



# Jergens®

MANUFACTURING EFFICIENCY



WORKHOLDING SOLUTIONS



SPECIALTY FASTENERS



LIFTING SOLUTIONS

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# SPECIALTY FASTENERS

## Fasten, Strengthen and Secure:

From threaded inserts and toggle clamps to Kwik-Lok® Pins.



Jergens is a world leader in innovative fastening technology for a wide range of applications. Our user-friendly products are designed with unique, problem-solving features that increase efficiency and effectiveness. With thousands of standard products available, and the ability to modify standards and manufacture custom specials. Jergens can meet your requirements while bringing simple solutions to complex applications.

### KWIK-LOK® PINS.....5-30

Kwik-Lok® Pins provide quick, easy, positive engagement and high holding strength for applications requiring frequent, repetitive use. Available in a variety of diameters and lengths, their simple, smooth operation makes Kwik-Lok® Pins an ideal replacement for detent pins, clevis pins and cotter pins.

### SPRING LOADED DEVICES..... 31-44

Our unique Solid Drive Design allows the entire plunger to move, eliminating the need for set screws that often result in hard-to-remove plunger bodies and lost springs.

### THREADED INSERTS.....45-60

Rated among the highest in pullout strength, Jergens' keylocking inserts can easily be installed with standard drills and taps. Competitive products require special drills, taps and installation tools. MS/NAS products available.

### MISCELLANEOUS FASTENERS.....61-70

From pull dowels, clevis pins, and leveling mounts to rod ends, washers, and yokes, Jergens has the fasteners you need.

### HANDWHEELS, HANDLES & LEVERS.....71-114

Jergens Specialty Fasteners maintains a large inventory of several varieties of knobs, handles, hand wheels, and cranks. Whether you're looking for prototype or production quantities, we can help!

### KNOBS .....115-150

Jergens' toggle clamps are a top quality alternative to more expensive brands. We maintain a large inventory and are happy to help identify the right product for your application.



## Jergens Company Profile

Jergens Inc. was founded in 1942 by Jack Schron, Sr. and his father Christy, to provide standard components for building jigs and fixtures. Today the fourth generation of family involvement continues stronger than ever. Throughout its 75-year history the company has grown into four separate operating divisions: Tooling Component Division (TCD), Jergens Industrial Supply (JIS), Acme Industrial Company (AIC), and Advanced Systems Group (ASG) Division of Jergens. While all divisions are vital to the Jergens family, the TCD Division is the centerpiece of our manufacturing capabilities. In June 1999, Jergens moved into a new 110,000 square foot facility and prides itself by manufacturing over 80% of its product offering, as well as setting the standard for producing the highest quality components in our industry.

Jergens Tooling Component Division comprises three distinct business units: Workholding Solutions, Lifting Solutions and Specialty Fasteners. Building on its reputation of uncompromising quality standards, Jergens is committed to helping its customers achieve leaner, more profitable manufacturing, and continues to add products and engineered solutions for an integrated approach to "Manufacturing Efficiency."

Today, you'll find our tooling components, fasteners and hoist rings at work in just about every industry on every continent. And our innovative Quick Change Workholding Solutions like Ball Lock® Mounting System, Fixture-Pro® 5-Axis Workholding and Zero Point Systems have changed the way manufacturers worldwide think about productivity.

Jergens actively supports global, multinational and internationally based customers with metric dimensioned product offerings as well as many inch threaded products that are common in aerospace and industrial applications around the world. In important manufacturing markets in Canada, Europe, Asia and Latin America, Jergens representatives and stocking distributors have represented Jergens for more than 30 years. Our international representatives are trained technically on our products and provide expertise to customers and sub dealers in applying Jergens technologies to local industries. In recent years, two wholly owned affiliates were formed to serve the Chinese and Indian markets. Jergens (Shanghai) Commercial Co., Ltd, opened in 2006 and Jergens India Private Ltd., Navi Mumbai India opened in 2009. These fully registered trading subsidiaries employ trained multi-lingual engineers and commercial managers who provide marketing and importing, warehousing, distribution and technical support to our customers, distributors and local representatives.

Additionally, we offer a wide range of metalworking tools, clamps, and supplies to manufacturers in Northeastern Ohio, through our JIS Division. Acme Industrial, located in Carpentersville, Illinois, is a premium manufacturer of precision drill bushings and keylocking thread inserts. Our ASG Division specializes in products for light assembly ranging from torque-controlled electric screwdrivers to automation systems.

In addition to our unique product designs, we lead the industry with unparalleled customer service and delivery. Our website is a good example of our commitment to be the most innovative company in our industry. Customers and distributors can check stock and order on-line, view the Jergens catalog, and even download 2D, 3D and solid model CAD drawings in a variety of formats. Visit our website at [www.jergensinc.com](http://www.jergensinc.com) for the latest news and product information, as well as links to our other divisions. The Jergens family thanks you for your business.

## Distribution of Jergens Products

Jergens is proud to be represented by a network of qualified distributors throughout the world. If you do not know the name of the distributor nearest you, please call Jergens Customer Service at 1-866-KWIK-LOK or visit [www.jergensinc.com](http://www.jergensinc.com).

## Quality Policy

Jergens, Inc. manufactures and supplies only *quality* products. Our quality system is ISO 9001: 2015 Certified. Center-Pull and Side-Pull Hoist Rings are CE Certified. If there is a problem with any of our products, please contact your local Jergens Distributor or contact our Customer Service Department.

## Design Aids

Jergens, Inc. offers several CAD drawing formats for use in fixture design. Our Fixture Pro® software is available on CD. Our internet site ([www.jergensinc.com](http://www.jergensinc.com)) offers our complete catalog with hot links to CAD drawings on most of our products. We also offer 3D solid models of our products via the internet.

## Application Assistance

Jergens Inc. maintains a complete Technical Sales Department to work with you. Please feel free to call upon their knowledge and experience. Application videos are available for the Ball Lock® Mounting System, 5-Axis Fixture Pro®, and Hydraulic Vise Column products at [www.jergensinc.com](http://www.jergensinc.com) or [www.youtube.com/users/jergensinc](http://www.youtube.com/users/jergensinc).

## Engineering Changes

Product improvement is a continuing process at Jergens, Inc. Specifications and engineering data are subject to change without notice. If current information is critical to your design, it is suggested that you contact the Jergens Customer Service Department, or download the most current drawing from our website\*, to verify any dimensions or specifications.

\* 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

## Bar Coding

Jergens' boxed and bagged products are fully bar coded for automatic identification. The bar code labels contain the ASCII Code 39 format, which was chosen as being suitable for most bar code readers. Jergens' bar codes will identify part numbers and manufacturer's codes.

## Specials

Jergens, Inc. will modify any item that is similar to our standard component parts. Please contact your Jergens Distributor with your request for a quote. Prints or sketches should be furnished if possible.

## TCMA Standards

Products throughout this catalog meet the standards of the Tooling Component Manufacturers' Association. The items are asterisked and are interchangeable with other tooling component manufacturer's products.

## Material and Finish Specifications

**Stressproof®:** A severely cold worked, furnace treated steel bar. Produced by LaSalle patented process to obtain high strength, free machinability, good wear, and minimum warpage in the bar.

**Alloy Steel** - 4140 or equivalent

**Low Carbon Steel** - Free Machining 1215, 1018, or equivalent

**52100:** QQS-624

**Zinc Plate:** ASTM B633, Type III, Class FE/ZN 5

**Cadmium Plate:** AMS-QQ-P-416, Class 3, Type 1

**Black Oxide:** MIL-DTL-13924 and AMS-2485

**Black Anodize:** per Mil. Spec. MIL-A-8625, Type II, Class 2 and AMS-2472

**Passivate:** AMS 2700

Alternate Finishes available upon request.

**Jergens, Inc.**  
**Manufacturing Number: 697830**  
**FSCM #94882**

**ISO 9001: 2015**  
**Registration #00010133**

# KWIK-LOK® PINS

## Kwik-Lok® Pins

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## Kwik-Lok® Pins – Selection and Ordering

### 1. Choose Handle Shape and Style:

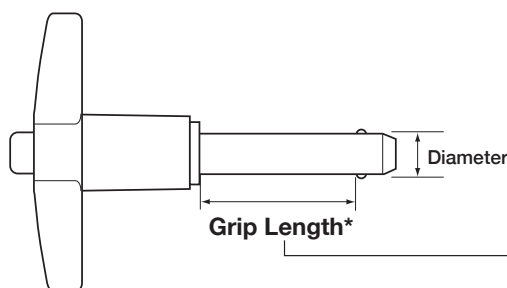
T, L, or Button  
Heavy Duty T, L, or Button  
Ring Handle, Lifting Ring, or Recessed Button  
Double Acting (Push/Pull) T or L

### Material

Aluminum  
Stainless Steel  
Stainless Steel  
Stainless Steel

### 2. Select Pin Body Material

•17-4-PH heat treated Stainless Steel for highest strength, corrosion and scratch resistance



\*Grip Length is measured to edge of locking ball  
Standard Grip Lengths: 1/2"-6", 10-100 mm  
Special Grip Lengths available on request

### 3. Specify Pin Diameter and Grip Length

| Standard Kwik-Lok® Pin Diameters |       |                  |               | Double Shear Resistance (Minimum) |     |
|----------------------------------|-------|------------------|---------------|-----------------------------------|-----|
|                                  |       |                  |               | Stainless Steel (17-4 PH)         |     |
| Nominal                          |       | Min/Max (Inches) | Min/Max (mm)  | lbs                               | kN  |
| 3/16"                            |       | 0.1870 / 0.1885  | 4.75 / 4.79   | 5150                              | 23  |
| —                                | 5 mm  | 0.1937 / 0.1953  | 4.92 / 4.96   | 5395                              | 24  |
| —                                | 6 mm  | 0.2331 / 0.2346  | 5.92 / 5.96   | 7868                              | 35  |
| 1/4"                             |       | 0.2470 / 0.2485  | 6.27 / 6.31   | 9200                              | 41  |
| 5/16"                            |       | 0.3095 / 0.3110  | 7.86 / 7.90   | 14400                             | 64  |
| —                                | 8 mm  | 0.3118 / 0.3134  | 7.92 / 7.96   | 14695                             | 65  |
| 3/8"                             |       | 0.3720 / 0.3735  | 9.45 / 9.49   | 20700                             | 92  |
| —                                | 10 mm | 0.3906 / 0.3921  | 9.92 / 9.96   | 22480                             | 100 |
| 7/16"                            |       | 0.4345 / 0.4360  | 11.04 / 11.07 | 28500                             | 127 |
| —                                | 12 mm | 0.4693 / 0.4709  | 11.92 / 11.96 | 32371                             | 144 |
| 1/2"                             |       | 0.4970 / 0.4985  | 12.62 / 12.66 | 36900                             | 164 |
| 9/16"                            |       | 0.5595 / 0.5610  | 14.21 / 14.25 | 46700                             | 208 |
| 5/8"                             |       | 0.6220 / 0.6235  | 15.80 / 15.84 | 57800                             | 257 |
| —                                | 16 mm | 0.6268 / 0.6283  | 15.92 / 15.96 | 57774                             | 257 |
| 3/4"                             |       | 0.7470 / 0.7485  | 18.97 / 19.01 | 83200                             | 370 |
| —                                | 20 mm | 0.7843 / 0.7858  | 19.92 / 19.96 | 90594                             | 403 |
| 7/8"                             |       | 0.8720 / 0.8735  | 22.15 / 22.19 | 112500                            | 500 |
| —                                | 25 mm | 0.9811 / 0.9827  | 24.92 / 24.96 | 141849                            | 631 |
| 1"                               |       | 0.9970 / 0.9985  | 25.32 / 25.36 | 147200                            | 655 |

See Page 28 for recommended mounting hole diameters and minimum locking ball tensile strength for estimating pullout resistance.

### 4. Locate Standard Part Numbers from Charts by Diameter and Grip Length.

### 5. Select Lanyards and Tabs on pages 26–27:

Specify Length of Cable (Stainless Steel) with Green Nylon Jacket (other colors available)  
Choose Tab Style, Material and Mounting Hole Dimension  
Specify if Lanyard is to be crimped to Pin without Split Ring

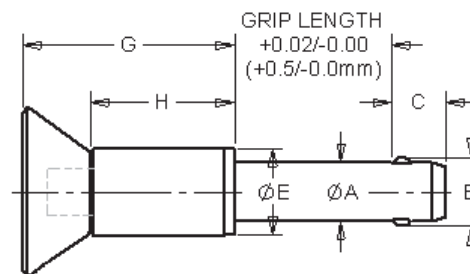
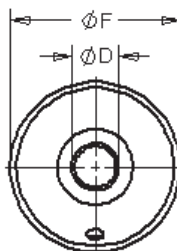
May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



## Recessed Button Handle Kwik-Lok® Pin



- The Recessed Button Handle Kwik-Lok® Pin design helps prevent accidental actuation of the pin.
- Handle is 300 Series stainless steel and the button is 17-4 PH stainless steel.
- Body is made from high Strength Stainless Steel, 17-4 PH heat treated.
- Includes hole for easy attachment of optional lanyard or ring.



### Recessed Button Handle Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F +/- .020 | G +/- .020 | H +/- .020 |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|------------|------------|------------|
| 3/16 | 0.1870 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.310 | 0.530 | 0.800      | 0.990      | 0.710      |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.310 | 0.530 | 0.800      | 0.990      | 0.710      |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.410 | 0.590 | 0.800      | 1.050      | 0.780      |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.450 | 0.650 | 1.090      | 1.375      | 0.930      |
| 7/16 | 0.4345 | 0.4360 | 0.509      | 0.380           | 0.300 | 0.390 | 0.450 | 0.650 | 1.090      | 1.375      | 0.930      |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.600 | 0.800 | 1.040      | 1.320      | 0.930      |

### Recessed Button Handle Specifications – Metric

| DIA  | A MIN | A MAX | B +/- .13 | C +0.00 / -1.00 | D MIN | D MAX | E MIN | E MAX | F +/- .020 | G +/- .020 | H +/- .020 |
|------|-------|-------|-----------|-----------------|-------|-------|-------|-------|------------|------------|------------|
| 5MM  | 4.92  | 4.96  | 5.54      | 6.0             | 6.4   | 7.9   | 7.9   | 13.5  | 20.3       | 25.1       | 18.0       |
| 6MM  | 5.92  | 5.96  | 6.99      | 7.0             | 6.4   | 7.9   | 7.9   | 13.5  | 20.3       | 25.1       | 18.0       |
| 8MM  | 7.92  | 7.96  | 9.42      | 8.0             | 6.4   | 7.9   | 7.9   | 13.5  | 20.3       | 26.7       | 19.8       |
| 10MM | 9.92  | 9.96  | 11.86     | 9.0             | 7.6   | 9.9   | 11.4  | 16.5  | 27.7       | 34.9       | 23.6       |
| 12MM | 11.92 | 11.96 | 14.45     | 10.0            | 7.6   | 9.9   | 11.4  | 16.5  | 27.7       | 34.9       | 23.6       |

| Pin Dia      |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3*     | 4*     | 5*     | 6      |
| PART NUMBERS | 3/16 | 803000           | 803001 | 803002 | 803003 | 803004 | 803005 | 803006 | 803008 | 803009 | 803011 | 803013 | 803015 |
|              | 1/4  | 803016           | 803017 | 803018 | 803019 | 803020 | 803021 | 803022 | 803024 | 803025 | 803027 | 803029 | 803031 |
|              | 5/16 | 803032           | 803033 | 803034 | 803035 | 803036 | 803037 | 803038 | 803040 | 803041 | 803043 | 803045 | 803047 |
|              | 3/8  | 803048           | 803049 | 803050 | 803051 | 803052 | 803053 | 803054 | 803056 | 803057 | 803059 | 803061 | 803063 |
|              | 7/16 | 803064           | 803065 | 803066 | 803067 | 803068 | 803069 | 803070 | 803072 | 803073 | 803075 | 803077 | 803079 |
|              | 1/2  | 803080           | 803081 | 803082 | 803083 | 803084 | 803085 | 803086 | 803088 | 803089 | 803091 | 803093 | 803095 |

Contact customer service for other sizes.

| Pin Dia     |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|-------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART NUMBER | 5  | 853000               | 853001 | 853002 | 853003 | 853004 | 853005 | 853006 | 853007 | 853008 | 853009 | 853010 | 853011 |
|             | 6  | 853012               | 853013 | 853014 | 853015 | 853016 | 853017 | 853018 | 853019 | 853020 | 853021 | 853022 | 853023 |
|             | 8  | 853024               | 853025 | 853026 | 853027 | 853028 | 853029 | 853030 | 853031 | 853032 | 853033 | 853034 | 853035 |
|             | 10 | 853036               | 853037 | 853038 | 853039 | 853040 | 853041 | 853042 | 853043 | 853044 | 853045 | 853046 | 853047 |
|             | 12 | 853048               | 853049 | 853050 | 853051 | 853052 | 853053 | 853054 | 853055 | 853056 | 853057 | 853058 | 853059 |

Contact customer service for other sizes.

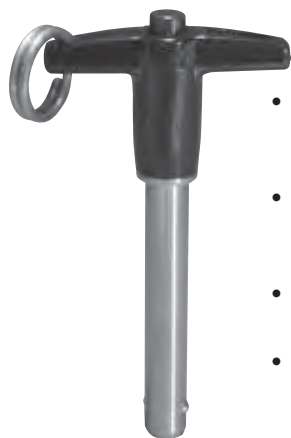
May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



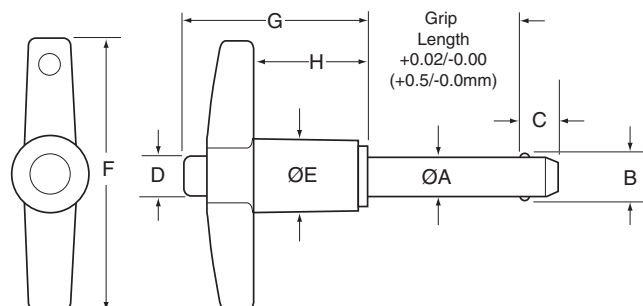
## T-Handle Kwik-Lok® Pin

### MS17985, NAS1333-NAS1343

#### A2=Aluminum T Handle



- The T-Handle Kwik-Lok® Pin provides a firm, even grip for smooth comfortable operation.
- Handle is Anodized black cast aluminum and the button is 2024 blue anodized aluminum.
- Pin body: Heat Treated 17-4 PH Stainless Steel.
- Includes hole and split ring for easy attachment of optional lanyard.



#### T-Handle Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F MIN | F MAX | G MAX | H MIN |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3/16 | 0.1875 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.380 | 0.500 | 1.750 | 1.815 | 1.270 | 0.800 |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.380 | 0.500 | 1.750 | 1.815 | 1.270 | 0.800 |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.380 | 0.500 | 1.750 | 1.815 | 1.270 | 0.800 |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.510 | 0.625 | 1.935 | 2.065 | 1.450 | 0.850 |
| 7/16 | 0.4345 | 0.4360 | 0.509      | 0.380           | 0.300 | 0.390 | 0.510 | 0.625 | 1.935 | 2.065 | 1.470 | 0.850 |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.630 | 0.800 | 2.220 | 2.345 | 1.600 | 0.885 |
| 9/16 | 0.5595 | 0.5610 | 0.666      | 0.510           | 0.435 | 0.565 | 0.630 | 0.800 | 2.220 | 2.345 | 1.600 | 0.885 |
| 5/8  | 0.6220 | 0.6235 | 0.750      | 0.580           | 0.450 | 0.580 | 0.810 | 0.940 | 2.250 | 3.100 | 1.700 | 0.980 |
| 3/4  | 0.7470 | 0.7485 | 0.887      | 0.670           | 0.570 | 0.700 | 0.810 | 1.000 | 2.500 | 3.100 | 1.720 | 1.030 |
| 7/8  | 0.8720 | 0.8735 | 1.046      | 0.760           | 0.700 | 0.840 | 1.120 | 1.300 | 2.750 | 3.520 | 2.170 | 1.310 |
| 1    | 0.9970 | 0.9985 | 1.209      | 0.890           | 0.750 | 0.950 | 1.180 | 1.320 | 2.750 | 3.520 | 2.170 | 1.310 |

#### T-Handle Specifications – Metric

| DIA  | A MIN | A MAX | B +/- .13 | C +0.00 / -1.00 | D MIN | D MAX | E MIN | E MAX | F MIN | F MAX | G MAX | H MIN |
|------|-------|-------|-----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5MM  | 4.92  | 4.96  | 5.54      | 6.0             | 6.4   | 7.9   | 9.7   | 12.7  | 44.5  | 46.1  | 32.3  | 20.3  |
| 6MM  | 5.92  | 5.96  | 6.99      | 7.0             | 6.4   | 7.9   | 9.7   | 12.7  | 44.5  | 46.1  | 32.3  | 20.3  |
| 8MM  | 7.92  | 7.96  | 9.42      | 8.0             | 6.4   | 7.9   | 9.7   | 12.7  | 44.5  | 46.1  | 32.3  | 20.3  |
| 10MM | 9.92  | 9.96  | 11.86     | 9.0             | 7.6   | 9.9   | 13.0  | 15.9  | 49.1  | 52.5  | 36.8  | 21.6  |
| 12MM | 11.92 | 11.96 | 14.45     | 10.0            | 7.6   | 9.9   | 13.0  | 15.9  | 49.1  | 52.5  | 36.8  | 21.6  |
| 16MM | 15.92 | 15.96 | 19.00     | 14.0            | 11.4  | 14.7  | 20.6  | 23.9  | 57.2  | 78.7  | 43.2  | 24.9  |
| 20MM | 19.92 | 19.96 | 24.08     | 17.0            | 14.5  | 17.8  | 20.6  | 25.4  | 63.5  | 78.7  | 43.7  | 26.2  |
| 25MM | 24.92 | 24.96 | 30.94     | 22.0            | 19.1  | 24.1  | 30.0  | 33.5  | 69.9  | 89.4  | 55.1  | 33.3  |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



## T-Handle – Inch

Aluminum Handle, Body – High Strength Stainless Steel, 17-4 PH Heat Treated

| Pin Dia      |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| PART NUMBERS | 3/16 | 801000           | 801001 | 801002 | 801003 | 801004 | 801005 | 801006 | 801008 | 801009 | 801011 | 801013 | 801015 |
|              | 1/4  | 801016           | 801017 | 801018 | 801019 | 801020 | 801021 | 801022 | 801024 | 801025 | 801027 | 801029 | 801031 |
|              | 5/16 | 801032           | 801033 | 801034 | 801035 | 801036 | 801037 | 801038 | 801040 | 801041 | 801043 | 801045 | 801047 |
|              | 3/8  | 801048           | 801049 | 801050 | 801051 | 801052 | 801053 | 801054 | 801056 | 801057 | 801059 | 801061 | 801063 |
|              | 7/16 | 801064           | 801065 | 801066 | 801067 | 801068 | 801069 | 801070 | 801072 | 801073 | 801075 | 801077 | 801079 |
|              | 1/2  | 801080           | 801081 | 801082 | 801083 | 801084 | 801085 | 801086 | 801088 | 801089 | 801091 | 801093 | 801095 |
|              | 9/16 | 801096           | 801097 | 801098 | 801099 | 801100 | 801101 | 801102 | 801104 | 801105 | 801107 | 801109 | 801111 |
|              | 5/8  | 801112           | 801113 | 801114 | 801115 | 801116 | 801117 | 801118 | 801120 | 801121 | 801123 | 801125 | 801127 |
|              | 3/4  | 801128           | 801129 | 801130 | 801131 | 801132 | 801133 | 801134 | 801136 | 801137 | 801139 | 801141 | 801143 |
|              | 7/8  | 801144           | 801145 | 801146 | 801147 | 801148 | 801149 | 801150 | 801152 | 801153 | 801155 | 801157 | 801159 |
|              | 1    | 801160           | 801161 | 801162 | 801163 | 801164 | 801165 | 801166 | 801168 | 801169 | 801171 | 801173 | 801175 |

## T-Handle – Metric

Aluminum Handle, Body – High Strength Stainless Steel, 17-4 PH Heat Treated

| Pin Dia         |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART<br>NUMBERS | 5  | 851000               | 851001 | 851002 | 851003 | 851004 | 851005 | 851006 | 851007 | 851008 | 851009 | 851010 | 851011 |
|                 | 6  | 851012               | 851013 | 851014 | 851015 | 851016 | 851017 | 851018 | 851019 | 851020 | 851021 | 851022 | 851023 |
|                 | 8  | 851024               | 851025 | 851026 | 851027 | 851028 | 851029 | 851030 | 851031 | 851032 | 851033 | 851034 | 851035 |
|                 | 10 | 851036               | 851037 | 851038 | 851039 | 851040 | 851041 | 851042 | 851043 | 851044 | 851045 | 851046 | 851047 |
|                 | 12 | 851048               | 851049 | 851050 | 851051 | 851052 | 851053 | 851054 | 851055 | 851056 | 851057 | 851058 | 851059 |
|                 | 16 | 851060               | 851061 | 851062 | 851063 | 851064 | 851065 | 851066 | 851067 | 851068 | 851069 | 851070 | 851071 |
|                 | 20 | 851072               | 851073 | 851074 | 851075 | 851076 | 851077 | 851078 | 851079 | 851080 | 851081 | 851082 | 851083 |
|                 | 25 | 851084               | 851085 | 851086 | 851087 | 851088 | 851089 | 851090 | 851091 | 851092 | 851093 | 851094 | 851095 |

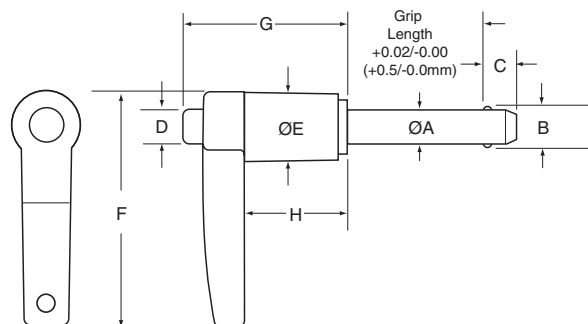
Contact customer service for other sizes.



## L-Handle Kwik-Lok® Pin MS17986, NAS1333-NAS1343 A5=Aluminum L Handle



- The L-Handle Kwik-Lok® Pin provides a firm grip for applications where a T-Handle will not fit.
- Handle is Anodized black cast aluminum and the button is 2024 blue anodized aluminum.
- Pin body Heat Treated 17-4 PH Stainless Steel.
- Includes hole and split ring for easy attachment of optional lanyard.



### L-Handle Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F MIN | F MAX | G MAX | H MIN |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3/16 | 0.1875 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.380 | 0.500 | 1.720 | 1.800 | 1.270 | 0.760 |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.380 | 0.500 | 1.720 | 1.800 | 1.270 | 0.760 |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.380 | 0.500 | 1.720 | 1.800 | 1.270 | 0.760 |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.510 | 0.625 | 1.945 | 2.030 | 1.450 | 0.850 |
| 7/16 | 0.4345 | 0.4360 | 0.509      | 0.380           | 0.300 | 0.390 | 0.510 | 0.625 | 1.945 | 2.030 | 1.450 | 0.850 |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.630 | 0.800 | 2.230 | 2.360 | 1.600 | 0.850 |
| 9/16 | 0.5595 | 0.5610 | 0.666      | 0.510           | 0.435 | 0.565 | 0.630 | 0.800 | 2.230 | 2.360 | 1.600 | 0.850 |
| 5/8  | 0.6220 | 0.6235 | 0.750      | 0.580           | 0.450 | 0.580 | 0.810 | 0.975 | 2.385 | 3.070 | 1.700 | 0.905 |
| 3/4  | 0.7470 | 0.7485 | 0.887      | 0.670           | 0.570 | 0.700 | 0.810 | 1.000 | 2.465 | 3.070 | 1.720 | 0.980 |
| 7/8  | 0.8720 | 0.8735 | 1.046      | 0.760           | 0.700 | 0.840 | 1.120 | 1.320 | 2.750 | 3.700 | 2.170 | 1.200 |
| 1    | 0.9970 | 0.9985 | 1.209      | 0.890           | 0.750 | 0.950 | 1.180 | 1.320 | 2.750 | 3.700 | 2.170 | 1.200 |

### L-Handle Specifications – Metric

| DIA  | A MIN | A MAX | B +/- .13 | C +0.00 / -1.00 | D MIN | D MAX | E MIN | E MAX | F MIN | F MAX | G MAX | H MIN |
|------|-------|-------|-----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5MM  | 4.92  | 4.96  | 5.54      | 6.0             | 6.4   | 7.9   | 7.9   | 12.7  | 43.7  | 45.7  | 32.3  | 19.3  |
| 6MM  | 5.92  | 5.96  | 6.99      | 7.0             | 6.4   | 7.9   | 7.9   | 12.7  | 43.7  | 45.7  | 32.3  | 19.3  |
| 8MM  | 7.92  | 7.96  | 9.42      | 8.0             | 6.4   | 7.9   | 7.9   | 12.7  | 43.7  | 45.7  | 32.3  | 19.3  |
| 10MM | 9.92  | 9.96  | 11.86     | 9.0             | 7.6   | 9.9   | 13.0  | 15.9  | 49.4  | 51.6  | 36.8  | 21.6  |
| 12MM | 11.92 | 11.96 | 14.45     | 10.0            | 7.6   | 9.9   | 13.0  | 15.9  | 49.4  | 51.6  | 36.8  | 21.6  |
| 16MM | 15.92 | 15.96 | 19.00     | 14.0            | 11.4  | 14.7  | 20.6  | 24.8  | 60.6  | 78.0  | 43.2  | 23.0  |
| 20MM | 19.92 | 19.96 | 24.08     | 17.0            | 14.5  | 17.8  | 20.6  | 25.4  | 62.6  | 78.0  | 43.7  | 24.9  |
| 25MM | 24.92 | 24.96 | 30.94     | 22.0            | 19.1  | 24.1  | 30.0  | 33.5  | 69.9  | 94.0  | 55.1  | 30.5  |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer “C” dimensions upon request.



## L-Handle – Inch

Aluminum Handle, Body – High Strength Stainless Steel, 17-4 PH Heat Treated

| Pin Dia      |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| PART NUMBERS | 3/16 | 801400           | 801401 | 801402 | 801403 | 801404 | 801405 | 801406 | 801408 | 801409 | 801411 | 801413 | 801415 |
|              | 1/4  | 801416           | 801417 | 801418 | 801419 | 801420 | 801421 | 801422 | 801424 | 801425 | 801427 | 801429 | 801431 |
|              | 5/16 | 801432           | 801433 | 801434 | 801435 | 801436 | 801437 | 801438 | 801440 | 801441 | 801443 | 801445 | 801447 |
|              | 3/8  | 801448           | 801449 | 801450 | 801451 | 801452 | 801453 | 801454 | 801456 | 801457 | 801459 | 801461 | 801463 |
|              | 7/16 | 801464           | 801465 | 801466 | 801467 | 801468 | 801469 | 801470 | 801472 | 801473 | 801475 | 801477 | 801479 |
|              | 1/2  | 801480           | 801481 | 801482 | 801483 | 801484 | 801485 | 801486 | 801488 | 801489 | 801491 | 801493 | 801495 |
|              | 9/16 | 801496           | 801497 | 801498 | 801499 | 801500 | 801501 | 801502 | 801504 | 801505 | 801507 | 801509 | 801511 |
|              | 5/8  | 801512           | 801513 | 801514 | 801515 | 801516 | 801517 | 801518 | 801520 | 801521 | 801523 | 801525 | 801527 |
|              | 3/4  | 801528           | 801529 | 801530 | 801531 | 801532 | 801533 | 801534 | 801536 | 801537 | 801539 | 801541 | 801543 |
|              | 7/8  | 801544           | 801545 | 801546 | 801547 | 801548 | 801549 | 801550 | 801552 | 801553 | 801555 | 801557 | 801559 |
|              | 1    | 801560           | 801561 | 801562 | 801563 | 801564 | 801565 | 801566 | 801568 | 801569 | 801571 | 801573 | 801575 |

## L-Handle – Metric

Aluminum Handle, Body – High Strength Stainless Steel, 17-4 PH Heat Treated

|                 |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART<br>NUMBERS | 5  | 851400               | 851401 | 851402 | 851403 | 851404 | 851405 | 851406 | 851407 | 851408 | 851409 | 851410 | 851411 |
|                 | 6  | 851412               | 851413 | 851414 | 851415 | 851416 | 851417 | 851418 | 851419 | 851420 | 851421 | 851422 | 851423 |
|                 | 8  | 851424               | 851425 | 851426 | 851427 | 851428 | 851429 | 851430 | 851431 | 851432 | 851433 | 851434 | 851435 |
|                 | 10 | 851436               | 851437 | 851438 | 851439 | 851440 | 851441 | 851442 | 851443 | 851444 | 851445 | 851446 | 851447 |
|                 | 12 | 851448               | 851449 | 851450 | 851451 | 851452 | 851453 | 851454 | 851455 | 851456 | 851457 | 851458 | 851459 |
|                 | 16 | 851460               | 851461 | 851462 | 851463 | 851464 | 851465 | 851466 | 851467 | 851468 | 851469 | 851470 | 851471 |
|                 | 20 | 851472               | 851473 | 851474 | 851475 | 851476 | 851477 | 851478 | 851479 | 851480 | 851481 | 851482 | 851483 |
|                 | 25 | 851484               | 851485 | 851486 | 851487 | 851488 | 851489 | 851490 | 851491 | 851492 | 851493 | 851494 | 851495 |

Contact customer service for other sizes.



