" x 1/2"	20
SPC-093-0500	3/32" x 1/2"	20
SPC-093-1000	3/32" x 1"	20
SPC-125-0500	1/8" x 1/2"	20
SPC-125-0750	1/8" x 3/4"	30
SPC-125-1000	1/8" x 1"	30
SPC-156-0500	5/32" x 1/2"	10
SPC-156-1000	5/32" x 1"	10
SPC-187-1000	3/16" x 1"	20
SPC-187-1500	3/16" x 1-1/2"	20
SPC-250-1000	1/4" x 1"	10
SPC-250-1500	1/4" x 1-1/2"	10
SPC-250-2000	1/4" x 2"	10

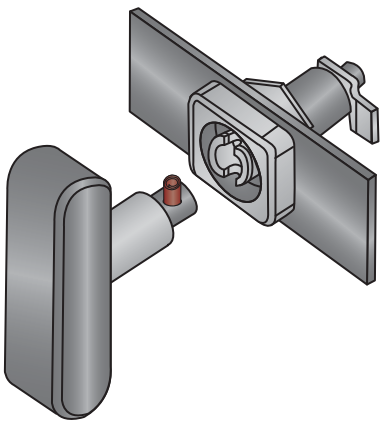
Coiled – Imperial Heavy Duty DISP-SPCH125

125 Pieces – Plain		
Parts Included	Size	Qty
SPC-062-0500H	1/16" x 1/2"	10
SPC-062-1000H	1/16" x 1"	10
SPC-093-0500H	3/32" x 1/2"	10
SPC-093-1000H	3/32" x 1"	10
SPC-125-0500H	1/8" x 1/2"	10
SPC-125-0750H	1/8" x 3/4"	10
SPC-125-1000H	1/8" x 1"	10
SPC-156-0500H	5/32" x 1/2"	10
SPC-156-1000H	5/32" x 1"	10
SPC-187-1000H	3/16" x 1"	10
SPC-187-1500H	3/16" x 1-1/2"	10
SPC-250-1000H	1/4" x 1"	5
SPC-250-1500H	1/4" x 1-1/2"	5
SPC-250-2000H	1/4" x 2"	5

Coiled – Imperial Standard Duty DISP-SPCS125

125 Pieces – 420 Stainless Steel, Plain		
Parts Included	Size	Qty
SPCSP-062-0500	1/16" x 1/2"	10
SPCSP-093-0500	3/32" x 1/2"	10
SPCSP-093-1000	3/32" x 1"	10
SPCSP-125-0500	1/8" x 1/2"	10
SPCSP-125-0750	1/8" x 3/4"	15
SPCSP-125-1000	1/8" x 1"	15
SPCSP-156-0500	5/32" x 1/2"	5
SPCSP-156-1000	5/32" x 1"	5
SPCSP-156-1500	5/32" x 1-1/2"	10
SPCSP-187-1000	3/16" x 1"	10
SPCSP-187-1500	3/16" x 1-1/2"	10
SPCSP-250-1000	1/4" x 1"	5
SPCSP-250-1500	1/4" x 1-1/2"	5
SPCSP-250-2000	1/4" x 2"	5

APPLICATION



AS AN INTERNAL POSITIONING POINT TO TRANSMIT TORQUE

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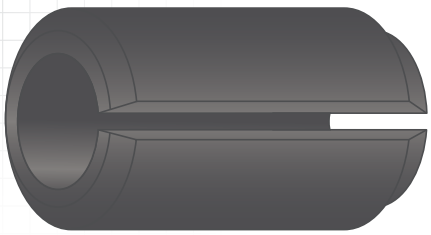
TENSION BUSHING

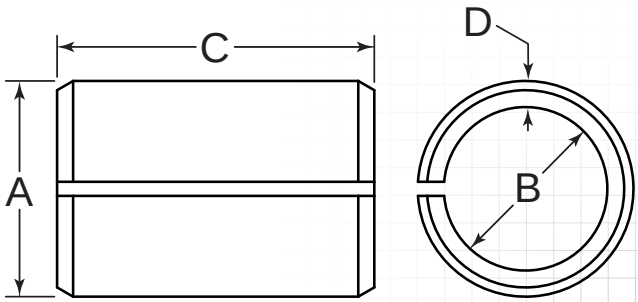
DESCRIPTION

Tension bushings are manufactured from special high carbon steel with high elasticity, resilience, and wear characteristics. These pins are self-retaining and reusable.

HOW TO IDENTIFY

1. Identify slotted rolled bushing.
2. Measure the outside diameter (A).
3. Measure the length (C).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

TB1 = HIGH CARBON SPRING/ ALLOY STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(A) OUTSIDE DIAMETER +.040/+.020"	(C) LENGTH +.031/-.031"	(D) WALL THICKNESS	(B) INSIDE DIAMETER +.007/+.005"
TB1-10000500125	1.000" (1)	.500" (1/2)	.125" (1/8)	.750" (3/4)
TB1-10001000125	1.000" (1)	1.000" (1)	.125" (1/8)	.750" (3/4)
TB1-12500500125	1.250" (1-1/4)	.500" (1/2)	.125" (1/8)	1.000" (1)
TB1-12500750125	1.250" (1-1/4)	.750" (3/4)	.125" (1/8)	1.000" (1)
TB1-12501000125	1.250" (1-1/4)	1.000" (1)	.125" (1/8)	1.000" (1)
TB1-12501500125	1.250" (1-1/4)	1.500" (1-1/2)	.125" (1/8)	1.000" (1)
TB1-12502000125	1.250" (1-1/4)	2.000" (2)	.125" (1/8)	1.000" (1)
TB1-12503000125	1.250" (1-1/4)	3.000" (3)	.125" (1/8)	1.000" (1)
TB1-15001000250	1.500" (1-1/2)	1.000" (1)	.125" (1/8)	1.000" (1)
TB1-15002000125	1.500" (1-1/2)	2.000" (2)	.125" (1/8)	1.250" (1-1/4)
TB1-17500750125	1.750" (1-3/4)	.750" (3/4)	.125" (1/8)	1.500" (1-1/2)
TB1-17501000125	1.750" (1-3/4)	1.000" (1)	.125" (1/8)	1.500" (1-1/2)
TB1-23751000187	2.375" (2-3/8) (+.056/+.031")	1.000" (1)	.188" (3/16)	2.000" (2) (+.012/+.004")

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G.L. Huyett has developed the most comprehensive guide to grease fittings (zerks) and threads the world has ever known. Inside you'll find to scale illustrations of every fitting known to man, technical and educational information, complete part number cross-referencing, design standards, manufacturing guidelines, quality control, and more related to imperial, metric, nonferrous, Heritage®, Alemite®, and Lincoln® fittings. You'll also find detailed specifications and examples of SAE-LT, PTF, and UNF grease fittings, thread forming and drive type, special use fittings, pressure control, flow control, connecting parts, grease guns, and accessories.



Adapters
Adapters; Elbows; Extensions; Pipe Plugs; O-rings



Grease Gun Hoses
Flexible Hoses; Rigid Extensions



Couplers
Couplers; Needle Nozzles; Quick Connect



Fittings
SAE-LT; PTF; UNF; Thread Forming; Drive Type; Flush; Button Head; Vents



Grease Guns
Light, Medium, & Heavy Duty; Lever, Cordless, & Pneumatic Models



Assortments
Heritage®, Alemite®, & Lincoln®; SAE-LT; PTF; UNF; Button Head; Drive Type; Thread Forming

FERROUS & NON-FERROUS

- SAE
- SAE-LT
- PTF/NPTF
- BRITISH STANDARD
- ISO METRIC
- DIN
- UNF

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296 PAGES!



A comprehensive guide to grease fittings and threads with scale illustrations of every fitting, technical and educational information, complete part number cross-referencing, design standards, manufacturing guidelines, quality control, and more related to grease fittings and accessories.

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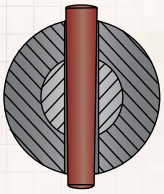
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TAPER PIN FEATURES

Taper pins are arguably one of the simplest pin designs available, and along with dowel pins, are the oldest. Taper pins are turned from barstock to varying tolerances depending on the specification. This production technique is slower than the heading and grinding process used to manufacture dowel pins, and slower than rolling steel pins.

DESIGN CONSIDERATIONS

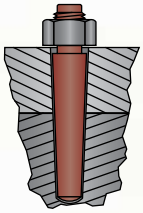
TAPER PINS



STANDARD TAPER PINS ARE USED AS POSITIONING COMPONENTS FOR TRANSMITTING LOW TORQUES

POUND A PUNCH OR DRIVE TOOL INTO SMALL END TO REMOVE

EXTERNALLY THREADED



THREADED TAPER PINS ARE USED IN BLIND HOLES

REMOVAL IS ACHIEVED BY SCREWING A NUT DOWN ONTO THE THREADS

INTERNALLY THREADED



INTERNALLY THREADED FOR USE IN FLUSH APPLICATIONS

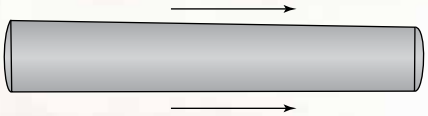
DESIGNATIONS

#1, #2, #3 ...

TAPER PINS ARE CALLED OUT BY A NUMBER AND LENGTH "I NEED A #3 BY 2 INCH"

The number refers to the diameter of the large end of imperial pins. To get the diameter of the small end, multiply the length by .02083 and subtract from the decimal size of the large end. *See "Diameter Cross Reference," page 249.*

TAPER



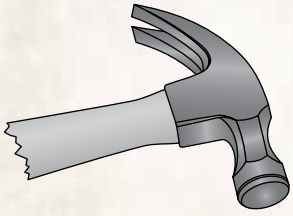
ASME B18.8.2 SPECIFIES A TAPER OF 1/4" PER FOOT (0.02083" PER INCH)

MICROFINISH

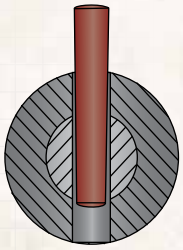
63 or **63µ**

A 63 MICROFINISH IS STANDARD TO ALLOW SMOOTH INSERTION

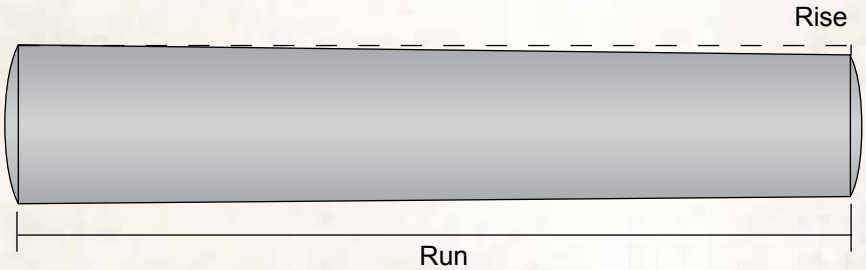
EASY INSTALLATION



TAP WITH A HAMMER TO INSERT



HOW TO MEASURE THE TAPER



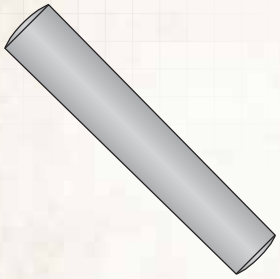
Tapers are expressed in terms of rise over run. In other words, the amount of taper is stated per linear units of measure. A 1/4" taper per foot means that for every 12" in linear distance (run) the thickness of the part (rise) decreases by .25" (1:48). Metric pins decrease by 1 mm for every 50 mm (1:50).

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TAPER PIN TYPES

STANDARD

Simply designed pins that are hammered or driven into a tapered hole. 1/4" taper per linear foot.



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EXTERNAL THREAD

External threads are used when a tapered pin has to be removed from the driven (large) end. Tightening a nut on the threads will unseat the pin.



PAGE 258

INTERNAL THREAD

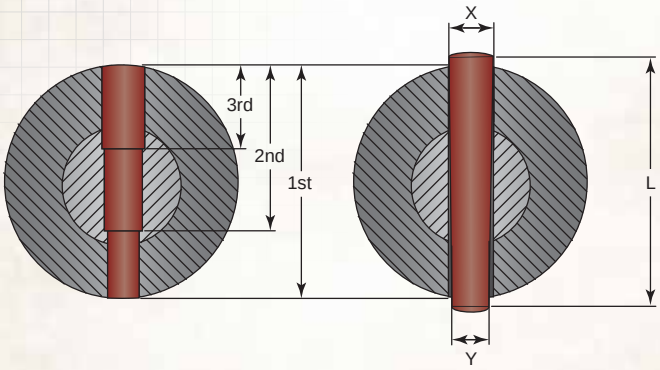
Internal threads are used as an anchor for leverage during removal.



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DESIGN CONSIDERATIONS

STEP DRILLING TAPER PIN HOLES



STEP DRILLED HOLE INSTALLED PIN

To obtain diameter of small end (Y), multiply length (L) by .02083 and subtract from large end (X).

If a helically fluted taper reamer is used, the diameter of the small end of the pin is the size for the through drill.

Step drilling and using straight fluted reamers have specific requirements. Call for details.

