# ASME B18.8.2

# TYPE U

## DESCRIPTION

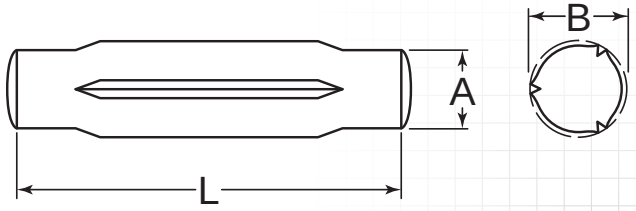
Three full-length grooves provide maximum holding power on entire pin length. A short pilot on each end means no orientation is needed during installation. Ideal for automated assembly.

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

HUYETT.COM • 785-392-3017

BOX 232 • MINNEAPOLIS, KS • 67467

SALES@HUYETT.COM • FAX 785-392-2845

# TYPE U

## ASME B18.8.2

### 3/16 (.1875")
(A) Outside Diameter: +.000/-.0020"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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"

| ITEM NUMBER | (L) OVERALL LENGTH +.010/-.010" | (B)* EXPANDED DIAMETER +.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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