## Button Handle Kwik-Lok® Pin MS17984, NAS 1333-1343



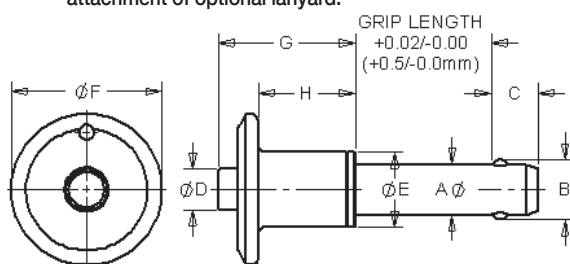
### A3=Aluminum Button Handle

- The Button Handle Kwik-Lok® Pin is ideal for applications that have limited space around the handle.
- Light weight 2024 Aluminum Alloy handle with 2024 blue anodized aluminum button.
- Pin body Heat Treated 17-4 PH Stainless Steel.
- Includes hole and split ring for easy attachment of optional lanyard.



### C3=Stainless Button Handle

- Heavy Duty solid handle in 303 series stainless steel provides additional impact resistance
- Includes hole and split ring for easy attachment of optional lanyard.
- All stainless steel construction provides additional corrosion resistance
- Body is made from high Strength Stainless Steel, 17-4 PH heat treated
- Meets or exceeds NASM 23460 specifications
- May be ordered with 4 locking balls for additional locking element tensile strength



### Button Handle Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F MIN | F MAX | G MAX | H MIN |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3/16 | 0.1875 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.310 | 0.440 | 0.720 | 0.800 | 0.830 | 0.480 |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.310 | 0.440 | 0.720 | 0.800 | 0.890 | 0.480 |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.410 | 0.490 | 0.810 | 1.135 | 0.930 | 0.480 |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.450 | 0.570 | 0.875 | 1.135 | 1.040 | 0.620 |
| 7/16 | 0.4345 | 0.4360 | 0.509      | 0.380           | 0.300 | 0.390 | 0.550 | 0.625 | 0.940 | 1.400 | 1.160 | 0.620 |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.600 | 0.725 | 1.300 | 1.400 | 1.190 | 0.720 |
| 9/16 | 0.5595 | 0.5610 | 0.666      | 0.510           | 0.435 | 0.565 | 0.680 | 0.760 | 1.400 | 1.650 | 1.410 | 0.950 |
| 5/8  | 0.6220 | 0.6235 | 0.750      | 0.580           | 0.450 | 0.580 | 0.750 | 0.865 | 1.530 | 1.700 | 1.500 | 0.950 |
| 3/4  | 0.7470 | 0.7485 | 0.887      | 0.670           | 0.570 | 0.700 | 0.865 | 1.000 | 1.790 | 1.900 | 1.680 | 1.140 |
| 7/8  | 0.8720 | 0.8735 | 1.046      | 0.760           | 0.700 | 0.840 | 0.865 | 1.000 | 2.120 | 2.250 | 1.985 | 1.270 |
| 1    | 0.9970 | 0.9985 | 1.209      | 0.890           | 0.750 | 0.950 | 1.175 | 1.250 | 2.120 | 2.250 | 2.140 | 1.490 |

### Button Handle Specifications – Metric

| DIA  | A MIN | A MAX | B +/- .13 | C +0.00 / -1.00 | D MIN | D MAX | E MIN | E MAX | F MIN | F MAX | G MAX | H MIN |
|------|-------|-------|-----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5MM  | 4.92  | 4.96  | 5.54      | 6.0             | 6.4   | 7.9   | 7.9   | 11.2  | 18.3  | 20.3  | 21.1  | 12.2  |
| 6MM  | 5.92  | 5.96  | 6.99      | 7.0             | 6.4   | 7.9   | 7.9   | 11.2  | 18.3  | 20.3  | 22.6  | 12.2  |
| 8MM  | 7.92  | 7.96  | 9.42      | 8.0             | 6.4   | 7.9   | 10.4  | 12.4  | 20.6  | 28.8  | 23.6  | 12.2  |
| 10MM | 9.92  | 9.96  | 11.86     | 9.0             | 7.6   | 9.9   | 11.4  | 14.5  | 22.2  | 28.8  | 26.4  | 15.7  |
| 12MM | 11.92 | 11.96 | 14.45     | 10.0            | 7.6   | 9.9   | 14.0  | 15.9  | 23.9  | 35.6  | 29.5  | 15.7  |
| 16MM | 15.92 | 15.96 | 19.00     | 14.0            | 11.4  | 14.7  | 19.1  | 22.0  | 38.9  | 43.2  | 38.1  | 24.1  |
| 20MM | 19.92 | 19.96 | 24.08     | 17.0            | 14.5  | 17.8  | 22.0  | 25.4  | 45.5  | 48.3  | 42.7  | 29.0  |
| 25MM | 24.92 | 24.96 | 30.94     | 22.0            | 19.1  | 24.1  | 29.8  | 31.8  | 53.8  | 57.2  | 54.4  | 37.8  |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



## Button Handle – Inch

### Aluminum Button, Heat Treated Stainless Steel 17-4 PH Body

| Pin Dia      |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| PART NUMBERS | 3/16 | 800600           | 800601 | 800602 | 800603 | 800604 | 800605 | 800606 | 800608 | 800609 | 800611 | 800613 | 800615 |
|              | 1/4  | 800616           | 800617 | 800618 | 800619 | 800620 | 800621 | 800622 | 800624 | 800625 | 800627 | 800629 | 800631 |
|              | 5/16 | 800632           | 800633 | 800634 | 800635 | 800636 | 800637 | 800638 | 800640 | 800641 | 800643 | 800645 | 800647 |
|              | 3/8  | 800648           | 800649 | 800650 | 800651 | 800652 | 800653 | 800654 | 800656 | 800657 | 800659 | 800661 | 800663 |
|              | 7/16 | 800664           | 800665 | 800666 | 800667 | 800668 | 800669 | 800670 | 800672 | 800673 | 800675 | 800677 | 800679 |
|              | 1/2  | 800680           | 800681 | 800682 | 800683 | 800684 | 800685 | 800686 | 800688 | 800689 | 800691 | 800693 | 800695 |
|              | 9/16 | 800696           | 800697 | 800698 | 800699 | 800700 | 800701 | 800702 | 800704 | 800705 | 800707 | 800709 | 800711 |
|              | 5/8  | 800712           | 800713 | 800714 | 800715 | 800716 | 800717 | 800718 | 800720 | 800721 | 800723 | 800725 | 800727 |
|              | 3/4  | 800728           | 800729 | 800730 | 800731 | 800732 | 800733 | 800734 | 800736 | 800737 | 800739 | 800741 | 800743 |
|              | 7/8  | 800744           | 800745 | 800746 | 800747 | 800748 | 800749 | 800750 | 800752 | 800753 | 800755 | 800757 | 800759 |
|              | 1    | 800760           | 800761 | 800762 | 800763 | 800764 | 800765 | 800766 | 800768 | 800769 | 800771 | 800773 | 800775 |

### Stainless Steel Button, Heat Treated Stainless Steel 17-4 PH Body

|             |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|-------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| PART NUMBER | 3/16 | 806400           | 806401 | 806402 | 806403 | 806404 | 806405 | 806406 | 806408 | 806409 | 806411 | 806413 | 806415 |
|             | 1/4  | 806416           | 806417 | 806418 | 806419 | 806420 | 806421 | 806422 | 806424 | 806425 | 806427 | 806429 | 806431 |
|             | 5/16 | 806432           | 806433 | 806434 | 806435 | 806436 | 806437 | 806438 | 806440 | 806441 | 806443 | 806445 | 806447 |
|             | 3/8  | 806448           | 806449 | 806450 | 806451 | 806452 | 806453 | 806454 | 806456 | 806457 | 806459 | 806461 | 806463 |
|             | 7/16 | 806464           | 806465 | 806466 | 806467 | 806468 | 806469 | 806470 | 806472 | 806473 | 806475 | 806477 | 806479 |
|             | 1/2  | 806480           | 806481 | 806482 | 806483 | 806484 | 806485 | 806486 | 806488 | 806489 | 806491 | 806493 | 806495 |
|             | 9/16 | 806496           | 806497 | 806498 | 806499 | 806500 | 806501 | 806502 | 806504 | 806505 | 806507 | 806509 | 806511 |
|             | 5/8  | 806512           | 806513 | 806514 | 806515 | 806516 | 806517 | 806518 | 806520 | 806521 | 806523 | 806525 | 806527 |
|             | 3/4  | 806528           | 806529 | 806530 | 806531 | 806532 | 806533 | 806534 | 806536 | 806537 | 806539 | 806541 | 806543 |
|             | 7/8  | 806544           | 806545 | 806546 | 806547 | 806548 | 806549 | 806550 | 806552 | 806553 | 806555 | 806557 | 806559 |
|             | 1    | 806560           | 806561 | 806562 | 806563 | 806564 | 806565 | 806566 | 806568 | 806569 | 806571 | 806573 | 806575 |

## Button Handle – Metric

### Aluminum Button, Heat Treated Stainless Steel 17-4 PH Body

| Pin Dia         |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART<br>NUMBERS | 5  | 850600               | 850601 | 850602 | 850603 | 850604 | 850605 | 850606 | 850607 | 850608 | 850609 | 850610 | 850611 |
|                 | 6  | 850612               | 850613 | 850614 | 850615 | 850616 | 850617 | 850618 | 850619 | 850620 | 850621 | 850622 | 850623 |
|                 | 8  | 850624               | 850625 | 850626 | 850627 | 850628 | 850629 | 850630 | 850631 | 850632 | 850633 | 850634 | 850635 |
|                 | 10 | 850636               | 850637 | 850638 | 850639 | 850640 | 850641 | 850642 | 850643 | 850644 | 850645 | 850646 | 850647 |
|                 | 12 | 850648               | 850649 | 850650 | 850651 | 850652 | 850653 | 850654 | 850655 | 850656 | 850657 | 850658 | 850659 |
|                 | 16 | 850660               | 850661 | 850662 | 850663 | 850664 | 850665 | 850666 | 850667 | 850668 | 850669 | 850670 | 850671 |
|                 | 20 | 850672               | 850673 | 850674 | 850675 | 850676 | 850677 | 850678 | 850679 | 850680 | 850681 | 850682 | 850683 |
|                 | 25 | 850684               | 850685 | 850686 | 850687 | 850688 | 850689 | 850690 | 850691 | 850692 | 850693 | 850694 | 850695 |

### Stainless Steel Button, Heat Treated Stainless Steel 17-4 PH Body

| Pin Dia         |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART<br>NUMBERS | 5  | 855400               | 855401 | 855402 | 855403 | 855404 | 855405 | 855406 | 855407 | 855408 | 855409 | 855410 | 855411 |
|                 | 6  | 855412               | 855413 | 855414 | 855415 | 855416 | 855417 | 855418 | 855419 | 855420 | 855421 | 855422 | 855423 |
|                 | 8  | 855424               | 855425 | 855426 | 855427 | 855428 | 855429 | 855430 | 855431 | 855432 | 855433 | 855434 | 855435 |
|                 | 10 | 855436               | 855437 | 855438 | 855439 | 855440 | 855441 | 855442 | 855443 | 855444 | 855445 | 855446 | 855447 |
|                 | 12 | 855448               | 855449 | 855450 | 855451 | 855452 | 855453 | 855454 | 855455 | 855456 | 855457 | 855458 | 855459 |
|                 | 16 | 855460               | 855461 | 855462 | 855463 | 855464 | 855465 | 855466 | 855467 | 855468 | 855469 | 855470 | 855471 |
|                 | 20 | 855472               | 855473 | 855474 | 855475 | 855476 | 855477 | 855478 | 855479 | 855480 | 855481 | 855482 | 855483 |
|                 | 25 | 855484               | 855485 | 855486 | 855487 | 855488 | 855489 | 855490 | 855491 | 855492 | 855493 | 855494 | 855495 |

Contact customer service for other sizes.

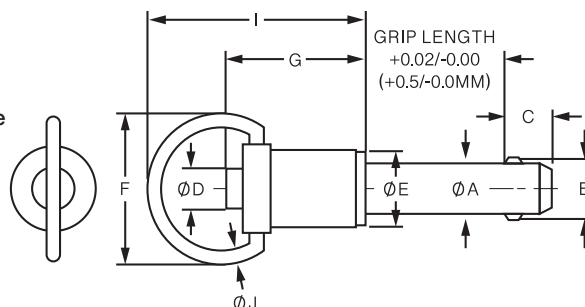
May be ordered with 4 locking balls for additional locking element tensile strength.



## Ring-Handle Kwik-Lok® Pin MS17987, NAS1333-NAS1343 C6=Stainless Ring Handle



- The Ring-Handle Kwik-Lok® Pin is designed for applications which require small clearance area around the pin.
- 303 Series Stainless steel handle for tough environment with 303 stainless button.
- Pin body: Heat Treated 17-4 PH Stainless Steel.
- Ring allows for easy attachment of optional lanyard.



### Ring-Handle Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F MIN | G MIN | G MAX | I MAX | J MIN |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3/16 | 0.1875 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.310 | 0.530 | 1.060 | 0.730 | 1.490 | 1.450 | 0.080 |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.310 | 0.530 | 1.060 | 0.780 | 1.490 | 1.500 | 0.080 |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.410 | 0.590 | 1.060 | 0.830 | 1.490 | 1.650 | 0.080 |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.450 | 0.650 | 1.060 | 0.940 | 1.490 | 1.650 | 0.080 |
| 7/16 | 0.4345 | 0.4360 | 0.509      | 0.380           | 0.300 | 0.390 | 0.550 | 0.710 | 1.090 | 0.980 | 1.580 | 1.850 | 0.080 |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.600 | 0.800 | 1.160 | 1.140 | 1.580 | 1.850 | 0.080 |
| 9/16 | 0.5595 | 0.5610 | 0.666      | 0.510           | 0.435 | 0.565 | 0.680 | 0.840 | 1.160 | 1.140 | 1.580 | 2.030 | 0.080 |
| 5/8  | 0.6220 | 0.6235 | 0.750      | 0.580           | 0.450 | 0.580 | 0.750 | 0.905 | 1.240 | 1.400 | 1.840 | 2.250 | 0.120 |
| 3/4  | 0.7470 | 0.7485 | 0.887      | 0.670           | 0.570 | 0.700 | 0.865 | 1.045 | 1.640 | 1.625 | 1.990 | 2.650 | 0.120 |
| 7/8  | 0.8720 | 0.8735 | 1.046      | 0.760           | 0.700 | 0.840 | 0.980 | 1.235 | 1.640 | 1.875 | 2.190 | 3.000 | 0.120 |
| 1    | 0.9970 | 0.9985 | 1.209      | 0.890           | 0.750 | 0.950 | 1.175 | 1.330 | 1.640 | 2.000 | 2.450 | 3.100 | 0.120 |

### Ring-Handle Specifications – Metric

| DIA  | A MIN | A MAX | B +/- .13 | C +0.00 / -1.00 | D MIN | D MAX | E MIN | E MAX | F MIN | G MIN | G MAX | I MAX | J MIN |
|------|-------|-------|-----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5MM  | 4.92  | 4.96  | 5.54      | 6.0             | 6.4   | 7.9   | 7.9   | 13.5  | 26.9  | 18.5  | 37.8  | 36.8  | 2.0   |
| 6MM  | 5.92  | 5.96  | 6.99      | 7.0             | 6.4   | 7.9   | 7.9   | 13.5  | 26.9  | 18.5  | 37.8  | 36.8  | 2.0   |
| 8MM  | 7.92  | 7.96  | 9.42      | 8.0             | 6.4   | 7.9   | 7.9   | 13.5  | 26.9  | 18.5  | 37.8  | 36.8  | 2.0   |
| 10MM | 9.92  | 9.96  | 11.86     | 9.0             | 7.6   | 9.9   | 11.4  | 16.5  | 26.9  | 23.9  | 37.8  | 36.8  | 2.0   |
| 12MM | 11.92 | 11.96 | 14.45     | 10.0            | 7.6   | 9.9   | 14.0  | 18.0  | 27.7  | 24.9  | 40.1  | 47.0  | 2.0   |
| 16MM | 15.92 | 15.96 | 19.00     | 14.0            | 11.4  | 14.7  | 19.1  | 23.0  | 31.5  | 35.6  | 46.7  | 57.2  | 3.0   |
| 20MM | 19.92 | 19.96 | 24.08     | 17.0            | 14.5  | 17.8  | 22.0  | 26.5  | 41.7  | 41.3  | 50.5  | 67.3  | 3.0   |
| 25MM | 24.92 | 24.96 | 30.94     | 22.0            | 19.1  | 24.1  | 29.8  | 33.8  | 41.7  | 50.8  | 62.2  | 78.7  | 3.0   |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



## Ring-Handle – Inch

Stainless Steel – High Strength Stainless Steel, 17-4 PH Heat Treated

| Pin Dia      |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| PART NUMBERS | 3/16 | 800200           | 800201 | 800202 | 800203 | 800204 | 800205 | 800206 | 800208 | 800209 | 800211 | 800213 | 800215 |
|              | 1/4  | 800216           | 800217 | 800218 | 800219 | 800220 | 800221 | 800222 | 800224 | 800225 | 800227 | 800229 | 800231 |
|              | 5/16 | 800232           | 800233 | 800234 | 800235 | 800236 | 800237 | 800238 | 800240 | 800241 | 800243 | 800245 | 800247 |
|              | 3/8  | 800248           | 800249 | 800250 | 800251 | 800252 | 800253 | 800254 | 800256 | 800257 | 800259 | 800261 | 800263 |
|              | 7/16 | 800264           | 800265 | 800266 | 800267 | 800268 | 800269 | 800270 | 800272 | 800273 | 800275 | 800277 | 800279 |
|              | 1/2  | 800280           | 800281 | 800282 | 800283 | 800284 | 800285 | 800286 | 800288 | 800289 | 800291 | 800293 | 800295 |
|              | 9/16 | 800296           | 800297 | 800298 | 800299 | 800300 | 800301 | 800302 | 800304 | 800305 | 800307 | 800309 | 800311 |
|              | 5/8  | 800312           | 800313 | 800314 | 800315 | 800316 | 800317 | 800318 | 800320 | 800321 | 800323 | 800325 | 800327 |
|              | 3/4  | 800328           | 800329 | 800330 | 800331 | 800332 | 800333 | 800334 | 800336 | 800337 | 800339 | 800341 | 800343 |
|              | 7/8  | 800344           | 800345 | 800346 | 800347 | 800348 | 800349 | 800350 | 800352 | 800353 | 800355 | 800357 | 800059 |
|              | 1    | 800360           | 800361 | 800362 | 800363 | 800364 | 800365 | 800366 | 800368 | 800369 | 800371 | 800373 | 800375 |

## Ring-Handle – Metric

Stainless Steel – High Strength Stainless Steel, 17-4 PH Heat Treated

|              |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART NUMBERS | 5  | 850200               | 850201 | 850202 | 850203 | 850204 | 850205 | 850206 | 850207 | 850208 | 850209 | 850210 | 850211 |
|              | 6  | 850212               | 850213 | 850214 | 850215 | 850216 | 850217 | 850218 | 850219 | 850220 | 850221 | 850222 | 850223 |
|              | 8  | 850224               | 850225 | 850226 | 850227 | 850228 | 850229 | 850230 | 850231 | 850232 | 850233 | 850234 | 850235 |
|              | 10 | 850236               | 850237 | 850238 | 850239 | 850240 | 850241 | 850242 | 850243 | 850244 | 850245 | 850246 | 850247 |
|              | 12 | 850248               | 850249 | 850250 | 850251 | 850252 | 850253 | 850254 | 850255 | 850256 | 850257 | 850258 | 850259 |
|              | 16 | 850260               | 850261 | 850262 | 850263 | 850264 | 850265 | 850266 | 850267 | 850268 | 850269 | 850270 | 850271 |
|              | 20 | 850272               | 850273 | 850274 | 850275 | 850276 | 850277 | 850278 | 850279 | 850280 | 850281 | 850282 | 850283 |
|              | 25 | 850284               | 850285 | 850286 | 850287 | 850288 | 850289 | 850290 | 850291 | 850292 | 850293 | 850294 | 850295 |

Contact customer service for other sizes.

May be ordered with 4 locking balls for additional locking element tensile strength.



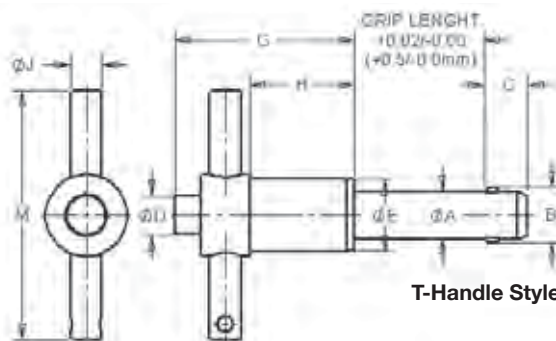
## Heavy Duty T&L Handle Pins 17985, 17986, NAS1333-NAS1343

C2=Stainless T Handle

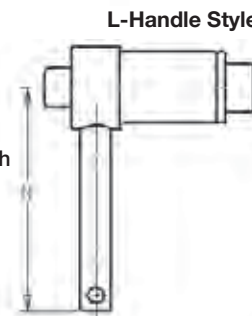
C5=Stainless L Handle



- Also known as Ground Handling Pins
- Heavy Duty welded handle provides additional impact resistance
- Includes split ring for easy attachment of optional lanyard.
- 303 Series Stainless Steel handle and button provide additional corrosion resistance
- Body is made from high Strength Stainless Steel, 17-4 PH heat treated.
- Meets or exceeds NASM 23460 specifications
- May be ordered with 4 locking balls for additional locking element tensile strength



T-Handle Style



L-Handle Style

### Heavy Duty T&L Handle Specifications – Inch

| Nom<br>Pin Dia | Pin Dia A |       | ±0.005<br>B | +0.00/<br>-0.04<br>C | D     | E      | G       | H     | J    | M       | N       |
|----------------|-----------|-------|-------------|----------------------|-------|--------|---------|-------|------|---------|---------|
|                | Min       | Max   |             |                      |       |        |         |       |      |         |         |
| 3/16 (#10)     | .1870     | .1885 | .220        | .260                 | 1/4   | 7/16   | 1 1/4   | 13/16 | 3/16 | 1 15/16 | 1 3/4   |
| 1/4            | .2470     | .2485 | .289        | .290                 | 1/4   | 7/16   | 1 1/4   | 13/16 | 3/16 | 1 15/16 | 1 3/4   |
| 5/16           | .3095     | .3110 | .375        | .330                 | 1/4   | 7/16   | 1 1/4   | 13/16 | 3/16 | 1 15/16 | 1 3/4   |
| 3/8            | .3720     | .3735 | .440        | .365                 | 5/16  | 9/16   | 1 11/32 | 13/16 | 1/4  | 1 15/16 | 1 3/4   |
| 7/16           | .4345     | .4360 | .509        | .380                 | 5/16  | 9/16   | 1 11/32 | 13/16 | 1/4  | 2 1/8   | 1 3/4   |
| 1/2            | .4970     | .4985 | .594        | .460                 | 7/16  | 11/16  | 1 7/16  | 13/16 | 1/4  | 2 3/8   | 1 31/32 |
| 9/16           | .5595     | .5610 | .666        | .510                 | 7/16  | 11/16  | 1 7/16  | 13/16 | 1/4  | 2 3/8   | 1 31/32 |
| 5/8            | .6220     | .6235 | .750        | .580                 | 1/2   | 15/16  | 1 11/16 | 31/32 | 5/16 | 2 7/8   | 2 15/32 |
| 3/4            | .7470     | .7485 | .887        | .670                 | 37/64 | 15/16  | 1 23/32 | 31/32 | 5/16 | 2 7/8   | 2 15/32 |
| 7/8            | .8720     | .8735 | 1.046       | .760                 | 3/4   | 1 3/16 | 2 5/32  | 1 1/4 | 3/8  | 3 1/4   | 2 13/16 |
| 1              | .9970     | .9985 | 1.219       | .890                 | 3/4   | 1 3/16 | 2 5/32  | 1 1/4 | 3/8  | 3 1/4   | 2 13/16 |

### Heavy Duty T&L Handle Specifications – Metric

| Nom<br>Pin Dia | Pin Dia A ± 0.13 |       | +0.0/- 1.0<br>B | C  | D    | E    | G    | H    | J    | M    | N    |
|----------------|------------------|-------|-----------------|----|------|------|------|------|------|------|------|
|                | Min              | Max   |                 |    |      |      |      |      |      |      |      |
| 5              | 4.92             | 4.96  | 5.54            | 6  | 6.5  | 10.8 | 31.7 | 20.4 | 4.76 | 49.5 | 44.5 |
| 6              | 5.92             | 5.96  | 6.99            | 7  | 6.5  | 10.8 | 31.7 | 20.4 | 4.76 | 49.5 | 44.5 |
| 8              | 7.92             | 7.96  | 9.40            | 8  | 6.5  | 10.8 | 31.7 | 20.4 | 4.76 | 49.5 | 44.5 |
| 10             | 9.92             | 9.96  | 11.86           | 9  | 7.7  | 14.2 | 34.1 | 21.0 | 6.35 | 49.5 | 44.5 |
| 12             | 11.92            | 11.96 | 14.45           | 10 | 7.7  | 14.2 | 34.2 | 21.0 | 6.35 | 54.1 | 50.0 |
| 16             | 15.92            | 15.96 | 19.00           | 14 | 12.4 | 23.9 | 42.6 | 24.6 | 7.94 | 73.2 | 62.7 |
| 20             | 19.92            | 19.96 | 24.08           | 17 | 12.4 | 23.9 | 42.6 | 24.9 | 7.94 | 73.2 | 62.7 |
| 25             | 24.92            | 24.96 | 30.94           | 22 | 19.2 | 30.0 | 53.4 | 30.2 | 9.53 | 82.3 | 71.0 |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



### Heavy Duty T-Handle – Inch

| Pin<br>Dia       |      | Grip Length (inches) |        |        |        |        |        |        |        |        |        |        |        |
|------------------|------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  |      | 0.5                  | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| P<br>A<br>R<br>T | 3/16 | 802600               | 802601 | 802602 | 802603 | 802604 | 802605 | 802606 | 802608 | 802609 | 802611 | 802613 | 802615 |
|                  | 1/4  | 802616               | 802617 | 802618 | 802619 | 802620 | 802621 | 802622 | 802624 | 802625 | 802627 | 802629 | 802631 |
|                  | 5/16 | 802632               | 802633 | 802634 | 802635 | 802636 | 802637 | 802638 | 802640 | 802641 | 802643 | 802645 | 802647 |
|                  | 3/8  | 802648               | 802649 | 802650 | 802651 | 802652 | 802653 | 802654 | 802656 | 802657 | 802659 | 802661 | 802663 |
|                  | 7/16 | 802664               | 802665 | 802666 | 802667 | 802668 | 802669 | 802670 | 802672 | 802673 | 802675 | 802677 | 802679 |
|                  | 1/2  | 802680               | 802681 | 802682 | 802683 | 802684 | 802685 | 802686 | 802688 | 802689 | 802691 | 802693 | 802695 |
|                  | 9/16 | 802696               | 802697 | 802698 | 802699 | 802700 | 802701 | 802702 | 802704 | 802705 | 802707 | 802709 | 802711 |
|                  | 5/8  | 802712               | 802713 | 802714 | 802715 | 802716 | 802717 | 802718 | 802720 | 802721 | 802723 | 802725 | 802727 |
|                  | 3/4  | 802728               | 802729 | 802730 | 802731 | 802732 | 802733 | 802734 | 802736 | 802737 | 802739 | 802741 | 802743 |
|                  | 7/8  | 802744               | 802745 | 802746 | 802747 | 802748 | 802749 | 802750 | 802752 | 802753 | 802755 | 802757 | 802759 |
|                  | 1    | 802760               | 802761 | 802762 | 802763 | 802764 | 802765 | 802766 | 802768 | 802769 | 802771 | 802773 | 802775 |

### Heavy Duty L-Handle – Inch

|                                 |      |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| N<br>U<br>M<br>B<br>E<br>R<br>S | 3/16 | 805600 | 805601 | 805602 | 805603 | 805604 | 805605 | 805606 | 805608 | 805609 | 805611 | 805613 | 805615 |
|                                 | 1/4  | 805616 | 805617 | 805618 | 805619 | 805620 | 805621 | 805622 | 805624 | 805625 | 805627 | 805629 | 805631 |
|                                 | 5/16 | 805632 | 805633 | 805634 | 805635 | 805636 | 805637 | 805638 | 805640 | 805641 | 805643 | 805645 | 805647 |
|                                 | 3/8  | 805648 | 805649 | 805650 | 805651 | 805652 | 805653 | 805654 | 805656 | 805657 | 805659 | 805661 | 805663 |
|                                 | 7/16 | 805664 | 805665 | 805666 | 805667 | 805668 | 805669 | 805670 | 805672 | 805673 | 805675 | 805677 | 805679 |
|                                 | 1/2  | 805680 | 805681 | 805682 | 805683 | 805684 | 805685 | 805686 | 805688 | 805689 | 805691 | 805693 | 805695 |
|                                 | 9/16 | 805696 | 805697 | 805698 | 805699 | 805700 | 805701 | 805702 | 805704 | 805705 | 805707 | 805709 | 805711 |
|                                 | 5/8  | 805712 | 805713 | 805714 | 805715 | 805716 | 805717 | 805718 | 805720 | 805721 | 805723 | 805725 | 805727 |
|                                 | 3/4  | 805728 | 805729 | 805730 | 805731 | 805732 | 805733 | 805734 | 805736 | 805737 | 805739 | 805741 | 805743 |
|                                 | 7/8  | 805744 | 805745 | 805746 | 805747 | 805748 | 805749 | 805750 | 805752 | 805753 | 805755 | 805757 | 805759 |
|                                 | 1    | 805760 | 805761 | 805762 | 805763 | 805764 | 805765 | 805766 | 805768 | 805769 | 805771 | 805773 | 805775 |

### Heavy Duty T-Handle – Metric

|                  | Pin | Grip Length (mm) |        |        |        |        |        |        |        |        |        |        |        |
|------------------|-----|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  | Dia | 10               | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| P<br>A<br>R<br>T | 5   | 852600           | 852601 | 852602 | 852603 | 852604 | 852605 | 852606 | 852607 | 852608 | 852609 | 852610 | 852611 |
|                  | 6   | 852612           | 852613 | 852614 | 852615 | 852616 | 852617 | 852618 | 852619 | 852620 | 852621 | 852622 | 852623 |
|                  | 8   | 852624           | 852625 | 852626 | 852627 | 852628 | 852629 | 852630 | 852631 | 852632 | 852633 | 852634 | 852635 |
|                  | 10  | 852636           | 852637 | 852638 | 852639 | 852640 | 852641 | 852642 | 852643 | 852644 | 852645 | 852646 | 852647 |
|                  | 12  | 852648           | 852649 | 852650 | 852651 | 852652 | 852653 | 852654 | 852655 | 852656 | 852657 | 852658 | 852659 |
|                  | 16  | 852660           | 852661 | 852662 | 852663 | 852664 | 852665 | 852666 | 852667 | 852668 | 852669 | 852670 | 852671 |
|                  | 20  | 852672           | 852673 | 852674 | 852675 | 852676 | 852677 | 852678 | 852679 | 852680 | 852681 | 852682 | 852683 |
|                  | 25  | 852684           | 852685 | 852686 | 852687 | 852688 | 852689 | 852690 | 852691 | 852692 | 852693 | 852694 | 852695 |

### Heavy Duty L-Handle – Metric

|                                 |    |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| N<br>U<br>M<br>B<br>E<br>R<br>S | 5  | 854200 | 854201 | 854202 | 854203 | 854204 | 854205 | 854206 | 854207 | 854208 | 854209 | 854210 | 854211 |
|                                 | 6  | 854212 | 854213 | 854214 | 854215 | 854216 | 854217 | 854218 | 854219 | 854220 | 854221 | 854222 | 854223 |
|                                 | 8  | 854224 | 854225 | 854226 | 854227 | 854228 | 854229 | 854230 | 854231 | 854232 | 854233 | 854234 | 854235 |
|                                 | 10 | 854236 | 854237 | 854238 | 854239 | 854240 | 854241 | 854242 | 854243 | 854244 | 854245 | 854246 | 854247 |
|                                 | 12 | 854248 | 854249 | 854250 | 854251 | 854252 | 854253 | 854254 | 854255 | 854256 | 854257 | 854258 | 854259 |
|                                 | 16 | 854260 | 854261 | 854262 | 854263 | 854264 | 854265 | 854266 | 854267 | 854268 | 854269 | 854270 | 854271 |
|                                 | 20 | 854272 | 854273 | 854274 | 854275 | 854276 | 854277 | 854278 | 854279 | 854280 | 854281 | 854282 | 854283 |
|                                 | 25 | 854284 | 854285 | 854286 | 854287 | 854288 | 854289 | 854290 | 854291 | 854292 | 854293 | 854294 | 854295 |

Contact customer service for special sizes & materials.