ALWAYS TEST STEP-DRILLED HOLES FOR VERIFICATION PRIOR TO PRODUCTION

DIAMETER CROSS REFERENCE

NUMBER	FRACTIONAL DIAMETER (REFERENCE ONLY)	DECIMAL DIAMETER
#7/0	1/16"	.063"
#6/0	5/64"	.078"
#5/0	3/32"	.094"
#4/0	7/64"	.109"
#3/0	1/8"	.125"
#2/0	9/64"	.141"
#0	5/32"	.156"
#1	11/64"	.172"
#2	3/16"	.193"
#3	7/32"	.219"
#4	1/4"	.250"
#5	19/64"	.289"
#6	11/32"	.341"
#7	13/32"	.409"
#8	1/2"	.492"
#9	19/32"	.591"
#10	23/32"	.706"
#11	55/64"	.860"
#12	1-1/32"	1.032"
#13	1-15/32"	1.241"
#14	1-33/64"	1.523"

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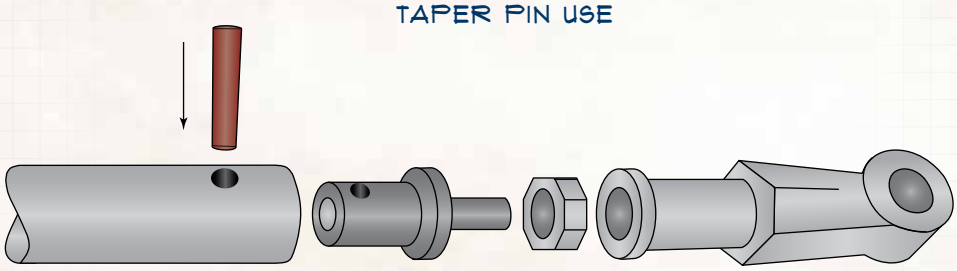
QUICK REFERENCE GUIDE

Taper pins are a highly precise locating pin. The taper causes constant contact through the length of the pin as well as the entire cross section creating exceptional holding power. It also allows for a repeatable firm seat and exact location when reinserted after disassembly.

	COMMON NAMES	APPLICABLE STANDARDS	FABRICATION	HOW TO IDENTIFY	COMMON USES	COMMENTS
TAPER	Taper Pin	ASME B18.8.2*, MS 24692, AN 386, DIN 1, DIN 7977 (external thread); DIN 7978 (internal thread) *Not applicable to Standard Taper Pins sizes #11 – #14	Turning, thread rolling (if threaded)	Nominal diameter × nominal length; The nominal diameter of imperial pins is called out by a number used to signify the dimension.	Low torque positioning and locking. Often found on printing presses and other large mechanical assemblies. Mostly used in original equipment.	The diameter of imperial pins is measured at the large end. Metric pins are measured at the small end.

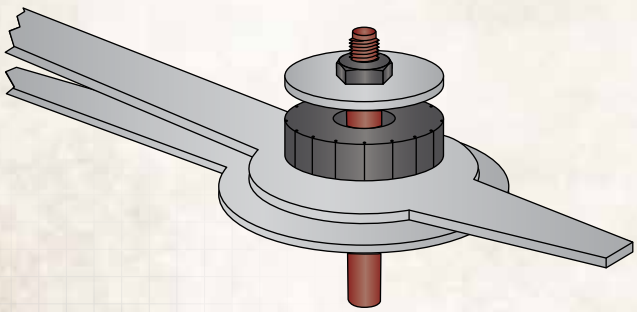
APPLICATIONS

TAPER PIN USE



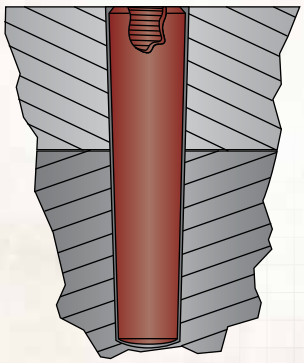
TAPER PINS ARE USED TO ALIGN AND HOLD ASSEMBLY COMPONENTS TOGETHER

EXTERNAL THREADED TAPER PIN USE



EXTERNAL THREADED TAPER PINS ARE USED TO HOLD A CLOCK HAND MECHANISM TOGETHER

INTERNAL THREADED TAPER PIN USE



INTERNAL THREADED TAPER PINS ARE USED IN APPLICATIONS WHERE A FLUSH SURFACE IS DESIRED

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ASME B18.8.2 STANDARD – IMPERIAL

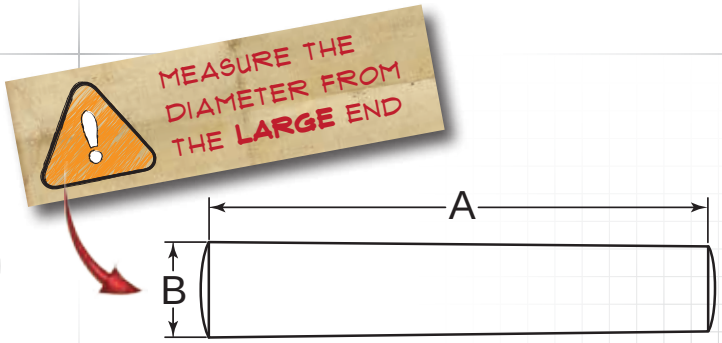
DESCRIPTION

Solid cylindrical pin that has a uniform taper (1/4" per 12") that runs the entire length of the pin. Taper pins are held in place by dry friction making them easy to install and cost effective.

HOW TO IDENTIFY

1. Verify solid pin with uniform taper (1:48).
2. Measure large end diameter (B).
3. Measure the length (A).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

TP	=	CARBON STEEL, PLAIN*
TPS	=	STAINLESS STEEL, PLAIN
TPS16	=	316 STAINLESS STEEL, PLAIN

Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

#7/0 Pin Number

(B) Outside Diameter: .063" (1/16) +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-70-0250	.250" (1/4)
PREFIX-70-0375	.375" (3/8)
PREFIX-70-0500	.500" (1/2)
PREFIX-70-0625	.625" (5/8)
PREFIX-70-0750	.750" (3/4)
PREFIX-70-0875	.875" (7/8)
PREFIX-70-1000	1.000" (1)
PREFIX-70-1250	1.250" (1-1/4)
PREFIX-70-1500	1.500" (1-1/2)

#6/0 Pin Number

(B) Outside Diameter: .078" (5/64) +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-60-0250	.250" (1/4)
PREFIX-60-0375	.375" (3/8)
PREFIX-60-0500	.500" (1/2)
PREFIX-60-0625	.625" (5/8)
PREFIX-60-0750	.750" (3/4)
PREFIX-60-0875	.875" (7/8)
PREFIX-60-1000	1.000" (1)
PREFIX-60-1250	1.250" (1-1/4)
PREFIX-60-1500	1.500" (1-1/2)

#5/0 Pin Number

(B) Outside Diameter: .094" (3/32) +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-50-0250	.250" (1/4)
PREFIX-50-0375	.375" (3/8)
PREFIX-50-0437	.438" (7/16)
PREFIX-50-0500	.500" (1/2)
PREFIX-50-0562	.563" (9/16)
PREFIX-50-0625	.625" (5/8)
PREFIX-50-0750	.750" (3/4)
PREFIX-50-0875	.875" (7/8)
PREFIX-50-1000	1.000" (1)
PREFIX-50-1250	1.250" (1-1/4)
PREFIX-50-1500	1.500" (1-1/2)
PREFIX-50-2500	2.500" (2-1/2)

#4/0 Pin Number

(B) Outside Diameter: .109" (7/64) +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-40-0250	.250" (1/4)
PREFIX-40-0375	.375" (3/8)
PREFIX-40-0500	.500" (1/2)
PREFIX-40-0562	.563" (9/16)
PREFIX-40-0625	.625" (5/8)
PREFIX-40-0750	.750" (3/4)
PREFIX-40-0875	.875" (7/8)
PREFIX-40-1000	1.000" (1)
PREFIX-40-1250	1.250" (1-1/4)
PREFIX-40-1500	1.500" (1-1/2)
PREFIX-40-1750	1.750" (1-3/4)
PREFIX-40-2000	2.000" (2)
PREFIX-40-2250	2.250" (2-1/4)
PREFIX-40-2500	2.500" (2-1/2)
PREFIX-40-2750	2.750" (2-3/4)
PREFIX-40-3000	3.000" (3)

#3/0 Pin Number

(B) Outside Diameter: .125" (1/8) +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-30-0250	.250" (1/4)
PREFIX-30-0375	.375" (3/8)
PREFIX-30-0500	.500" (1/2)
PREFIX-30-0625	.625" (5/8)
PREFIX-30-0750	.750" (3/4)
PREFIX-30-0875	.875" (7/8)
PREFIX-30-1000	1.000" (1)
PREFIX-30-1250	1.250" (1-1/4)
PREFIX-30-1500	1.500" (1-1/2)

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

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STANDARD – IMPERIAL

ASME B18.8.2

#3/0 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .125" (1/8) +.001/-.001"	
PREFIX-30-1750	1.750" (1-3/4)
PREFIX-30-2000	2.000" (2)
PREFIX-30-2250	2.250" (2-1/4)
PREFIX-30-2500	2.500" (2-1/2)
PREFIX-30-2750	2.750" (2-3/4)
PREFIX-30-3000	3.000" (3)
PREFIX-30-3250	3.250" (3-1/4)

#2/0 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .141" (9/64) +.001/-.001"	
PREFIX-20-0500	.500" (1/2)
PREFIX-20-0625	.625" (5/8)
PREFIX-20-0750	.750" (3/4)
PREFIX-20-0875	.875" (7/8)
PREFIX-20-1000	1.000" (1)
PREFIX-20-1125	1.125" (1-1/8)
PREFIX-20-1250	1.250" (1-1/4)
PREFIX-20-1500	1.500" (1-1/2)
PREFIX-20-1750	1.750" (1-3/4)
PREFIX-20-2000	2.000" (2)
PREFIX-20-2250	2.250" (2-1/4)
PREFIX-20-2500	2.500" (2-1/2)
PREFIX-20-2750	2.750" (2-3/4)
PREFIX-20-3000	3.000" (3)
PREFIX-20-3250	3.250" (3-1/4)
PREFIX-20-3500	3.500" (3-1/2)
PREFIX-20-3750	3.750" (3-3/4)
PREFIX-20-4000	4.000" (4)

#0 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .156" (5/32) +.001/-.001"	
PREFIX-00-0500	.500" (1/2)
PREFIX-00-0625	.625" (5/8)
PREFIX-00-0750	.750" (3/4)
PREFIX-00-0875	.875" (7/8)
PREFIX-00-1000	1.000" (1)
PREFIX-00-1250	1.250" (1-1/4)
PREFIX-00-1500	1.500" (1-1/2)
PREFIX-00-1750	1.750" (1-3/4)
PREFIX-00-2000	2.000" (2)
PREFIX-00-2250	2.250" (2-1/4)
PREFIX-00-2500	2.500" (2-1/2)
PREFIX-00-2750	2.750" (2-3/4)
PREFIX-00-3000	3.000" (3)
PREFIX-00-3250	3.250" (3-1/4)
PREFIX-00-3500	3.500" (3-1/2)
PREFIX-00-3750	3.750" (3-3/4)
PREFIX-00-4000	4.000" (4)

#1 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .172" (11/64) +.001/-.001"	
PREFIX-01-0750	.750" (3/4)
PREFIX-01-0875	.875" (7/8)
PREFIX-01-1000	1.000" (1)
PREFIX-01-1250	1.250" (1-1/4)
PREFIX-01-1375	1.375" (1-3/8)
PREFIX-01-1500	1.500" (1-1/2)
PREFIX-01-1750	1.750" (1-3/4)
PREFIX-01-2000	2.000" (2)
PREFIX-01-2250	2.250" (2-1/4)
PREFIX-01-2500	2.500" (2-1/2)
PREFIX-01-2750	2.750" (2-3/4)
PREFIX-01-3000	3.000" (3)
PREFIX-01-3250	3.250" (3-1/4)
PREFIX-01-3500	3.500" (3-1/2)
PREFIX-01-3750	3.750" (3-3/4)
PREFIX-01-4000	4.000" (4)

#2 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .193" +.001/-.001"	
PREFIX-02-0750	.750" (3/4)
PREFIX-02-0875	.875" (7/8)
PREFIX-02-1000	1.000" (1)
PREFIX-02-1250	1.250" (1-1/4)
PREFIX-02-1500	1.500" (1-1/2)
PREFIX-02-1750	1.750" (1-3/4)
PREFIX-02-2000	2.000" (2)
PREFIX-02-2250	2.250" (2-1/4)
PREFIX-02-2500	2.500" (2-1/2)
PREFIX-02-2750	2.750" (2-3/4)
PREFIX-02-3000	3.000" (3)
PREFIX-02-3250	3.250" (3-1/4)
PREFIX-02-3500	3.500" (3-1/2)
PREFIX-02-3750	3.750" (3-3/4)
PREFIX-02-4000	4.000" (4)
PREFIX-02-6000	6.000" (6)

#3 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .219" (7/32) +.001/-.001"	
PREFIX-03-0750	.750" (3/4)
PREFIX-03-0875	.875" (7/8)
PREFIX-03-1000	1.000" (1)
PREFIX-03-1250	1.250" (1-1/4)
PREFIX-03-1500	1.500" (1-1/2)
PREFIX-03-1750	1.750" (1-3/4)
PREFIX-03-2000	2.000" (2)
PREFIX-03-2250	2.250" (2-1/4)
PREFIX-03-2500	2.500" (2-1/2)
PREFIX-03-2750	2.750" (2-3/4)
PREFIX-03-3000	3.000" (3)
PREFIX-03-3250	3.250" (3-1/4)
PREFIX-03-3500	3.500" (3-1/2)
PREFIX-03-3750	3.750" (3-3/4)
PREFIX-03-4000	4.000" (4)
PREFIX-03-4250	4.250" (4-1/4)
PREFIX-03-4500	4.500" (4-1/2)
PREFIX-03-4750	4.750" (4-3/4)
PREFIX-03-5000	5.000" (5)
PREFIX-03-6000	6.000" (6)

#4 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .250" (1/4) +.001/-.001"	
PREFIX-04-0750	.750" (3/4)
PREFIX-04-0875	.875" (7/8)
PREFIX-04-1000	1.000" (1)
PREFIX-04-1250	1.250" (1-1/4)
PREFIX-04-1500	1.500" (1-1/2)
PREFIX-04-1750	1.750" (1-3/4)
PREFIX-04-2000	2.000" (2)
PREFIX-04-2250	2.250" (2-1/4)
PREFIX-04-2500	2.500" (2-1/2)
PREFIX-04-2750	2.750" (2-3/4)
PREFIX-04-3000	3.000" (3)
PREFIX-04-3250	3.250" (3-1/4)
PREFIX-04-3500	3.500" (3-1/2)
PREFIX-04-3750	3.750" (3-3/4)
PREFIX-04-4000	4.000" (4)
PREFIX-04-4250	4.250" (4-1/4)
PREFIX-04-4500	4.500" (4-1/2)
PREFIX-04-4750	4.750" (4-3/4)
PREFIX-04-5000	5.000" (5)
PREFIX-04-5250	5.250" (5-1/4)
PREFIX-04-5500	5.500" (5-1/2)
PREFIX-04-5750	5.750" (5-3/4)
PREFIX-04-6000	6.000" (6)

#5 Pin Number

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
(B) Outside Diameter: .289" +.001/-.001"	
PREFIX-05-0750	.750" (3/4)
PREFIX-05-0875	.875" (7/8)
PREFIX-05-1000	1.000" (1)
PREFIX-05-1250	1.250" (1-1/4)
PREFIX-05-1500	1.500" (1-1/2)
PREFIX-05-1750	1.750" (1-3/4)
PREFIX-05-2000	2.000" (2)
PREFIX-05-2250	2.250" (2-1/4)
PREFIX-05-2500	2.500" (2-1/2)
PREFIX-05-2750	2.750" (2-3/4)

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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

ASME B18.8.2 STANDARD – IMPERIAL

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-05-2875	2.875" (2-7/8)
PREFIX-05-3000	3.000" (3)
PREFIX-05-3250	3.250" (3-1/4)
PREFIX-05-3500	3.500" (3-1/2)
PREFIX-05-3750	3.750" (3-3/4)
PREFIX-05-4000	4.000" (4)
PREFIX-05-4250	4.250" (4-1/4)
PREFIX-05-4500	4.500" (4-1/2)
PREFIX-05-4750	4.750" (4-3/4)
PREFIX-05-5000	5.000" (5)
PREFIX-05-5250	5.250" (5-1/4)
PREFIX-05-5500	5.500" (5-1/2)
PREFIX-05-5750	5.750" (5-3/4)
PREFIX-05-6000	6.000" (6)
PREFIX-05-6500	6.500" (6-1/2)
PREFIX-05-7000	7.000" (7)

#6 Pin Number

(B) Outside Diameter: .341" +.001/-.001"	
PREFIX-06-0500	.500" (1/2)
PREFIX-06-0750	.750" (3/4)
PREFIX-06-1000	1.000" (1)
PREFIX-06-1250	1.250" (1-1/4)
PREFIX-06-1500	1.500" (1-1/2)
PREFIX-06-1750	1.750" (1-3/4)
PREFIX-06-2000	2.000" (2)
PREFIX-06-2250	2.250" (2-1/4)
PREFIX-06-2500	2.500" (2-1/2)
PREFIX-06-2750	2.750" (2-3/4)
PREFIX-06-2875	2.875" (2-7/8)
PREFIX-06-3000	3.000" (3)
PREFIX-06-3250	3.250" (3-1/4)
PREFIX-06-3500	3.500" (3-1/2)
PREFIX-06-3750	3.750" (3-3/4)
PREFIX-06-4000	4.000" (4)
PREFIX-06-4250	4.250" (4-1/4)
PREFIX-06-4500	4.500" (4-1/2)
PREFIX-06-4750	4.750" (4-3/4)
PREFIX-06-5000	5.000" (5)
PREFIX-06-5250	5.250" (5-1/4)
PREFIX-06-5500	5.500" (5-1/2)
PREFIX-06-5750	5.750" (5-3/4)
PREFIX-06-6000	6.000" (6)
PREFIX-06-6250	6.250" (6-1/4)
PREFIX-06-6500	6.500" (6-1/2)
PREFIX-06-6750	6.750" (6-3/4)
PREFIX-06-7000	7.000" (7)

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"

#7 Pin Number

(B) Outside Diameter: .409" +.001/-.001"	
PREFIX-07-1000	1.000" (1)
PREFIX-07-1250	1.250" (1-1/4)
PREFIX-07-1500	1.500" (1-1/2)
PREFIX-07-1750	1.750" (1-3/4)
PREFIX-07-2000	2.000" (2)
PREFIX-07-2250	2.250" (2-1/4)
PREFIX-07-2500	2.500" (2-1/2)
PREFIX-07-2750	2.750" (2-3/4)
PREFIX-07-3000	3.000" (3)
PREFIX-07-3250	3.250" (3-1/4)
PREFIX-07-3500	3.500" (3-1/2)
PREFIX-07-3750	3.750" (3-3/4)
PREFIX-07-4000	4.000" (4)
PREFIX-07-4250	4.250" (4-1/4)
PREFIX-07-4500	4.500" (4-1/2)
PREFIX-07-4750	4.750" (4-3/4)
PREFIX-07-5000	5.000" (5)
PREFIX-07-5250	5.250" (5-1/4)
PREFIX-07-5500	5.500" (5-1/2)
PREFIX-07-5750	5.750" (5-3/4)
PREFIX-07-6000	6.000" (6)
PREFIX-07-6250	6.250" (6-1/4)
PREFIX-07-6500	6.500" (6-1/2)
PREFIX-07-6750	6.750" (6-3/4)
PREFIX-07-7000	7.000" (7)

#8 Pin Number

(B) Outside Diameter: .492" +.001/-.001"	
PREFIX-08-1000	1.000" (1)
PREFIX-08-1250	1.250" (1-1/4)
PREFIX-08-1500	1.500" (1-1/2)
PREFIX-08-1750	1.750" (1-3/4)
PREFIX-08-2000	2.000" (2)
PREFIX-08-2250	2.250" (2-1/4)
PREFIX-08-2500	2.500" (2-1/2)
PREFIX-08-2750	2.750" (2-3/4)
PREFIX-08-3000	3.000" (3)
PREFIX-08-3250	3.250" (3-1/4)
PREFIX-08-3500	3.500" (3-1/2)
PREFIX-08-3750	3.750" (3-3/4)
PREFIX-08-4000	4.000" (4)
PREFIX-08-4250	4.250" (4-1/4)
PREFIX-08-4500	4.500" (4-1/2)
PREFIX-08-4750	4.750" (4-3/4)
PREFIX-08-5000	5.000" (5)
PREFIX-08-5250	5.250" (5-1/4)
PREFIX-08-5500	5.500" (5-1/2)
PREFIX-08-5750	5.750" (5-3/4)

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-08-6000	6.000" (6)
PREFIX-08-6250	6.250" (6-1/4)
PREFIX-08-6500	6.500" (6-1/2)
PREFIX-08-6750	6.750" (6-3/4)
PREFIX-08-7000	7.000" (7)
PREFIX-08-8000	8.000" (8)
PREFIX-08-9000	8.000" (8)
PREFIX-08-10000	10.000" (10)

#9 Pin Number

(B) Outside Diameter: .591" +.001/-.001"	
PREFIX-09-1000	1.000" (1)
PREFIX-09-1250	1.250" (1-1/4)
PREFIX-09-1500	1.500" (1-1/2)
PREFIX-09-1750	1.750" (1-3/4)
PREFIX-09-2000	2.000" (2)
PREFIX-09-2250	2.250" (2-1/4)
PREFIX-09-2500	2.500" (2-1/2)
PREFIX-09-2750	2.750" (2-3/4)
PREFIX-09-3000	3.000" (3)
PREFIX-09-3250	3.250" (3-1/4)
PREFIX-09-3500	3.500" (3-1/2)
PREFIX-09-3750	3.750" (3-3/4)
PREFIX-09-4000	4.000" (4)
PREFIX-09-4250	4.250" (4-1/4)
PREFIX-09-4500	4.500" (4-1/2)
PREFIX-09-4750	4.750" (4-3/4)
PREFIX-09-5000	5.000" (5)
PREFIX-09-5250	5.250" (5-1/4)
PREFIX-09-5500	5.500" (5-1/2)
PREFIX-09-5750	5.750" (5-3/4)
PREFIX-09-6000	6.000" (6)
PREFIX-09-6250	6.250" (6-1/4)
PREFIX-09-6500	6.500" (6-1/2)
PREFIX-09-6750	6.750" (6-3/4)
PREFIX-09-7000	7.000" (7)

#10 Pin Number

(B) Outside Diameter: .706" +.001/-.001"	
PREFIX-10-1000	1.000" (1)
PREFIX-10-1250	1.250" (1-1/4)
PREFIX-10-1500	1.500" (1-1/2)
PREFIX-10-1750	1.750" (1-3/4)
PREFIX-10-2000	2.000" (2)
PREFIX-10-2250	2.250" (2-1/4)
PREFIX-10-2500	2.500" (2-1/2)
PREFIX-10-2750	2.750" (2-3/4)
PREFIX-10-3000	3.000" (3)
PREFIX-10-3250	3.250" (3-1/4)
PREFIX-10-3500	3.500" (3-1/2)
PREFIX-10-3750	3.750" (3-3/4)

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STANDARD – IMPERIAL

ASME B18.8.2

#10 Pin Number

(B) Outside Diameter: .706" +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-10-4000	4.000" (4)
PREFIX-10-4250	4.250" (4-1/4)
PREFIX-10-4500	4.500" (4-1/2)
PREFIX-10-4750	4.750" (4-3/4)
PREFIX-10-5000	5.000" (5)
PREFIX-10-5250	5.250" (5-1/4)
PREFIX-10-5500	5.500" (5-1/2)
PREFIX-10-5750	5.750" (5-3/4)
PREFIX-10-6000	6.000" (6)
PREFIX-10-6250	6.250" (6-1/4)
PREFIX-10-6500	6.500" (6-1/2)
PREFIX-10-6750	6.750" (6-3/4)
PREFIX-10-7000	7.000" (7)
PREFIX-10-7500	7.500" (7-1/2)
PREFIX-10-8000	8.000" (8)
PREFIX-10-9000	9.000" (9)
PREFIX-10-10000	10.000" (10)

#11* Pin Number

(B) Outside Diameter: .860" +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-11-1000	1.000" (1)
PREFIX-11-1250	1.250" (1-1/4)
PREFIX-11-1500	1.500" (1-1/2)
PREFIX-11-1750	1.750" (1-3/4)
PREFIX-11-2000	2.000" (2)
PREFIX-11-2250	2.250" (2-1/4)
PREFIX-11-2500	2.500" (2-1/2)
PREFIX-11-2750	2.750" (2-3/4)
PREFIX-11-3000	3.000" (3)
PREFIX-11-3250	3.250" (3-1/4)
PREFIX-11-3500	3.500" (3-1/2)
PREFIX-11-3750	3.750" (3-3/4)
PREFIX-11-4000	4.000" (4)
PREFIX-11-4250	4.250" (4-1/4)
PREFIX-11-4500	4.500" (4-1/2)
PREFIX-11-4750	4.750" (4-3/4)
PREFIX-11-5000	5.000" (5)
PREFIX-11-5250	5.250" (5-1/4)
PREFIX-11-5500	5.500" (5-1/2)
PREFIX-11-5750	5.750" (5-3/4)
PREFIX-11-6000	6.000" (6)
PREFIX-11-6500	6.500" (6-1/2)
PREFIX-11-7000	7.000" (7)
PREFIX-11-7500	7.500" (7-1/2)
PREFIX-11-8000	8.000" (8)
PREFIX-11-9000	9.000" (9)
PREFIX-11-10000	10.000" (10)
PREFIX-11-11000	11.000" (11)
PREFIX-11-12000	12.000" (12)

#12* Pin Number

(B) Outside Diameter: 1.032" +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-12-1000	1.000" (1)
PREFIX-12-1250	1.250" (1-1/4)
PREFIX-12-1500	1.500" (1-1/2)
PREFIX-12-1750	1.750" (1-3/4)
PREFIX-12-2000	2.000" (2)
PREFIX-12-2250	2.250" (2-1/4)
PREFIX-12-2500	2.500" (2-1/2)
PREFIX-12-2750	2.750" (2-3/4)
PREFIX-12-3000	3.000" (3)
PREFIX-12-3250	3.250" (3-1/4)
PREFIX-12-3500	3.500" (3-1/2)
PREFIX-12-3750	3.750" (3-3/4)
PREFIX-12-4000	4.000" (4)
PREFIX-12-4250	4.250" (4-1/4)
PREFIX-12-4500	4.500" (4-1/2)
PREFIX-12-4750	4.750" (4-3/4)
PREFIX-12-5000	5.000" (5)
PREFIX-12-5250	5.250" (5-1/4)
PREFIX-12-5500	5.500" (5-1/2)
PREFIX-12-5750	5.750" (5-3/4)
PREFIX-12-6000	6.000" (6)
PREFIX-12-6500	6.500" (6-1/2)
PREFIX-12-7000	7.000" (7)
PREFIX-12-7500	7.500" (7-1/2)
PREFIX-12-8000	8.000" (8)
PREFIX-12-9000	9.000" (9)
PREFIX-12-10000	10.000" (10)
PREFIX-12-11000	11.000" (11)
PREFIX-12-12000	12.000" (12)

#13* Pin Number

(B) Outside Diameter: 1.241" +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-13-1000	1.000" (1)
PREFIX-13-1250	1.250" (1-1/4)
PREFIX-13-1500	1.500" (1-1/2)
PREFIX-13-1750	1.750" (1-3/4)
PREFIX-13-2000	2.000" (2)
PREFIX-13-2250	2.250" (2-1/4)
PREFIX-13-2500	2.500" (2-1/2)
PREFIX-13-2750	2.750" (2-3/4)
PREFIX-13-3000	3.000" (3)
PREFIX-13-3250	3.250" (3-1/4)
PREFIX-13-3500	3.500" (3-1/2)
PREFIX-13-3750	3.750" (3-3/4)
PREFIX-13-4000	4.000" (4)
PREFIX-13-4250	4.250" (4-1/4)
PREFIX-13-4500	4.500" (4-1/2)
PREFIX-13-4750	4.750" (4-3/4)
PREFIX-13-5000	5.000" (5)
PREFIX-13-5250	5.250" (5-1/4)
PREFIX-13-5500	5.500" (5-1/2)
PREFIX-13-5750	5.750" (5-3/4)
PREFIX-13-6000	6.000" (6)
PREFIX-13-6500	6.500" (6-1/2)
PREFIX-13-7000	7.000" (7)
PREFIX-13-7500	7.500" (7-1/2)
PREFIX-13-8000	8.000" (8)
PREFIX-13-9000	9.000" (9)
PREFIX-13-9750	9.750" (9-3/4)
PREFIX-13-10000	10.000" (10)
PREFIX-13-11000	11.000" (11)
PREFIX-13-12000	12.000" (12)