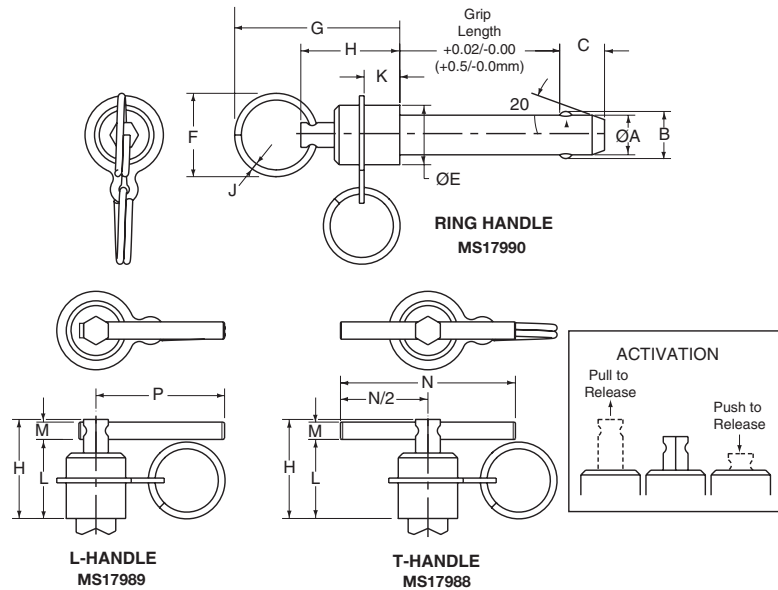
May be ordered with 4 locking balls for additional locking element tensile strength.



## Double Acting T, L, Ring Handles MS17988, MS17989, MS17990 NAS1353-NAS1366



### Push/Pull Activation



- Double Acting Pins are activated by push or pull motion
- All stainless steel construction provides additional corrosion resistance
- Body is made from high Strength Stainless Steel, 17-4 PH heat treated.
- Ideal for quick insertion and removal
- Four ball options available upon request
- Includes split ring for easy attachment of optional lanyard.
- Meets or exceeds NASM 23460 specifications
- Drive Out feature available upon request
- Handle + button made from 303 S.S.

### Double Acting Specifications – Inch

| Nom Pin Dia | Pin Dia A |       | B<br>±0.005 | C<br>Max | E     |       | F     |       | Max G | H     | J    | K    |      | Min L | Dia M | N     | P     |
|-------------|-----------|-------|-------------|----------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
|             | Min       | Max   |             |          | Min   | Max   | Min   | Max   |       |       |      | Min  | Max  |       |       |       |       |
| 3/16 (#10)  | .1870     | .1885 | .220        | .410     | .360  | .450  | 1.000 | 1.125 | 1.945 | 1.030 | .080 | .415 | .480 | .780  | .109  | 1.500 | 1.300 |
| 1/4         | .2470     | .2485 | .289        | .410     | .360  | .450  | 1.000 | 1.125 | 1.945 | 1.030 | .080 | .415 | .480 | .780  | .109  | 1.500 | 1.300 |
| 5/16        | .3095     | .3110 | .375        | .440     | .390  | .505  | 1.000 | 1.125 | 1.945 | 1.030 | .080 | .415 | .480 | .780  | .109  | 1.500 | 1.300 |
| 3/8         | .3720     | .3735 | .440        | .510     | .510  | .630  | 1.000 | 1.125 | 2.025 | 1.090 | .080 | .445 | .540 | .830  | .156  | 2.000 | 1.500 |
| 7/16        | .4345     | .4360 | .509        | .510     | .510  | .630  | 1.000 | 1.125 | 2.025 | 1.090 | .080 | .445 | .540 | .830  | .156  | 2.000 | 1.500 |
| 1/2         | .4970     | .4985 | .594        | .590     | .640  | .755  | 1.000 | 1.125 | 2.200 | 1.270 | .080 | .445 | .540 | .880  | .218  | 2.250 | 1.655 |
| 9/16        | .5595     | .5610 | .666        | .660     | .640  | .755  | 1.000 | 1.125 | 2.200 | 1.270 | .080 | .445 | .540 | .880  | .218  | 2.250 | 1.655 |
| 5/8         | .6220     | .6235 | .750        | .750     | .805  | .870  | 1.312 | 1.500 | 2.690 | 1.465 | .120 | .510 | .575 | 1.000 | .250  | 2.500 | 1.810 |
| 3/4         | .7470     | .7485 | .887        | .790     | .890  | .960  | 1.312 | 1.500 | 2.690 | 1.465 | .120 | .530 | .595 | 1.000 | .250  | 2.500 | 1.810 |
| 7/8         | .8720     | .8735 | 1.046       | .950     | 1.070 | 1.150 | 1.312 | 1.500 | 2.860 | 1.640 | .120 | .665 | .730 | 1.180 | .250  | 2.875 | 2.250 |
| 1           | .9970     | .9985 | 1.219       | 1.110    | 1.200 | 1.280 | 1.312 | 1.500 | 3.010 | 1.830 | .120 | .800 | .865 | 1.320 | .250  | 2.875 | 2.250 |

### Double Acting Specifications – Metric

| Nom Pin Dia | Pin Dia A |       | B<br>±0.13 | C<br>Max | E     |       | F     |       | Max G | H     | J    | K     |       | Min L | Dia M | N     | P     |
|-------------|-----------|-------|------------|----------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
|             | Min       | Max   |            |          | Min   | Max   | Min   | Max   |       |       |      | Min   | Max   |       |       |       |       |
| 5           | 4.92      | 4.96  | 5.54       | 10.41    | 9.14  | 11.43 | 25.40 | 28.58 | 49.40 | 26.16 | 2.03 | 10.54 | 12.19 | 19.81 | 2.78  | 38.10 | 33.02 |
| 6           | 5.92      | 5.96  | 6.99       | 10.41    | 9.14  | 11.43 | 25.40 | 28.58 | 49.40 | 26.16 | 2.03 | 10.54 | 12.19 | 19.81 | 2.78  | 38.10 | 33.02 |
| 8           | 7.92      | 7.96  | 9.42       | 11.68    | 9.91  | 12.83 | 25.40 | 28.58 | 49.40 | 26.16 | 2.03 | 10.54 | 12.19 | 19.81 | 2.78  | 38.10 | 33.02 |
| 10          | 9.92      | 9.96  | 11.86      | 13.21    | 12.95 | 16.00 | 25.40 | 28.58 | 51.44 | 27.69 | 2.03 | 11.30 | 13.72 | 21.08 | 3.97  | 49.21 | 38.10 |
| 12          | 11.92     | 11.96 | 14.45      | 13.72    | 12.95 | 16.00 | 25.40 | 28.58 | 51.44 | 27.69 | 2.03 | 11.30 | 13.72 | 21.08 | 3.97  | 49.21 | 38.10 |
| 16          | 15.92     | 15.96 | 19.00      | 19.18    | 20.45 | 22.10 | 33.32 | 38.10 | 68.33 | 37.21 | 3.04 | 12.95 | 14.61 | 25.40 | 6.35  | 61.91 | 45.97 |
| 20          | 19.92     | 19.96 | 24.08      | 20.57    | 22.61 | 24.38 | 33.32 | 38.10 | 68.33 | 37.21 | 3.04 | 13.46 | 15.11 | 25.40 | 6.35  | 61.91 | 45.97 |
| 25          | 24.92     | 24.96 | 30.94      | 28.83    | 30.48 | 32.51 | 33.32 | 38.10 | 76.45 | 46.48 | 3.04 | 20.32 | 21.97 | 33.53 | 6.35  | 71.45 | 57.15 |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



**Jergens**

SPECIALTY FASTENERS GROUP

**KWIK-LOK® PINS**

| Pin Dia                                        | Grip Length (inches)                              |        |        |        |        |        |        |        |        |        |        |        |
|------------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                | 0.5                                               | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| <b>PARTS</b>                                   | <b>Double Acting Ring Handle – Inch – MS17990</b> |        |        |        |        |        |        |        |        |        |        |        |
|                                                | 3/16                                              | 806200 | 806201 | 806202 | 806203 | 806204 | 806205 | 806206 | 806208 | 806209 | 806211 | 806213 |
|                                                | 1/4                                               | 806216 | 806217 | 806218 | 806219 | 806220 | 806221 | 806222 | 806224 | 806225 | 806227 | 806229 |
|                                                | 5/16                                              | 806232 | 806233 | 806234 | 806235 | 806236 | 806237 | 806238 | 806240 | 806241 | 806243 | 806245 |
|                                                | 3/8                                               | 806248 | 806249 | 806250 | 806251 | 806252 | 806253 | 806254 | 806256 | 806257 | 806259 | 806261 |
|                                                | 7/16                                              | 806264 | 806265 | 806266 | 806267 | 806268 | 806269 | 806270 | 806272 | 806273 | 806275 | 806277 |
|                                                | 1/2                                               | 806280 | 806281 | 806282 | 806283 | 806284 | 806285 | 806286 | 806288 | 806289 | 806291 | 806293 |
|                                                | 9/16                                              | 806296 | 806297 | 806298 | 806299 | 806300 | 806301 | 806302 | 806304 | 806305 | 806307 | 806309 |
|                                                | 5/8                                               | 806312 | 806313 | 806314 | 806315 | 806316 | 806317 | 806318 | 806320 | 806321 | 806323 | 806325 |
|                                                | 3/4                                               | 806328 | 806329 | 806330 | 806331 | 806332 | 806333 | 806334 | 806336 | 806337 | 806339 | 806341 |
|                                                | 7/8                                               | 806344 | 806345 | 806346 | 806347 | 806348 | 806349 | 806350 | 806352 | 806353 | 806355 | 806357 |
|                                                | 1                                                 | 806360 | 806361 | 806362 | 806363 | 806364 | 806365 | 806366 | 806368 | 806369 | 806371 | 806373 |
| <b>DOUBLE ACTING T-HANDLE – Inch – MS17988</b> | 3/16                                              | 803400 | 803401 | 803402 | 803403 | 803404 | 803405 | 803406 | 803408 | 803409 | 803411 | 803413 |
|                                                | 1/4                                               | 803416 | 803417 | 803418 | 803419 | 803420 | 803421 | 803422 | 803424 | 803425 | 803427 | 803429 |
|                                                | 5/16                                              | 803432 | 803433 | 803434 | 803435 | 803436 | 803437 | 803438 | 803440 | 803441 | 803443 | 803445 |
|                                                | 3/8                                               | 803448 | 803449 | 803450 | 803451 | 803452 | 803453 | 803454 | 803456 | 803457 | 803459 | 803461 |
|                                                | 7/16                                              | 803464 | 803465 | 803466 | 803467 | 803468 | 803469 | 803470 | 803472 | 803473 | 803475 | 803477 |
|                                                | 1/2                                               | 803480 | 803481 | 803482 | 803483 | 803484 | 803485 | 803486 | 803488 | 803489 | 803491 | 803493 |
|                                                | 9/16                                              | 803496 | 803497 | 803498 | 803499 | 803500 | 803501 | 803502 | 803504 | 803505 | 803507 | 803509 |
|                                                | 5/8                                               | 803512 | 803513 | 803514 | 803515 | 803516 | 803517 | 803518 | 803520 | 803521 | 803523 | 803525 |
|                                                | 3/4                                               | 803528 | 803529 | 803530 | 803531 | 803532 | 803533 | 803534 | 803536 | 803537 | 803539 | 803541 |
|                                                | 7/8                                               | 803544 | 803545 | 803546 | 803547 | 803548 | 803549 | 803550 | 803552 | 803553 | 803555 | 803557 |
|                                                | 1                                                 | 803560 | 803561 | 803562 | 803563 | 803564 | 803565 | 803566 | 803568 | 803569 | 803571 | 803573 |
| <b>DOUBLE ACTING L-HANDLE – Inch – MS17989</b> | 3/16                                              | 806000 | 806001 | 806002 | 806003 | 806004 | 806005 | 806006 | 806008 | 806009 | 806011 | 806013 |
|                                                | 1/4                                               | 806016 | 806017 | 806018 | 806019 | 806020 | 806021 | 806022 | 806024 | 806025 | 806027 | 806029 |
|                                                | 5/16                                              | 806032 | 806033 | 806034 | 806035 | 806036 | 806037 | 806038 | 806040 | 806041 | 806043 | 806045 |
|                                                | 3/8                                               | 806048 | 806049 | 806050 | 806051 | 806052 | 806053 | 806054 | 806056 | 806057 | 806059 | 806061 |
|                                                | 7/16                                              | 806064 | 806065 | 806066 | 806067 | 806068 | 806069 | 806070 | 806072 | 806073 | 806075 | 806077 |
|                                                | 1/2                                               | 806080 | 806081 | 806082 | 806083 | 806084 | 806085 | 806086 | 806088 | 806089 | 806091 | 806093 |
|                                                | 9/16                                              | 806096 | 806097 | 806098 | 806099 | 806100 | 806101 | 806102 | 806104 | 806105 | 806107 | 806109 |
|                                                | 5/8                                               | 806112 | 806113 | 806114 | 806115 | 806116 | 806117 | 806118 | 806120 | 806121 | 806123 | 806125 |
|                                                | 3/4                                               | 806128 | 806129 | 806130 | 806131 | 806132 | 806133 | 806134 | 806136 | 806137 | 806139 | 806141 |
|                                                | 7/8                                               | 806144 | 806145 | 806146 | 806147 | 806148 | 806149 | 806150 | 806152 | 806153 | 806155 | 806157 |
|                                                | 1                                                 | 806160 | 806161 | 806162 | 806163 | 806164 | 806165 | 806166 | 806168 | 806169 | 806171 | 806173 |

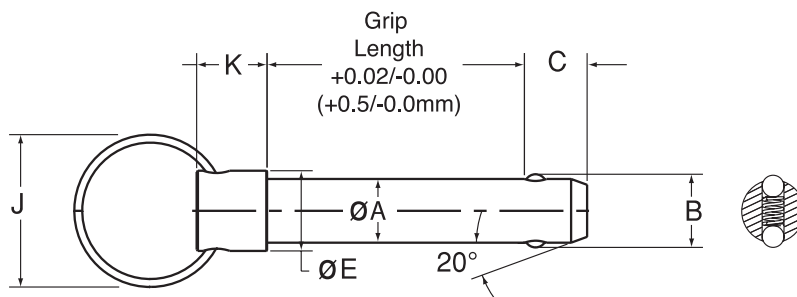
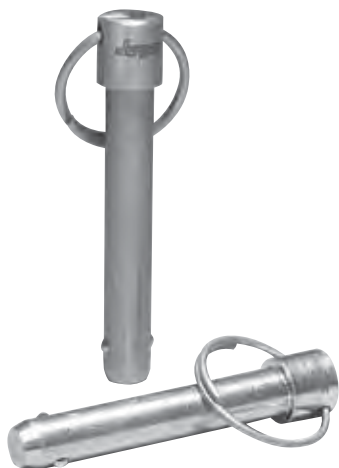
| Pin Dia      | Grip Length (mm)                          |        |        |        |        |        |        |        |        |        |        |        |
|--------------|-------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              | 10                                        | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| <b>PARTS</b> | <b>Double Acting Ring Handle – Metric</b> |        |        |        |        |        |        |        |        |        |        |        |
|              | 5                                         | 855000 | 855001 | 855002 | 855003 | 855004 | 855005 | 855006 | 855007 | 855008 | 855009 | 855010 |
|              | 6                                         | 855012 | 855013 | 855014 | 855015 | 855016 | 855017 | 855018 | 855019 | 855020 | 855021 | 855022 |
|              | 8                                         | 855024 | 855025 | 855026 | 855027 | 855028 | 855029 | 855030 | 855031 | 855032 | 855033 | 855034 |
|              | 10                                        | 855036 | 855037 | 855038 | 855039 | 855040 | 855041 | 855042 | 855043 | 855044 | 855045 | 855046 |
|              | 12                                        | 855048 | 855049 | 855050 | 855051 | 855052 | 855053 | 855054 | 855055 | 855056 | 855057 | 855058 |
|              | 16                                        | 855060 | 855061 | 855062 | 855063 | 855064 | 855065 | 855066 | 855067 | 855068 | 855069 | 855070 |
|              | 20                                        | 855072 | 855073 | 855074 | 855075 | 855076 | 855077 | 855078 | 855079 | 855080 | 855081 | 855082 |
|              | 25                                        | 855084 | 855085 | 855086 | 855087 | 855088 | 855089 | 855090 | 855091 | 855092 | 855093 | 855094 |
|              | <b>Double Acting T-Handle – Metric</b>    |        |        |        |        |        |        |        |        |        |        |        |
|              | 5                                         | 853400 | 853401 | 853402 | 853403 | 853404 | 853405 | 853406 | 853407 | 853408 | 853409 | 853410 |
|              | 6                                         | 853412 | 853413 | 853414 | 853415 | 853416 | 853417 | 853418 | 853419 | 853420 | 853421 | 853422 |
|              | 8                                         | 853424 | 853425 | 853426 | 853427 | 853428 | 853429 | 853430 | 853431 | 853432 | 853433 | 853434 |
|              | 10                                        | 853436 | 853437 | 853438 | 853439 | 853440 | 853441 | 853442 | 853443 | 853444 | 853445 | 853446 |
|              | 12                                        | 853448 | 853449 | 853450 | 853451 | 853452 | 853453 | 853454 | 853455 | 853456 | 853457 | 853458 |
|              | 16                                        | 853460 | 853461 | 853462 | 853463 | 853464 | 853465 | 853466 | 853467 | 853468 | 853469 | 853470 |
|              | 20                                        | 853472 | 853473 | 853474 | 853475 | 853476 | 853477 | 853478 | 853479 | 853480 | 853481 | 853482 |
|              | 25                                        | 853484 | 853485 | 853486 | 853487 | 853488 | 853489 | 853490 | 853491 | 853492 | 853493 | 853494 |
|              | <b>Double Acting L-Handle – Metric</b>    |        |        |        |        |        |        |        |        |        |        |        |
|              | 5                                         | 854600 | 854601 | 854602 | 854603 | 854604 | 854605 | 854606 | 854607 | 854608 | 854609 | 854610 |
|              | 6                                         | 854612 | 854613 | 854614 | 854615 | 854616 | 854617 | 854618 | 854619 | 854620 | 854621 | 854622 |
|              | 8                                         | 854624 | 854625 | 854626 | 854627 | 854628 | 854629 | 854630 | 854631 | 854632 | 854633 | 854634 |
|              | 10                                        | 854636 | 854637 | 854638 | 854639 | 854640 | 854641 | 854642 | 854643 | 854644 | 854645 | 854646 |
|              | 12                                        | 854648 | 854649 | 854650 | 854651 | 854652 | 854653 | 854654 | 854655 | 854656 | 854657 | 854658 |
|              | 16                                        | 854660 | 854661 | 854662 | 854663 | 854664 | 854665 | 854666 | 854667 | 854668 | 854669 | 854670 |
|              | 20                                        | 854672 | 854673 | 854674 | 854675 | 854676 | 854677 | 854678 | 854679 | 854680 | 854681 | 854682 |
|              | 25                                        | 854684 | 854685 | 854686 | 854687 | 854688 | 854689 | 854690 | 854691 | 854692 | 854693 | 854694 |

Contact customer service for special sizes & materials.

May be ordered with 4 locking balls for additional locking element tensile strength.



## Heavy Duty Detent Pins



The Heavy Duty Detent Kwik-Lok® Pin is a high quality shoulder style alignment pin for applications that don't require the positive locking ball feature.

- Heavy duty spring and 2 spring loaded stainless steel locking balls provide high pull out force
- Body 17-4 PH heat treated stainless steel
- Includes split ring for easy attachment of optional lanyard
- Handle is 303 S.S.

### Heavy Duty Detent Specifications – Inch

| Nom. Pin Dia | Dia. +0.000/-0.003 A | Min. B | +0.00/-0.06 C | Dia. +/-0.015 E | Dia. J | K   | Double Shear Strength – (lbs) | Pull Out Force (lbs) | Recommended Hole Diameter |        |
|--------------|----------------------|--------|---------------|-----------------|--------|-----|-------------------------------|----------------------|---------------------------|--------|
|              |                      |        |               |                 |        |     | Stainless 17-4 PH             |                      | Max                       | Min    |
| 3/16 (#10)   | .1885                | .200   | .250          | .375            | 1.187  | .50 | 5,262                         | 2 to 7               | 0.1940                    | 0.1900 |
| 1/4          | .2480                | .280   | .344          | .375            | 1.187  | .50 | 9,537                         | 2 to 7               | 0.2540                    | 0.2500 |
| 5/16         | .3105                | .360   | .359          | .438            | 1.187  | .50 | 15,075                        | 2 to 7               | 0.3165                    | 0.3125 |
| 3/8          | .3730                | .430   | .390          | .500            | 1.187  | .50 | 22,050                        | 6 to 14              | 0.3790                    | 0.3750 |
| 7/16         | .4355                | .495   | .469          | .625            | 1.187  | .55 | 30,438                        | 6 to 14              | 0.4425                    | 0.4375 |
| 1/2          | .4980                | .570   | .516          | .625            | 1.187  | .55 | 39,263                        | 10 to 22             | 0.5050                    | 0.5000 |
| 9/16         | .5605                | .645   | .593          | .625            | 1.687  | .55 | 49,731                        | 15 to 30             | 0.5675                    | 0.5625 |
| 5/8          | .6230                | .720   | .672          | .750            | 1.687  | .55 | 61,736                        | 15 to 30             | 0.6300                    | 0.6250 |
| 3/4          | .7480                | .860   | .750          | .875            | 1.687  | .55 | 88,442                        | 15 to 30             | 0.7570                    | 0.7500 |
| 7/8          | .8730                | 1.030  | .859          | 1.000           | 2.187  | .55 | 121,500                       | 20 to 35             | 0.8820                    | 0.8750 |
| 1            | .9980                | 1.160  | .984          | 1.125           | 2.187  | .55 | 158,998                       | 20 to 40             | 1.0100                    | 1.0000 |

### Heavy Duty Detent Specifications – Metric

| Nom. Pin Dia | Dia. +0.000/-0.080 A | Min. B | +0.0/-1.5 C | Dia. +/- 0.4 E | Dia. J | K    | Double Shear Strength – (kN) | Pull Out Force | Recommended Hole Diameter |     |
|--------------|----------------------|--------|-------------|----------------|--------|------|------------------------------|----------------|---------------------------|-----|
|              |                      |        |             |                |        |      | Stainless 17-4 PH            |                | Max                       | Min |
| 5            | 4.95                 | 5.23   | 6.35        | 9.53           | 30.15  | 12.7 | 25                           | 9 to 31        | 5.1                       | 5   |
| 6            | 5.95                 | 6.88   | 8.74        | 9.53           | 30.15  | 12.7 | 36                           | 9 to 31        | 6.1                       | 6   |
| 8            | 7.95                 | 9.35   | 9.12        | 11.13          | 30.15  | 12.7 | 69                           | 9 to 31        | 8.1                       | 8   |
| 10           | 9.95                 | 11.58  | 9.91        | 12.70          | 30.15  | 12.7 | 107                          | 26 to 62       | 10.1                      | 10  |
| 12           | 11.95                | 13.84  | 13.11       | 15.88          | 30.15  | 14.2 | 154                          | 44 to 97       | 12.1                      | 12  |
| 16           | 15.95                | 18.54  | 17.07       | 19.05          | 42.85  | 14.2 | 275                          | 66 to 133      | 16.1                      | 16  |
| 20           | 19.95                | 22.91  | 19.05       | 22.23          | 42.85  | 14.2 | 433                          | 89 to 155      | 20.15                     | 20  |
| 25           | 24.95                | 29.18  | 24.99       | 28.58          | 55.55  | 14.2 | 682                          | 89 to 178      | 25.15                     | 25  |

Dimensions in millimeters

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.



## Heavy Duty Detent Pins – Inch

Stainless Steel – Stainless Steel, 17-4 PH

| Pin Dia      |      | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |      | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      | 6      |
| PART NUMBERS | 3/16 | 804200           | 804201 | 804202 | 804203 | 804204 | 804205 | 804206 | 804208 | 804209 | 804211 | 804213 | 804215 |
|              | 1/4  | 804216           | 804217 | 804218 | 804219 | 804220 | 804221 | 804222 | 804224 | 804225 | 804227 | 804229 | 804231 |
|              | 5/16 | 804232           | 804233 | 804234 | 804235 | 804236 | 804237 | 804238 | 804240 | 804241 | 804243 | 804245 | 804247 |
|              | 3/8  | 804248           | 804249 | 804250 | 804251 | 804252 | 804253 | 804254 | 804256 | 804257 | 804259 | 804261 | 804263 |
|              | 7/16 | 804264           | 804265 | 804266 | 804267 | 804268 | 804269 | 804270 | 804272 | 804273 | 804275 | 804277 | 804279 |
|              | 1/2  | 804280           | 804281 | 804282 | 804283 | 804284 | 804285 | 804286 | 804288 | 804289 | 804291 | 804293 | 804295 |
|              | 9/16 | 804296           | 804297 | 804298 | 804299 | 804300 | 804301 | 804302 | 804304 | 804305 | 804307 | 804309 | 804311 |
|              | 5/8  | 804312           | 804313 | 804314 | 804315 | 804316 | 804317 | 804318 | 804320 | 804321 | 804323 | 804325 | 804327 |
|              | 3/4  | 804328           | 804329 | 804330 | 804331 | 804332 | 804333 | 804334 | 804336 | 804337 | 804339 | 804341 | 804343 |
|              | 7/8  | 804344           | 804345 | 804346 | 804347 | 804348 | 804349 | 804350 | 804352 | 804353 | 804355 | 804357 | 804359 |
|              | 1    | 804360           | 804361 | 804362 | 804363 | 804364 | 804365 | 804366 | 804368 | 804369 | 804371 | 804373 | 804375 |

## Heavy Duty Detent Pins – Metric

Stainless Steel – Stainless Steel, 17-4 PH

|              |    | Grip Length (Metric) |        |        |        |        |        |        |        |        |        |        |        |
|--------------|----|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|              |    | 10                   | 15     | 20     | 25     | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    |
| PART NUMBERS | 5  | 854000               | 854001 | 854002 | 854003 | 854004 | 854005 | 854006 | 854007 | 854008 | 854009 | 854010 | 854011 |
|              | 6  | 854012               | 854013 | 854014 | 854015 | 854016 | 854017 | 854018 | 854019 | 854020 | 854021 | 854022 | 854023 |
|              | 8  | 854024               | 854025 | 854026 | 854027 | 854028 | 854029 | 854030 | 854031 | 854032 | 854033 | 854034 | 854035 |
|              | 10 | 854036               | 854037 | 854038 | 854039 | 854040 | 854041 | 854042 | 854043 | 854044 | 854045 | 854046 | 854047 |
|              | 12 | 854048               | 854049 | 854050 | 854051 | 854052 | 854053 | 854054 | 854055 | 854056 | 854057 | 854058 | 854059 |
|              | 16 | 854060               | 854061 | 854062 | 854063 | 854064 | 854065 | 854066 | 854067 | 854068 | 854069 | 854070 | 854071 |
|              | 20 | 854072               | 854073 | 854074 | 854075 | 854076 | 854077 | 854078 | 854079 | 854080 | 854081 | 854082 | 854083 |
|              | 25 | 854084               | 854085 | 854086 | 854087 | 854088 | 854089 | 854090 | 854091 | 854092 | 854093 | 854094 | 854095 |

Contact customer service for special sizes, materials or mil-spec (MIL-P-45952/1).



# Jergens KWIK-LOK®

## MARINE PINS



## Jergens Kwik-Lok® Release Pins for Marine Applications

The most corrosive resistant pin for the most harsh, marine environments. Available in Ring Handle, Recessed Button Handle and Heavy Duty Detent styles. Pin styles that are ideal for applications that require a tight clearance, safe actuation and high pull out force.

- The Ring-Handle Marine Pin is designed for applications which require a small clearance area around the pin.
- The Recessed Button Handle Marine Pin design helps prevent accidental actuation of the pin.
- The Heavy Duty Detent Pin provides a high pull out force with its heavy duty spring and locking balls.
- The Marine Pin's Stainless Steel handles withstand tough environmental conditions.

| Component Part | Material                                         |
|----------------|--------------------------------------------------|
| Handle         | 300 Series Stainless Steel                       |
| Button         | 300 Series Stainless Steel                       |
| Body           | Recessed & Ring Handle - 17-4 PH Stainless Steel |
|                | Heavy Duty Detent - 300 Series Stainless Steel   |
| Spindle        | 17-4 PH Stainless Steel                          |
| Spring         | 300 Series Stainless Steel                       |
| Balls          | 300 Series Stainless Steel                       |

| Pin Dia (in) | Double Shear Resistance Minimum (lbs) |                   |
|--------------|---------------------------------------|-------------------|
|              | Recessed & Ring Handle                | Heavy Duty Detent |
| 3/16         | 5,150                                 | 2,530             |
| 1/4          | 9,200                                 | 4,500             |
| 5/16         | 14,400                                | 7,100             |
| 3/8          | 20,700                                | 10,300            |
| 1/2          | 36,900                                | 18,400            |
| 5/8          | 57,800                                | 28,900            |
| 3/4          | 83,200                                | 41,800            |

Lanyards available upon request.