#14* Pin Number

(B) Outside Diameter: 1.523" +.001/-.001"

ITEM NUMBER	(A) OVERALL LENGTH +.010/-.010"
PREFIX-14-1000	1.000" (1)
PREFIX-14-1250	1.250" (1-1/4)
PREFIX-14-1500	1.500" (1-1/2)
PREFIX-14-1750	1.750" (1-3/4)
PREFIX-14-2000	2.000" (2)
PREFIX-14-2250	2.250" (2-1/4)
PREFIX-14-2500	2.500" (2-1/2)
PREFIX-14-2750	2.750" (2-3/4)
PREFIX-14-3000	3.000" (3)
PREFIX-14-3250	3.250" (3-1/4)
PREFIX-14-3500	3.500" (3-1/2)
PREFIX-14-3750	3.750" (3-3/4)
PREFIX-14-4000	4.000" (4)
PREFIX-14-4250	4.250" (4-1/4)
PREFIX-14-4500	4.500" (4-1/2)
PREFIX-14-4750	4.750" (4-3/4)
PREFIX-14-5000	5.000" (5)
PREFIX-14-5250	5.250" (5-1/4)
PREFIX-14-5500	5.500" (5-1/2)
PREFIX-14-5750	5.750" (5-3/4)
PREFIX-14-6000	6.000" (6)
PREFIX-14-6500	6.500" (6-1/2)
PREFIX-14-7000	7.000" (7)
PREFIX-14-7500	7.500" (7-1/2)
PREFIX-14-8000	8.000" (8)
PREFIX-14-9000	9.000" (9)
PREFIX-14-10000	10.000" (10)
PREFIX-14-11000	11.000" (11)
PREFIX-14-12000	12.000" (12)

* ASME B18.8.2 not applicable to Standard Taper Pins sizes #11 – #14

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DIN 1 STANDARD – METRIC

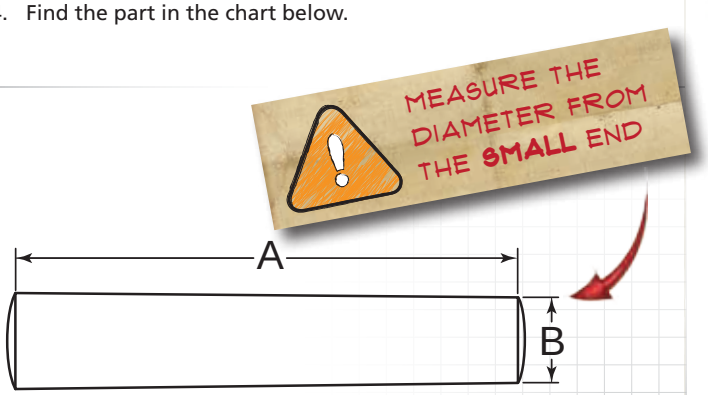
DESCRIPTION

Solid cylindrical pin that has a uniform taper (1 mm per 50 mm) that runs the entire length of the pin. Taper pins are held in place by dry friction making them easy to install and cost effective.

HOW TO IDENTIFY

1. Verify solid pin with uniform taper (1:50).
2. Measure small end diameter (B).
3. Measure the length (A).
4. Find the part in the chart below.





PREFIX MATERIAL/FINISH

TPM = CARBON STEEL, PLAIN*
TPMS = AI STAINLESS STEEL, PLAIN
Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

1.00 mm
(B) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-010-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-010-012	12.00 mm
PREFIX-010-014	14.00 mm
PREFIX-010-016	16.00 mm
	+0.50/-0.50 mm
PREFIX-010-032	32.00 mm
PREFIX-010-036	36.00 mm

1.50 mm
(B) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-015-006	6.00 mm
PREFIX-015-008	8.00 mm
PREFIX-015-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-015-012	12.00 mm
PREFIX-015-014	14.00 mm
PREFIX-015-016	16.00 mm
PREFIX-015-018	18.00 mm
	+0.42/-0.42 mm
PREFIX-015-020	20.00 mm
PREFIX-015-022	22.00 mm
PREFIX-015-024	24.00 mm
PREFIX-015-025	25.00 mm
PREFIX-015-026	26.00 mm
PREFIX-015-028	28.00 mm
PREFIX-015-030	30.00 mm

2.00 mm
(B) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-020-006	6.00 mm
PREFIX-020-008	8.00 mm
PREFIX-020-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-020-012	12.00 mm
PREFIX-020-014	14.00 mm
PREFIX-020-016	16.00 mm
PREFIX-020-018	18.00 mm
	+0.42/-0.42 mm
PREFIX-020-020	20.00 mm
PREFIX-020-022	22.00 mm
PREFIX-020-024	24.00 mm
PREFIX-020-025	25.00 mm
PREFIX-020-026	26.00 mm
PREFIX-020-028	28.00 mm
PREFIX-020-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-020-032	32.00 mm
PREFIX-020-036	36.00 mm
PREFIX-020-040	40.00 mm
PREFIX-020-045	45.00 mm
PREFIX-020-050	50.00 mm

2.50 mm
(B) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-025-006	6.00 mm
PREFIX-025-008	8.00 mm
PREFIX-025-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-025-012	12.00 mm
PREFIX-025-014	14.00 mm
PREFIX-025-016	16.00 mm
PREFIX-025-018	18.00 mm

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STANDARD – METRIC

DIN 1

2.50 mm
(B) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.42/-0.42 mm
PREFIX-025-020	20.00 mm
PREFIX-025-022	22.00 mm
PREFIX-025-024	24.00 mm
PREFIX-025-025	25.00 mm
PREFIX-025-026	26.00 mm
PREFIX-025-028	28.00 mm
PREFIX-025-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-025-032	32.00 mm
PREFIX-025-035	35.00 mm
PREFIX-025-036	36.00 mm
PREFIX-025-040	40.00 mm
PREFIX-025-045	45.00 mm
PREFIX-025-050	50.00 mm

3.00 mm
(B) Outside Diameter: +0.000/-0.040 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-030-006	6.00 mm
PREFIX-030-008	8.00 mm
PREFIX-030-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-030-012	12.00 mm
PREFIX-030-014	14.00 mm
PREFIX-030-016	16.00 mm
PREFIX-030-018	18.00 mm
	+0.42/-0.42 mm
PREFIX-030-020	20.00 mm
PREFIX-030-022	22.00 mm
PREFIX-030-024	24.00 mm
PREFIX-030-025	25.00 mm
PREFIX-030-026	26.00 mm
PREFIX-030-028	28.00 mm
PREFIX-030-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-030-032	32.00 mm
PREFIX-030-035	35.00 mm
PREFIX-030-036	36.00 mm
PREFIX-030-040	40.00 mm
PREFIX-030-045	45.00 mm
PREFIX-030-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-030-055	55.00 mm
PREFIX-030-060	60.00 mm
PREFIX-030-065	65.00 mm
PREFIX-030-070	70.00 mm
PREFIX-030-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-030-090	90.00 mm
PREFIX-030-100	100.00 mm

4.00 mm
(B) Outside Diameter: +0.000/-0.048 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-040-006	6.00 mm
PREFIX-040-008	8.00 mm
PREFIX-040-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-040-012	12.00 mm
PREFIX-040-014	14.00 mm
PREFIX-040-016	16.00 mm
PREFIX-040-018	18.00 mm
	+0.42/-0.42 mm
PREFIX-040-020	20.00 mm
PREFIX-040-022	22.00 mm
PREFIX-040-024	24.00 mm
PREFIX-040-025	25.00 mm
PREFIX-040-026	26.00 mm
PREFIX-040-028	28.00 mm
PREFIX-040-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-040-032	32.00 mm
PREFIX-040-035	35.00 mm
PREFIX-040-036	36.00 mm
PREFIX-040-040	40.00 mm
PREFIX-040-045	45.00 mm
PREFIX-040-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-040-055	55.00 mm
PREFIX-040-060	60.00 mm
PREFIX-040-065	65.00 mm
PREFIX-040-070	70.00 mm
PREFIX-040-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-040-090	90.00 mm
PREFIX-040-100	100.00 mm

5.00 mm
(B) Outside Diameter: +0.000/-0.048 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-050-008	8.00 mm
PREFIX-050-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-050-012	12.00 mm
PREFIX-050-014	14.00 mm
PREFIX-050-016	16.00 mm
PREFIX-050-018	18.00 mm
	+0.42/-0.42 mm
PREFIX-050-020	20.00 mm
PREFIX-050-022	22.00 mm
PREFIX-050-024	24.00 mm
PREFIX-050-025	25.00 mm
PREFIX-050-026	26.00 mm
PREFIX-050-028	28.00 mm
PREFIX-050-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-050-032	32.00 mm
PREFIX-050-035	35.00 mm
PREFIX-050-036	36.00 mm
PREFIX-050-040	40.00 mm
PREFIX-050-045	45.00 mm
PREFIX-050-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-050-055	55.00 mm
PREFIX-050-060	60.00 mm
PREFIX-050-065	65.00 mm
PREFIX-050-070	70.00 mm
PREFIX-050-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-050-090	90.00 mm
PREFIX-050-100	100.00 mm

6.00 mm
(B) Outside Diameter: +0.000/-0.048 mm

ITEM NUMBER	(A) OVERALL LENGTH
	+0.29/-0.29 mm
PREFIX-060-010	10.00 mm
	+0.35/-0.35 mm
PREFIX-060-012	12.00 mm
PREFIX-060-014	14.00 mm
PREFIX-060-016	16.00 mm
PREFIX-060-018	18.00 mm
	+0.42/-0.42 mm
PREFIX-060-020	20.00 mm
PREFIX-060-022	22.00 mm
PREFIX-060-024	24.00 mm
PREFIX-060-025	25.00 mm
PREFIX-060-026	26.00 mm
PREFIX-060-028	28.00 mm
PREFIX-060-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-060-032	32.00 mm
PREFIX-060-035	35.00 mm
PREFIX-060-036	36.00 mm
PREFIX-060-040	40.00 mm
PREFIX-060-045	45.00 mm
PREFIX-060-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-060-055	55.00 mm
PREFIX-060-060	60.00 mm
PREFIX-060-065	65.00 mm
PREFIX-060-070	70.00 mm
PREFIX-060-080	80.00 mm

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DIN 1 STANDARD – METRIC

ITEM NUMBER	(A) OVERALL LENGTH
	+0.70/-0.70 mm
PREFIX-060-090	90.00 mm
PREFIX-060-100	100.00 mm
PREFIX-060-110	110.00 mm
PREFIX-060-120	120.00 mm

8.00 mm
(B) Outside Diameter: +0.000/-0.058 mm

	+0.35/-0.35 mm
PREFIX-080-016	16.00 mm
	+0.42/-0.42 mm
PREFIX-080-020	20.00 mm
PREFIX-080-022	22.00 mm
PREFIX-080-024	24.00 mm
PREFIX-080-025	25.00 mm
PREFIX-080-026	26.00 mm
PREFIX-080-028	28.00 mm
PREFIX-080-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-080-032	32.00 mm
PREFIX-080-035	35.00 mm
PREFIX-080-036	36.00 mm
PREFIX-080-040	40.00 mm
PREFIX-080-045	45.00 mm
PREFIX-080-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-080-055	55.00 mm
PREFIX-080-060	60.00 mm
PREFIX-080-065	65.00 mm
PREFIX-080-070	70.00 mm
PREFIX-080-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-080-090	90.00 mm
PREFIX-080-100	100.00 mm
PREFIX-080-110	110.00 mm
PREFIX-080-120	120.00 mm

10.00 mm
(B) Outside Diameter: +0.000/-0.058 mm

	+0.42/-0.42 mm
PREFIX-100-020	20.00 mm
PREFIX-100-025	25.00 mm
PREFIX-100-028	28.00 mm
PREFIX-100-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-100-032	32.00 mm
PREFIX-100-035	35.00 mm
PREFIX-100-036	36.00 mm
PREFIX-100-040	40.00 mm
PREFIX-100-045	45.00 mm
PREFIX-100-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-100-055	55.00 mm
PREFIX-100-060	60.00 mm
PREFIX-100-065	65.00 mm
PREFIX-100-070	70.00 mm
PREFIX-100-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-100-090	90.00 mm
PREFIX-100-100	100.00 mm
PREFIX-100-110	110.00 mm
PREFIX-100-120	120.00 mm
	+0.80/-0.80 mm
PREFIX-100-140	140.00 mm

12.00 mm
(B) Outside Diameter: +0.000/-0.070 mm

	+0.42/-0.42 mm
PREFIX-120-030	30.00 mm
	+0.50/-0.50 mm
PREFIX-120-032	32.00 mm
PREFIX-120-036	36.00 mm
PREFIX-120-040	40.00 mm
PREFIX-120-045	45.00 mm
PREFIX-120-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-120-055	55.00 mm
PREFIX-120-060	60.00 mm
PREFIX-120-065	65.00 mm
PREFIX-120-070	70.00 mm
PREFIX-120-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-120-090	90.00 mm
PREFIX-120-100	100.00 mm
PREFIX-120-110	110.00 mm
PREFIX-120-120	120.00 mm
	+0.80/-0.80 mm
PREFIX-120-140	140.00 mm
PREFIX-120-160	160.00 mm

14.00 mm
(B) Outside Diameter: +0.000/-0.070 mm

	+0.50/-0.50 mm
PREFIX-140-036	36.00 mm
PREFIX-140-040	40.00 mm
PREFIX-140-045	45.00 mm
PREFIX-140-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-140-055	55.00 mm
PREFIX-140-060	60.00 mm
PREFIX-140-065	65.00 mm
PREFIX-140-070	70.00 mm
PREFIX-140-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-140-090	90.00 mm
PREFIX-140-100	100.00 mm
PREFIX-140-110	110.00 mm
PREFIX-140-120	120.00 mm
	+0.80/-0.80 mm
PREFIX-140-130	130.00 mm
PREFIX-140-140	140.00 mm
PREFIX-140-150	150.00 mm

16.00 mm
(B) Outside Diameter: +0.000/-0.070 mm

	+0.50/-0.50 mm
PREFIX-160-036	36.00 mm
PREFIX-160-040	40.00 mm
PREFIX-160-045	45.00 mm
PREFIX-160-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-160-055	55.00 mm
PREFIX-160-060	60.00 mm
PREFIX-160-065	65.00 mm
PREFIX-160-070	70.00 mm
PREFIX-160-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-160-090	90.00 mm
PREFIX-160-100	100.00 mm
PREFIX-160-110	110.00 mm
PREFIX-160-120	120.00 mm
	+0.80/-0.80 mm
PREFIX-160-130	130.00 mm
PREFIX-160-140	140.00 mm
PREFIX-160-150	150.00 mm
PREFIX-160-160	160.00 mm

20.00 mm
(B) Outside Diameter: +0.000/-0.084 mm

	+0.50/-0.50 mm
PREFIX-200-040	40.00 mm
PREFIX-200-045	45.00 mm
PREFIX-200-050	50.00 mm
	+0.60/-0.60 mm
PREFIX-200-055	55.00 mm
PREFIX-200-060	60.00 mm
PREFIX-200-065	65.00 mm
PREFIX-200-070	70.00 mm
PREFIX-200-080	80.00 mm
	+0.70/-0.70 mm
PREFIX-200-090	90.00 mm
PREFIX-200-100	100.00 mm
PREFIX-200-110	110.00 mm
PREFIX-200-120	120.00 mm
	+0.80/-0.80 mm
PREFIX-200-130	130.00 mm
PREFIX-200-140	140.00 mm
PREFIX-200-150	150.00 mm

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EXTERNAL THREAD – IMPERIAL

DESCRIPTION

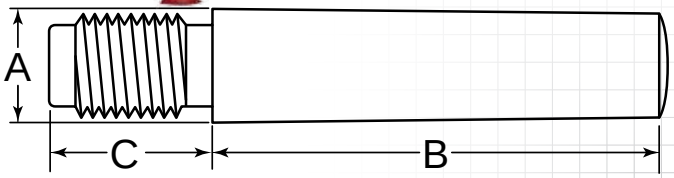
Solid cylindrical pin that has a uniform taper (1/4" per 12") that runs the entire length of the pin and is threaded at the large end. These reusable pins work well in blind holes and can be removed by tightening a hex nut on the thread.

HOW TO IDENTIFY

1. Verify solid tapered (1:48) pin with threaded end.
2. Measure large end diameter (A).
3. Measure the effective length (B).
4. Find the part in the chart below.



MEASURE THE DIAMETER FROM THE **LARGE** END



PREFIX MATERIAL/FINISH

TPT	=	CARBON STEEL, PLAIN*
TPTN	=	CARBON STEEL, PLAIN, HEX NUT INCLUDED
TPTS	=	300 SERIES STAINLESS STEEL, PLAIN
TPTSN	=	300 SERIES STAINLESS STEEL, PLAIN, HEX NUT INCLUDED

UNF thread type on all versions. Material/finish combinations may not be available in all sizes.

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

#0

Pin Number
(A) Outside Diameter: .154" +.001/-.001"

(C) Head Length: .219" (7/32) +.010/-.010"
Thread Size: #6
Thread Pitch: 32
Hex nut included with TPTN & TPTSN: HXN-0632

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-00-0750	.750" (3/4)
PREFIX-00-1000	1.000" (1)
PREFIX-00-1250	1.250" (1-1/4)
PREFIX-00-1500	1.500" (1-1/2)
PREFIX-00-1750	1.750" (1-3/4)
PREFIX-00-2000	2.000" (2)
PREFIX-00-2250	2.250" (2-1/4)
PREFIX-00-2500	2.500" (2-1/2)
PREFIX-00-2750	2.750" (2-3/4)
PREFIX-00-3000	3.000" (3)

#1

Pin Number
(A) Outside Diameter: .170" +.001/-.001"

(C) Head Length: .250" (1/4) +.010/-.010"
Thread Size: #8
Thread Pitch: 32
Hex nut included with TPTN & TPTSN: HXN-0832

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-01-0750	.750" (3/4)
PREFIX-01-1000	1.000" (1)
PREFIX-01-1250	1.250" (1-1/4)
PREFIX-01-1500	1.500" (1-1/2)
PREFIX-01-1750	1.750" (1-3/4)
PREFIX-01-2000	2.000" (2)
PREFIX-01-2250	2.250" (2-1/4)
PREFIX-01-2500	2.500" (2-1/2)
PREFIX-01-2750	2.750" (2-3/4)
PREFIX-01-3000	3.000" (3)

#2

Pin Number
(A) Outside Diameter: .191" +.001/-.001"

(C) Head Length: .250" (1/4) +.010/-.010"
Thread Size: #10
Thread Pitch: 32
Hex nut included with TPTN & TPTSN: HXN-1032

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-02-0750	.750" (3/4)
PREFIX-02-1000	1.000" (1)
PREFIX-02-1250	1.250" (1-1/4)
PREFIX-02-1500	1.500" (1-1/2)
PREFIX-02-1750	1.750" (1-3/4)
PREFIX-02-2000	2.000" (2)
PREFIX-02-2250	2.250" (2-1/4)
PREFIX-02-2500	2.500" (2-1/2)
PREFIX-02-2750	2.750" (2-3/4)
PREFIX-02-3000	3.000" (3)
PREFIX-02-3250	3.250" (3-1/4)
PREFIX-02-3500	3.500" (3-1/2)
PREFIX-02-3750	3.750" (3-3/4)
PREFIX-02-4000	4.000" (4)
PREFIX-02-4250	4.250" (4-1/4)
PREFIX-02-4500	4.500" (4-1/2)

TO ORDER, REPLACE PREFIX WITH YOUR CHOICE:

TPT • TPTN
TPTS • TPTSN

IN STOCK ORDERS SHIP NEXT BUSINESS DAY

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EXTERNAL THREAD – IMPERIAL

#3

Pin Number
(A) Outside Diameter: .217" +.001/-.001"

(C) Head Length: .250" (1/4) +.010/-.010"
Thread Size: #10
Thread Pitch: 32
Hex nut included with TPTN & TPTSN: HXN-1032

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-03-0750	.750" (3/4)
PREFIX-03-1000	1.000" (1)
PREFIX-03-1250	1.250" (1-1/4)
PREFIX-03-1500	1.500" (1-1/2)
PREFIX-03-1750	1.750" (1-3/4)
PREFIX-03-2000	2.000" (2)
PREFIX-03-2250	2.250" (2-1/4)
PREFIX-03-2500	2.500" (2-1/2)
PREFIX-03-2750	2.750" (2-3/4)
PREFIX-03-3000	3.000" (3)
PREFIX-03-3250	3.250" (3-1/4)
PREFIX-03-3500	3.500" (3-1/2)
PREFIX-03-3750	3.750" (3-3/4)
PREFIX-03-4000	4.000" (4)
PREFIX-03-4250	4.250" (4-1/4)
PREFIX-03-4500	4.500" (4-1/2)
PREFIX-03-4750	4.750" (4-3/4)
PREFIX-03-5000	5.000" (5)
PREFIX-03-5250	5.250" (5-1/4)
PREFIX-03-5500	5.500" (5-1/2)
PREFIX-03-5750	5.750" (5-3/4)
PREFIX-03-6000	6.000" (6)

#4

Pin Number
(A) Outside Diameter: .248" +.001/-.001"

(C) Head Length: .406" (13/32) +.010/-.010"
Thread Size: 1/4"
Thread Pitch: 28
Hex nut included with TPTN & TPTSN: HXN-025028

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-04-0750	.750" (3/4)
PREFIX-04-1000	1.000" (1)
PREFIX-04-1250	1.250" (1-1/4)
PREFIX-04-1500	1.500" (1-1/2)
PREFIX-04-1750	1.750" (1-3/4)
PREFIX-04-2000	2.000" (2)
PREFIX-04-2250	2.250" (2-1/4)
PREFIX-04-2500	2.500" (2-1/2)
PREFIX-04-2750	2.750" (2-3/4)
PREFIX-04-3000	3.000" (3)
PREFIX-04-3250	3.250" (3-1/4)
PREFIX-04-3500	3.500" (3-1/2)
PREFIX-04-3750	3.750" (3-3/4)
PREFIX-04-4000	4.000" (4)
PREFIX-04-4250	4.250" (4-1/4)
PREFIX-04-4500	4.500" (4-1/2)
PREFIX-04-4750	4.750" (4-3/4)
PREFIX-04-5000	5.000" (5)
PREFIX-04-5250	5.250" (5-1/4)
PREFIX-04-5500	5.500" (5-1/2)
PREFIX-04-5750	5.750" (5-3/4)
PREFIX-04-6000	6.000" (6)

#5

Pin Number
(A) Outside Diameter: .287" +.001/-.001"

(C) Head Length: .406" (13/32) +.010/-.010"
Thread Size: 1/4"
Thread Pitch: 28
Hex nut included with TPTN & TPTSN: HXN-025028

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-05-0750	.750" (3/4)
PREFIX-05-1000	1.000" (1)
PREFIX-05-1250	1.250" (1-1/4)
PREFIX-05-1500	1.500" (1-1/2)
PREFIX-05-1750	1.750" (1-3/4)
PREFIX-05-2000	2.000" (2)
PREFIX-05-2250	2.250" (2-1/4)
PREFIX-05-2500	2.500" (2-1/2)
PREFIX-05-2750	2.750" (2-3/4)
PREFIX-05-3000	3.000" (3)
PREFIX-05-3250	3.250" (3-1/4)
PREFIX-05-3500	3.500" (3-1/2)
PREFIX-05-3750	3.750" (3-3/4)
PREFIX-05-4000	4.000" (4)
PREFIX-05-4250	4.250" (4-1/4)
PREFIX-05-4500	4.500" (4-1/2)
PREFIX-05-4750	4.750" (4-3/4)
PREFIX-05-5000	5.000" (5)
PREFIX-05-5250	5.250" (5-1/4)
PREFIX-05-5500	5.500" (5-1/2)
PREFIX-05-5750	5.750" (5-3/4)
PREFIX-05-6000	6.000" (6)

#6

Pin Number
(A) Outside Diameter: .339" +.001/-.001"

(C) Head Length: .469" (15/32) +.010/-.010"
Thread Size: 5/16"
Thread Pitch: 24
Hex nut included with TPTN & TPTSN: HXN-031224

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-06-0750	.750" (3/4)
PREFIX-06-1000	1.000" (1)
PREFIX-06-1250	1.250" (1-1/4)
PREFIX-06-1500	1.500" (1-1/2)
PREFIX-06-1750	1.750" (1-3/4)
PREFIX-06-2000	2.000" (2)
PREFIX-06-2250	2.250" (2-1/4)
PREFIX-06-2500	2.500" (2-1/2)
PREFIX-06-2750	2.750" (2-3/4)
PREFIX-06-3000	3.000" (3)
PREFIX-06-3250	3.250" (3-1/4)
PREFIX-06-3500	3.500" (3-1/2)
PREFIX-06-3750	3.750" (3-3/4)
PREFIX-06-4000	4.000" (4)
PREFIX-06-4250	4.250" (4-1/4)
PREFIX-06-4500	4.500" (4-1/2)
PREFIX-06-4750	4.750" (4-3/4)
PREFIX-06-5000	5.000" (5)
PREFIX-06-5250	5.250" (5-1/4)
PREFIX-06-5500	5.500" (5-1/2)
PREFIX-06-5750	5.750" (5-3/4)
PREFIX-06-6000	6.000" (6)

#7

Pin Number
(A) Outside Diameter: .407" +.001/-.001"

(C) Head Length: .563" (9/16) +.010/-.010"
Thread Size: 3/8"
Thread Pitch: 24
Hex nut included with TPTN & TPTSN: HXN-037524

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-07-1000	1.000" (1)
PREFIX-07-1250	1.250" (1-1/4)
PREFIX-07-1500	1.500" (1-1/2)
PREFIX-07-1750	1.750" (1-3/4)
PREFIX-07-2000	2.000" (2)
PREFIX-07-2250	2.250" (2-1/4)
PREFIX-07-2500	2.500" (2-1/2)
PREFIX-07-2750	2.750" (2-3/4)
PREFIX-07-3000	3.000" (3)
PREFIX-07-3250	3.250" (3-1/4)
PREFIX-07-3500	3.500" (3-1/2)
PREFIX-07-3750	3.750" (3-3/4)
PREFIX-07-4000	4.000" (4)
PREFIX-07-4250	4.250" (4-1/4)
PREFIX-07-4500	4.500" (4-1/2)
PREFIX-07-4750	4.750" (4-3/4)
PREFIX-07-5000	5.000" (5)
PREFIX-07-5250	5.250" (5-1/4)
PREFIX-07-5500	5.500" (5-1/2)
PREFIX-07-5750	5.750" (5-3/4)
PREFIX-07-6000	6.000" (6)

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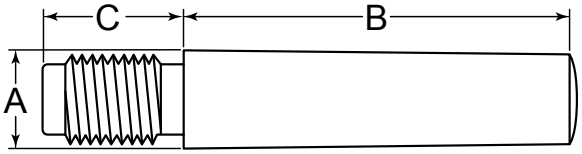
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EXTERNAL THREAD – IMPERIAL

PREFIX		MATERIAL/FINISH
TPT	=	CARBON STEEL, PLAIN*
TPTS	=	300 SERIES STAINLESS STEEL, PLAIN
TPTN	=	CARBON STEEL, PLAIN WITH HEX NUT
TPTSN	=	300 SERIES STAINLESS STEEL, PLAIN WITH HEX NUT

UNF thread type on all versions. Material/finish combinations may not be available in all sizes.