All Jergens Kwik-lok® pins are manufactured in the USA and are MS, NAS, DFARS, QLSM and RoHS compliant. ISO 9001:2008

WORKHOLDING SOLUTIONS | SPECIALTY FASTENERS | LIFTING SOLUTIONS

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**Jergens®**  
MANUFACTURING EFFICIENCY

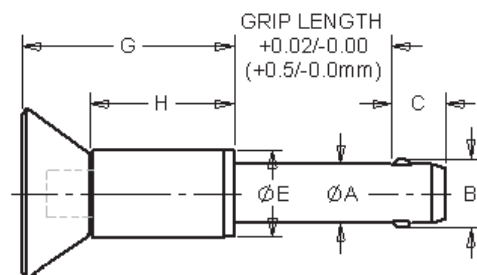
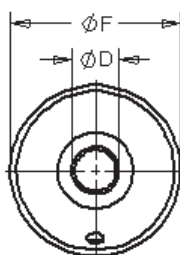
May be ordered with 4 locking balls for additional locking element tensile strength.



## Kwik-Lok® Marine Pins Recessed Button Handle



- The Recessed Button Handle Kwik-Lok® Pin design helps prevent accidental actuation of the pin.
- Handle and button made from 303 Series Stainless Steel.
- Body is made from high Strength Stainless Steel, 17-4 PH heat treated.
- Includes hole for easy attachment of optional lanyard or ring.
- 300 Series Stainless Steel Balls



### Recessed Button Handle Marine Pin Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F +/- .020 | G +/- .020 | H +/- .020 |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|------------|------------|------------|
| 3/16 | 0.1870 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.310 | 0.530 | 0.800      | 0.990      | 0.710      |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.310 | 0.530 | 0.800      | 0.990      | 0.710      |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.410 | 0.590 | 0.800      | 1.050      | 0.780      |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.450 | 0.650 | 1.090      | 1.375      | 0.930      |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.600 | 0.800 | 1.040      | 1.320      | 0.930      |

| Pin Dia             | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |
|---------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      |
| <b>PART NUMBERS</b> |                  |        |        |        |        |        |        |        |        |        |        |
| 3/16                | 883000           | 883001 | 883002 | 883003 | 883004 | 883005 | 883006 | 883008 | 883009 | –      | –      |
| 1/4                 | 883016           | 883017 | 883018 | 883019 | 883020 | 883021 | 883022 | 883024 | 883025 | 883027 | –      |
| 5/16                | 883032           | 883033 | 883034 | 883035 | 883036 | 883037 | 883038 | 883040 | 883041 | 883043 | –      |
| 3/8                 | 883048           | 883049 | 883050 | 883051 | 883052 | 883053 | 883054 | 883056 | 883057 | 883059 | 883061 |
| 1/2                 | 883080           | 883081 | 883082 | 883083 | 883084 | 883085 | 883086 | 883088 | 883089 | 883091 | 883093 |

Contact customer service for other sizes.

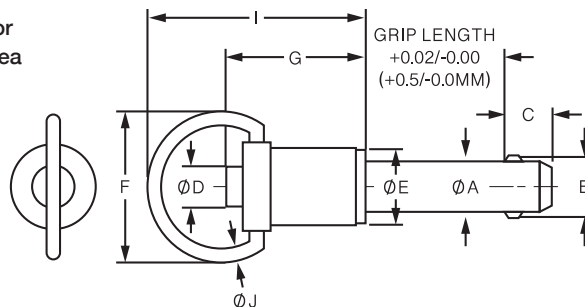
May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer “C” dimensions upon request.



## Kwik-Lok® Marine Pins Ring-Handle



- The Ring-Handle Kwik-Lok® Pin is designed for applications which require small clearance area around the pin.
- 303 Series Stainless steel handle and button for tough environment with stainless button.
- Pin body: Heat Treated 17-4 PH Stainless Steel.
- Ring allows for easy attachment of optional lanyard.
- 300 Series Stainless Steel Balls



### Ring-Handle Marine Pin Specifications – Inch

| DIA  | A MIN  | A MAX  | B +/- .005 | C +0.00 / -0.04 | D MIN | D MAX | E MIN | E MAX | F MIN | G MIN | G MAX | I MAX | J MIN |
|------|--------|--------|------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3/16 | 0.1875 | 0.1885 | 0.220      | 0.260           | 0.250 | 0.310 | 0.310 | 0.530 | 1.060 | 0.730 | 1.490 | 1.450 | 0.080 |
| 1/4  | 0.2470 | 0.2485 | 0.289      | 0.290           | 0.250 | 0.310 | 0.310 | 0.530 | 1.060 | 0.780 | 1.490 | 1.500 | 0.080 |
| 5/16 | 0.3095 | 0.3110 | 0.375      | 0.330           | 0.250 | 0.310 | 0.410 | 0.590 | 1.060 | 0.830 | 1.490 | 1.650 | 0.080 |
| 3/8  | 0.3720 | 0.3735 | 0.440      | 0.365           | 0.300 | 0.390 | 0.450 | 0.650 | 1.060 | 0.940 | 1.490 | 1.650 | 0.080 |
| 1/2  | 0.4970 | 0.4985 | 0.594      | 0.460           | 0.435 | 0.565 | 0.600 | 0.800 | 1.160 | 1.140 | 1.580 | 1.850 | 0.080 |
| 5/8  | 0.6220 | 0.6235 | 0.750      | 0.580           | 0.450 | 0.580 | 0.750 | 0.905 | 1.240 | 1.400 | 1.840 | 2.250 | 0.120 |
| 3/4  | 0.7470 | 0.7485 | 0.887      | 0.670           | 0.570 | 0.700 | 0.865 | 1.045 | 1.640 | 1.625 | 1.990 | 2.650 | 0.120 |

| Pin Dia | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |
|---------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|         | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      |
| 3/16    | 880200           | 880201 | 880202 | 880203 | 880204 | 880205 | 880206 | 880208 | 880209 | –      | –      |
| 1/4     | 880216           | 880217 | 880218 | 880219 | 880220 | 880221 | 880222 | 880224 | 880225 | 880227 | –      |
| 5/16    | 880232           | 880233 | 880234 | 880235 | 880236 | 880237 | 880238 | 880240 | 880241 | 880243 | –      |
| 3/8     | 880248           | 880249 | 880250 | 880251 | 880252 | 880253 | 880254 | 880256 | 880257 | 880259 | 880261 |
| 1/2     | 880280           | 880281 | 880282 | 880283 | 880284 | 880285 | 880286 | 880288 | 880289 | 880291 | 880293 |
| 5/8     | 880312           | 880313 | 880314 | 880315 | 880316 | 880317 | 880318 | 880320 | 880321 | 880323 | 880325 |
| 3/4     | 880328           | 880329 | 880330 | 880331 | 880332 | 880333 | 880334 | 880336 | 880337 | 880339 | 880341 |

Contact customer service for other sizes.

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer “C” dimensions upon request.

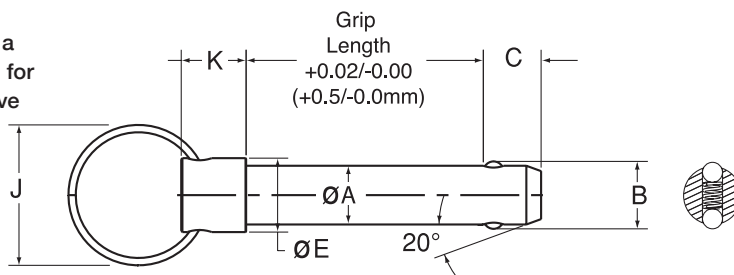


## Kwik-Lok® Marine Pins Heavy Duty Detent



The Heavy Duty Detent Kwik-Lok® Pin is a high quality shoulder style alignment pin for applications that don't require the positive locking ball feature.

- Heavy duty spring and 2 spring loaded stainless steel locking balls provide high pull out force
- Includes split ring for easy attachment of optional lanyard
- 300 Series Stainless steel handle and body



### Heavy Duty Detent Specifications – Inch

| DIA        | A<br>+0.00 / -0.003 | B MIN | C<br>+0.00 / -0.06 | E DIA<br>+/-0.15 / -0.04 | J DIA | K    | Double Shear<br>Strength - (lbs)<br>Stainless 17-4 PH | Pull Out<br>Force (lbs) | Recommended<br>Hole Dia |        |
|------------|---------------------|-------|--------------------|--------------------------|-------|------|-------------------------------------------------------|-------------------------|-------------------------|--------|
|            |                     |       |                    |                          |       |      |                                                       |                         | MAX                     | MIN    |
| 3/16 (#10) | 0.1885              | 0.200 | 0.250              | 0.375                    | 1.187 | 0.50 | 5,262                                                 | 2 to 7                  | 0.1940                  | 0.1900 |
| 1/4        | 0.2480              | 0.280 | 0.344              | 0.375                    | 1.187 | 0.50 | 9,537                                                 | 2 to 7                  | 0.2540                  | 0.2500 |
| 5/16       | 0.3105              | 0.360 | 0.359              | 0.438                    | 1.187 | 0.50 | 15,075                                                | 2 to 7                  | 0.3165                  | 0.3125 |
| 3/8        | 0.3730              | 0.430 | 0.390              | 0.500                    | 1.187 | 0.50 | 22,050                                                | 6 to 14                 | 0.3790                  | 0.3750 |
| 1/2        | 0.4980              | 0.570 | 0.516              | 0.625                    | 1.187 | 0.55 | 39,263                                                | 10 to 22                | 0.5050                  | 0.5000 |
| 5/8        | 0.6230              | 0.720 | 0.672              | 0.750                    | 1.687 | 0.55 | 61,736                                                | 15 to 30                | 0.6300                  | 0.6250 |
| 3/4        | 0.7480              | 0.860 | 0.750              | 0.875                    | 1.687 | 0.55 | 88,442                                                | 15 to 30                | 0.7570                  | 0.7500 |

| Pin Dia         | Grip Length (In) |        |        |        |        |        |        |        |        |        |        |
|-----------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | 0.5              | 0.75   | 1      | 1.25   | 1.5    | 1.75   | 2      | 2.5    | 3      | 4      | 5      |
| PART<br>NUMBERS | 3/16             | 883800 | 883801 | 883802 | 883803 | 883804 | 883805 | 883806 | 883808 | 883809 | -      |
|                 | 1/4              | 883816 | 883817 | 883818 | 883819 | 883820 | 883821 | 883822 | 883824 | 883825 | 883827 |
|                 | 5/16             | 883832 | 883833 | 883834 | 883835 | 883836 | 883837 | 883838 | 883840 | 883841 | 883843 |
|                 | 3/8              | 883848 | 883849 | 883850 | 883851 | 883852 | 883853 | 883854 | 883856 | 883857 | 883859 |
|                 | 1/2              | 883880 | 883881 | 883882 | 883883 | 883884 | 883885 | 883886 | 883888 | 883889 | 883891 |
|                 | 5/8              | 883912 | 883913 | 883914 | 883915 | 883916 | 883917 | 883918 | 883920 | 883921 | 883923 |
|                 | 3/4              | 883928 | 883929 | 883930 | 883931 | 883932 | 883933 | 883934 | 883936 | 883937 | 883939 |

Contact customer service for other sizes.

May be ordered with 4 locking balls for additional locking element tensile strength.  
Special Materials, grip length and longer "C" dimensions upon request.

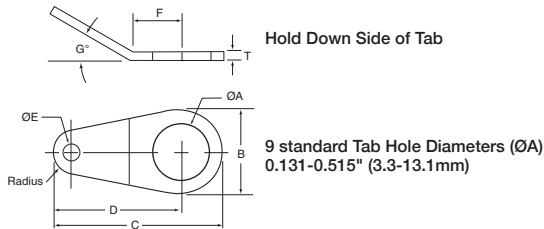


## Lanyard Specifications & Styles

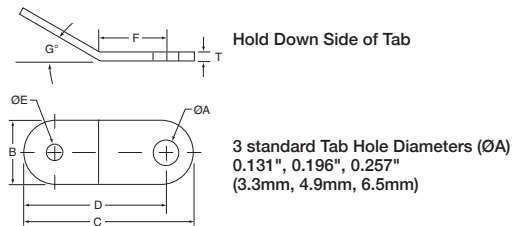
### Lanyard Specifications:

- 302/304 Stainless Steel cable, 1/16" (1.59 mm), with green nylon jacket, 1/8" (3.18 mm), meets Mil-DTL-83420
- Other cable diameters, other jacket colors (blue, black, clear) and special configuration styles by special order.

### Stainless Steel Round Tab



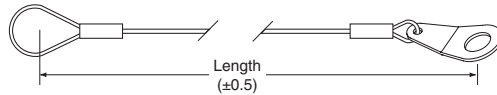
### Aluminum Oval Tab



Consult Table 1, Page 27 for Options.

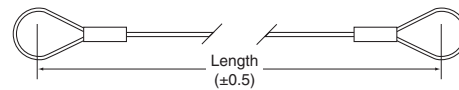
### Standard (W/Tab)

(Fig. 1)



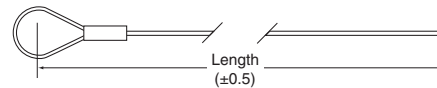
### Standard (2 Loops)

(Fig. 2)



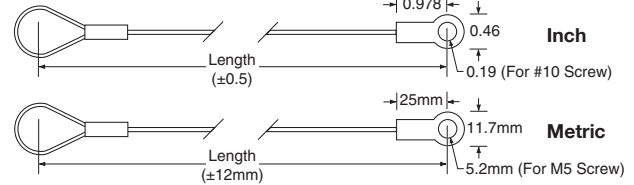
### Standard (1 Loop)

(Fig. 3)



### Loop/Eyelet, Stainless Steel

(Fig. 4)



### Tab Dimensions – Inch

| Tab Style | ±0.005<br>ØA | ±0.01<br>B | ±0.02<br>C | ±0.02<br>D | ±0.005<br>ØE | ±0.016<br>Radius | ±0.01<br>F | ± 5 deg.<br>G | ±0.01<br>T | Material                |
|-----------|--------------|------------|------------|------------|--------------|------------------|------------|---------------|------------|-------------------------|
| Round Tab | See Table 1  | 0.688      | 1.316      | 1.004      | 0.125        | 0.160            | 0.406      | 12            | 0.060      | 300 Series Stain. Steel |
| Oval Tab  | See Table 1  | 0.375      | 1.130      | 0.945      | 0.125        | —                | 0.500      | 12            | 0.060      | Aluminum                |



Lanyards are not weight bearing, they are only meant to support the weight of the pins-rated only @ 100 lbs.



## Ordering Lanyards Attached to Pins

**Lanyard with a Tab (Fig. 1)**

| Length |     | Round Tab       | Oval Tab  |
|--------|-----|-----------------|-----------|
|        |     | Stainless Steel | Aluminum  |
| 4      | 102 | (Pin#) A*       | (Pin#) M* |
| 6      | 152 | B*              | N*        |
| 8      | 203 | C*              | P*        |
| 10     | 254 | D*              | Q*        |
| 12     | 305 | H*              | R*        |
| 16     | 406 | J*              | S*        |
| 20     | 508 | K*              | T*        |
| 24     | 610 | L*              | U*        |

Substitute the asterisk (\*) with the proper hole size letter from Table 1.

**Table 1 Tab Hole Size**

| Tab Mounting Hole Diameter |                   |             |
|----------------------------|-------------------|-------------|
| Inch                       | mm                | Size Letter |
| 0.131                      | 3.3               | P           |
| 0.196                      | 4.9               | Q           |
| 0.257                      | 6.5               | R           |
| 0.283 <sup>†</sup>         | 7.1 <sup>†</sup>  | S           |
| 0.320 <sup>†</sup>         | 8.1 <sup>†</sup>  | T           |
| 0.379 <sup>†</sup>         | 9.6 <sup>†</sup>  | U           |
| 0.406 <sup>†</sup>         | 10.3 <sup>†</sup> | V           |
| 0.468 <sup>†</sup>         | 11.8 <sup>†</sup> | W           |
| 0.515 <sup>†</sup>         | 13.1 <sup>†</sup> | Y           |

(†) These sizes only available in stainless steel round tabs

**Lanyard without a Tab**

| Length |     | 2 Loops  | 1 Loops (Pin) |
|--------|-----|----------|---------------|
|        |     | (Fig. 2) | (Fig. 3)      |
| 4      | 102 | (Pin#)EA | (Pin#)FA      |
| 6      | 152 | EB       | FB            |
| 8      | 203 | EC       | FC            |
| 10     | 254 | ED       | FD            |
| 12     | 305 | EE       | FE            |
| 16     | 406 | EF       | FF            |
| 20     | 508 | EG       | FG            |
| 24     | 610 | EH       | FH            |

**Lanyard Loop/Eyelet (Fig. 4)**

| For Screw Size |          |
|----------------|----------|
| #10            | M5       |
| (Pin#)GA       | (Pin#)HA |
| GB             | HB       |
| GC             | HC       |
| GD             | HD       |
| GE             | HE       |
| GF             | HF       |
| GG             | HG       |
| GH             | HH       |

### Part Numbering:

#### Lanyards with Tab, attached to Pins

To order Kwik-Lok® pins with attached lanyard and tab (fig. 1), photo on page 26. Specify the six digit pin number followed by two letters from the tables above to define the lanyard length, type of lanyard and tab mounting hole diameter. The first letter designates the length of the lanyard and the type of Tab. The second letter (from table 1) designates the size of the hole in the tab for the mounting screw.

**Example A:** For an Aluminum T-Handle with stainless steel pin body 1/2" x 1.0", with an attached 8" Lanyard and Round Stainless Steel Tab with a mounting hole diameter of 0.257" (6.5 mm), the part number is 801082CR.

#### Lanyards with 2 loops, 1 loop, or loop/eyelet

To order Kwik-Lok® pins with lanyard and 2 loops (fig. 2), 1 loop (fig. 3) or loop/eyelet (fig. 4), specify the six digit pin number followed by a two letter combination from above to define lanyard length, number of loops or loop/eyelet with mounting screw size.

**Example B:** For all Stainless Steel L Handle Pin, 1"x 6", with attached 24" (610 mm) lanyard and 2 Loops, the part number is 805775EH.

**Example C:** For all Stainless Steel Button Handle Pin, 6 x 40 mm, with attached 10" (254 mm) lanyard and Loop/Eyelet for M5 screws, the part number is 855417HD.

Note: Split rings are not included when attaching lanyards, unless customer specified. In that case add an R as a third letter to the extension.

## Ordering Lanyards When Supplied Separately Without Pins

**Lanyards with Tabs (Fig. 1)**

| Length |     | Round Tab       | Oval Tab |
|--------|-----|-----------------|----------|
|        |     | Stainless Steel | Aluminum |
| 4      | 102 | 890054*         | 890104*  |
| 6      | 152 | 890056*         | 890106*  |
| 8      | 203 | 890058*         | 890108*  |
| 10     | 254 | 890060*         | 890110*  |
| 12     | 305 | 890062*         | 890112*  |
| 16     | 406 | 890066*         | 890116*  |
| 20     | 508 | 890070*         | 890120*  |
| 24     | 610 | 890074*         | 890124*  |

Substitute the asterisk (\*) with the proper hole size letter from Table 1.

**Table 1 Tab Hole Size**

| Tab Mounting Hole Diameter |                   |             |
|----------------------------|-------------------|-------------|
| Inch                       | mm                | Size Letter |
| 0.131                      | 3.3               | P           |
| 0.196                      | 4.9               | Q           |
| 0.257                      | 6.5               | R           |
| 0.283 <sup>†</sup>         | 7.1 <sup>†</sup>  | S           |
| 0.320 <sup>†</sup>         | 8.1 <sup>†</sup>  | T           |
| 0.379 <sup>†</sup>         | 9.6 <sup>†</sup>  | U           |
| 0.406 <sup>†</sup>         | 10.3 <sup>†</sup> | V           |
| 0.468 <sup>†</sup>         | 11.8 <sup>†</sup> | W           |
| 0.515 <sup>†</sup>         | 13.1 <sup>†</sup> | Y           |

(†) These sizes only available in stainless steel round tabs

**Lanyards without Tabs**

| Length |     | 2 Loops  | 1 Loops (Pin) |
|--------|-----|----------|---------------|
|        |     | (Fig. 2) | (Fig. 3)      |
| 4      | 102 | 890204   | 890254        |
| 6      | 152 | 890206   | 890256        |
| 8      | 203 | 890208   | 890258        |
| 10     | 254 | 890210   | 890260        |
| 12     | 305 | 890212   | 890262        |
| 16     | 406 | 890216   | 890266        |
| 20     | 508 | 890220   | 890270        |
| 24     | 610 | 890224   | 890274        |

**Lanyard Loop/Eyelet (Fig. 4)**

| For Screw Size |        |
|----------------|--------|
| #10            | M5     |
| 890304         | 890404 |
| 890306         | 890406 |
| 890308         | 890408 |
| 890310         | 890410 |
| 890312         | 890412 |
| 890316         | 890416 |
| 890320         | 890420 |
| 890324         | 890424 |

### Part Numbering: Lanyards to be Supplied Separately

For lanyards with tabs, ordered separately without pins (photo page 26), specify the six digit pin number followed by the hole size letter from Table 1.

**Example D:** For a 24" (610 mm) lanyard with stainless steel round tab with a mounting hole diameter of 0.406" (10.3 mm), the part number is 890074V.



## Kwik-Lok® Pin Specifications

### Kwik-Lok® Pin Specifications – Inch

| Pin Dia (in) | Double Shear Resistance Minimum (lbs)* | 2 Ball Locking Element Tensile Strength Min (lbs)† | Recommended Hole Diameter (in) |        |
|--------------|----------------------------------------|----------------------------------------------------|--------------------------------|--------|
|              | Stainless Steel 17-4 PH Heat Treated   |                                                    | Max                            | Min    |
| 3/16 (#10)   | 5,150                                  | 200                                                | 0.1940                         | 0.1900 |
| 1/4          | 9,200                                  | 230                                                | 0.2540                         | 0.2500 |
| 5/16         | 14,400                                 | 510                                                | 0.3165                         | 0.3125 |
| 3/8          | 20,700                                 | 575                                                | 0.3790                         | 0.3750 |
| 7/16         | 28,500                                 | 710                                                | 0.4425                         | 0.4375 |
| 1/2          | 36,900                                 | 1,160                                              | 0.5050                         | 0.5000 |
| 9/16         | 46,700                                 | 1,420                                              | 0.5675                         | 0.5625 |
| 5/8          | 57,800                                 | 2,070                                              | 0.6300                         | 0.6250 |
| 3/4          | 83,200                                 | 2,950                                              | 0.7570                         | 0.7500 |
| 7/8          | 112,500                                | 3,900                                              | 0.8820                         | 0.8750 |
| 1            | 147,200                                | 5,480                                              | 1.0100                         | 1.0000 |

### Kwik-Lok® Pin Specifications – Metric

| Pin Dia (mm) | Double Shear Resistance Minimum (kN)* | 2 Ball Locking Element Tensile Strength Min (N)† | Recommended Hole Diameter (mm) |     |
|--------------|---------------------------------------|--------------------------------------------------|--------------------------------|-----|
|              | Stainless Steel 17-4 PH Heat Treated  |                                                  | Max                            | Min |
| 5            | 24                                    | 890                                              | 5.1                            | 5   |
| 6            | 35                                    | 890                                              | 6.1                            | 6   |
| 8            | 65                                    | 2,250                                            | 8.1                            | 8   |
| 10           | 100                                   | 2,280                                            | 10.1                           | 10  |
| 12           | 144                                   | 3,150                                            | 12.1                           | 12  |
| 16           | 257                                   | 9,200                                            | 16.1                           | 16  |
| 20           | 403                                   | 13,100                                           | 20.15                          | 20  |
| 25           | 631                                   | 23,400                                           | 25.15                          | 25  |

\* Double shear values are the minimum requirements according to NAS functionality tests.

† Locking element tensile strength values are the minimum requirements of NAS functionality tests. Pins may be special ordered with 4 locking balls for additional locking element tensile strength.

## Military Specifications(MS) & National Aerospace Standards(NASM)

Jergens is a Department of Defense approved supplier of Quick Release Pins, under CAGE code 94882.

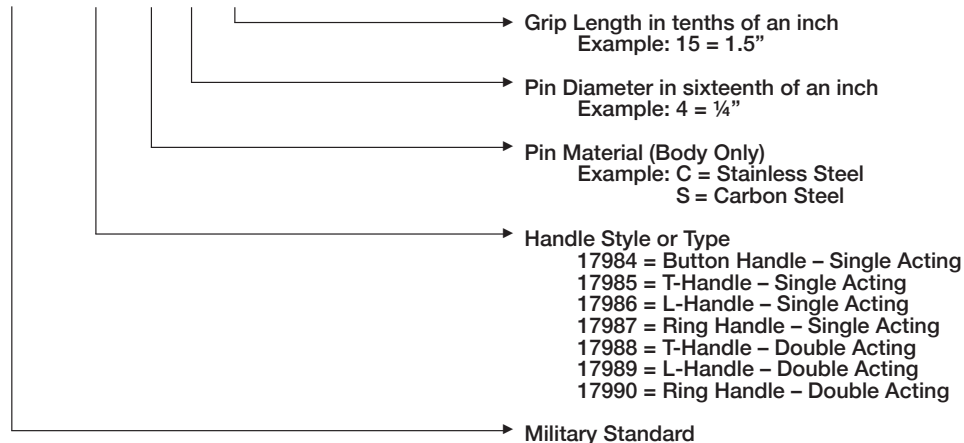
Certificate of Conformance is available upon request at time of order.

DFARS compliant material can be quoted upon request.

NAS Number 1333-1346 and 1353-1366 are available.

MS Numbers 17984-90 now refer to NASM 17984-17990.

MS 17984 C 4 15



Special Military and Aerospace size and configurations are available. Please contact customer service 1-866-KWIK-LOK (594-5565).



## Material Specifications

### Kwik-Lok® Pin

| Component Part           | Material                                            |
|--------------------------|-----------------------------------------------------|
| Bodies (Shank)           | CRES 17-4 PH Stainless Steel                        |
| Balls                    | CRES 440C Stainless Steel*                          |
| Buttons                  | CRES 17-4 PH Stainless Steel<br>Aluminum Alloy 2024 |
| Springs                  | CRES 302 Stainless Steel                            |
| Handles                  |                                                     |
| T & L Handles            | Aluminum (380) Casting                              |
| Button Handles           | Aluminum Alloy 2024                                 |
| Ring Handles             | CRES 303 Stainless Steel                            |
| Heavy Duty T & L         | CRES 303 Stainless Steel                            |
| Heavy Duty Button Handle | CRES 303 Stainless Steel                            |
| Recessed Button Handle   | CRES 300 Series Stainless Steel                     |
| Collar                   | CRES 303 or 304 Stainless Steel                     |

### Kwik-Lok® Lifting Pin

| Component Part | Material                                  |
|----------------|-------------------------------------------|
| Bodies (Shank) | CRES 17-4 PH Heat Treated Stainless Steel |
| Balls          | CRES 440C Stainless Steel*                |
| Buttons        | CRES 303 Stainless Steel                  |
| Lift Ring      | Forged 17-4 PH Stainless Steel            |
| Springs        | CRES 302 Stainless Steel                  |

### Detent Pins

| Component Part | Material                     |
|----------------|------------------------------|
| Bodies (Shank) | CRES 17-4 PH Stainless Steel |
| Balls          | CRES 440C Stainless Steel*   |
| Springs        | CRES 302 Stainless Steel     |
| Head           | CRES 303 Stainless Steel     |

\* Actual locking element tensile strength is reduced by lower strength alloys.  
Ordering special pins with 4 balls will increase locking element tensile strength above NAS functionality test requirements.

### Heat Treatment:

- 17-4 PH Stainless Steel: Condition H-900, Rockwell C40 Min per MIL-H-6875

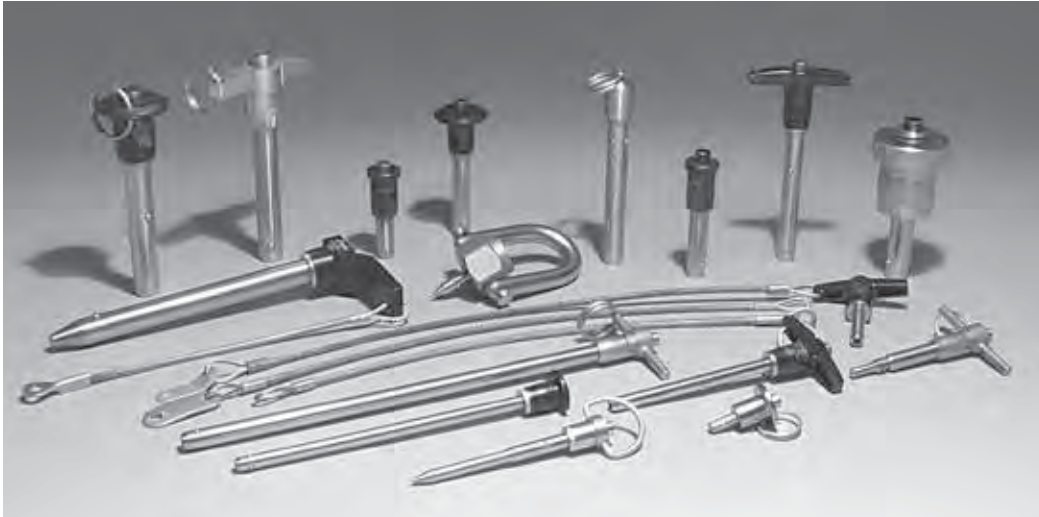
### Surface Treatment:

- CRES Parts: Passivate per AMS-QQ-P-35
- Aluminum Alloy Parts: Anodize per MIL-A-8625 Type I or II per MIL-C-5541 Class 1A
- Aluminum Handles: Color Black

Jergens Kwik-Lok® Pins are designed and manufactured to meet or exceed these standards.



## Kwik-Lok® Pin Special Application Information



### Special Kwik-Lok® Pins

If you don't see the exact Kwik-Lok® Pin to meet your application requirements, photocopy the form below, indicate your requirements, and send to Jergens.

### Quotation Request Worksheet (online at [www.jergensinc.com/tools/pins\\_rfq.aspx](http://www.jergensinc.com/tools/pins_rfq.aspx))

|  |  |                                                                                         |
|--|--|-----------------------------------------------------------------------------------------|
|  |  | <p>1. Pin Diameter _____</p> <p>2. Grip Length _____</p> <p>3. Overall Length _____</p> |
|--|--|-----------------------------------------------------------------------------------------|

\*For special Shank/Lanyard configurations – Please provide drawing or sketch.

Application (describe): \_\_\_\_\_

Handle Style: ☐ T ☐ L ☐ Ring ☐ Button ☐ Recessed Button ☐ Kwik-Lok® Lifting Pins ☐ Special \_\_\_\_\_

Body Material: ☐ 17-4 PH heat treated Stainless Steel ☐ Other (describe) \_\_\_\_\_

Number of Locking Elements: ☐ 2 balls(standard) ☐ 4 balls Attach Split Ring? \_\_\_\_\_ (yes/no)

\*Lanyard Length: \_\_\_\_\_ (inch or mm) SS cable with nylon color \_\_\_\_\_ (Green,Black,Clear or other)

Attach Lanyard directly to Pin without split ring? \_\_\_\_\_ (yes/no) Attach to Split Ring? \_\_\_\_\_ (yes/no)

Tabs: ☐ Round (Stainless Steel) ☐ Oval (Aluminum) Mounting Hole Size \_\_\_\_\_ (inch or mm)

Loop/Eyelet (Stainless Steel) with Mounting Hole: ☐ 0.19" for #10 screw ☐ 5.2mm for M5 screw

Quantity Required: \_\_\_\_\_ (pieces) Request date: \_\_\_\_\_ Annual Requirements \_\_\_\_\_ (pieces)

NAME: \_\_\_\_\_ POSITION/TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ COUNTRY: \_\_\_\_\_ POSTAL CODE: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

# SPRING LOADED DEVICES

## Spring Loaded Devices

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## Jergens Spring & Ball Plungers Last Longer

...And Here's Why!