#8

Pin Number
(A) Outside Diameter: .490" +.001/-.001"

(C) Head Length: .688" (11/16) +.010/-.010"
Thread Size: 7/16"
Thread Pitch: 20
Hex nut included with TPTN & TPTSN: HXN-043720

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-08-1000	1.000" (1)
PREFIX-08-1250	1.250" (1-1/4)
PREFIX-08-1500	1.500" (1-1/2)
PREFIX-08-1750	1.750" (1-3/4)
PREFIX-08-2000	2.000" (2)
PREFIX-08-2250	2.250" (2-1/4)
PREFIX-08-2500	2.500" (2-1/2)
PREFIX-08-2750	2.750" (2-3/4)
PREFIX-08-3000	3.000" (3)
PREFIX-08-3250	3.250" (3-1/4)
PREFIX-08-3500	3.500" (3-1/2)
PREFIX-08-3750	3.750" (3-3/4)
PREFIX-08-4000	4.000" (4)
PREFIX-08-4250	4.250" (4-1/4)
PREFIX-08-4500	4.500" (4-1/2)
PREFIX-08-4750	4.750" (4-3/4)
PREFIX-08-5000	5.000" (5)
PREFIX-08-5250	5.250" (5-1/4)
PREFIX-08-5500	5.500" (5-1/2)
PREFIX-08-5750	5.750" (5-3/4)
PREFIX-08-6000	6.000" (6)
PREFIX-08-6250	6.250" (6-1/4)
PREFIX-08-6500	6.500" (6-1/2)
PREFIX-08-6750	6.750" (6-3/4)
PREFIX-08-7000	7.000" (7)

#9

Pin Number
(A) Outside Diameter: .589" +.001/-.001"

(C) Head Length: .750" (3/4) +.010/-.010"
Thread Size: 1/2"
Thread Pitch: 20
Hex nut included with TPTN & TPTSN: HXN-050020

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-09-1000	1.000" (1)
PREFIX-09-1250	1.250" (1-1/4)
PREFIX-09-1500	1.500" (1-1/2)
PREFIX-09-1750	1.750" (1-3/4)
PREFIX-09-2000	2.000" (2)
PREFIX-09-2250	2.250" (2-1/4)
PREFIX-09-2500	2.500" (2-1/2)
PREFIX-09-2750	2.750" (2-3/4)
PREFIX-09-3000	3.000" (3)
PREFIX-09-3250	3.250" (3-1/4)
PREFIX-09-3500	3.500" (3-1/2)
PREFIX-09-3750	3.750" (3-3/4)
PREFIX-09-4000	4.000" (4)
PREFIX-09-4250	4.250" (4-1/4)
PREFIX-09-4500	4.500" (4-1/2)
PREFIX-09-4750	4.750" (4-3/4)
PREFIX-09-5000	5.000" (5)
PREFIX-09-5250	5.250" (5-1/4)
PREFIX-09-5500	5.500" (5-1/2)
PREFIX-09-5750	5.750" (5-3/4)
PREFIX-09-6000	6.000" (6)
PREFIX-09-6250	6.250" (6-1/4)
PREFIX-09-6500	6.500" (6-1/2)
PREFIX-09-6750	6.750" (6-3/4)
PREFIX-09-7000	7.000" (7)

#10

Pin Number
(A) Outside Diameter: .704" +.001/-.001"

(C) Head Length: .938" (15/16) +.010/-.010"
Thread Size: 5/8"
Thread Pitch: 18
Hex nut included with TPTN & TPTSN: HXN-062518

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-10-1000	1.000" (1)
PREFIX-10-1250	1.250" (1-1/4)
PREFIX-10-1500	1.500" (1-1/2)
PREFIX-10-1750	1.750" (1-3/4)
PREFIX-10-2000	2.000" (2)
PREFIX-10-2250	2.250" (2-1/4)
PREFIX-10-2500	2.500" (2-1/2)
PREFIX-10-2750	2.750" (2-3/4)
PREFIX-10-3000	3.000" (3)
PREFIX-10-3250	3.250" (3-1/4)
PREFIX-10-3500	3.500" (3-1/2)
PREFIX-10-3750	3.750" (3-3/4)
PREFIX-10-4000	4.000" (4)
PREFIX-10-4250	4.250" (4-1/4)
PREFIX-10-4500	4.500" (4-1/2)
PREFIX-10-4750	4.750" (4-3/4)
PREFIX-10-5000	5.000" (5)
PREFIX-10-5250	5.250" (5-1/4)
PREFIX-10-5500	5.500" (5-1/2)
PREFIX-10-5750	5.750" (5-3/4)
PREFIX-10-6000	6.000" (6)
PREFIX-10-6250	6.250" (6-1/4)
PREFIX-10-6500	6.500" (6-1/2)
PREFIX-10-6750	6.750" (6-3/4)
PREFIX-10-7000	7.000" (7)

#11

Pin Number
(A) Outside Diameter: .858" +.001/-.001"

(C) Head Length: 1.125" (1-1/8) +.010/-.010"
Thread Size: 3/4"
Thread Pitch: 16
Hex nut included with TPTN & TPTSN: HXN-075016

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"
PREFIX-11-1000	1.000" (1)
PREFIX-11-1250	1.250" (1-1/4)
PREFIX-11-1500	1.500" (1-1/2)
PREFIX-11-1750	1.750" (1-3/4)
PREFIX-11-2000	2.000" (2)
PREFIX-11-2250	2.250" (2-1/4)
PREFIX-11-2500	2.500" (2-1/2)
PREFIX-11-2750	2.750" (2-3/4)
PREFIX-11-3000	3.000" (3)
PREFIX-11-3250	3.250" (3-1/4)
PREFIX-11-3500	3.500" (3-1/2)
PREFIX-11-3750	3.750" (3-3/4)
PREFIX-11-4000	4.000" (4)
PREFIX-11-4250	4.250" (4-1/4)
PREFIX-11-4500	4.500" (4-1/2)
PREFIX-11-4750	4.750" (4-3/4)
PREFIX-11-5000	5.000" (5)
PREFIX-11-5250	5.250" (5-1/4)
PREFIX-11-5500	5.500" (5-1/2)
PREFIX-11-5750	5.750" (5-3/4)
PREFIX-11-6000	6.000" (6)
PREFIX-11-6500	6.500" (6-1/2)
PREFIX-11-7000	7.000" (7)
PREFIX-11-7500	7.500" (7-1/2)
PREFIX-11-8000	8.000" (8)
PREFIX-11-9000	9.000" (9)
PREFIX-11-10000	11.000" (11)

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EXTERNAL THREAD – IMPERIAL

ITEM NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"

#12
Pin Number
(A) Outside Diameter: 1.030" +.001/-.001"

(C) Head Length: 1.281" (1-9/32) +.010/-.010"
Thread Size: 7/8"
Thread Pitch: 14
Hex nut included with TPTN & TPTSN: HXN-087514

PREFIX-12-1000	1.000" (1)
PREFIX-12-1250	1.250" (1-1/4)
PREFIX-12-1500	1.500" (1-1/2)
PREFIX-12-1750	1.750" (1-3/4)
PREFIX-12-2000	2.000" (2)
PREFIX-12-2250	2.250" (2-1/4)
PREFIX-12-2500	2.500" (2-1/2)
PREFIX-12-2750	2.750" (2-3/4)
PREFIX-12-3000	3.000" (3)
PREFIX-12-3250	3.250" (3-1/4)
PREFIX-12-3500	3.500" (3-1/2)
PREFIX-12-3750	3.750" (3-3/4)
PREFIX-12-4000	4.000" (4)
PREFIX-12-4250	4.250" (4-1/4)
PREFIX-12-4500	4.500" (4-1/2)
PREFIX-12-4750	4.750" (4-3/4)
PREFIX-12-5000	5.000" (5)
PREFIX-12-5250	5.250" (5-1/4)
PREFIX-12-5500	5.500" (5-1/2)
PREFIX-12-5750	5.750" (5-3/4)
PREFIX-12-6000	6.000" (6)
PREFIX-12-6500	6.500" (6-1/2)
PREFIX-12-7000	7.000" (7)
PREFIX-12-7500	7.500" (7-1/2)
PREFIX-12-8000	8.000" (8)
PREFIX-12-9000	9.000" (9)
PREFIX-12-10000	10.000" (10)

#13
Pin Number
(A) Outside Diameter: 1.239" +.001/-.001"

(C) Head Length: 1.281" (1-9/32) +.010/-.010"
Thread Size: 7/8"
Thread Pitch: 14
Hex nut included with TPTN & TPTSN: HXN-087514

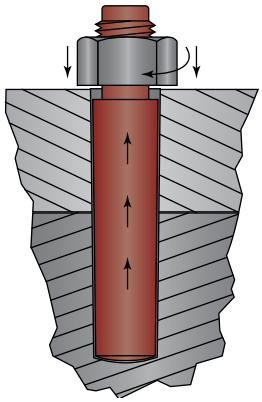
PREFIX-13-1000	1.000" (1)
PREFIX-13-1250	1.250" (1-1/4)
PREFIX-13-1500	1.500" (1-1/2)
PREFIX-13-1750	1.750" (1-3/4)
PREFIX-13-2000	2.000" (2)
PREFIX-13-2250	2.250" (2-1/4)
PREFIX-13-2500	2.500" (2-1/2)
PREFIX-13-2750	2.750" (2-3/4)
PREFIX-13-3000	3.000" (3)
PREFIX-13-3250	3.250" (3-1/4)
PREFIX-13-3500	3.500" (3-1/2)
PREFIX-13-3750	3.750" (3-3/4)
PREFIX-13-4000	4.000" (4)
PREFIX-13-4250	4.250" (4-1/4)
PREFIX-13-4500	4.500" (4-1/2)
PREFIX-13-4750	4.750" (4-3/4)
PREFIX-13-5000	5.000" (5)
PREFIX-13-5250	5.250" (5-1/4)
PREFIX-13-5500	5.500" (5-1/2)
PREFIX-13-5750	5.750" (5-3/4)
PREFIX-13-6000	6.000" (6)
PREFIX-13-6500	6.500" (6-1/2)
PREFIX-13-7000	7.000" (7)
PREFIX-13-7500	7.500" (7-1/2)
PREFIX-13-8000	8.000" (8)
PREFIX-13-9000	9.000" (9)
PREFIX-13-10000	10.000" (10)

#14
Pin Number
(A) Outside Diameter: 1.521" +.001/-.001"

(C) Head Length: 1.438" (1-7/16) +.010/-.010"
Thread Size: 1-1/8"
Thread Pitch: 12
Hex nut included with TPTN & TPTSN: HXN-112512

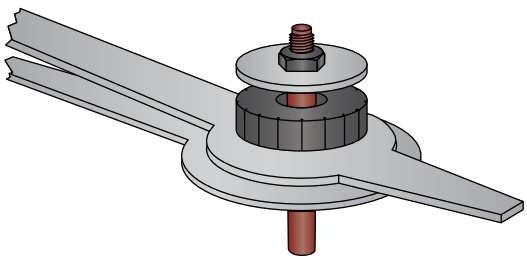
PREFIX-14-1000	1.000" (1)
PREFIX-14-1250	1.250" (1-1/4)
PREFIX-14-1500	1.500" (1-1/2)
PREFIX-14-1750	1.750" (1-3/4)
PREFIX-14-2000	2.000" (2)
PREFIX-14-2250	2.250" (2-1/4)
PREFIX-14-2500	2.500" (2-1/2)
PREFIX-14-2750	2.750" (2-3/4)
PREFIX-14-3000	3.000" (3)
PREFIX-14-3250	3.250" (3-1/4)
PREFIX-14-3500	3.500" (3-1/2)
PREFIX-14-3750	3.750" (3-3/4)
PREFIX-14-4000	4.000" (4)
PREFIX-14-4250	4.250" (4-1/4)
PREFIX-14-4500	4.500" (4-1/2)
PREFIX-14-4750	4.750" (4-3/4)
PREFIX-14-5000	5.000" (5)
PREFIX-14-5250	5.250" (5-1/4)
PREFIX-14-5500	5.500" (5-1/2)
PREFIX-14-5750	5.750" (5-3/4)
PREFIX-14-6000	6.000" (6)
PREFIX-14-6500	6.500" (6-1/2)
PREFIX-14-7000	7.000" (7)
PREFIX-14-7500	7.500" (7-1/2)
PREFIX-14-8000	8.000" (8)
PREFIX-14-9000	9.000" (9)
PREFIX-14-10000	10.000" (10)

APPLICATIONS



USED IN BLIND HOLES WHERE IT IS NOT POSSIBLE TO REMOVE THE TAPER PIN BY DRIVING IT OUT FROM THE SMALL END

REMOVAL IS ACHIEVED BY SCREWING A NUT DOWN ONTO THE THREADS PULLING THE TAPER PIN OUT



USED TO HOLD A CLOCK HAND MECHANISM TOGETHER

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EXTERNAL THREAD – METRIC

DIN 7977

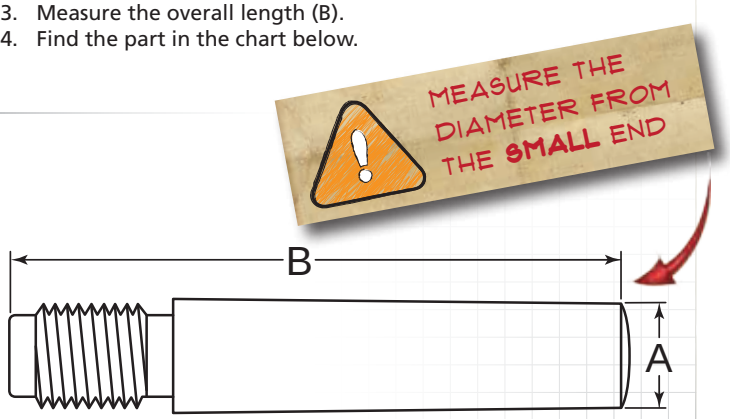
DESCRIPTION

Solid cylindrical pin that has a uniform taper (1 mm per 50 mm) that runs the entire length of the pin and is threaded at the large end. These reusable pins work well in blind holes and can be removed by tightening a hex nut on the thread.

HOW TO IDENTIFY

1. Verify solid tapered (1:50) pin with threaded end.
2. Measure small end diameter (A).
3. Measure the overall length (B).
4. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
TPTME	=	CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

5.00 mm
(A) Outside Diameter: +0.02/-0.05 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
TPTME-050-040	40.00 mm
TPTME-050-045	45.00 mm
TPTME-050-050	50.00 mm
	+0.60/-0.60 mm
TPTME-050-055	55.00 mm
TPTME-050-060	60.00 mm

6.00 mm
(A) Outside Diameter: +0.02/-0.05 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
TPTME-060-040	40.00 mm
TPTME-060-045	45.00 mm
TPTME-060-050	50.00 mm
	+0.60/-0.60 mm
TPTME-060-055	55.00 mm
TPTME-060-060	60.00 mm
TPTME-060-065	65.00 mm
TPTME-060-070	70.00 mm
TPTME-060-075	75.00 mm
TPTME-060-080	80.00 mm
TPTME-060-085	85.00 mm

8.00 mm
(A) Outside Diameter: +0.02/-0.05 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
TPTME-080-040	40.00 mm
TPTME-080-045	45.00 mm
TPTME-080-050	50.00 mm
	+0.60/-0.60 mm
TPTME-080-055	55.00 mm
TPTME-080-060	60.00 mm
TPTME-080-065	65.00 mm
TPTME-080-070	70.00 mm
TPTME-080-075	75.00 mm
TPTME-080-080	80.00 mm
TPTME-080-085	85.00 mm
	+0.70/-0.70 mm
TPTME-080-100	100.00 mm
TPTME-080-120	120.00 mm

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10.00 mm
(A) Outside Diameter: +0.02/-0.05 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.50/-0.50 mm
TPTME-100-050	50.00 mm
	+0.60/-0.60 mm
TPTME-100-060	60.00 mm
TPTME-100-065	65.00 mm
TPTME-100-070	70.00 mm
TPTME-100-075	75.00 mm
TPTME-100-080	80.00 mm
TPTME-100-085	85.00 mm
	+0.70/-0.70 mm
TPTME-100-100	100.00 mm
TPTME-100-120	120.00 mm

12.00 mm
(A) Outside Diameter: +0.02/-0.05 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+0.60/-0.60 mm
TPTME-120-065	65.00 mm
TPTME-120-075	75.00 mm
TPTME-120-085	85.00 mm

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DIN 7977 EXTERNAL THREAD – METRIC

ITEM NUMBER	(B) OVERALL LENGTH
	+.70/-.70 mm
TPTME-120-100	100.00 mm
TPTME-120-120	120.00 mm
TPTME-120-140	140.00 mm

13.00 mm
(A) Outside Diameter: +.02/-.05 mm

	+.60/-.60 mm
TPTME-130-065	65.00 mm
TPTME-130-075	75.00 mm
TPTME-130-085	85.00 mm
	+.70/-.70 mm
TPTME-130-100	100.00 mm
TPTME-130-120	120.00 mm

ITEM NUMBER	(B) OVERALL LENGTH

14.00 mm
(A) Outside Diameter: +.02/-.05 mm

	+.60/-.60 mm
TPTME-140-075	75.00 mm
TPTME-140-085	85.00 mm
	+.70/-.70 mm
TPTME-140-100	100.00 mm
TPTME-140-110	110.00 mm
TPTME-140-120	120.00 mm

16.00 mm
(A) Outside Diameter: +.02/-.05 mm

	+.60/-.60 mm
TPTME-160-075	75.00 mm
TPTME-160-085	85.00 mm

ITEM NUMBER	(B) OVERALL LENGTH
	+.70/-.70 mm
TPTME-160-100	100.00 mm
TPTME-160-120	120.00 mm
TPTME-160-140	140.00 mm
TPTME-160-160	160.00 mm

20.00 mm
(A) Outside Diameter: +.02/-.05 mm

	+.70/-.70 mm
TPTME-200-100	100.00 mm
TPTME-200-120	120.00 mm
TPTME-200-140	140.00 mm
TPTME-200-160	160.00 mm



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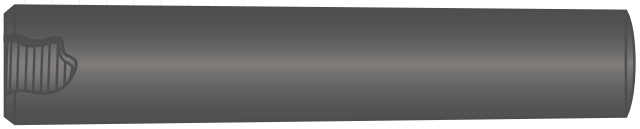
INTERNAL THREAD – IMPERIAL

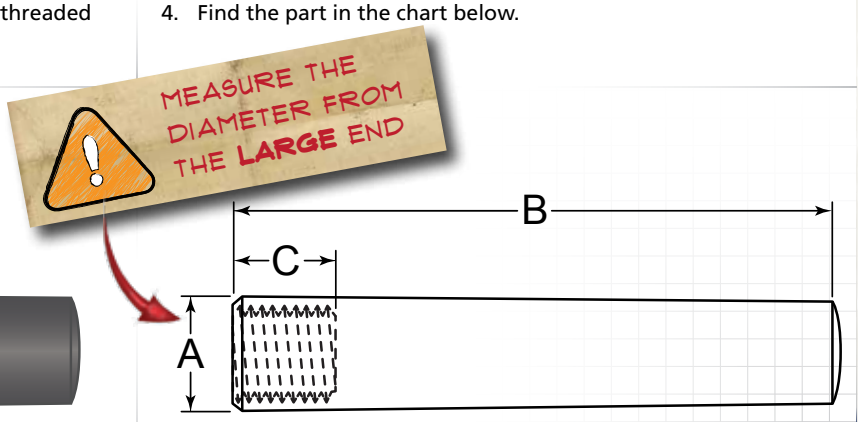
DESCRIPTION

Solid cylindrical pin that has a uniform taper (1/4" per 12") that runs the entire length of the pin with a tapped hole at the large end. The hole assists in removal when used with a bolt or slide hammer. Designed for use in locations where externally threaded pins will not fit or where flush positioning is desirable.

HOW TO IDENTIFY

1. Verify solid tapered (1:48) pin with tapped hole.
2. Measure large end diameter (A).
3. Measure the effective length (B).
4. Find the part in the chart below.





PREFIX — MATERIAL/FINISH

TPTI = CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	PIN NUMBER	(B) EFFECTIVE LENGTH +.010/-.010"	(A) OUTSIDE DIAMETER +.001/-.001"	(C) EFFECTIVE THREAD LENGTH +.010/-.010"	THREAD TYPE	THREAD SIZE	THREAD PITCH
TPTI-04-1000	#4	1.000" (1)	.2503"	.375" (3/8)	UNC	#10	24
TPTI-04-1500	#4	1.500" (1-1/2)	.2503"	.375" (3/8)	UNC	#10	24
TPTI-04-2000	#4	2.000" (2)	.2503"	.375" (3/8)	UNC	#10	24
TPTI-05-2000	#5	2.000" (2)	.2893"	.375" (3/8)	UNC	#10	24
TPTI-06-1000	#6	1.000" (1)	.3413"	.437" (7/16)	UNC	1/4"	20
TPTI-06-1500	#6	1.500" (1-1/2)	.3413"	.437" (7/16)	UNC	1/4"	20
TPTI-06-2000	#6	2.000" (2)	.3413"	.437" (7/16)	UNC	1/4"	20
TPTI-07-1750	#7	1.750" (1-3/4)	.4093"	.500" (1/2)	UNC	5/16"	18
TPTI-08-2000	#8	2.000" (2)	.4923"	.500" (1/2)	UNC	5/16"	18
TPTI-08-2250	#8	2.250" (2-1/4)	.4923"	.500" (1/2)	UNC	5/16"	18
TPTI-08-2500	#8	2.500" (2-1/2)	.4923"	.500" (1/2)	UNC	5/16"	18
TPTI-08-3000	#8	3.000" (3)	.4923"	.500" (1/2)	UNC	5/16"	18
TPTI-08-4000	#8	4.000" (4)	.4923"	.500" (1/2)	UNC	5/16"	18
TPTI-09-3000	#9	3.000" (3)	.5913"	.625" (5/8)	UNC	3/8"	16
TPTI-10-1500	#10	1.500" (1-1/2)	.7063"	.750" (3/4)	UNC	1/2"	13
TPTI-10-2000	#10	2.000" (2)	.7063"	.750" (3/4)	UNC	1/2"	13
TPTI-10-3000	#10	3.000" (3)	.7063"	.750" (3/4)	UNC	1/2"	13
TPTI-10-4000	#10	4.000" (4)	.7063"	.750" (3/4)	UNC	1/2"	13
TPTI-11-3000	#11	3.000" (3)	.8603"	.875" (7/8)	UNC	3/4"	10
TPTI-12-1500	#12	1.500" (1-1/2)	1.0323"	.875" (7/8)	UNC	3/4"	10
TPTI-12-2000	#12	2.000" (2)	1.0323"	.875" (7/8)	UNC	3/4"	10
TPTI-12-3000	#12	3.000" (3)	1.0323"	.875" (7/8)	UNC	3/4"	10

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DIN 7978 INTERNAL THREAD – METRIC

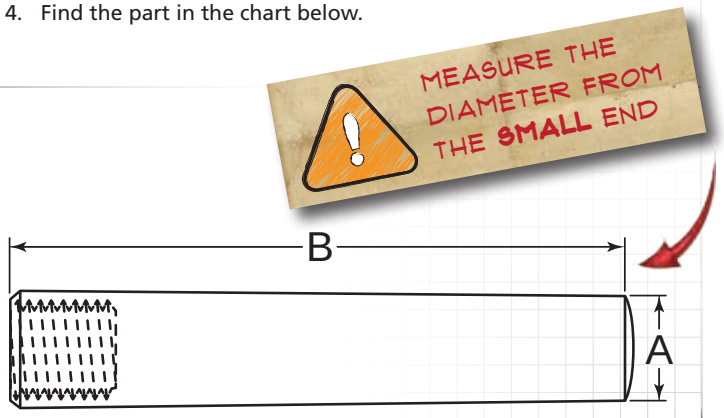
DESCRIPTION

Solid cylindrical pin that has a uniform taper (1 mm per 50 mm) that runs the entire length of the pin with a tapped hole at the large end. The hole assists in removal when used with a bolt. Designed for use in locations where externally threaded pins will not fit or where flush positioning is desirable.

HOW TO IDENTIFY

1. Verify solid tapered (1:50) pin with tapped hole.
2. Measure small end diameter (A).
3. Measure the overall length (B).
4. Find the part in the chart below.





PREFIX		MATERIAL/FINISH
TPTMI	=	CARBON STEEL, PLAIN*

ADDITIONAL SIZES AND FINISHES MAY BE AVAILABLE UPON REQUEST

ITEM NUMBER	(B) OUTSIDE DIAMETER +0.02-0.05 MM	(A) OVERALL LENGTH <100 – +0.05/-0.05 MM >=100 – +0.07/-0.07 MM
TPTMI-100-070	10.00 mm	70.00 mm
TPTMI-100-075	10.00 mm	75.00 mm
TPTMI-100-080	10.00 mm	80.00 mm
TPTMI-100-085	10.00 mm	85.00 mm
TPTMI-100-100	10.00 mm	100.00 mm
TPTMI-100-120	10.00 mm	120.00 mm
TPTMI-120-065	12.00 mm	65.00 mm
TPTMI-120-075	12.00 mm	75.00 mm
TPTMI-120-085	12.00 mm	85.00 mm
TPTMI-120-100	12.00 mm	100.00 mm
TPTMI-120-120	12.00 mm	120.00 mm
TPTMI-120-140	12.00 mm	140.00 mm
TPTMI-130-065	13.00 mm	65.00 mm
TPTMI-130-075	13.00 mm	75.00 mm
TPTMI-130-085	13.00 mm	85.00 mm
TPTMI-130-100	13.00 mm	100.00 mm

ITEM NUMBER	(B) OUTSIDE DIAMETER +0.02-0.05 MM	(A) OVERALL LENGTH <100 – +0.05/-0.05 MM >=100 – +0.07/-0.07 MM
TPTMI-130-120	13.00 mm	120.00 mm
TPTMI-140-075	14.00 mm	75.00 mm
TPTMI-140-085	14.00 mm	85.00 mm
TPTMI-140-100	14.00 mm	100.00 mm
TPTMI-140-110	14.00 mm	110.00 mm
TPTMI-140-120	14.00 mm	120.00 mm
TPTMI-160-075	16.00 mm	75.00 mm
TPTMI-160-085	16.00 mm	85.00 mm
TPTMI-160-100	16.00 mm	100.00 mm
TPTMI-160-120	16.00 mm	120.00 mm
TPTMI-160-140	16.00 mm	140.00 mm
TPTMI-160-160	16.00 mm	160.00 mm
TPTMI-200-100	20.00 mm	100.00 mm
TPTMI-200-120	20.00 mm	120.00 mm
TPTMI-200-140	20.00 mm	140.00 mm
TPTMI-200-160	20.00 mm	160.00 mm

MANUFACTURING CAPABILITIES:



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**Limited warranty for surface finish: 30 days from date of shipment. See page 8 for details.*

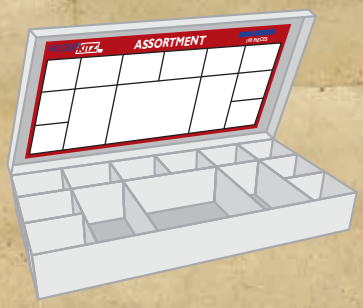
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- Maintenance kits