### Spring Plungers

Spring Plunger tips are manufactured using case hardened steel. This means they have a protective shell, about .10" deep.

Jergens Spring and Ball Plungers have accurate end forces, are easy to install, and are competitively priced. They are manufactured in the U.S.A. in a ISO 9001:2015 certified quality system.

And if these aren't enough reasons to specify Jergens Spring and Ball Plungers, here are a few more:

### Better Point of Contact

The Jergens plungers are turned and the tips generated in one smooth continuing process. This results in a constant radius tip, perfectly tangent to the point where the tip joins the shaft. Conventional two step, turn and grind operations, can leave ridges on the shaft at the tip junction and can also produce out-of-round tips. These, in turn, can gouge or score finely finished parts or can cause detent cams to hang up or stick.

### Extra Length Springs for Longer Life

The longer the spring, the longer its life. Jergens goes to extra lengths to minimize the thickness of the base flanges on all of its plungers. That allows us to use longer springs with less chance for fatigue and breakage.

### Improved Plunger to Body Alignment

The long base flange allows for a larger bearing surface. This means improved plunger-to-body alignment, truer travel, and much improved side load characteristics.

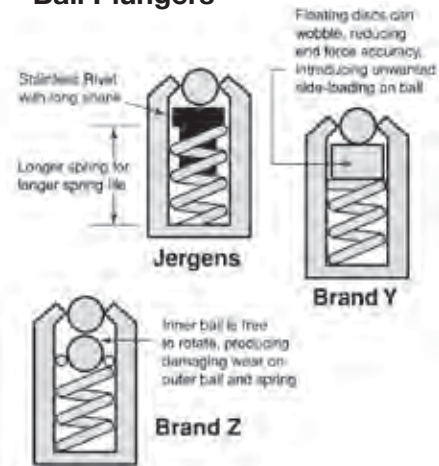
### Tighter Fit Resists Contamination

Closer machining tolerances, minimum plunger-to-body clearance, and smoother plunger finish make Jergens plungers fit more snugly in the plunger bore. This improves plunger alignment and provides extra resistance to contaminant entry. The results: dirt and grit cannot get to the bearing surfaces to shorten the life of the plunger.

### Better Plunger Adjustment

The Solid Drive Design assures that during removal or adjustment of the plunger, the whole plunger is moving, not just the set screw. This means no lost parts or springs falling out of the plunger.

### Ball Plungers



### Positive Control of Spring Pressure

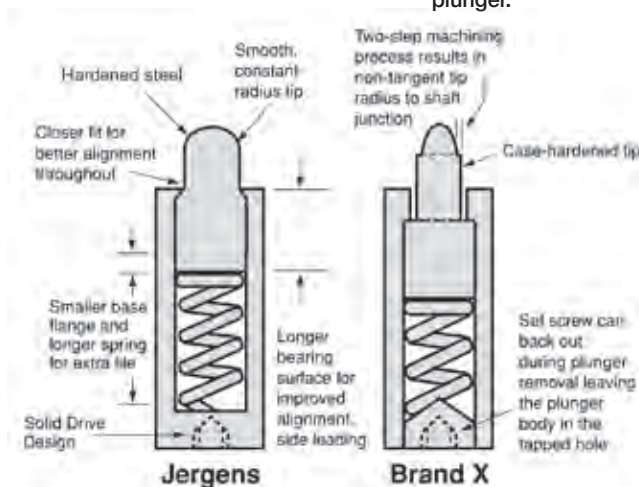
Accurate spring alignment is maintained by using a stainless rivet with a long shank on larger sizes of Jergens Ball Plungers. This precisely positions the spring for more accurate ball travel and provides positive control of spring pressure. Conventional floating discs are easily misaligned, while the rotation of the inner ball on dual-ball plungers results in less wearability on both the spring and the ball.

### Longer Spring Life

By minimizing the lining pin head thickness, Jergens is able to use the longest possible springs. This, of course, means less fatigue and longer spring life.

### Uniform Ball Projection

The distance by which the ball projects from the body of the plunger must be uniform from plunger to plunger. This uniformity is maintained by precisely controlling the crimping pressure applied to the neck of the plunger. Accurate machine controls plus rigid inspection procedures keep variances in ball projection to within  $\pm .005$ ".





### Spring Plungers Inch



- Single unit construction
- No set screw to separate from plunger body
- Better reliability
- Steel tips are case hardened steel
- Close tolerance between tip and body

- Material: Body – Low Carbon Steel, Black Oxide or 303-Stainless Steel

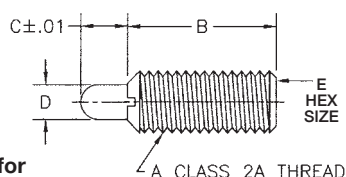
Tip – Steel or Stainless Steel

- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Conforms to TCMA dimensional standards
- Patch-Style locking element

Plunger tips are color coded to indicate light or heavy force:

Silver = Steel Tip, Light Force

Black = Steel Tip, Heavy Force



Hex drive in rear for spring plunger insertion.

Specials available, see page 41 for Plunger Quote Request worksheet.

Unlike conventional spring plungers, the body of a Jergens Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for “easy-out” tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.

#### Inch – Steel & Stainless Steel Tip With Locking Element

| SS Part Number | Steel Part Number | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B       | C    | D     | Hex Size E |
|----------------|-------------------|---------------|---------------------|-------------------|---------|------|-------|------------|
| 27336          | 27321             | 6-32          | 0.5                 | 1.5               | 17/32   | 1/16 | 0.046 | 3/64       |
| 26936          | 26921             | 6-32          | 1.5                 | 4.5               | 17/32   | 1/16 | 0.046 | 3/64       |
| 27337          | 27322             | 8-32          | 0.7                 | 2.3               | 5/8     | 3/32 | 0.070 | 5/64       |
| 26937          | 26922             | 8-32          | 2.7                 | 7.3               | 5/8     | 3/32 | 0.070 | 5/64       |
| 27338          | 27323             | 10-32         | 1.3                 | 2.7               | 3/4     | 1/8  | 0.093 | 3/32       |
| 26938          | 26923             | 10-32         | 2.9                 | 11.1              | 3/4     | 1/8  | 0.093 | 3/32       |
| 27339          | 27324             | 1/4-20        | 1.0                 | 4.0               | 1       | 3/16 | 0.119 | 1/8        |
| 26939          | 26924             | 1/4-20        | 3.0                 | 13.0              | 1       | 3/16 | 0.119 | 1/8        |
| 27340          | 27325             | 1/4-28        | 1.0                 | 4.0               | 1       | 3/16 | 0.119 | 1/8        |
| 26940          | 26925             | 1/4-28        | 3.0                 | 13.0              | 1       | 3/16 | 0.119 | 1/8        |
| 27341          | 27326             | 5/16-18       | 1.5                 | 4.5               | 1       | 3/16 | 0.135 | 5/32       |
| 26941          | 26926             | 5/16-18       | 3.0                 | 15.0              | 1       | 3/16 | 0.135 | 5/32       |
| 27342          | 27327             | 3/8-16        | 2.8                 | 7.2               | 1 1/8   | 3/16 | 0.186 | 3/16       |
| 26942          | 26927             | 3/8-16        | 5.5                 | 14.5              | 1 1/8   | 3/16 | 0.186 | 3/16       |
| 27343          | 27328             | 1/2-13        | 2.7                 | 9.3               | 1 1/4   | 1/4  | 0.248 | 1/4        |
| 26943          | 26928             | 1/2-13        | 6.6                 | 17.4              | 1 1/4   | 1/4  | 0.248 | 1/4        |
| 27344          | 27329             | 5/8-11        | 3.5                 | 10.5              | 1 1/2   | 5/16 | 0.310 | 5/16       |
| 26944          | 26929             | 5/8-11        | 10.5                | 25.5              | 1 1/2   | 5/16 | 0.310 | 5/16       |
| 27345          | 27330             | 3/4-10        | 5.5                 | 14.5              | 1 3/4   | 5/16 | 0.374 | 3/8        |
| 26945          | 26930             | 3/4-10        | 6.7                 | 37.3              | 1 3/4   | 5/16 | 0.374 | 3/8        |
| —              | 27311*            | 1-8           | 10.0                | 25.0              | 2 13/32 | 1/2  | 0.499 | 3/8        |
| —              | 26911*            | 1-8           | 16.0                | 68.0              | 2 13/32 | 1/2  | 0.499 | 3/8        |

\* Not available in DRIVE construction.

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

#### Without Locking Element

| SS Part Number | Steel Part Number |
|----------------|-------------------|
| 27031          | 27221             |
| 27011          | 26821             |
| 27032          | 27222             |
| 27012          | 26822             |
| 27033          | 27223             |
| 27013          | 26823             |
| 27034          | 27224             |
| 27014          | 26824             |
| 27035          | 27225             |
| 27015          | 26825             |
| 27036          | 27226             |
| 27016          | 26826             |
| 27037          | 27227             |
| 27017          | 26827             |
| 27038          | 27228             |
| 27018          | 26828             |
| 27039          | 27229             |
| 27019          | 26829             |
| 27040          | 27230             |
| 27020          | 26830             |
| —              | 27211*            |
| —              | 26811*            |

Special materials and sizes available upon requests.



## Spring Plungers

Inch



- Single unit construction
- No set screw to separate from plunger body
- No need for "easy-out" tools
- Better reliability
- Steel tips are case hardened steel
- Close tolerance between tip and body

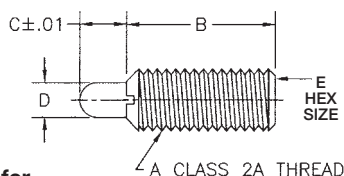
- Material: Body – Low Carbon Steel, Black Oxide or 303-Stainless Steel

Tip – Delrin

- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Conforms to TCMA dimensional standards
- Patch-Style locking element

Plunger tips are color coded to indicate light or heavy force:

White = Delrin Tip, Light Force  
Blue = Delrin Tip, Heavy Force



Hex drive in rear for spring plunger insertion.

Unlike conventional spring plungers, the body of a Jergens Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for "easy-out" tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.

Specials available, see page 41 for Plunger Quote Request worksheet.

### Inch – Delrin Tip With Locking Element

| SS Part Number | Steel Part Number | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B     | C    | D     | Hex Size E |
|----------------|-------------------|---------------|---------------------|-------------------|-------|------|-------|------------|
| 30936          | 30921             | 6-32          | 0.5                 | 1.5               | 17/32 | 1/16 | 0.046 | 3/64       |
| 30536          | 30521             | 6-32          | 1.5                 | 4.5               | 17/32 | 1/16 | 0.046 | 3/64       |
| 30937          | 30922             | 8-32          | 0.7                 | 2.3               | 5/8   | 3/32 | 0.070 | 5/64       |
| 30537          | 30522             | 8-32          | 2.7                 | 7.3               | 5/8   | 3/32 | 0.070 | 5/64       |
| 30938          | 30923             | 10-32         | 1.3                 | 2.7               | 3/4   | 1/8  | 0.093 | 3/32       |
| 30538          | 30523             | 10-32         | 2.9                 | 11.1              | 3/4   | 1/8  | 0.093 | 3/32       |
| 30939          | 30924             | 1/4-20        | 1.0                 | 4.0               | 1     | 3/16 | 0.119 | 1/8        |
| 30539          | 30524             | 1/4-20        | 3.0                 | 13.0              | 1     | 3/16 | 0.119 | 1/8        |
| 30940          | 30925             | 1/4-28        | 1.0                 | 4.0               | 1     | 3/16 | 0.119 | 1/8        |
| 30540          | 30525             | 1/4-28        | 3.0                 | 13.0              | 1     | 3/16 | 0.119 | 1/8        |
| 30941          | 30926             | 5/16-18       | 1.5                 | 4.5               | 1     | 3/16 | 0.135 | 5/32       |
| 30541          | 30526             | 5/16-18       | 3.0                 | 15.0              | 1     | 3/16 | 0.135 | 5/32       |
| 30942          | 30927             | 3/8-16        | 2.8                 | 7.2               | 1 1/8 | 3/16 | 0.186 | 3/16       |
| 30542          | 30527             | 3/8-16        | 5.5                 | 14.5              | 1 1/8 | 3/16 | 0.186 | 3/16       |
| 30943          | 30928             | 1/2-13        | 2.7                 | 9.3               | 1 1/4 | 1/4  | 0.248 | 1/4        |
| 30543          | 30528             | 1/2-13        | 6.6                 | 17.4              | 1 1/4 | 1/4  | 0.248 | 1/4        |
| 30944          | 30929             | 5/8-11        | 3.5                 | 10.5              | 1 1/2 | 5/16 | 0.310 | 5/16       |
| 30544          | 30529             | 5/8-11        | 10.5                | 25.5              | 1 1/2 | 5/16 | 0.310 | 5/16       |
| 30945          | —                 | 3/4-10        | 5.5                 | 14.5              | 1 3/4 | 5/16 | 0.374 | 3/8        |
| 30545          | —                 | 3/4-10        | 6.7                 | 37.3              | 1 3/4 | 5/16 | 0.374 | 3/8        |

### Without Locking Element

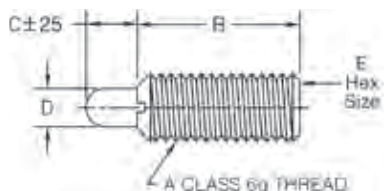
| SS Part Number | Steel Part Number |
|----------------|-------------------|
| 30510          | 30821             |
| 30500          | 30421             |
| 30511          | 30822             |
| 30501          | 30422             |
| 30512          | 30823             |
| 30502          | 30423             |
| 30513          | 30824             |
| 30503          | 30424             |
| 30514          | 30825             |
| 30504          | 30425             |
| 30515          | 30826             |
| 30505          | 30426             |
| 30516          | 30827             |
| 30506          | 30427             |
| 30517          | 30828             |
| 30507          | 30428             |
| 30518          | 30829             |
| 30508          | 30429             |
| 30519          | —                 |
| 30509          | —                 |

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

Special materials and sizes available upon requests.



### Spring Plungers Metric



The hex drive in the rear of the spring plunger is for plunger insertion.

Specials available, see page 41 for Plunger Quote Request worksheet.

- Material: Body – Low Carbon Steel, Black Oxide or 303-Stainless Steel

Tip – Steel or Stainless Steel

- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Conforms to TCMA dimensional standards
- Patch-Style locking element

Unlike conventional spring plungers, the body of a Jergens Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for “easy-out” tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.

#### Metric – Steel & Stainless Steel Tip With Locking Element

| SS Part Number | Steel Part Number | Thread Size A | Initial Force (kg) | Final Force (kg) | B  | C   | D    | Hex Size E |
|----------------|-------------------|---------------|--------------------|------------------|----|-----|------|------------|
| 30890          | 27250             | M4 x 0.7      | 0.32               | 1.04             | 16 | 2.5 | 1.78 | 2.0        |
| 30490          | 26850             | M4 x 0.7      | 1.22               | 3.29             | 16 | 2.5 | 1.78 | 2.0        |
| 30891          | 27251             | M5 x 0.8      | 0.59               | 1.22             | 19 | 3.0 | 2.36 | 2.5        |
| 30491          | 26851             | M5 x 0.8      | 1.31               | 5.00             | 19 | 3.0 | 2.36 | 2.5        |
| 30892          | 27252             | M6 x 1.0      | 0.45               | 1.80             | 25 | 5.0 | 3.02 | 3.0        |
| 30492          | 26852             | M6 x 1.0      | 1.35               | 5.85             | 25 | 5.0 | 3.02 | 3.0        |
| 30893          | 27253             | M8 x 1.25     | 0.68               | 2.03             | 25 | 5.0 | 3.43 | 4.0        |
| 30493          | 26853             | M8 x 1.25     | 1.35               | 6.75             | 25 | 5.0 | 3.43 | 4.0        |
| 30894          | 27254             | M10 x 1.5     | 1.26               | 3.26             | 29 | 5.0 | 4.72 | 5.0        |
| 30494          | 26854             | M10 x 1.5     | 2.48               | 6.53             | 29 | 5.0 | 4.72 | 5.0        |
| 30895          | 27255             | M12 x 1.75    | 1.22               | 4.21             | 32 | 6.0 | 6.30 | 6.0        |
| 30495          | 26855             | M12 x 1.75    | 2.97               | 7.83             | 32 | 6.0 | 6.30 | 6.0        |
| 30897          | 27257             | M16 x 2.0     | 1.58               | 4.76             | 38 | 8.0 | 7.87 | 8.0        |
| 30497          | 26857             | M16 x 2.0     | 4.73               | 11.48            | 38 | 8.0 | 7.87 | 8.0        |
| 30898          | 27258             | M20 x 2.5     | 2.50               | 6.58             | 44 | 8.0 | 9.50 | 10.0       |
| 30498          | 26858             | M20 x 2.5     | 3.05               | 16.95            | 44 | 8.0 | 9.50 | 10.0       |

#### Without Locking Element

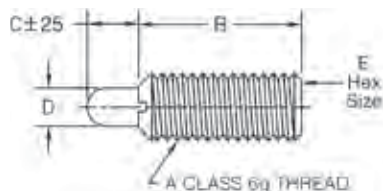
| SS Part Number | Steel Part Number |
|----------------|-------------------|
| 30880          | 27270             |
| 30480          | 26870             |
| 30881          | 27271             |
| 30481          | 26871             |
| 30882          | 27272             |
| 30482          | 26872             |
| 30883          | 27273             |
| 30483          | 26873             |
| 30884          | 27274             |
| 30484          | 26874             |
| 30885          | 27275             |
| 30485          | 26875             |
| 30887          | 27277             |
| 30487          | 26877             |
| 30888          | 27278             |
| 30488          | 26878             |

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

Special materials and sizes available upon requests.



## Spring Plungers Metric – Delrin Tip



The hex drive in the rear of the spring plunger is for plunger insertion.

Specials available, see page 41 for Plunger Quote Request worksheet.

- Material: Body – Low Carbon Steel, Black Oxide  
Tip – Delrin
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Conforms to TCMA dimensional standards
- Patch-Style locking element

Unlike conventional spring plungers, the body of a Jergens Solid Drive Plunger is machined in one piece. The spring is assembled from the top so that there is no need for a set screw. Solid Drive Plungers do not have a set screw which can loosen or separate from the plunger body. The advantage is no lost springs, no need for “easy-out” tools. When adjusting Solid Drive, you can be sure the plunger body is turning and not a set screw.

### Metric – Delrin Tip With Locking Element

| Steel Part Number | Thread Size A | Initial Force (kg) | Final Force (kg) | B  | C   | D    | Hex Size E |
|-------------------|---------------|--------------------|------------------|----|-----|------|------------|
| 30850             | M4 x 0.7      | 0.32               | 1.04             | 16 | 2.5 | 1.78 | 2.0        |
| 30450             | M4 x 0.7      | 1.22               | 3.29             | 16 | 2.5 | 1.78 | 2.0        |
| 30851             | M5 x 0.8      | 0.59               | 1.22             | 19 | 3.0 | 2.36 | 2.5        |
| 30451             | M5 x 0.8      | 1.31               | 5.00             | 19 | 3.0 | 2.36 | 2.5        |
| 30852             | M6 x 1.0      | 0.45               | 1.80             | 25 | 5.0 | 3.02 | 3.0        |
| 30452             | M6 x 1.0      | 1.35               | 5.85             | 25 | 5.0 | 3.02 | 3.0        |
| 30853             | M8 x 1.25     | 0.68               | 2.03             | 25 | 5.0 | 3.43 | 4.0        |
| 30453             | M8 x 1.25     | 1.35               | 6.75             | 25 | 5.0 | 3.43 | 4.0        |
| 30854             | M10 x 1.5     | 1.26               | 3.26             | 29 | 5.0 | 4.72 | 5.0        |
| 30454             | M10 x 1.5     | 2.48               | 6.53             | 29 | 5.0 | 4.72 | 5.0        |
| 30855             | M12 x 1.75    | 1.22               | 4.21             | 32 | 6.0 | 6.30 | 6.0        |
| 30455             | M12 x 1.75    | 2.97               | 7.83             | 32 | 6.0 | 6.30 | 6.0        |
| 30857             | M16 x 2.0     | 1.58               | 4.76             | 38 | 8.0 | 7.87 | 8.0        |
| 30457             | M16 x 2.0     | 4.73               | 11.48            | 38 | 8.0 | 7.87 | 8.0        |
| 30858             | M20 x 2.5     | 2.50               | 6.58             | 44 | 8.0 | 9.50 | 10.0       |
| 30458             | M20 x 2.5     | 3.05               | 16.95            | 44 | 8.0 | 9.50 | 10.0       |

### Without Locking Element

| Steel Part Number |
|-------------------|
| 30870             |
| 30470             |
| 30871             |
| 30471             |
| 30872             |
| 30472             |
| 30873             |
| 30473             |
| 30874             |
| 30474             |
| 30875             |
| 30475             |
| 30877             |
| 30477             |
| 30878             |
| 30478             |

NOTE: For easy insertion of Spring Plungers with locking elements, the tapped hole should be countersunk at least .030-.045" (0.76-1.14mm) larger than the major diameter of the plunger.

Special materials and sizes available upon requests.



### Shortie Spring Plungers Inch



- Material: Body – Low Carbon Steel, Black Oxide  
Tip – Delrin or Steel
- Thread: 2A-UNC
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Conforms to TCMA dimensional standards
- Patch-Style locking element
- Thread: 2A-UNC
- Available in metric sizes. See page 38.

#### Jergens Feature:

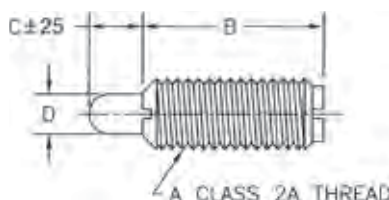
Jergens Shortie Spring Plungers are made to the same quality standards as the Solid Drive  
\*Made with full standard spring plunger stroke in a short body. A screwdriver slot is substituted for the hex drive due to the smaller size.

#### Inch – Shortie Spring Plunger With Locking Element

| Steel Tip | Delrin Tip | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B     | C    | D     | Without Locking Element | Without Locking Element |
|-----------|------------|---------------|---------------------|-------------------|-------|------|-------|-------------------------|-------------------------|
| 27101     | 30701      | 6-32          | 0.5                 | 1.5               | 3/8   | 1/16 | 0.046 | 27001                   | 30601                   |
| 26701     | 30301      | 6-32          | 0.5                 | 3.5               | 3/8   | 1/16 | 0.046 | 26601                   | 30201                   |
| 27102     | 30702      | 8-32          | 0.5                 | 2.0               | 1/2   | 3/32 | 0.070 | 27002                   | 30602                   |
| 26702     | 30302      | 8-32          | 0.5                 | 4.0               | 1/2   | 3/32 | 0.070 | 26602                   | 30202                   |
| 27103*    | 30703*     | 10-32         | 0.3                 | 3.0               | 9/16  | 1/8  | 0.093 | 27003*                  | 30603*                  |
| 26703*    | 30303*     | 10-32         | 0.5                 | 5.0               | 9/16  | 1/8  | 0.093 | 26603*                  | 30203*                  |
| 27104     | 30704      | 1/4-20        | 0.3                 | 3.5               | 5/8   | 3/16 | 0.119 | 27004                   | 30604                   |
| 26704     | 30304      | 1/4-20        | 0.5                 | 6.0               | 5/8   | 3/16 | 0.119 | 26604                   | 30204                   |
| 27105     | 30705      | 5/16-18       | 0.5                 | 4.5               | 5/8   | 3/16 | 0.135 | 27005                   | 30605                   |
| 26705     | 30305      | 5/16-18       | 0.5                 | 10.0              | 5/8   | 3/16 | 0.135 | 26605                   | 30205                   |
| 27106     | 30706      | 3/8-16        | 1.5                 | 7.5               | 11/16 | 3/16 | 0.186 | 27006                   | 30606                   |
| 26706     | 30306      | 3/8-16        | 1.0                 | 12.0              | 11/16 | 3/16 | 0.186 | 26606                   | 30206                   |
| 27107     | 30707      | 1/2-13        | 1.7                 | 8.5               | 13/16 | 1/4  | 0.248 | 27007                   | 30607                   |
| 26707     | 30307      | 1/2-13        | 2.5                 | 15.0              | 13/16 | 1/4  | 0.248 | 26607                   | 30207                   |
| 27108     | 30708      | 5/8-11        | 2.0                 | 10.5              | 1 1/8 | 5/16 | 0.310 | 27008                   | 30608                   |
| 26708     | 30308      | 5/8-11        | 3.5                 | 26.0              | 1 1/8 | 5/16 | 0.310 | 26608                   | 30208                   |

\*Thread: UNF

### Shortie Spring Plungers Stainless Steel (Short Travel)



The slot in the rear of the Shortie Spring Plunger is for insertion.

- Material:  
Body, 303 Stainless  
Spring, 303 Stainless  
Nose, Stainless or Delrin
- Thread: 2A-UNC

#### Inch – Stainless Steel With Locking Element

| Part Number   |            | Thread Size A | Force, lbs. |       | B     | C    | D    |
|---------------|------------|---------------|-------------|-------|-------|------|------|
| Stainless Tip | Delrin Tip |               | Initial     | Final |       |      |      |
| 27601         | 27621      | 8-32          | .5          | 1.5   | 7/16  | .052 | .070 |
| 27602         | 27622      | 8-32          | 1.5         | 4.75  | 7/16  | .052 | .070 |
| 27603*        | 27623*     | 8-36          | .5          | 1.5   | 7/16  | .052 | .070 |
| 27604*        | 27624*     | 8-36          | 1.5         | 4.75  | 7/16  | .052 | .070 |
| 27605         | 27625      | 10-32         | .75         | 2.5   | 15/32 | .065 | .093 |
| 27606         | 27626      | 10-32         | 1.75        | 6.25  | 15/32 | .065 | .093 |
| 27607         | 27627      | 1/4-20        | 1.0         | 3.5   | 17/32 | .078 | .119 |
| 27608         | 27628      | 1/4-20        | 3.0         | 10.5  | 17/32 | .078 | .119 |
| 27609         | 27629      | 5/16-18       | 1.0         | 4.0   | 9/16  | .084 | .135 |
| 27610         | 27630      | 5/16-18       | 3.75        | 15.5  | 9/16  | .084 | .135 |
| 27611         | 27631      | 3/8-16        | 1.5         | 5.0   | 5/8   | .110 | .186 |
| 27612         | 27632      | 3/8-16        | 4.5         | 18.5  | 5/8   | .110 | .186 |
| 27613         | 27633      | 1/2-13        | 1.75        | 5.5   | 3/4   | .151 | .248 |
| 27614         | 27634      | 1/2-13        | 5.0         | 28.0  | 3/4   | .151 | .248 |

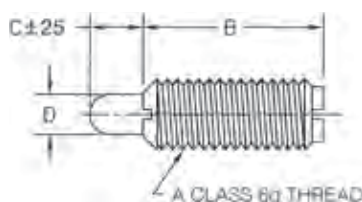
\*Thread: UNF

Specials available, see page 41 for Plunger Quote Request work-sheet.

Special materials and sizes available upon requests.



## Shortie Spring Plungers Metric



Specials available,  
see page 41 for  
Plunger Quote  
Request worksheet.

- Material: Body – Low Carbon Steel, Black Oxide  
Tip – Delrin or Steel
- Thread: Class 6g
- 3D Solid Models are available in multiple formats  
from [www.jergensinc.com](http://www.jergensinc.com)
- Patch-Style locking element

Plunger Tips are color coded to indicate light  
or heavy force.

White = Light Force  
Blue = Heavy Force

### Jergens Feature:

Jergens Shortie Spring Plungers are made to the same quality standards as the Solid Drive  
\*Made with full standard spring plunger stroke in a short body. A screwdriver slot is substituted for the hex drive due to the smaller size.

\*Carbon Steel body only

### Metric – Shortie Spring Plungers With Locking Elements

| Steel Tip | Delrin Tip | Thread Size A | Initial Force (kg) | Final Force (kg) | B    | C   | D    |
|-----------|------------|---------------|--------------------|------------------|------|-----|------|
| 27170     | 30770      | M4 x 0.7      | 0.23               | 0.91             | 13.0 | 2.5 | 1.78 |
| 26770     | 30370      | M4 x 0.7      | 0.23               | 1.81             | 13.0 | 2.5 | 1.78 |
| 27171     | 30771      | M5 x 0.8      | 0.14               | 1.36             | 14.5 | 3.0 | 2.36 |
| 26771     | 30371      | M5 x 0.8      | 0.23               | 2.27             | 14.5 | 3.0 | 2.36 |
| 27172     | 30772      | M6 x 1.0      | 0.14               | 1.59             | 16.0 | 4.7 | 3.02 |
| 26772     | 30372      | M6 x 1.0      | 0.23               | 2.72             | 16.0 | 4.0 | 3.02 |
| 27173     | 30773      | M8 x 1.25     | 0.23               | 2.04             | 16.0 | 5.0 | 3.43 |
| 26773     | 30373      | M8 x 1.25     | 0.23               | 4.54             | 16.0 | 5.0 | 3.43 |
| 27174     | 30774      | M10 x 1.5     | 0.68               | 3.4              | 17.5 | 4.7 | 4.72 |
| 26774     | 30374      | M10 x 1.5     | 0.46               | 5.44             | 17.5 | 5.0 | 4.72 |
| 27175     | 30775      | M12 x 1.75    | 0.77               | 3.86             | 20.5 | 6.5 | 6.30 |
| 26775     | 30375      | M12 x 1.75    | 1.13               | 6.80             | 20.5 | 6.5 | 6.30 |
| 27177     | 30777      | M16 x 2.0     | 0.91               | 4.76             | 28.5 | 8.0 | 7.87 |
| 26777     | 30377      | M16 x 2.0     | 1.59               | 11.79            | 28.5 | 8.0 | 7.87 |

Special materials and sizes available upon requests.