Standard DISP-TP100

100 Pieces
Carbon Steel, Plain

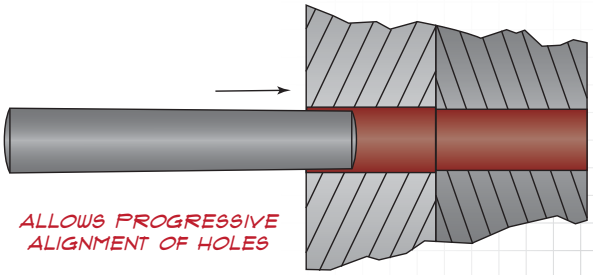
Parts Included	Size	Quantity
TP-00-0750	#0 x 3/4"	5
TP-00-1000	#0 x 1"	5
TP-00-1500	#0 x 1-1/2"	5
TP-00-2000	#0 x 2"	5
TP-01-0750	#1 x 3/4"	4
TP-01-1000	#1 x 1"	4
TP-01-1500	#1 x 1-1/2"	4
TP-01-2000	#1 x 2"	4
TP-02-0750	#2 x 3/4"	4
TP-02-1000	#2 x 1"	4
TP-02-1500	#2 x 1-1/2"	4
TP-02-2000	#2 x 2"	4
TP-03-0750	#3 x 3/4"	4
TP-03-1000	#3 x 1"	4
TP-03-1500	#3 x 1-1/2"	4
TP-03-2000	#3 x 2"	4
TP-04-0750	#4 x 3/4"	4
TP-04-1000	#4 x 1"	4
TP-04-1500	#4 x 1-1/2"	4
TP-04-2000	#4 x 2"	4
TP-05-0750	#5 x 3/4"	4
TP-05-1000	#5 x 1"	4
TP-05-1500	#5 x 1-1/2"	4
TP-05-2000	#5 x 2"	4

Standard DISP-TP200

200 Pieces
Carbon Steel, Plain

Parts Included	Size	Quantity
TP-00-0500	#0 x 1/2"	6
TP-00-1000	#0 x 1"	6
TP-00-1500	#0 x 1-1/2"	6
TP-01-1000	#1 x 1"	5
TP-01-1500	#1 x 1-1/2"	5
TP-01-2000	#1 x 2"	5
TP-02-1000	#2 x 1"	5
TP-02-1500	#2 x 1-1/2"	5
TP-02-2000	#2 x 2"	5
TP-03-1000	#3 x 1"	4
TP-03-1500	#3 x 1-1/2"	4
TP-03-2000	#3 x 2"	4
TP-04-1000	#4 x 1"	4
TP-04-1500	#4 x 1-1/2"	4
TP-04-2000	#4 x 2"	4
TP-05-1000	#5 x 1"	3
TP-05-1500	#5 x 1-1/2"	3
TP-05-2000	#5 x 2"	3
TP-06-1000	#6 x 1"	3
TP-06-1500	#6 x 1-1/2"	3
TP-06-2000	#6 x 2"	3
TP-20-0500	#2/0 x 1/2"	6
TP-20-1000	#2/0 x 1"	6
TP-20-1500	#2/0 x 1-1/2"	6
TP-30-0500	#3/0 x 1/2"	7
TP-30-1000	#3/0 x 1"	7
TP-30-1500	#3/0 x 1-1/2"	7
TP-40-0500	#4/0 x 1/2"	7
TP-40-1000	#4/0 x 1"	7
TP-40-1500	#4/0 x 1-1/2"	7
TP-50-0500	#5/0 x 1/2"	8
TP-50-1000	#5/0 x 1"	8
TP-50-1500	#5/0 x 1-1/2"	8
TP-60-0500	#6/0 x 1/2"	9
TP-60-1000	#6/0 x 1"	9
TP-60-1500	#6/0 x 1-1/2"	8

APPLICATION



ALLOWS PROGRESSIVE ALIGNMENT OF HOLES

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ASSORTMENTS

Metric
DISP-TPM350

355 Pieces
Carbon Steel, Plain

Parts Included	Size	Quantity
TPM-020-010	2 mm x 10 mm	50
TPM-020-012	2 mm x 12 mm	40
TPM-020-014	2 mm x 14 mm	30
TPM-020-020	2 mm x 20 mm	30
TPM-020-030	2 mm x 30 mm	25
TPM-030-014	3 mm x 14 mm	25
TPM-030-020	3 mm x 20 mm	25
TPM-030-024	3 mm x 24 mm	25
TPM-030-030	3 mm x 30 mm	20
TPM-030-040	3 mm x 40 mm	10
TPM-040-020	4 mm x 20 mm	20
TPM-040-030	4 mm x 30 mm	10
TPM-040-040	4 mm x 40 mm	10
TPM-050-020	5 mm x 20 mm	10
TPM-050-030	5 mm x 30 mm	10
TPM-050-040	5 mm x 40 mm	5
TPM-060-030	6 mm x 30 mm	5
TPM-060-040	6 mm x 40 mm	5

Stainless Steel
DISP-TPSS90

90 Pieces
Stainless Steel, Plain

Parts Included	Size	Quantity
TPS-01-1000	#1 x 1"	5
TPS-01-1500	#1 x 1-1/2"	5
TPS-01-2000	#1 x 2"	5
TPS-02-1000	#2 x 1"	5
TPS-02-1500	#2 x 1-1/2"	5
TPS-02-2000	#2 x 2"	5
TPS-03-1000	#3 x 1"	5
TPS-03-1500	#3 x 1-1/2"	5
TPS-03-2000	#3 x 2"	5
TPS-04-1250	#4 x 1-1/4"	5
TPS-04-1750	#4 x 1-3/4"	5
TPS-04-2500	#4 x 2-1/2"	5
TPS-05-2000	#5 x 2"	5
TPS-05-2500	#5 x 2-1/2"	5
TPS-05-3000	#5 x 3"	5
TPS-06-2000	#6 x 2"	3
TPS-06-2500	#6 x 2-1/2"	3
TPS-06-3000	#6 x 3"	3
TPS-07-2500	#7 x 2-1/2"	3
TPS-07-4000	#7 x 4"	3

External Thread
DISP-TPT150

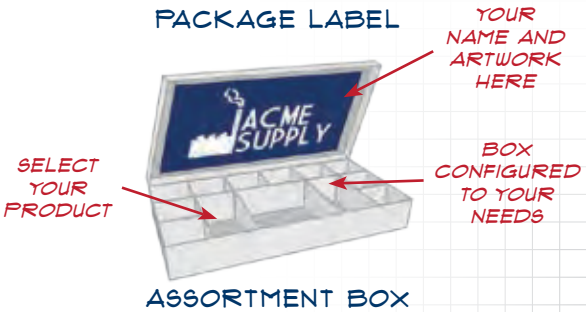
150 Pieces
(includes hex nuts)
Carbon Steel, Plain

Parts Included	Size	Quantity
HXN-025028	1/4"-28	25
HXN-031224	5/16"-24	25
HXN-1032	#10-32	25
TPT-02-1000	#2 x 1"	3
TPT-02-1500	#2 x 1-1/2"	3
TPT-02-2000	#2 x 2"	4
TPT-02-2500	#2 x 2-1/2"	3
TPT-03-1000	#3 x 1"	3
TPT-03-1500	#3 x 1-1/2"	3
TPT-03-2000	#3 x 2"	4
TPT-03-2500	#3 x 2-1/2"	3
TPT-03-3000	#3 x 3"	4
TPT-04-1000	#4 x 1"	3
TPT-04-1500	#4 x 1-1/2"	3
TPT-04-2000	#4 x 2"	4
TPT-04-2500	#4 x 2-1/2"	3
TPT-04-3000	#4 x 3"	5
TPT-05-1500	#5 x 1-1/2"	3
TPT-05-2000	#5 x 2"	3
TPT-05-2500	#5 x 2-1/2"	3
TPT-05-3000	#5 x 3"	4
TPT-06-1500	#6 x 1-1/2"	3
TPT-06-2000	#6 x 2"	3
TPT-06-2500	#6 x 2-1/2"	3
TPT-06-3000	#6 x 3"	5

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Lynch


Positive-Lock


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Snap


Coiled/Slotted Spring


Taper


Tether

RETAINING RINGS


Circlip


Push-On

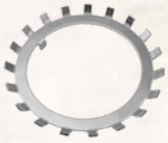

Grip


Internal Snap


External Snap


Interlocking


Bearing Lock Nut


Bearing Lock Washer


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Couplers


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Grease Guns


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Step


Assortments

MACHINE KEYS


Form A


Form AB


Form B


Gib Head


Non-Rok


Woodruff & Hi-Pro

SHIMS

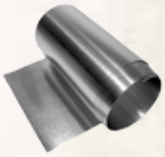

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Shaft Collars


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Thrust

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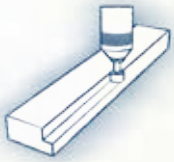
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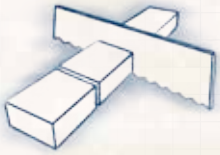
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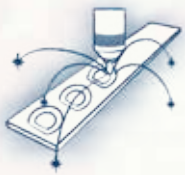
MANUFACTURING CAPABILITIES


Centerless Grinding


Drilling


Milling


Sawing


Laser Cutting

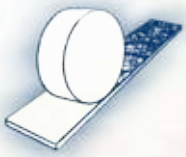

Tumbling



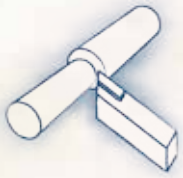
Marking


Stamping


Forming


Surface Grinding


Wire Forming


Turning

CUSTOM SOLUTIONS



Custom Assortments

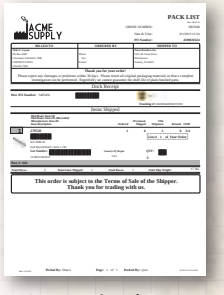


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UNITED STATES

03-02-72
Order No.: 1020455-GLH
Invoice #: 3272

1 Each	#250-18 Woodruff Key Kit	@ $20.00/EA.	$20.00
4 "	#300-12 Snap Ring Kit	17.00/EA.	68.00
1 "	#350-36 LG. Woodruff Key Kit	35.00/EA.	35.00
1 FT.	1-1/2" Sq. Key Stock	9.25/FT.	13.87
1 "	1/4" " " "	.36/FT.	4.60
1 "	1-1/8" Rect. Key Stock	8.50/FT.	8.50
4 x 1"	" " "	6.28/FT.	37.40
5/8" Shafting x 3 FT. Long		1.62/BAR	10.20
3/8" Shafting x 3	" "	1.05/ "	2.10
3/4" " x 3	" "	4.94/ "	24.70
1" " x 3	" "	7.50/ "	15.00
1-7/8" " x 3	" "	9.24/ "	18.48
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			$325.51

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please. (10 days)
THANKS.

Paul—
I have reduced all prices and lowered them by about 8%.
We will apply these prices per ft.
2 inch or Plain in any length
up to 12 ft.
Bob









Dolly
Here is the nickel
I owe you
[illegible]

G. L. HUYETT
Contact Information
Phone No.: 785.392.3017
Fax No.: 785.392.2845
Website: WWW.HUYETT.COM



Born Out of the Old Tin Shed

The Old Tin Shed houses the story of G.L. Huyett. According to newspaper accounts, a German immigrant named Guy Huyett bought the hardware stock of the Globe Department Store in 1899 and moved it to a location on Main Street in Minneapolis, Kansas. He incorporated the business in 1906, the date that we trace to our founding, over 100 years ago.

From 1906 until 1994, the shed sheltered our entire company. The shed was originally an old hotel that was hitched to a team of horses and drug a ¼ mile down South Concord Street so that G.L. Huyett could be closer to the local rail spur. Many of the images on the cover of this book come from our storied history in the shed.

Our story isn't unique...and that is exactly what we love about it. It is a story you have heard a hundred times before...a story filled with human drama, pain, struggle, and triumph. It is a story lived by millions of lucky people. It is the American Dream.

During the Great Depression, Henry Hahn, successor to Guy Huyett, sold alfalfa seed to supplement lost hardware sales so that he could stay in business. Henry eventually turned the business over to his son Louis, who was a notorious entrepreneur in these parts. Later, Louis allowed his son Bob to join the firm, which, at the time was largely centered on the machinery bushing product line. On Sunday afternoons, locals would gather around an old oak tree and socialize. To pass time, they would count and wire tie rings of 25, 50, and 100 machinery bushings while sipping whiskey. The group was affectionately known as "the South Side Sunday Sippin' Society" or "SSSSS."

Soon Bob took to the road and expanded product lines to include, among other things, pins, keystock, grease fittings, snap rings, and more. Bob worked days packing and shipping orders and answering the phone while his wife Dolly worked nights pounding out invoices on a Smith Corona typewriter. Sometimes Bob would meet Dolly going to bed while Dolly was arising to start typing. Some customers were known to "appreciate" Dolly's penny-pinching ways and would mail coins taped to postcards so that Dolly would stop calling to collect for small billing differences.

Today, G.L. Huyett has grown into a highly entrepreneurial enterprise with an interest in personal improvement and commitment to community that is inherent to the spirit of the pioneers who made the Great American Desert into America's Breadbasket. We now manufacture a large part of our sales mix and are committed to improving our community and the life of our customers by executing to the principles of our humble past.

We call this our "Way of Life™" and we are proud to have you as part of our lives. Our job is to make your job easier and we thank you for the opportunity.



The Old Tin Shed
126 South Concord Street
Minneapolis, KS USA

Salina Journal

Project Drive Grants Awarded

MINNEAPOLIS, KS – Project Drive, a comprehensive community improvement program founded in 2007 by G.L. Huyett, awarded $30,000 to eight projects in Ottawa, Lincoln, Cloud, Clay, and Saline counties.

Project Drive serves the needs of nonprofit organizations within a 50-mile radius of Minneapolis. Grants are awarded in increments as small as $500, or up to $25,000 for any one project to a nonprofit individual, institution, or organization that best improves a North Central Kansas Community.

The program started with $1,000 in 2007 and grew to $5,000 in 2010. It increased to more than $10,000 in 2012 thanks to contributions from Bennington State Bank and private donors. In 2014, the amount awarded increased to $30,000.

G.L. Huyett's CEO, Tim O'Keeffe commented, "While $30,000 may seem like a lot of money, it really isn't given the amount of need in our communities. However, we were able to impact a local food pantry, two elementary schools, a high school football stadium, a historic museum, a city park, a library, the elderly, and homeless families and individuals."

PROJECT DRIVE

Learn more at
www.huyett.com/projectdrive



G.L. Huyett circa 1939



Contact method, circa 1962, in use at GLH until 1994

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