## Plunger Wrenches



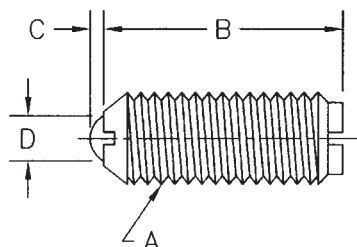
**IMPORTANT:** It is not recommended that a screwdriver be used to insert ball or spring plungers from the ball or plunger end. The tip of the screwdriver will force the ball or tip of the plunger below the surface of the end of the plunger. This may compress the spring to a solid, causing possible damage to the spring plunger. It is recommended that a Jergens Plunger Wrench be used or that a slot be ground in the end of a screwdriver to clear the height of the ball or tip for each size ball or plunger used.

| Part Number | Thread Size of Plungers |        |
|-------------|-------------------------|--------|
|             | Inch                    | Metric |
| 27501       | 6-32                    | —      |
| 27502       | 8-32                    | M4     |
| 27503       | 10-32                   | M5     |
| 27504       | 1/4-20                  | M6     |
| 27505       | 5/16-18                 | M8     |
| 27506       | 3/8-16                  | M10    |
| 27507       | 1/2-13                  | M12    |
| 27508       | 5/8-11                  | M16    |
| 27509       | 3/4-10                  | M20    |
| 27510       | 1-8                     | M25    |



### Ball Plungers

Inch



- Patch-Style locking element
- Body Material: Low Carbon Steel, or 303 Stainless Steel
- Ball Material: Stainless, 440
- Spring Material: Stainless, 17-7 PH
- Finish: Black Oxide on Body
- Thread: 2A
- Dimensionally conforms to TCMA standards
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

#### Inch – Coarse Thread (UNC) With Locking Element

| SS Part Number | Steel Part Number | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B     | C     | D     |
|----------------|-------------------|---------------|---------------------|-------------------|-------|-------|-------|
| 11102          | 10927             | 5-40          | 0.25                | 0.75              | 1/4   | 0.020 | 0.062 |
| 11201          | 10701             | 10-24         | 0.50                | 1.50              | 33/64 | 0.025 | 0.093 |
| 11211          | 10711             | 10-24         | 1.50                | 3.00              | 33/64 | 0.025 | 0.093 |
| 11202          | 10702             | 10-24         | 2.00                | 5.00              | 33/64 | 0.025 | 0.093 |
| 11108          | 10904             | 1/4-20        | 2.00                | 4.00              | 17/32 | 0.035 | 0.125 |
| 11109          | 10905             | 1/4-20        | 3.00                | 7.00              | 17/32 | 0.035 | 0.125 |
| 11110          | 10906             | 1/4-20        | 4.00                | 12.00             | 17/32 | 0.035 | 0.125 |
| 11111          | 10907             | 5/16-18       | 2.00                | 4.50              | 37/64 | 0.040 | 0.156 |
| 11112          | 10908             | 5/16-18       | 4.00                | 9.00              | 37/64 | 0.040 | 0.156 |
| 11113          | 10909             | 5/16-18       | 6.00                | 17.00             | 37/64 | 0.040 | 0.156 |
| 11114          | 10910             | 3/8-16        | 2.50                | 5.00              | 5/8   | 0.048 | 0.187 |
| 11115          | 10911             | 3/8-16        | 5.00                | 10.00             | 5/8   | 0.048 | 0.187 |
| 11116          | 10912             | 3/8-16        | 6.00                | 21.00             | 5/8   | 0.048 | 0.187 |
| 11117          | 10913             | 1/2-13        | 3.00                | 6.00              | 3/4   | 0.072 | 0.281 |
| 11118          | 10914             | 1/2-13        | 6.00                | 12.00             | 3/4   | 0.072 | 0.281 |
| 11119          | 10915             | 1/2-13        | 6.00                | 30.00             | 3/4   | 0.072 | 0.281 |
| 11120          | 10916             | 5/8-11        | 4.50                | 9.00              | 1     | 0.096 | 0.375 |
| 11121          | 10917             | 5/8-11        | 9.00                | 18.00             | 1     | 0.096 | 0.375 |
| 11122          | 10918             | 5/8-11        | 7.00                | 50.00             | 1     | 0.096 | 0.375 |

#### Without Locking Element

| SS Part Number | Steel Part Number |
|----------------|-------------------|
| 11002          | 10827             |
| 11221          | 10721             |
| 11231          | 10731             |
| 11222          | 10722             |
| 11008          | 10804             |
| 11009          | 10805             |
| 11010          | 10806             |
| 11011          | 10807             |
| 11012          | 10808             |
| 11013          | 10809             |
| 11014          | 10810             |
| 11015          | 10811             |
| 11016          | 10812             |
| 11017          | 10813             |
| 11018          | 10814             |
| 11019          | 10815             |
| 11020          | 10816             |
| 11021          | 10817             |
| 11022          | 10818             |

NOTE: For easy insertion of Ball Plungers with locking elements, the tapped hole should be countersunk at least .030-.045 (0.76-1.14mm) larger than the major diameter of the plunger.

#### Inch – Fine Thread (UNF) With Locking Element

| SS Part Number | Steel Part Number | Thread Size A | Initial Force (lbs) | Final Force (lbs) | B     | C     | D     |
|----------------|-------------------|---------------|---------------------|-------------------|-------|-------|-------|
| 11101          | 10926             | 4-48          | 0.12                | 0.50              | 3/16  | 0.020 | 0.062 |
| 11103          | 10928             | 6-40          | 0.50                | 1.00              | 5/16  | 0.023 | 0.078 |
| 11104          | 10929             | 8-36          | 0.50                | 1.25              | 11/32 | 0.025 | 0.093 |
| 11105          | 10901             | 10-32         | 0.50                | 1.50              | 33/64 | 0.025 | 0.093 |
| 11106          | 10902             | 10-32         | 1.50                | 3.00              | 33/64 | 0.025 | 0.093 |
| 11107          | 10903             | 10-32         | 2.00                | 5.00              | 33/64 | 0.025 | 0.093 |
| 11203          | 10703             | 1/4-28        | 2.0                 | 4.0               | 17/32 | 0.035 | 0.125 |
| 11212          | 10712             | 1/4-28        | 3.0                 | 7.0               | 17/32 | 0.035 | 0.125 |
| 11204          | 10704             | 1/4-28        | 4.0                 | 12.0              | 17/32 | 0.035 | 0.125 |
| 11205          | 10705             | 5/16-24       | 2.0                 | 4.5               | 37/64 | 0.040 | 0.156 |
| 11213          | 10713             | 5/16-24       | 4.0                 | 9.0               | 37/64 | 0.040 | 0.156 |
| 11206          | 10706             | 5/16-24       | 6.0                 | 17.0              | 37/64 | 0.040 | 0.156 |
| 11207          | 10707             | 3/8-24        | 2.5                 | 5.0               | 5/8   | 0.048 | 0.187 |
| 11214          | 10714             | 3/8-24        | 5.0                 | 10.0              | 5/8   | 0.048 | 0.187 |
| 11208          | 10708             | 3/8-24        | 6.0                 | 21.0              | 5/8   | 0.048 | 0.187 |
| 11209          | 10709             | 1/2-20        | 3.0                 | 6.0               | 3/4   | 0.072 | 0.281 |
| 11215          | 10715             | 1/2-20        | 6.0                 | 12.0              | 3/4   | 0.072 | 0.281 |
| 11210          | 10710             | 1/2-20        | 6.0                 | 30.0              | 3/4   | 0.072 | 0.281 |

#### Without Locking Element

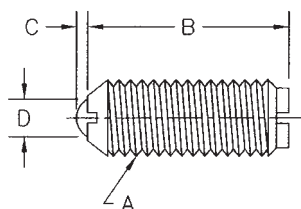
| SS Part Number | Steel Part Number |
|----------------|-------------------|
| 11001          | 10826             |
| 11003          | 10828             |
| 11004          | 10829             |
| 11005          | 10801             |
| 11006          | 10802             |
| 11007          | 10803             |
| 11223          | 10723             |
| 11232          | 10732             |
| 11224          | 10724             |
| 11225          | 10725             |
| 11233          | 10733             |
| 11226          | 10726             |
| 11227          | 10727             |
| 11234          | 10734             |
| 11228          | 10728             |
| 11229          | 10729             |
| 11235          | 10735             |
| 11230          | 10730             |

Special materials and sizes available upon requests.



## Ball Plungers

### Metric



- Body Materials: Low Carbon Steel, Black Oxide or 303 Stainless Steel
- Ball: Stainless, 440
- Spring: Stainless, 17-7 PH
- Thread: Class 6g
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Patch-Style locking element

NOTE: For easy insertion of Ball Plungers with locking elements, the tapped hole should be countersunk at least .030-.045 (0.76-1.14mm) larger than the major diameter of the plunger.

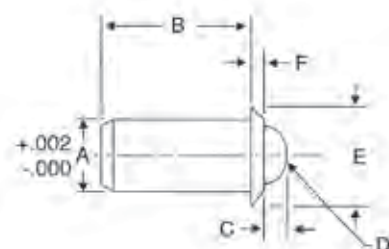
### Metric – Steel & SS Tip With Locking Element

| SS Part Number | Steel Part Number | Thread Size A | Initial Force (kg) | Final Force (kg) | B     | C    | D    |
|----------------|-------------------|---------------|--------------------|------------------|-------|------|------|
| 11051          | 10971             | M4 x 0.7      | 0.23               | 0.56             | 9.00  | 0.60 | 2.38 |
| 11052          | 10972             | M5 x 0.8      | 0.23               | 0.68             | 13.00 | 0.60 | 2.38 |
| 11053          | 10973             | M5 x 0.8      | 0.68               | 1.35             | 13.00 | 0.60 | 2.38 |
| 11054          | 10974             | M5 x 0.8      | 0.90               | 2.25             | 13.00 | 0.60 | 2.38 |
| 11055          | 10975             | M6 x 1.0      | 0.90               | 1.80             | 13.50 | 0.90 | 3.18 |
| 11056          | 10976             | M6 x 1.0      | 1.35               | 3.15             | 13.50 | 0.90 | 3.18 |
| 11057          | 10977             | M6 x 1.0      | 1.80               | 5.40             | 13.50 | 0.90 | 3.18 |
| 11058          | 10978             | M8 x1.25      | 0.90               | 2.03             | 15.00 | 1.00 | 3.97 |
| 11059          | 10979             | M8 x1.25      | 1.80               | 4.05             | 15.00 | 1.00 | 3.97 |
| 11060          | 10980             | M8 x1.25      | 2.70               | 7.65             | 15.00 | 1.00 | 3.97 |
| 11061          | 10981             | M10 x 1.5     | 1.13               | 2.25             | 16.00 | 1.20 | 4.76 |
| 11062          | 10982             | M10 x 1.5     | 2.25               | 4.50             | 16.00 | 1.20 | 4.76 |
| 11063          | 10983             | M10 x 1.5     | 2.70               | 9.45             | 16.00 | 1.20 | 4.76 |
| 11064          | 10984             | M12 x 1.75    | 1.35               | 2.70             | 19.00 | 2.00 | 7.14 |
| 11065          | 10985             | M12 x 1.75    | 2.70               | 5.40             | 19.00 | 2.00 | 7.14 |
| 11066          | 10986             | M12 x 1.75    | 2.70               | 13.50            | 19.00 | 2.00 | 7.14 |
| 11067          | 10987             | M16 x 2.0     | 2.00               | 4.00             | 25.40 | 2.40 | 9.50 |
| 11068          | 10988             | M16 x 2.0     | 4.00               | 8.10             | 25.40 | 2.40 | 9.50 |
| 11069          | 10989             | M16 x 2.0     | 3.10               | 22.70            | 25.40 | 2.40 | 9.50 |

### Without Locking Element

| SS Part Number | Steel Part Number |
|----------------|-------------------|
| 10951          | 10871             |
| 10952          | 10872             |
| 10953          | 10873             |
| 10954          | 10874             |
| 10955          | 10875             |
| 10956          | 10876             |
| 10957          | 10877             |
| 10958          | 10878             |
| 10959          | 10879             |
| 10960          | 10880             |
| 10961          | 10881             |
| 10962          | 10882             |
| 10963          | 10883             |
| 10964          | 10884             |
| 10965          | 10885             |
| 10966          | 10886             |
| 10967          | 10887             |
| 10968          | 10888             |
| 10969          | 10889             |

## Press Fit Plungers



- Body Material: Low Carbon Steel
- Ball Material: Stainless, 400
- Spring Material: 17-7 PH
- Finish: Black Oxide on Body

### Heavy Force

| Part Number | Stainless Steel Part Number | Force (lbs) |       | A    | B     | C    | Ball Dia. D | E    | F    |
|-------------|-----------------------------|-------------|-------|------|-------|------|-------------|------|------|
|             |                             | Initial     | Final |      |       |      |             |      |      |
| 10832       | 11032                       | 2           | 5     | .188 | .405  | .058 | .156        | .250 | .035 |
| 10834       | 11034                       | 3           | 7     | .250 | .481  | .070 | .187        | .312 | .044 |
| 10836       | 11036                       | 5           | 14    | .375 | .785  | .110 | .312        | .500 | .078 |
| 10838       | 11038                       | 8           | 18    | .500 | 1.130 | .161 | .437        | .688 | .088 |

### Light Force

| Part Number | Stainless Steel Part Number | Force (lbs) |       | A    | B     | C    | Ball Dia. D | E    | F    |
|-------------|-----------------------------|-------------|-------|------|-------|------|-------------|------|------|
|             |                             | Initial     | Final |      |       |      |             |      |      |
| 10831       | 11031                       | 1           | 2.5   | .188 | .405  | .058 | .156        | .250 | .035 |
| 10833       | 11033                       | 1.5         | 3.5   | .250 | .481  | .070 | .187        | .312 | .044 |
| 10835       | 11035                       | 2.5         | 7     | .375 | .785  | .110 | .312        | .500 | .078 |
| 10837       | 11037                       | 4           | 9     | .500 | 1.130 | .161 | .437        | .688 | .088 |

Special materials and sizes available upon requests.



## SPRING LOADED DEVICES

If you don't see the exact spring or ball plunger to meet your application requirements, photocopy the form below, indicate your requirements, and mail to your Jergens Distributor or e-mail Jergens Specialty Fasteners at [fasteners@jergensinc.com](mailto:fasteners@jergensinc.com).

**BALL**



**SHORTIE**



**SPRING**



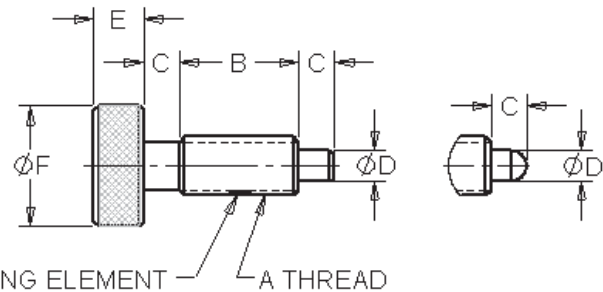
|                                                                        |                                                       |
|------------------------------------------------------------------------|-------------------------------------------------------|
| <p><b>A dim.</b> (See note below) _____</p> <p><b>B dim.</b> _____</p> | <p><b>C dim.</b> _____</p> <p><b>D dim.</b> _____</p> |
|------------------------------------------------------------------------|-------------------------------------------------------|



## Retractable Plungers Hand Retractable Locking Style



- Improved design allows plunger pin to be locked in fully retracted position
- Used in machining applications as positioners, loading pins or indexing devices
- Plunger pin has slight taper on end to assure easy alignment
- Zinc Plated Carbon Steel, 303 Stainless Steel
- Delrin Nose Prevents Marring of Soft Material
- Supplied with patch-style locking element only



### Inch – Hand Retractable Locking Style Plungers

| Steel Part Number | Steel Delrin Nose Part Number | Stainless Steel Part Number | Stainless Steel Delrin Nose Part Number | A       | End Force (lbs) |      | B   | C    | +.001<br>-.002<br>D | E    | F   | Net Wt. (lbs) 10 Pcs. |
|-------------------|-------------------------------|-----------------------------|-----------------------------------------|---------|-----------------|------|-----|------|---------------------|------|-----|-----------------------|
|                   |                               |                             |                                         |         | Start           | Full |     |      |                     |      |     |                       |
| 27426             | 27531                         | 27826                       | 27539                                   | 1/4-20  | 0.5             | 2.5  | 1/2 | 1/8  | .124                | 1/4  | 1/2 | .3                    |
| 27421             | 27532                         | 27821                       | 27540                                   | 1/4-20  | 1.0             | 5.0  | 1/2 | 1/8  | .124                | 1/4  | 1/2 | .3                    |
| 27427             | 27533                         | 27827                       | 27541                                   | 5/16-18 | 0.75            | 3.0  | 5/8 | 3/16 | .155                | 9/32 | 5/8 | .5                    |
| 27422             | 27534                         | 27822                       | 27542                                   | 5/16-18 | 1.5             | 6.0  | 5/8 | 3/16 | .155                | 9/32 | 5/8 | .5                    |
| 27428             | 27535                         | 27828                       | 27543                                   | 3/8-16  | 0.75            | 4.0  | 3/4 | 7/32 | .186                | 5/16 | 3/4 | .7                    |
| 27423             | 27536                         | 27823                       | 27544                                   | 3/8-16  | 1.5             | 8.0  | 3/4 | 7/32 | .186                | 5/16 | 3/4 | .7                    |
| 27429             | 27537                         | 27829                       | 27545                                   | 1/2-13  | 1.25            | 5.0  | 7/8 | 1/4  | .249                | 3/8  | 1"  | 1.3                   |
| 27424             | 27538                         | 27824                       | 27546                                   | 1/2-13  | 2.5             | 10.0 | 7/8 | 1/4  | .249                | 3/8  | 1"  | 1.3                   |

### Metric – Hand Retractable Locking Style Plungers

| Steel Part Number | Class 6g ISO A | End Force (kg) |       | B     | C    | +.025<br>-.050<br>D | E   | F    | Net Wt. (kg) 10 Pcs. |
|-------------------|----------------|----------------|-------|-------|------|---------------------|-----|------|----------------------|
|                   |                | Start          | Full  |       |      |                     |     |      |                      |
| 27555             | M6x1.0         | 0.225          | 1.135 | 12.50 | 3.17 | 3                   | 6.3 | 12.7 | .16                  |
| 27551             | M6x1.0         | 0.4            | 2.27  | 12.50 | 3.17 | 3                   | 6.3 | 12.7 | .16                  |
| 27556             | M8x1.25        | 0.34           | 1.36  | 16.00 | 4.75 | 4                   | 7.0 | 15.8 | .27                  |
| 27552             | M8x1.25        | 0.68           | 2.72  | 16.00 | 4.75 | 4                   | 7.0 | 15.8 | .27                  |
| 27557             | M10x1.5        | 0.34           | 1.815 | 19.00 | 5.50 | 5                   | 7.9 | 19.0 | .38                  |
| 27553             | M10x1.5        | 0.68           | 3.63  | 19.00 | 5.50 | 5                   | 7.9 | 19.0 | .38                  |
| 27558             | M12x1.75       | 0.565          | 2.27  | 22.00 | 6.35 | 6                   | 9.4 | 25.4 | .7                   |
| 27554             | M12x1.75       | 1.13           | 4.54  | 22.00 | 6.35 | 6                   | 9.4 | 25.4 | .7                   |

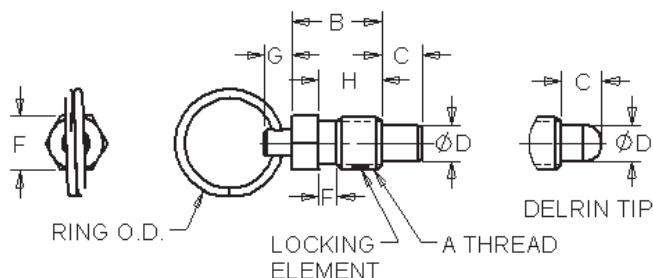
Special materials and sizes available upon requests.



## Retractable Plungers Pull Ring Style



- For use in application with limited space
- Slight taper on end of plunger for easy alignment

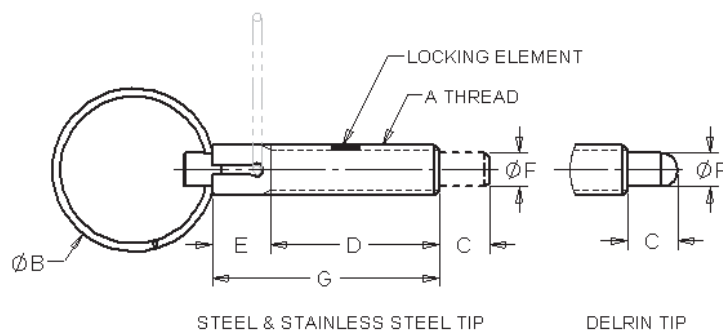


### Pull Ring – Short Locking Plungers

| Steel Part Number | Steel Delrin Nose Part Number | Stainless Steel Part Number | Stainless Steel Delrin Nose Part Number | A      | Force, (lbs) |       | B     | C    | D    | E   | F    | G    | H     | (lbs) O.D. | Net Wt. 10 Pcs. |
|-------------------|-------------------------------|-----------------------------|-----------------------------------------|--------|--------------|-------|-------|------|------|-----|------|------|-------|------------|-----------------|
|                   |                               |                             |                                         |        | Initial      | Final |       |      |      |     |      |      |       |            |                 |
| 27441             | 27560                         | 27800                       | 27564                                   | 1/4-20 | 0.50         | 2.0   | 7/16  | 3/16 | .156 | 1/4 | 1/32 | 5/32 | 9/32  | 3/4        | .1              |
| 27442             | 27561                         | 27801                       | 27565                                   | 3/8-16 | 0.75         | 3.0   | 5/8   | 9/32 | .250 | 3/8 | 1/8  | 3/16 | 7/16  | 3/4        | .2              |
| 27443             | 27562                         | 27802                       | 27566                                   | 1/2-13 | 1.00         | 4.0   | 13/16 | 3/8  | .312 | 1/2 | 5/32 | 1/4  | 9/16  | 1          | .43             |
| 27444             | 27563                         | 27803                       | 27567                                   | 5/8-11 | 1.25         | 5.0   | 1     | 7/16 | .375 | 5/8 | 5/32 | 5/16 | 11/16 | 1          | .8              |



- For use in application with limited space
- Slight taper on end of plunger for easy alignment
- Turn ring to lock and extend plunger



### Pull Ring – Standard Length – Locking Plungers

| Steel Part Number | Steel Delrin Nose Part Number | Stainless Steel Part Number | Stainless Steel Delrin Nose Part Number | A      | Force, (lbs) |       | B     | C   | D      | E    | F    | G       | Net Wt. (lbs) 10 Pcs. |
|-------------------|-------------------------------|-----------------------------|-----------------------------------------|--------|--------------|-------|-------|-----|--------|------|------|---------|-----------------------|
|                   |                               |                             |                                         |        | Initial      | Final |       |     |        |      |      |         |                       |
| 27446             | 27568                         | 27812                       | 27571                                   | 1/4-20 | 1.0          | 2.5   | 5/8   | 1/4 | 13/16  | 5/16 | .156 | 1-1/8   | .15                   |
| 27447             | 27569                         | 27813                       | 27572                                   | 3/8-16 | 2.0          | 4.0   | 1     | 3/8 | 1-1/4  | 7/16 | .233 | 1-11/16 | .43                   |
| 27448             | 27570                         | 27814                       | 27573                                   | 1/2-13 | 2.5          | 5.0   | 1-1/4 | 1/2 | 1-7/16 | 9/16 | .312 | 2       | .9                    |

Special materials and sizes available upon requests.  
Available in patch-style locking element only

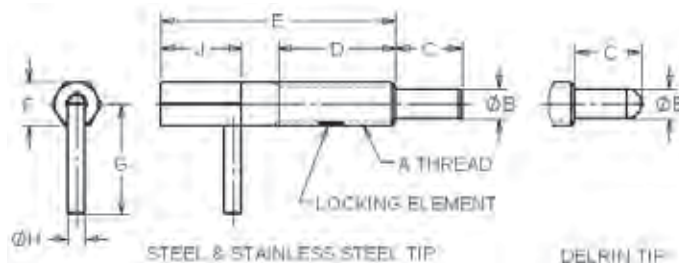


## Retractable Plungers

### L Handle Hand Retractable Locking Style



- Hand retractable for easy removal or insertion
- Turn handle to unlock and extend plunger
- Slight taper on end of plunger for easy alignment
- Locking element standard on all sizes



### Locking Plungers – Long Reach – Standard Length

| Steel Part Number | Steel Delrin Nose Part Number | Stainless Steel Part Number | Stainless Steel Delrin Nose Part Number | A      | Force (lbs) |       | +.001 | B    | C      | D     | E   | F      | G    | H      | (lbs) J | Net Wt. 10 Pcs. |
|-------------------|-------------------------------|-----------------------------|-----------------------------------------|--------|-------------|-------|-------|------|--------|-------|-----|--------|------|--------|---------|-----------------|
|                   |                               |                             |                                         |        | Initial     | Final |       |      |        |       |     |        |      |        |         |                 |
| 27436             | 27575                         | 27836                       | 27579                                   | 1/4-20 | .50         | 2.5   | .156  | 3/8  | 5/8    | 1-1/4 | 1/4 | 5/8    | 3/32 | 1/2    | .15     |                 |
| 27437             | 27576                         | 27837                       | 27580                                   | 3/8-16 | .75         | 3.75  | .250  | 9/16 | 1-1/16 | 2     | 3/8 | 15/16  | 9/64 | 11/16  | .53     |                 |
| 27438             | 27577                         | 27838                       | 27581                                   | 1/2-13 | 1.0         | 5.0   | .312  | 3/4  | 1-1/8  | 2-1/8 | 1/2 | 1-1/4  | 3/16 | 3/4    | 1.03    |                 |
| 27439             | 27578                         | 27839                       | 27582                                   | 5/8-11 | 1.0         | 5.0   | .375  | 1    | 1-3/4  | 3     | 5/8 | 1-5/16 | 3/16 | 1-1/16 | 2.23    |                 |

### Locking Plungers – Long Reach – Short Length

| Steel Part Number | Steel Delrin Nose Part Number | Stainless Steel Part Number | Stainless Steel Delrin Nose Part Number | A      | Force (lbs) |       | +.001 | B     | C     | D     | E   | F      | G    | H   | (lbs) J | Net Wt. 10 Pcs. |
|-------------------|-------------------------------|-----------------------------|-----------------------------------------|--------|-------------|-------|-------|-------|-------|-------|-----|--------|------|-----|---------|-----------------|
|                   |                               |                             |                                         |        | Initial     | Final |       |       |       |       |     |        |      |     |         |                 |
| 27416             | 27583                         | 27867                       | 27587                                   | 1/4-20 | .125        | .50   | .156  | 3/16  | 7/16  | 3/4   | 1/4 | 9/16   | 3/32 | 1/4 | .1      |                 |
| 27417             | 27584                         | 27868                       | 27588                                   | 3/8-16 | .25         | 1.25  | .250  | 5/16  | 5/8   | 1-1/8 | 3/8 | 3/4    | 9/64 | 3/8 | .3      |                 |
| 27418             | 27585                         | 27869                       | 27589                                   | 1/2-13 | .50         | 2.0   | .312  | 13/32 | 7/8   | 1-1/2 | 1/2 | 1      | 3/16 | 1/2 | .7      |                 |
| 27419             | 27586                         | 27870                       | 27590                                   | 5/8-11 | .75         | 2.5   | .375  | 1/2   | 1-1/8 | 1-7/8 | 5/8 | 1-3/16 | 3/16 | 5/8 | 1.35    |                 |

Special materials and sizes available upon requests.  
Available in patch-style locking element only

# THREADED INSERTS

## Threaded Inserts

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## Installation Information



1. Drill to allow full tap depth shown in chart. Note: Tap drill is oversized; see chart below. Countersink as shown in chart.



2. Tap to depth shown in chart.



3. Install insert .010" to .030" below surface.



4. Drive keys down with proper installation tool.

## Removal Information

Jergens Keylocking Inserts can be removed without damage to the parent material.

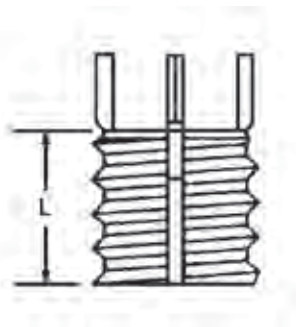
1. Drill the insert to the size and depth shown under removal data in the chart below.
2. Bend the keys down and break them off.
3. Remove the insert using an E-Z out or similar tool.



## Installation Information

### Preparation of External Threads

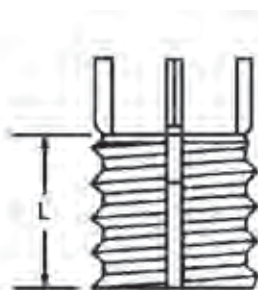
### Prior to Installation (For Keylocking Inserts Only)



| Insert                   |             | Installation Data |                         |                   | Removal Data |       |
|--------------------------|-------------|-------------------|-------------------------|-------------------|--------------|-------|
| External Thread Class 2A | Length L    | Tap Drill Size    | C'sink Dia. +.010 -.000 | Minimum Tap Depth | Drill        |       |
|                          |             |                   |                         |                   | Size         | Depth |
| 5/16-18                  | .31         | I                 | .323                    | .37               | 7/32         | 1/8   |
| 3/8-16                   | .31/.37     | Q                 | .385                    | .37/.43           | 9/32         | 1/8   |
| 7/16-14                  | .31/.37/.43 | X                 | .447                    | .37/.43/.50       | 11/32        | 3/16  |
| 1/2-13                   | .37/.43/.50 | 29/64             | .510                    | .44/.50/.56       | 13/32        | 3/16  |
| 9/16-12                  | .43/.50/.56 | 33/64             | .572                    | .50/.56/.62       | 15/32        | 3/16  |
| 5/8-11                   | .50/.62     | 37/64             | .635                    | .56/.68           | 17/32        | 3/16  |
| 3/4-16                   | .62/.81     | 45/64             | .760                    | .68/.94           | 21/32        | 3/16  |
| 7/8-14                   | .68/.81/.87 | 53/64             | .885                    | .75/.94/1.0       | 25/32        | 3/16  |
| 1-12                     | .87         | 15/16             | 1.020                   | 1.0               | 27/32        | 5/16  |
| 1 1/8-12                 | 1.12        | 1 1/16            | 1.145                   | 1.31              | 31/32        | 5/16  |
| 1 1/4-12                 | 1.12/1.25   | 1 3/16            | 1.270                   | 1.31/1.44         | 1 3/32       | 5/16  |
| 1 3/8-12                 | 1.25/1.37   | 1 5/16            | 1.395                   | 1.44/1.56         | 1 7/32       | 5/16  |
| 1 1/2-12                 | 1.37/1.62   | 1 7/16            | 1.520                   | 1.56/1.84         | 1 11/32      | 5/16  |
| 1 5/8-12                 | 1.81        | 1 9/16            | 1.640                   | 2.06              | 1 15/32      | 5/16  |
| 1 7/8-12                 | 2.00        | 1 13/16           | 1.890                   | 2.28              | 1 23/32      | 5/16  |



## Keylocking Inserts Thinwall Industrial Style



- Material: Carbon Steel Inserts - C1215 or equivalent  
Stainless Steel Insert - 303      Keys - 302
- Finish: Carbon Steel Inserts - Parkerized  
Stainless Steel Inserts - Passivated
- Tolerances: Inch  $\pm .010$       Metric  $\pm .25\text{mm}$
- Keys: Inserts with internal thread size of 5/16-18 or larger are furnished with four locking keys.
- RoHS compliant

### Inch Inserts - Thinwall

| Internal Thread<br>Class 2B | Part Number  |                 | External Thread | Length<br>L | Installation<br>Tool Part Number |
|-----------------------------|--------------|-----------------|-----------------|-------------|----------------------------------|
|                             | Carbon Steel | Stainless Steel |                 |             |                                  |
| 10-24                       | 25921        | 26321           | 5/16-18         | .31         | 24721                            |
| 10-32                       | 26121        | 26521           | 5/16-18         | .31         | 24721                            |
| 1/4-20                      | 25922        | 26322           | 3/8-16          | .37         | 24722                            |
| 1/4-28                      | 26122        | 26522           | 3/8-16          | .37         | 24722                            |
| 5/16-18                     | 25923        | 26323           | 7/16-14         | .43         | 24723                            |
| 5/16-24                     | 26123        | 26523           | 7/16-14         | .43         | 24723                            |
| 3/8-16                      | 25924        | 26324           | 1/2-13          | .50         | 24724                            |
| 3/8-24                      | 26124        | 26524           | 1/2-13          | .50         | 24724                            |
| 7/16-14                     | 25925        | 26325           | 9/16-12         | .56         | 24725                            |
| 7/16-20                     | 26125        | 26525           | 9/16-12         | .56         | 24725                            |
| 1/2-13                      | 25926        | 26326           | 5/8-11          | .62         | 24726                            |
| 1/2-20                      | 26126        | 26526           | 5/8-11          | .62         | 24726                            |

See chart on page 46 for installation information.

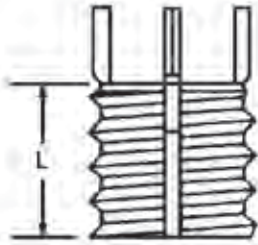
### Metric Inserts - Thinwall

| Part Number  |                 | Insert                      |                             | Installation |                               |                   |                                |                  |               | Removal |       |
|--------------|-----------------|-----------------------------|-----------------------------|--------------|-------------------------------|-------------------|--------------------------------|------------------|---------------|---------|-------|
| Carbon Steel | Stainless Steel | Internal Thread<br>Class 6H | External Thread<br>Class 6g | Length<br>L  | Installation<br>Tool Part No. | Tap Drill<br>Size | C'sink<br>Dia.<br>+.25<br>-.00 | Thread Tap       |               | Size    | Depth |
|              |                 |                             |                             |              |                               |                   |                                | Size<br>Class 6h | Min.<br>Depth |         |       |
| 25951        | 26351           | M 5x0.8                     | M 8x1.25                    | 8.0          | 24751                         | 6.9               | 8.25                           | M 8x1.25         | 9.5           | 5.50    | 4.00  |
| 25952        | 26352           | M 6x1.0                     | M 10x1.25                   | 10.0         | 24752                         | 8.8               | 10.25                          | M 10x1.25        | 11.5          | 7.50    | 4.75  |
| 25953        | 26353           | M 8x1.25                    | M 12x1.25                   | 12.0         | 24753                         | 10.8              | 12.25                          | M 12x1.25        | 13.5          | 9.50    | 4.75  |
| 26153        | 26553           | M 8x1.0                     | M 12x1.25                   | 12.0         | 24753                         | 10.8              | 12.25                          | M 12x1.25        | 13.5          | 9.50    | 4.75  |
| 25955        | 26355           | M 10x1.5                    | M 14x1.5                    | 14.0         | 24755                         | 12.8              | 14.25                          | M 14x1.5         | 15.5          | 11.50   | 4.75  |
| 26155        | 26555           | M 10x1.25                   | M 14x1.5                    | 14.0         | 24755                         | 12.8              | 14.25                          | M 14x1.5         | 15.5          | 11.50   | 4.75  |
| 25956        | 26356           | M 12x1.75                   | M 16x1.5                    | 16.0         | 24756                         | 14.75             | 16.25                          | M 16x1.5         | 17.5          | 13.50   | 4.75  |
| 26156        | 26556           | M 12x1.25                   | M 16x1.5                    | 16.0         | 24756                         | 14.75             | 16.25                          | M 16x1.5         | 17.5          | 13.50   | 4.75  |

Special materials, sizes and Mil-Spec available upon request



## Keylocking Inserts Heavy Duty Industrial Style



- Material: Carbon Steel Inserts - C1215 or equivalent  
Stainless Steel Insert - 303  
Keys - 302
- Finish: Carbon Steel Inserts - Parkerized  
Stainless Steel Inserts - Passivated
- Tolerances: Inch  $\pm .010$   
Metric  $\pm .25\text{mm}$
- Keys: Inserts with internal thread size of 5/16-18 or larger are furnished with four locking keys.
- RoHS compliant

### Inch Inserts - Heavy Duty

| Internal Thread Class 2B | Part Number  |                 | External Thread | Length L | Installation Tool Part Number |
|--------------------------|--------------|-----------------|-----------------|----------|-------------------------------|
|                          | Carbon Steel | Stainless Steel |                 |          |                               |
| 8-32                     | 25900        | 26300           | 5/16-18         | .31      | 24700                         |
| 10-24                    | 25901        | 26301           | 3/8-16          | .31      | 24701                         |
| 10-32                    | 26101        | 26501           | 3/8-16          | .31      | 24701                         |
| 1/4-20                   | 25902        | 26302           | 7/16-14         | .37      | 24702                         |
| 1/4-28                   | 26102        | 26502           | 7/16-14         | .37      | 24702                         |
| 5/16-18                  | 25903        | 26303           | 1/2-13          | .43      | 24703                         |
| 5/16-24                  | 26103        | 26503           | 1/2-13          | .43      | 24703                         |
| 3/8-16                   | 25904        | 26304           | 9/16-12         | .50      | 24704                         |
| 3/8-24                   | 26104        | 26504           | 9/16-12         | .50      | 24704                         |
| 7/16-14                  | 25905        | 26305           | 5/8-11          | .62      | 24705                         |
| 7/16-20                  | 26105        | 26505           | 5/8-11          | .62      | 24705                         |
| 1/2-13                   | 25906        | 26306           | 3/4-16          | .62      | 24706                         |
| 1/2-20                   | 26106        | 26506           | 3/4-16          | .62      | 24706                         |
| 9/16-12                  | 25907        | 26307           | 3/4-16          | .81      | 24707                         |
| 9/16-18                  | 26107        | 26507           | 3/4-16          | .81      | 24707                         |
| 5/8-11                   | 25908        | 26308           | 7/8-14          | .87      | 24708                         |
| 5/8-18                   | 26108        | 26508           | 7/8-14          | .87      | 24708                         |
| 3/4-10                   | 25909        | 26309           | 1 1/8-12        | 1.12     | 24709                         |
| 3/4-16                   | 26109        | 26509           | 1 1/8-12        | 1.12     | 24709                         |
| 7/8-9                    | 25910        | 26310           | 1 1/4-12        | 1.25     | 24710                         |
| 7/8-14                   | 26110        | 26510           | 1 1/4-12        | 1.25     | 24710                         |
| 1-8                      | 25911        | 26311           | 1 3/8-12        | 1.37     | 24711                         |
| 1-12                     | 26111        | 26511           | 1 3/8-12        | 1.37     | 24711                         |
| 1-14                     | 26112        | —               | 1 3/8-12        | 1.37     | 24711                         |
| 1 1/8-7                  | 25913        | —               | 1 1/2-12        | 1.62     | 24713                         |
| 1 1/8-12                 | 26113        | —               | 1 1/2-12        | 1.62     | 24713                         |
| 1 1/4-7                  | 25914        | —               | 1 5/8-12        | 1.81     | 24714                         |
| 1 1/4-12                 | 26114        | —               | 1 5/8-12        | 1.81     | 24714                         |
| 1 1/2-6                  | 25916        | —               | 1 7/8-12        | 2.00     | 24716                         |
| 1 1/2-12                 | 26116        | —               | 1 7/8-12        | 2.00     | 24716                         |

See chart on page 46 for installation information.

### Metric Inserts - Heavy Duty

| Part Number Carbon Steel | Part Number Stainless Steel | Insert                   |                          |          | Installation               |                |                                |               |            | Removal |       |
|--------------------------|-----------------------------|--------------------------|--------------------------|----------|----------------------------|----------------|--------------------------------|---------------|------------|---------|-------|
|                          |                             | Internal Thread Class 6H | External Thread Class 6g | Length L | Installation Tool Part No. | Tap Drill Size | C'sink Diameter $\pm .25$ -.00 | Thread Tap    |            | Drill   |       |
|                          |                             |                          |                          |          |                            |                |                                | Size Class 6h | Min. Depth | Size    | Depth |
| 25963                    | 26363                       | M 4x0.7                  | M 8x1.25                 | 8.0      | 24763                      | 6.9            | 8.25                           | M 8x1.25      | 9.5        | 5.50    | 4.00  |
| 25964                    | 26364                       | M 5x0.8                  | M 10x1.25                | 10.0     | 24764                      | 8.8            | 10.25                          | M 10x1.25     | 12.5       | 7.50    | 4.75  |
| 25965                    | 26365                       | M 6x1.0                  | M 12x1.25                | 12.0     | 24765                      | 10.8           | 12.25                          | M 12x1.25     | 14.5       | 9.50    | 4.75  |
| 25966                    | 26366                       | M 8x1.25                 | M 14x1.5                 | 14.0     | 24766                      | 12.8           | 14.25                          | M 14x1.5      | 16.5       | 11.50   | 4.75  |
| 26166                    | 26566                       | M 8x1.0                  | M 14x1.5                 | 14.0     | 24766                      | 12.8           | 14.25                          | M 14x1.5      | 16.5       | 11.50   | 4.75  |
| 25967                    | 26367                       | M 10x1.5                 | M 16x1.5                 | 16.0     | 24767                      | 14.75          | 16.25                          | M 16x1.5      | 18.5       | 13.50   | 4.75  |
| 26167                    | 26567                       | M 10x1.25                | M 16x1.5                 | 16.0     | 24767                      | 14.75          | 16.25                          | M 16x1.5      | 18.5       | 13.50   | 4.75  |
| 25969                    | 26369                       | M 12x1.75                | M 18x1.5                 | 18.0     | 24769                      | 16.75          | 18.25                          | M 18x1.5      | 20.5       | 15.50   | 4.75  |
| 26169                    | 26569                       | M 12x1.25                | M 18x1.5                 | 18.0     | 24769                      | 16.75          | 18.25                          | M 18x1.5      | 20.5       | 15.50   | 4.75  |
| 25970                    | 26370                       | M 14x2.0                 | M 20x1.5                 | 20.0     | 24770                      | 18.75          | 20.25                          | M 20x1.5      | 22.5       | 17.50   | 4.75  |
| 26170                    | 26570                       | M 14x1.5                 | M 20x1.5                 | 20.0     | 24770                      | 18.75          | 20.25                          | M 20x1.5      | 22.5       | 17.50   | 4.75  |
| 25971                    | 26371                       | M 16x2.0                 | M 22x1.5                 | 22.0     | 24771                      | 20.5           | 22.25                          | M 22x1.5      | 24.5       | 17.75   | 6.35  |
| 26171                    | 26571                       | M 16x1.5                 | M 22x1.5                 | 22.0     | 24771                      | 20.5           | 22.25                          | M 22x1.5      | 24.5       | 17.75   | 6.35  |
| 26172                    | 26572                       | M 18x1.5                 | M 24x1.5                 | 24.0     | 24772                      | 22.5           | 24.25                          | M 24x1.5      | 26.5       | 19.75   | 6.35  |
| 25973                    | 26373                       | M 20x2.5                 | M 30x2.0                 | 30.0     | 24773                      | 28.0           | 30.25                          | M 30x2.0      | 34.5       | 25.75   | 6.35  |
| 26173                    | 26573                       | M 20x1.5                 | M 30x2.0                 | 30.0     | 24773                      | 28.0           | 30.25                          | M 30x2.0      | 34.5       | 25.75   | 6.35  |
| 26174                    | 26574                       | M 22x1.5                 | M 32x2.0                 | 32.0     | 24774                      | 30.0           | 32.25                          | M 32x2.0      | 36.5       | 27.75   | 6.35  |
| 25975                    | 26375                       | M 24x3.0                 | M 33x2.0                 | 33.0     | 24775                      | 31.0           | 33.25                          | M 33x2.0      | 37.5       | 28.75   | 6.35  |
| 26175                    | 26575                       | M 24x2.0                 | M 33x2.0                 | 33.0     | 24775                      | 31.0           | 33.25                          | M 33x2.0      | 37.5       | 28.75   | 6.35  |

NOTE: Install insert .25mm to .76mm below surface and drive locking keys down. See C'sink Diameter column above.

Special materials, sizes and Mil-Spec available upon request

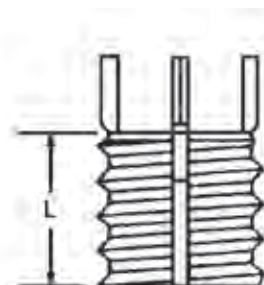


## Keylocking Inserts Metric/Inch Inserts



### Create Metric Holes... With Inch Taps!

This unique product allows you to create a metric thread utilizing inch drills and taps. The insert O.D. is inch sized, the I.D. is metric.



### Metric Internal/Inch External - Heavy Duty Industrial Style

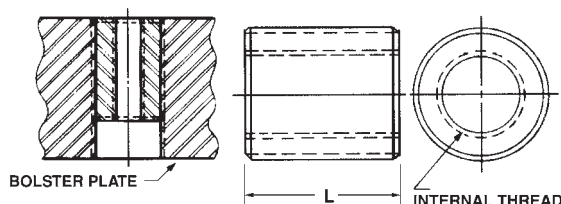
| Part Number<br>Carbon Steel | Insert                      |                             |             | Installation                     |                |                                |                  |            | Removal |       |
|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------------------|----------------|--------------------------------|------------------|------------|---------|-------|
|                             | Internal Thread<br>Class 6H | External Thread<br>Class 2A | Length<br>L | Installation Tool<br>Part Number | Tap Drill Size | C'sink Diameter<br>+.010 -.000 | Thread Tap       |            | Drill   |       |
|                             |                             |                             |             |                                  |                |                                | Size<br>Class 2b | Min. Depth | Size    | Depth |
| 26243                       | M 6x1.0                     | 3/8 - 16                    | .31         | 24843                            | Q              | .38                            | 3/8 - 16         | .37        | 9/32    | 1/8   |
| 26244                       | M 8x1.25                    | 1/2 - 13                    | .43         | 24844                            | 29/64          | .51                            | 1/2 - 13         | .50        | 13/32   | 3/16  |
| 26245                       | M 10x1.5                    | 5/8 - 11                    | .50         | 24845                            | 37/64          | .63                            | 5/8 - 11         | .56        | 17/32   | 3/16  |
| 26247                       | M 12x1.75                   | 3/4 - 16                    | .62         | 24847                            | 45/64          | .76                            | 3/4 - 16         | .68        | 21/32   | 3/16  |
| 26248                       | M 14x2.0                    | 7/8 - 14                    | .81         | 24848                            | 53/64          | .88                            | 7/8 - 14         | .94        | 25/32   | 5/16  |
| 26249                       | M 16x2.0                    | 1" - 12                     | .87         | 24849                            | 15/16          | 1.02                           | 1" - 12          | 1.00       | 27/32   | 5/16  |

All dimensions are in inches except for internal thread, which is metric.

## Bolster Plate Bushings



- Material: Stressproof
- Finish: Black Oxide
- Internal Thread: 2B-UNC
- External Thread: 2A-UNF



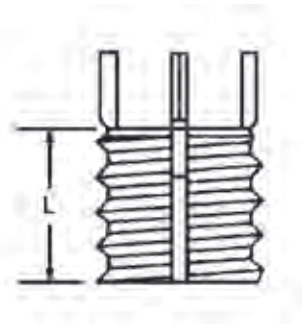
Repairs are made quickly, easily, and right on the machine. Re-tap bolster plate hole, insert the threaded bushing to match, use a locking type sealant to lock the bushing in place. The Bolster Plate Bushings can also be used as threaded bushings in cast iron machine bases where greater thread strength is necessary. Eliminates the problems of "pulled-out" cast iron threads, reduces the need for bulky threaded cast iron sections.

| Part Number | Internal Thread | External Thread | L     | Wt. (lbs)<br>10 Pcs. |
|-------------|-----------------|-----------------|-------|----------------------|
| 11701       | 3/8-16          | 3/4-16          | 1 1/2 | 1.25                 |
| 11702       | 1/2-13          | 1 -14           | 1 1/2 | 2.20                 |
| 11703       | 5/8-11          | 1 -14           | 1 1/2 | 1.85                 |
| 11704       | 3/4-10          | 1 1/4-12        | 1 1/2 | 3.00                 |
| 11705       | 1 -8            | 1 1/2-12        | 2     | 5.15                 |

Special materials, sizes and Mil-Spec available upon request



## Keylocking Inserts Extra Heavy Duty Industrial Style



The increased wall thickness and greater external thread area of these extra heavy duty threaded inserts offer greater pull-out strength, stability, and longer life. These inserts should be used in materials with lower ultimate shear strength to obtain maximum pull-out strength and holding power.

- Greater Thread Area
- Increased Shear Engagement
- Offers Holding Power Comparable to Standard Heavy Duty Inserts in High Shear Strength Material
- Material: Carbon Steel Inserts - C1215 or equivalent  
Stainless Steel Insert - 303  
Keys - 302
- Finish: Carbon Steel Inserts - Parkerized  
Stainless Steel Inserts - Passivated
- Tolerances:  $\pm .010$
- Keys: Inserts with internal thread size of 5/16-18 or larger are furnished with four locking keys.
- RoHS compliant

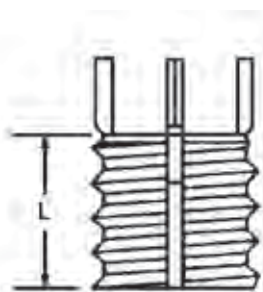
| Internal Thread Class 2B | Part Number  |                 | External Thread Class 2A | Length L | Installation Tool Part Number |
|--------------------------|--------------|-----------------|--------------------------|----------|-------------------------------|
|                          | Carbon Steel | Stainless Steel |                          |          |                               |
| 6-32                     | 25931        | 26331           | 5/16-18                  | .31      | 24731                         |
| 8-32                     | 25932        | 26332           | 3/8-16                   | .31      | 24732                         |
| 10-24                    | 25933        | 26333           | 7/16-14                  | .31      | 24733                         |
| 10-32                    | 26133        | 26533           | 7/16-14                  | .31      | 24733                         |
| 1/4-20                   | 25934        | 26334           | 1/2-13                   | .37      | 24734                         |
| 1/4-28                   | 26134        | 26534           | 1/2-13                   | .37      | 24734                         |
| 5/16-18                  | 25935        | 26335           | 9/16-12                  | .43      | 24735                         |
| 5/16-24                  | 26135        | 26535           | 9/16-12                  | .43      | 24735                         |
| 3/8-16                   | 25936        | 26336           | 5/8-11                   | .50      | 24736                         |
| 3/8-24                   | 26136        | 26536           | 5/8-11                   | .50      | 24736                         |
| 7/16-14                  | 25937        | 26337           | 3/4-16                   | .62      | 24737                         |
| 7/16-20                  | 26137        | 26537           | 3/4-16                   | .62      | 24737                         |
| 1/2-13                   | 25938        | 26338           | 7/8-14                   | .68      | 24738                         |
| 1/2-20                   | 26138        | 26538           | 7/8-14                   | .68      | 24738                         |
| 9/16-12                  | 25939        | 26339           | 7/8-14                   | .81      | 24739                         |
| 9/16-18                  | 26139        | 26539           | 7/8-14                   | .81      | 24739                         |
| 5/8-11                   | 25940        | 26340           | 1-12                     | .87      | 24740                         |
| 5/8-18                   | 26140        | 26540           | 1-12                     | .87      | 24740                         |
| 3/4-10                   | 25941        | 26341           | 1 1/4-12                 | 1.12     | 24741                         |
| 3/4-16                   | 26141        | 26541           | 1 1/4-12                 | 1.12     | 24741                         |
| 7/8-9                    | 25942        | 26342           | 1 3/8-12                 | 1.25     | 24742                         |
| 7/8-14                   | 26142        | 26542           | 1 3/8-12                 | 1.25     | 24742                         |
| 1-8                      | 25943        | 26343           | 1 1/2-12                 | 1.37     | 24743                         |
| 1-12                     | 26143        | 26543           | 1 1/2-12                 | 1.37     | 24743                         |

See chart on page 46 for installation information.

Special materials, sizes and Mil-Spec available upon request



### Keylocking Inserts Solid Industrial Style



- Material: Carbon Steel Inserts - C1215 or equivalent  
Stainless Steel Insert - 303  
Keys - 302
- Finish: Carbon Steel Inserts - Parkerized  
Stainless Steel Inserts - Passivated
- Tolerances: Inch  $\pm .010$   
Metric  $\pm .25\text{mm}$
- Keys: Inserts with internal thread size of M7 or larger are furnished with four locking keys.
- RoHS compliant

| External Thread Class 2A | Part Number  |                 | Length L | Installation Tool Part Number |
|--------------------------|--------------|-----------------|----------|-------------------------------|
|                          | Carbon Steel | Stainless Steel |          |                               |
| 5/16-18                  | 26001        | 26401           | .31      | 24801                         |
| 3/8-16                   | 26002        | 26402           | .31      | 24802                         |
| 7/16-14                  | 26003        | 26403           | .37      | 24803                         |
| 1/2-13                   | 26004        | 26404           | .43      | 24804                         |
| 9/16-12                  | 26005        | 26405           | .50      | 24805                         |
| 5/8-11                   | 26006        | 26406           | .62      | 24806                         |
| 3/4-16                   | 26007        | 26407           | .68      | 24807                         |
| 7/8-14                   | 26008        | 26408           | .87      | 24808                         |
| 1-12                     | 26009        | 26409           | .87      | 24809                         |
| 1 1/8-12                 | 26010        | 26410           | 1.12     | 24810                         |
| 1 1/4-12                 | 26011        | 26411           | 1.25     | 24811                         |
| 1 3/8-12                 | 26012        | 26412           | 1.37     | 24812                         |

See chart on page 46 for installation information.

- Salvage expensive castings
- Relocate holes that have been drilled or tapped in the wrong location
- Fill holes that are too large
- No need to alter original bolt size

### Metric Inserts - Solid

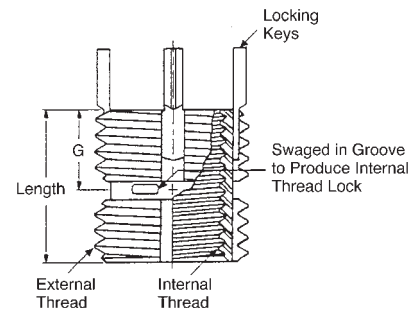
| Part Number<br>Carbon Steel | Insert                   |          | Installation               |                |                              |               |            | Removal |       |
|-----------------------------|--------------------------|----------|----------------------------|----------------|------------------------------|---------------|------------|---------|-------|
|                             | External Thread Class 6g | Length L | Installation Tool Part No. | Tap Drill Size | C'sink Dia. $+.25$<br>$-.00$ | Thread Tap    |            | Drill   |       |
|                             |                          |          |                            |                |                              | Size Class 6h | Min. Depth | Size    | Depth |
| 26021                       | M 8x1.25                 | 8.0      | 24821                      | 6.9            | 8.25                         | M 8x1.25      | 9.5        | 5.50    | 4.00  |
| 26022                       | M 10x1.25                | 10.0     | 24822                      | 8.8            | 10.25                        | M 10x1.25     | 12.5       | 7.50    | 4.75  |
| 26023                       | M 12x1.25                | 12.0     | 24823                      | 10.8           | 12.25                        | M 12x1.25     | 14.5       | 9.50    | 4.75  |
| 26024                       | M 14x1.5                 | 14.0     | 24824                      | 12.8           | 14.25                        | M 14x1.5      | 16.5       | 11.50   | 4.75  |
| 26025                       | M 16x1.5                 | 16.0     | 24825                      | 14.75          | 16.25                        | M 16x1.5      | 18.5       | 13.50   | 4.75  |
| 26026                       | M 18x1.5                 | 18.0     | 24826                      | 16.75          | 18.25                        | M 18x1.5      | 20.5       | 15.50   | 4.75  |
| 26027                       | M 20x1.5                 | 20.0     | 24827                      | 18.75          | 20.25                        | M 20x1.5      | 22.5       | 17.50   | 4.75  |
| 26028                       | M 22x1.5                 | 22.0     | 24828                      | 20.5           | 22.25                        | M 22x1.5      | 24.5       | 17.75   | 6.35  |
| 26029                       | M 24x1.5                 | 24.0     | 24829                      | 22.5           | 24.25                        | M 24x1.5      | 26.5       | 19.75   | 6.35  |
| 26030                       | M 30x2.0                 | 30.0     | 24830                      | 28.0           | 30.25                        | M 30x2.0      | 34.5       | 25.75   | 6.35  |
| 26031                       | M 32x2.0                 | 32.0     | 24831                      | 30.0           | 32.25                        | M 32x2.0      | 36.5       | 27.75   | 6.35  |
| 26032                       | M 33x2.0                 | 33.0     | 24832                      | 31.0           | 33.25                        | M 33x2.0      | 37.5       | 28.75   | 6.35  |

Special materials, sizes and Mil-Spec available upon request



## Internal Locking Thread Repair Inserts

Material: Inserts - 303 stainless steel or equivalent  
Keys - 302 stainless steel or equivalent  
Finish: Passivated  
Tolerances:  $\pm .010$  inch unless specified otherwise.  
Dimensions: All dimensions below are in inches.  
Keys: Inserts with an internal thread size of 5/16 and larger are furnished with 4 locking keys. Smaller sizes have 2 locking keys.  
RoHS compliant



### Thinwall - Locking

| Insert      |                          |                                 |        |          | Installation               |                |                            |               |            | Removal |       |
|-------------|--------------------------|---------------------------------|--------|----------|----------------------------|----------------|----------------------------|---------------|------------|---------|-------|
| Part Number | Internal Thread Class 2B | External Thread (Mod.) Class 2A | Length | G (Ref.) | Installation Tool Part No. | Tap Drill Size | C'sink Dia $+.010$ $-.000$ | Thread Tap    |            | Drill   |       |
|             |                          |                                 |        |          |                            |                |                            | Size Class 2B | Min. Depth | Size    | Depth |
| 24521       | 10 - 24                  | 5/16 - 18                       | .31    | .15      | 24721                      | "I"            | .32                        | 5/16 - 18     | .37        | 7/32    | 1/8   |
| 24621       | 10 - 32                  |                                 |        |          |                            |                |                            |               |            |         |       |
| 24522       | 1/4 - 20                 | 3/8 - 16                        | .37    | .18      | 24722                      | "Q"            | .38                        | 3/8 - 16      | .43        | 9/32    | 3/16  |
| 24622       | 1/4 - 28                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24523       | 5/16 - 18                | 7/16 - 14                       | .43    | .21      | 24723                      | "X"            | .44                        | 7/16 - 14     | .50        | 11/32   | 3/16  |
| 24623       | 5/16 - 24                |                                 |        |          |                            |                |                            |               |            |         |       |
| 24524       | 3/8 - 16                 | 1/2 - 13                        | .50    | .25      | 24724                      |                | .51                        | 1/2 - 13      | .56        | 13/32   | 3/16  |
| 24624       | 3/8 - 24                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24525       | 7/16 - 14                | 9/16 - 12                       | .56    | .28      | 24725                      |                | .57                        | 9/16 - 12     | .62        | 15/32   | 3/16  |
| 24625       | 7/16 - 20                |                                 |        |          |                            |                |                            |               |            |         |       |
| 24526       | 1/2 - 13                 | 5/8 - 11                        | .62    | .31      | 24726                      |                | .63                        | 5/8 - 11      | .68        | 17/32   | 3/16  |
| 24626       | 1/2 - 20                 |                                 |        |          |                            |                |                            |               |            |         |       |

### Heavy Duty - Locking

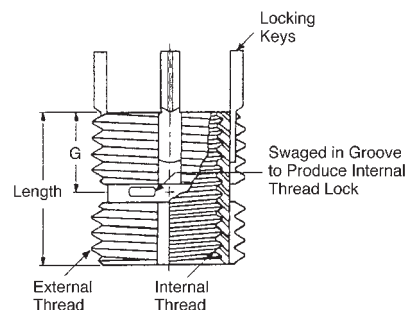
| Insert      |                          |                                 |        |          | Installation               |                |                            |               |            | Removal |       |
|-------------|--------------------------|---------------------------------|--------|----------|----------------------------|----------------|----------------------------|---------------|------------|---------|-------|
| Part Number | Internal Thread Class 2B | External Thread (Mod.) Class 2A | Length | G (Ref.) | Installation Tool Part No. | Tap Drill Size | C'sink Dia $+.010$ $-.000$ | Thread Tap    |            | Drill   |       |
|             |                          |                                 |        |          |                            |                |                            | Size Class 2B | Min. Depth | Size    | Depth |
| 24500       | 8 - 32                   | 5/16 - 18                       | .31    | .15      | 24700                      | "I"            | .32                        | 5/16 - 18     | .37        | 7/32    | 1/8   |
| 24501       | 10 - 24                  | 3/8 - 16                        | .31    | .15      | 24701                      | "Q"            | .38                        | 3/8 - 16      | .37        | 9/32    | 1/8   |
| 24601       | 10 - 32                  |                                 |        |          |                            |                |                            |               |            |         |       |
| 24502       | 1/4 - 20                 | 7/16 - 14                       | .37    | .18      | 24702                      | "X"            | .44                        | 7/16 - 14     | .43        | 11/32   | 3/16  |
| 24602       | 1/4 - 28                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24503       | 5/16 - 18                | 1/2 - 13                        | .43    | .21      | 24703                      |                | .51                        | 1/2 - 13      | .50        | 13/32   | 3/16  |
| 24603       | 5/16 - 24                |                                 |        |          |                            |                |                            |               |            |         |       |
| 24504       | 3/8 - 16                 | 9/16 - 12                       | .50    | .25      | 24704                      |                | .57                        | 9/16 - 12     | .56        | 15/32   | 3/16  |
| 24604       | 3/8 - 24                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24505       | 7/16 - 14                | 5/8 - 11                        | .62    | .31      | 24705                      |                | .63                        | 5/8 - 11      | .68        | 17/32   | 3/16  |
| 24605       | 7/16 - 20                |                                 |        |          |                            |                |                            |               |            |         |       |
| 24506       | 1/2 - 13                 | 3/4 - 16                        | .62    | .31      | 24706                      |                | .76                        | 3/4 - 16      | .68        | 21/32   | 3/16  |
| 24606       | 1/2 - 20                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24507       | 9/16 - 12                | 3/4 - 16                        | .81    | .40      | 24707                      |                | .76                        | 3/4 - 16      | .94        | 21/32   | 3/16  |
| 24607       | 9/16 - 18                |                                 |        |          |                            |                |                            |               |            |         |       |
| 24508       | 5/8 - 11                 | 7/8 - 14                        | .87    | .43      | 24708                      |                | .88                        | 7/8 - 14      | 1.00       | 25/32   | 5/16  |
| 24608       | 5/8 - 18                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24509       | 3/4 - 10                 | 1-1/8 - 12                      | 1.12   | .56      | 24709                      | 1-1/16         | 1.14                       | 1-1/8 - 12    | 1.31       | 31/32   | 5/16  |
| 24609       | 3/4 - 16                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24510       | 7/8 - 9                  | 1-1/4 - 12                      | 1.25   | .62      | 24710                      | 1-3/16         | 1.27                       | 1-1/4 - 12    | 1.44       | 1-3/32  | 5/16  |
| 24610       | 7/8 - 14                 |                                 |        |          |                            |                |                            |               |            |         |       |
| 24511       | 1" - 8                   | 1-3/8 - 12                      | 1.37   | .68      | 24711                      | 1-5/16         | 1.39                       | 1-3/8 - 12    | 1.56       | 1-7/32  | 5/16  |
| 24611       | 1" - 12                  |                                 |        |          |                            |                |                            |               |            |         |       |

Special materials, sizes and Mil-Spec available upon request



## Metric Internal Locking Thread Repair Inserts

Material: Inserts - 303 stainless steel or equivalent  
Keys - 302 stainless steel or equivalent  
Finish: Passivated  
Tolerances:  $\pm 0.25$  mm unless specified otherwise.  
Dimensions: All dimensions below are in millimeters  
Keys: Inserts with an internal thread size of M7 and larger are furnished with 4 locking keys. Smaller sizes have 2 locking keys.  
RoHS compliant



### Thinwall - Metric - Locking

| Part Number | Insert                   |                          |        |          | Installation               |                |                             |               |            | Removal |       |
|-------------|--------------------------|--------------------------|--------|----------|----------------------------|----------------|-----------------------------|---------------|------------|---------|-------|
|             | Internal Thread Class 6H | External Thread Class 6g | Length | G (Ref.) | Installation Tool Part No. | Tap Drill Size | C'sink Dia. $+0.25$ $-0.00$ | Thread Tap    |            | Drill   |       |
|             |                          |                          |        |          |                            |                |                             | Size Class 6h | Min. Depth | Size    | Depth |
| 24551       | M 5x0.8                  | M 8x1.25                 | 8.0    | 4.0      | 24751                      | 6.9            | 8.25                        | M 8x1.25      | 9.5        | 5.50    | 4.00  |
| 24552       | M 6x1.0                  | M 10x1.25                | 10.0   | 5.0      | 24752                      | 8.8            | 10.25                       | M 10x1.25     | 11.5       | 7.50    | 4.75  |
| 24553       | M 8x1.25                 | M 12x1.25                | 12.0   | 6.0      | 24753                      | 10.8           | 12.25                       | M 12x1.25     | 13.5       | 9.50    | 4.75  |
| 24653       | M 8x1.0                  |                          |        |          |                            |                |                             |               |            |         |       |
| 24555       | M 10x1.5                 | M 14x1.5                 | 14.0   | 7.0      | 24755                      | 12.8           | 14.25                       | M 14x1.5      | 15.5       | 11.50   | 4.75  |
| 24655       | M 10x1.25                |                          |        |          |                            |                |                             |               |            |         |       |
| 24556       | M 12x1.75                | M 16x1.5                 | 16.0   | 8.0      | 24756                      | 14.75          | 16.25                       | M 16x1.5      | 17.5       | 13.50   | 4.75  |
| 24656       | M 12x1.25                |                          |        |          |                            |                |                             |               |            |         |       |

### Heavy Duty - Metric - Locking

| Part Number | Insert                   |                          |        |          | Installation               |                |                             |               |            | Removal |       |
|-------------|--------------------------|--------------------------|--------|----------|----------------------------|----------------|-----------------------------|---------------|------------|---------|-------|
|             | Internal Thread Class 6H | External Thread Class 6g | Length | G (Ref.) | Installation Tool Part No. | Tap Drill Size | C'sink Dia. $+0.25$ $-0.00$ | Thread Tap    |            | Drill   |       |
|             |                          |                          |        |          |                            |                |                             | Size Class 6h | Min. Depth | Size    | Depth |
| 24563       | M 4X0.7                  | M 8x1.25                 | 8.0    | 4.0      | 24763                      | 6.9            | 8.25                        | M 8x1.25      | 9.5        | 5.50    | 4.00  |
| 24564       | M 5x0.8                  | M 10x1.25                | 10.0   | 5.0      | 24764                      | 8.8            | 10.25                       | M 10x1.25     | 12.5       | 7.50    | 4.75  |
| 24565       | M 6x1.0                  | M 12x1.25                | 12.0   | 6.0      | 24765                      | 10.8           | 12.25                       | M 12x1.25     | 14.5       | 9.50    | 4.75  |
| 24566       | M 8x1.25                 | M 14x1.5                 | 14.0   | 7.0      | 24766                      | 12.8           | 14.25                       | M 14x1.5      | 16.5       | 11.50   | 4.75  |
| 24666       | M 8x1.0                  |                          |        |          |                            |                |                             |               |            |         |       |
| 24567       | M 10x1.5                 | M 16x1.5                 | 16.0   | 8.0      | 24767                      | 14.75          | 16.25                       | M 16x1.5      | 18.5       | 13.50   | 4.75  |
| 24667       | M 10x1.25                |                          |        |          |                            |                |                             |               |            |         |       |
| 24569       | M 12x1.75                | M 18x1.5                 | 18.0   | 9.0      | 24769                      | 16.75          | 18.25                       | M 18x1.5      | 20.5       | 15.50   | 4.75  |
| 24669       | M 12x1.25                |                          |        |          |                            |                |                             |               |            |         |       |
| 24570       | M 14x2.0                 | M 20x1.5                 | 20.0   | 10.0     | 24770                      | 18.75          | 20.25                       | M 20x1.5      | 22.5       | 17.50   | 4.75  |
| 24670       | M 14x1.5                 |                          |        |          |                            |                |                             |               |            |         |       |
| 24571       | M 16x2.0                 | M 22x1.5                 | 22.0   | 11.0     | 24771                      | 20.5           | 22.25                       | M 22x1.5      | 24.5       | 17.75   | 6.35  |
| 24671       | M 16x1.5                 |                          |        |          |                            |                |                             |               |            |         |       |
| 24672       | M 18x1.5                 | M 24x1.5                 | 24.0   | 12.0     | 24772                      | 22.5           | 24.25                       | M 24x1.5      | 26.5       | 19.75   | 6.35  |
| 24573       | M 20x2.5                 | M 30x2.0                 | 30.0   | 15.0     | 24773                      | 28.0           | 30.25                       | M 30x2.0      | 34.5       | 25.75   | 6.35  |
| 24673       | M 20x1.5                 |                          |        |          |                            |                |                             |               |            |         |       |
| 24674       | M 22x1.5                 | M 32x2.0                 | 32.0   | 16.0     | 24774                      | 30.0           | 32.25                       | M 32x2.0      | 36.5       | 27.75   | 6.35  |
| 24575       | M 24x3.0                 | M 33x2.0                 | 33.0   | 16.5     | 24775                      | 31.0           | 33.25                       | M 33x2.0      | 37.5       | 28.75   | 6.35  |
| 24675       | M 24x2.0                 |                          |        |          |                            |                |                             |               |            |         |       |

Special materials, sizes and Mil-Spec available upon request



## Miniature - Metric 303 CRES Keylocking Threaded Inserts

Material: Inserts - 303 CRES

Keys - 302 CRES

Finish: Passivated

Tolerances:  $\pm .25$  mm unless specified otherwise

Internal Threads: Per Fed Std H28/21, MJ Form

Dimensions: All dimensions below are in millimeters

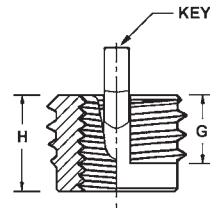
Keys: Miniature Inserts are furnished with 2 locking keys

Material Identification Mark: None

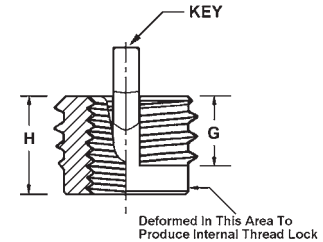
Lubrication: Dry Film Lube on Self-Locking Inserts only

RoHS compliant

Non-Locking



Self-Locking



| Part Number* |              |                            | Insert                   |                 |          | Installation          |                               |                          |               |            | Removal |       |
|--------------|--------------|----------------------------|--------------------------|-----------------|----------|-----------------------|-------------------------------|--------------------------|---------------|------------|---------|-------|
| Non-Locking  | Self-Locking | Internal Thread Class 4H6H | External Thread Class 4h | Thread Length G | Length H | Install Tool Part No* | Tap Drill Size $+.080/- .025$ | C'Sink Dia. $+.25/- .00$ | Thread Tap    |            | Drill   |       |
|              |              |                            |                          |                 |          |                       |                               |                          | Size Class 6H | Min. Depth | Size    | Depth |
| 26382        | 27382        | M 2x0.4                    | M 4x0.7                  | 2.20            | 3.00     | 22682                 | 3.4                           | 4.1                      | M 4x0.7       | 4.0        | 2.8     | 2.00  |
| 26383        | 27383        | M 2.5x0.45                 | M 4.5x0.75               | 2.70            | 3.81     | 22683                 | 3.9                           | 4.6                      | M 4.5x0.75    | 5.0        | 3.0     | 2.00  |
| 26384        | 27384        | M 3x0.5                    | M 5x0.8                  | 3.10            | 4.25     | 22684                 | 4.4                           | 5.1                      | M 5x0.8       | 5.5        | 3.5     | 2.25  |
| 26386        | 27386        | M 4x0.7                    | M 6x0.75                 | 4.11            | 5.25     | 22686                 | 5.5                           | 6.1                      | M 6x0.75      | 6.5        | 4.6     | 2.50  |

## Miniature - Inch 303 CRES Keylocking Threaded Inserts

Material: Inserts - 303 CRES

Keys - 302 CRES

Finish: Passivated

Tolerances:  $\pm .010$  inch unless specified otherwise

Internal Threads: Per SAE AS8879

Dimensions: All dimensions below are in inches

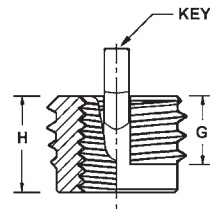
Keys: Miniature Inserts are furnished with 2 locking keys

Material Identification Mark: None

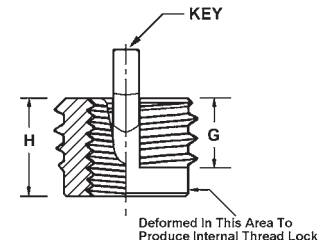
Lubrication: Dry Film Lube on Self-Locking Inserts only

RoHS compliant

Non-Locking



Self-Locking



| Part Number* |              |                          | Insert                   |                 |          | Installation          |                               |                            |               |            | Removal |       |
|--------------|--------------|--------------------------|--------------------------|-----------------|----------|-----------------------|-------------------------------|----------------------------|---------------|------------|---------|-------|
| Non-Locking  | Self-Locking | Internal Thread Class 3B | External Thread Class 2A | G Thread Length | H Length | Install Tool Part No* | Tap Drill Size $+.003/- .001$ | C'Sink Dia. $+.010/- .000$ | Thread Tap    |            | Drill   |       |
|              |              |                          |                          |                 |          |                       |                               |                            | Size Class 2B | Min. Depth | Size    | Depth |
| 26283        | 27283        | 2 - 56                   | 8 - 32                   | .090            | .120     | 22552                 | .134                          | .166                       | 8 - 32        | .140       | #33     | 1/16  |
| 26284        | 27284        | 4 - 40                   | 10 - 32                  | .125            | .170     | 22554                 | .161                          | .194                       | 10 - 32       | .160       | #29     | 3/32  |
| 26285        | 27285        | 6 - 32                   | 12 - 28                  | .125            | .170     | 22556                 | .187                          | .220                       | 12 - 28       | .160       | #21     | 3/32  |
| 26286        | 27286        | 8 - 32                   | 1/4 - 28 <sup>†</sup>    | .175            | .220     | 22558                 | .228                          | .255                       | 1/4 - 28      | .210       | #8      | 1/8   |

<sup>†</sup> Modified Minor Diameter

High Strength Materials Available: These miniature inserts are also manufactured in high strength stainless steel (A-286 with heat treatment) and in alloy steel (4140 with heat treatment).

Special materials, sizes and Mil-Spec available upon request



## MS/NAS Style Insert

Jergens now offers Mil-Spec Keylocking Threaded Inserts



### Thread Inserts

- Inch and metric sizes available
- Standard Material: 303 CRES  
C1215
- Special Material: A286 CRES  
4140 Alloy Steel

| Insert Style                                            |
|---------------------------------------------------------|
| <b>Miniature &amp; Lightweight</b><br>MS 51830/NAS 1394 |
| <b>Heavy Duty</b><br>MS 51831/NAS 1395                  |
| <b>Extra Heavy Duty</b><br>MS 51832                     |

**Please contact Jergens  
for cross reference and  
ordering information.  
1-866-KWIK-LOK (594-5565)**



## Master Thread Repair Kits Small Assortments



The Jergens Master Thread Repair Kits include several different kinds of inserts, installation tools and installation and removal instructions.

The Kits are available with inch or metric, carbon steel inserts or with stainless steel inserts.

### Coarse Series, Heavy Duty Kits

| Internal Thread Class 2B | External Thread (Mod) Class 2A | Length | Quantity of Inserts Per Kit |
|--------------------------|--------------------------------|--------|-----------------------------|
| 10 - 24                  | 3/8 - 16                       | .31    | 5                           |
| 1/4 - 20                 | 7/16 - 14                      | .37    | 10                          |
| 5/16 - 18                | 1/2 - 13                       | .43    | 10                          |
| 3/8 - 16                 | 9/16 - 12                      | .50    | 10                          |
| 1/2 - 13                 | 3/4 - 16                       | .62    | 10                          |
| 5/8 - 11                 | 7/8 - 14                       | .87    | 10                          |
| 3/4 - 10                 | 1-1/8 - 12                     | 1.12   | 5                           |

**Total Inserts Per Kit 60 pcs.**

| Carbon Steel Kit |
|------------------|
| <b>25949</b>     |

| Stainless Steel Kit |
|---------------------|
| <b>26349</b>        |

### Fine Series, Heavy Duty Kits

| Internal Thread Class 2B | External Thread Class 2A | Length | Quantity of Inserts Per Kit |
|--------------------------|--------------------------|--------|-----------------------------|
| 10 - 32                  | 3/8 - 16                 | .31    | 5                           |
| 1/4 - 28                 | 7/16 - 14                | .37    | 10                          |
| 5/16 - 24                | 1/2 - 13                 | .43    | 10                          |
| 3/8 - 24                 | 9/16 - 12                | .50    | 10                          |
| 1/2 - 20                 | 3/4 - 16                 | .62    | 10                          |
| 5/8 - 18                 | 7/8 - 14                 | .87    | 10                          |
| 3/4 - 16                 | 1-1/8 - 12               | 1.12   | 5                           |

**Total Inserts Per Kit 60 pcs.**

| Carbon Steel Kit |
|------------------|
| <b>26149</b>     |

| Stainless Steel Kit |
|---------------------|
| <b>26549</b>        |

### Metric, Thinwall Kits

| Internal Thread Class 2B | External Thread Class 2A | Length (mm) | Quantity of Inserts Per Kit |
|--------------------------|--------------------------|-------------|-----------------------------|
| M 5x0.8                  | M 8x1.25                 | 8.0         | 8                           |
| M 6x1.0                  | M 10x1.25                | 10.0        | 8                           |
| M 8x1.25                 | M 12x1.25                | 12.0        | 6                           |
| M 8x1.0                  | M 12x1.25                | 12.0        | 6                           |
| M 10x1.5                 | M 14x1.5                 | 14.0        | 4                           |
| M 10x1.25                | M 14x1.5                 | 14.0        | 4                           |
| M 12x1.75                | M 16x1.5                 | 16.0        | 3                           |
| M 12x1.25                | M 16x1.5                 | 16.0        | 3                           |

**Total Inserts Per Kit 42 pcs.**

| Metric Carbon Steel Kit |
|-------------------------|
| <b>25999</b>            |

| Stainless Steel Kit |
|---------------------|
| <b>25998</b>        |



## Master Thread Repair Kits Large Assortments

### Coarse Series, Heavy Duty Kits

| Internal Thread Class 2B | External Thread (Mod) Class 2A | Length | Quantity of Inserts Per Kit |
|--------------------------|--------------------------------|--------|-----------------------------|
| 1/4 - 20                 | 7/16 - 14                      | .37    | 20                          |
| 5/16 - 18                | 1/2 - 13                       | .43    | 15                          |
| 3/8 - 16                 | 9/16 - 12                      | .50    | 10                          |
| 7/16 - 14                | 5/8 - 11                       | .62    | 10                          |
| 1/2 - 13                 | 3/4 - 16                       | .62    | 6                           |
| 9/16 - 12                | 3/4 - 16                       | .81    | 5                           |
| 5/8 - 11                 | 7/8 - 14                       | .87    | 3                           |
| 3/4 - 10                 | 1-1/8 - 12                     | 1.12   | 3                           |
| 7/8 - 9                  | 1-1/4 - 12                     | 1.25   | 3                           |
| 1" - 8                   | 1-3/8 - 12                     | 1.37   | 2                           |

**Total Inserts Per Kit 77 pcs.**

| Carbon Steel Kit |
|------------------|
| <b>25945</b>     |

| Stainless Steel Kit |
|---------------------|
| <b>26345</b>        |

### Fine Series, Heavy Duty Kits

| Internal Thread Class 2B | External Thread (Mod) Class 2A | Length | Quantity of Inserts Per Kit |
|--------------------------|--------------------------------|--------|-----------------------------|
| 1/4 - 28                 | 7/16 - 14                      | .37    | 10                          |
| 5/16 - 24                | 1/2 - 13                       | .43    | 10                          |
| 3/8 - 24                 | 9/16 - 12                      | .50    | 10                          |
| 7/16 - 20                | 5/8 - 11                       | .62    | 10                          |
| 1/2 - 20                 | 3/4 - 16                       | .62    | 6                           |
| 9/16 - 18                | 3/4 - 16                       | .81    | 5                           |
| 5/8 - 18                 | 7/8 - 14                       | .87    | 3                           |
| 3/4 - 16                 | 1-1/8 - 12                     | 1.12   | 3                           |
| 7/8 - 14                 | 1-1/4 - 12                     | 1.25   | 3                           |
| 1" - 12                  | 1-3/8 - 12                     | 1.37   | 2                           |

**Total Inserts Per Kit 77 pcs.**

| Carbon Steel Kit |
|------------------|
| <b>26145</b>     |

| Stainless Steel Kit |
|---------------------|
| <b>26545</b>        |

### Metric, Thinwall Kits

| Internal Thread Class 6H | External Thread Class 6g | Length (mm) | Quantity of Inserts Per Kit |
|--------------------------|--------------------------|-------------|-----------------------------|
| M 6x1.0                  | M 10x1.25                | 10.0        | 20                          |
| M 8x1.25                 | M 12x1.25                | 12.0        | 15                          |
| M 8x1.0                  | M 12x1.25                | 12.0        | 15                          |
| M 10x1.5                 | M 14x1.5                 | 14.0        | 10                          |
| M 10x1.25                | M 14x1.5                 | 14.0        | 10                          |
| M 12x1.75                | M 16x1.5                 | 16.0        | 6                           |
| M 12x1.25                | M 16x1.5                 | 16.0        | 6                           |

**Total Inserts Per Kit 82 pcs.**

| Metric Carbon Steel Kit |
|-------------------------|
| <b>25997</b>            |

| Stainless Steel Kit |
|---------------------|
| <b>25996</b>        |

### Coarse Series, Thinwall Kits

| Internal Thread Class 2B | External Thread (Mod) Class 2A | Length | Quantity of Inserts Per Kit |
|--------------------------|--------------------------------|--------|-----------------------------|
| 10 - 24                  | 5/16 - 18                      | .31    | 20                          |
| 1/4 - 20                 | 3/8 - 16                       | .37    | 20                          |
| 5/16 - 18                | 7/16 - 14                      | .43    | 15                          |
| 3/8 - 16                 | 1/2 - 13                       | .50    | 10                          |
| 7/16 - 14                | 9/16 - 12                      | .56    | 10                          |
| 1/2 - 13                 | 5/8 - 11                       | .62    | 6                           |

**Total Inserts Per Kit 81 pcs.**

| Carbon Steel Kit |
|------------------|
| <b>25948</b>     |

| Stainless Steel Kit |
|---------------------|
| <b>26348</b>        |

### Fine Series, Thinwall Kits

| Internal Thread Class 2B | External Thread (Mod) Class 2A | Length | Quantity of Inserts Per Kit |
|--------------------------|--------------------------------|--------|-----------------------------|
| 10 - 32                  | 5/16 - 18                      | .31    | 20                          |
| 1/4 - 28                 | 3/8 - 16                       | .37    | 20                          |
| 5/16 - 24                | 7/16 - 14                      | .43    | 15                          |
| 3/8 - 24                 | 1/2 - 13                       | .50    | 10                          |
| 7/16 - 20                | 9/16 - 12                      | .56    | 10                          |
| 1/2 - 20                 | 5/8 - 11                       | .62    | 6                           |

**Total Inserts Per Kit 81 pcs.**

| Carbon Steel Kit |
|------------------|
| <b>25947</b>     |

| Stainless Steel Kit |
|---------------------|
| <b>26548</b>        |



## Inch Thread Repair Insert Kits



The Jergens Keylocking Inserts provide strong and durable threads in most types of material. They are easily installed using standard drills and taps.

**The Jergens Thread Repair Insert Kits include inserts, an installation tool, and installation and removal instructions.**

The Kits are available with either inch, metric, or metric internal/inch external carbon steel inserts.

Each Kit is comprised of one size of insert in various quantities. For Thread Repair Kits that include several different sizes, see pages 56 – 57.

### Inch Thread Kits - Heavy Duty

| Carbon Steel Part Number | Stainless Steel Part Number | Internal Thread | External Thread | Inserts Per Kit | Insert Part Number | Stainless Steel Insert Part Number | Tool Part Number |
|--------------------------|-----------------------------|-----------------|-----------------|-----------------|--------------------|------------------------------------|------------------|
| 75900                    | 76300                       | 8-32            | 5/16-18         | 9               | 25900              | 26300                              | 24700            |
| 75901                    | 76301                       | 10-24           | 3/8-16          | 9               | 25901              | 26301                              | 24701            |
| 76101                    | 76501                       | 10-32           | 3/8-16          | 9               | 26101              | 26501                              | 24701            |
| 75902                    | 76302                       | 1/4-20          | 7/16-14         | 8               | 25902              | 26302                              | 24702            |
| 76102                    | 76502                       | 1/4-28          | 7/16-14         | 8               | 26102              | 26502                              | 24702            |
| 75903                    | 76303                       | 5/16-18         | 1/2-13          | 7               | 25903              | 26303                              | 24703            |
| 76103                    | 76503                       | 5/16-24         | 1/2-13          | 7               | 26103              | 26503                              | 24703            |
| 75904                    | 76304                       | 3/8-16          | 9/16-12         | 6               | 25904              | 26304                              | 24704            |
| 76104                    | 76504                       | 3/8-24          | 9/16-12         | 6               | 26104              | 26504                              | 24704            |
| 75905                    | 76305                       | 7/16-14         | 5/8-11          | 6               | 25905              | 26305                              | 24705            |
| 76105                    | 76505                       | 7/16-20         | 5/8-11          | 6               | 26105              | 26505                              | 24705            |
| 75906                    | 76306                       | 1/2-13          | 3/4-16          | 4               | 25906              | 26306                              | 24706            |
| 76106                    | 76506                       | 1/2-20          | 3/4-16          | 4               | 26106              | 26506                              | 24706            |
| 75907                    | 76307                       | 9/16-12         | 3/4-16          | 3               | 25907              | 26307                              | 24707            |
| 76107                    | 76507                       | 9/16-18         | 3/4-16          | 3               | 26107              | 26507                              | 24707            |
| 75908                    | 76308                       | 5/8-11          | 7/8-14          | 3               | 25908              | 26308                              | 24708            |
| 76108                    | 76508                       | 5/8-18          | 7/8-14          | 3               | 26108              | 26508                              | 24708            |
| 75909                    | 76309                       | 3/4-10          | 1 1/8-12        | 3               | 25909              | 26309                              | 24709            |
| 76109                    | 76509                       | 3/4-16          | 1 1/8-12        | 3               | 26109              | 26509                              | 24709            |
| 75910                    | 76310                       | 7/8-9           | 1 1/4-12        | 3               | 25910              | 26310                              | 24710            |
| 76110                    | 76510                       | 7/8-14          | 1 1/4-12        | 3               | 26110              | 26510                              | 24710            |
| 75911                    | 76311                       | 1 - 8           | 1 3/8-12        | 2               | 25911              | 26311                              | 24711            |
| 76111                    | 76511                       | 1 - 12          | 1 3/8-12        | 2               | 26111              | 26511                              | 24711            |
| 75913                    | —                           | 1 1/8-7         | 1 1/2-12        | 2               | 25913              | —                                  | 24713            |
| 76113                    | —                           | 1 1/8-12        | 1 1/2-12        | 2               | 26113              | —                                  | 24713            |
| 75914                    | —                           | 1 1/4-7         | 1 5/8-12        | 2               | 25914              | —                                  | 24714            |
| 76114                    | —                           | 1 1/4-12        | 1 5/8-12        | 2               | 26114              | —                                  | 24714            |
| 75916                    | —                           | 1 1/2-6         | 1 7/8-12        | 2               | 25916              | —                                  | 24716            |
| 76116                    | —                           | 1 1/2-12        | 1 7/8-12        | 2               | 26116              | —                                  | 24716            |

### Inch Thread Kits - Thin Wall

| Carbon Steel Part Number | Stainless Steel Part Number | Internal Thread | External Thread | Inserts Per Kit | Carbon Steel Insert Part Number | Stainless Steel Insert Part Number | Installation Tool Part Number |
|--------------------------|-----------------------------|-----------------|-----------------|-----------------|---------------------------------|------------------------------------|-------------------------------|
| 75921                    | 76421                       | 10-24           | 5/16-18         | 9               | 25921                           | 26321                              | 24721                         |
| 76121                    | 76521                       | 10-32           | 5/16-18         | 9               | 26121                           | 26521                              | 24721                         |
| 75922                    | 76422                       | 1/4-20          | 3/8-16          | 8               | 25922                           | 26322                              | 24722                         |
| 76122                    | 76522                       | 1/4-28          | 3/8-16          | 8               | 26122                           | 26522                              | 24722                         |
| 75923                    | 76423                       | 5/16-18         | 7/16-14         | 7               | 25923                           | 26323                              | 24723                         |
| 76123                    | 76523                       | 5/16-24         | 7/16-14         | 7               | 26123                           | 26523                              | 24723                         |
| 75924                    | 76424                       | 3/8-16          | 1/2-13          | 6               | 25924                           | 26325                              | 24724                         |
| 76124                    | 76524                       | 3/8-24          | 1/2-13          | 6               | 26124                           | 26524                              | 24724                         |
| 75925                    | 76425                       | 7/16-14         | 9/16-12         | 6               | 25925                           | 26325                              | 24725                         |
| 76125                    | 76525                       | 7/16-20         | 9/16-12         | 6               | 26125                           | 26525                              | 24725                         |
| 75926                    | 76426                       | 1/2-13          | 5/8-11          | 4               | 25926                           | 26326                              | 24726                         |
| 76126                    | 76526                       | 1/2-20          | 5/8-11          | 4               | 26126                           | 26526                              | 24726                         |



## Metric Thread Repair Insert Kits



The Jergens Keylocking Inserts provide strong and durable threads in most types of material. They are easily installed using standard drills and taps.

**The Jergens Thread Repair Insert Kits include inserts, an installation tool, and installation and removal instructions.**

The Kits are available with either inch, metric, or metric internal/inch external carbon steel inserts.

Each Kit is comprised of one size of insert in various quantities. For Thread Repair Kits that include several different sizes, see pages 56 – 57.

### Metric Thread Kits - Heavy Duty

| Carbon Steel Part Number | Stainless Steel Part Number | Internal Thread | External Thread | Inserts Per Kit | Insert Part Number | Stainless Steel Insert Part Number | Tool Part Number |
|--------------------------|-----------------------------|-----------------|-----------------|-----------------|--------------------|------------------------------------|------------------|
| 75963                    | 76463                       | M4x0.7          | M8x1.25         | 9               | 25963              | 26363                              | 24763            |
| 75964                    | 76464                       | M5x0.8          | M10x1.25        | 8               | 25964              | 26364                              | 24764            |
| 75965                    | 76465                       | M6x1.0          | M12x1.25        | 8               | 25965              | 26365                              | 24765            |
| 75966                    | 76466                       | M8x1.25         | M14x1.5         | 6               | 25966              | 26366                              | 24766            |
| 76166                    | 76566                       | M8x1.0          | M14x1.5         | 6               | 26166              | 26566                              | 24766            |
| 75967                    | 76467                       | M10x1.5         | M16x1.5         | 4               | 25967              | 26367                              | 24767            |
| 76167                    | 76567                       | M10x1.25        | M16x1.5         | 4               | 26167              | 26567                              | 24767            |
| 75969                    | 76469                       | M12x1.75        | M18x1.5         | 3               | 25969              | 26369                              | 24769            |
| 76169                    | 76569                       | M12x1.25        | M18x1.5         | 3               | 26169              | 26569                              | 24769            |
| 75970                    | 76470                       | M14x2.0         | M20x1.5         | 4               | 25970              | 26370                              | 24770            |
| 76170                    | 76570                       | M14x1.5         | M20x1.5         | 4               | 26170              | 26570                              | 24770            |
| 75971                    | 76471                       | M16x2.0         | M22x1.5         | 3               | 25971              | 26371                              | 24771            |
| 76171                    | 76571                       | M16x1.5         | M22x1.5         | 3               | 26171              | 26571                              | 24771            |
| 76172                    | 76572                       | M18x1.5         | M24x1.5         | 2               | 26172              | 26572                              | 24772            |
| 75973                    | 76473                       | M20x2.5         | M30x2.0         | 3               | 25973              | 26373                              | 24773            |
| 76173                    | 76573                       | M20x1.5         | M30x2.0         | 3               | 26173              | 26573                              | 24773            |
| 76174                    | 76574                       | M22x1.5         | M32x2.0         | 3               | 26174              | 26574                              | 24774            |
| 75975                    | 76475                       | M24x3.0         | M33x2.0         | 3               | 25975              | 26375                              | 24775            |
| 76175                    | 76575                       | M24x2.0         | M33x2.0         | 2               | 26175              | 26575                              | 24775            |

### Metric Thread - Thin Wall

| Carbon Steel Part Number | Stainless Steel Part Number | Internal Thread | External Thread | Inserts Per Kit | Insert Part Number | Stainless Steel Insert Part Number | Tool Part Number |
|--------------------------|-----------------------------|-----------------|-----------------|-----------------|--------------------|------------------------------------|------------------|
| 75951                    | 76451                       | M5x0.8          | M8x1.25         | 8               | 25951              | 26351                              | 24751            |
| 75952                    | 76452                       | M6x1.0          | M10x1.25        | 8               | 25952              | 26352                              | 24752            |
| 75953                    | 76453                       | M8x1.25         | M12x1.25        | 6               | 25953              | 26353                              | 24753            |
| 76153                    | 76553                       | M8x1.0          | M12x1.25        | 6               | 26153              | 26553                              | 24753            |
| 75955                    | 76455                       | M10x1.5         | M14x1.5         | 4               | 25955              | 26355                              | 24755            |
| 76155                    | 76555                       | M10x1.25        | M14x1.5         | 4               | 26155              | 26555                              | 24755            |
| 75956                    | 76456                       | M12x1.75        | M16x1.5         | 3               | 25956              | 26356                              | 24756            |
| 76156                    | 76556                       | M12x1.25        | M16x1.5         | 3               | 26156              | 26556                              | 24756            |

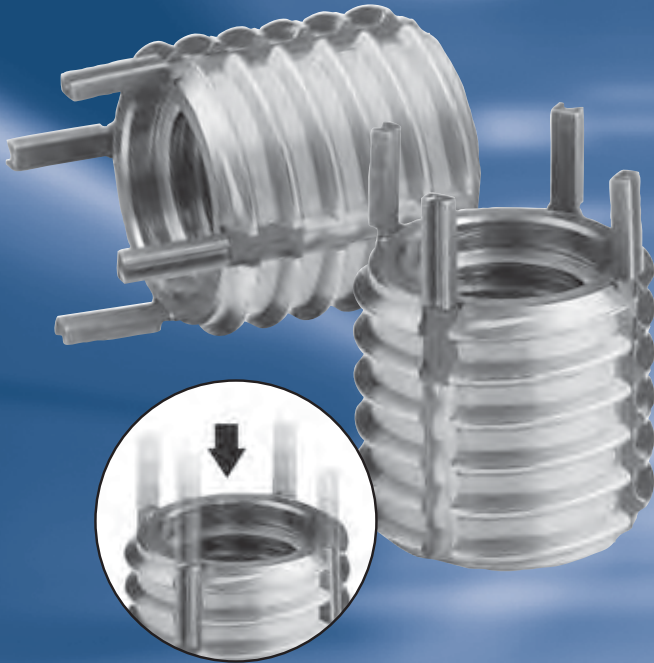
### Carbon Steel Kits - Metric Internal/Inch External Threads - Heavy Duty

| Part Number | Internal Thread | External Thread | Inserts Per Kit | Insert Part Number | Tool Part Number |
|-------------|-----------------|-----------------|-----------------|--------------------|------------------|
| 76243       | M 6x1.0         | 3/8 - 16        | 8               | 26243              | 24843            |
| 76244       | M 8x1.25        | 1/2 - 13        | 8               | 26244              | 24844            |
| 76245       | M 10x1.5        | 5/8 - 11        | 6               | 26245              | 24845            |
| 76247       | M 12x1.75       | 3/4 - 16        | 4               | 26247              | 24847            |
| 76248       | M 14x2.0        | 7/8 - 14        | 3               | 26248              | 24848            |
| 76249       | M 16x2.0        | 1" - 12         | 3               | 26249              | 24849            |

THE **Jergens**® DIFFERENCE

# Keylocking Inserts

**OURS**



Jergens keylocking inserts are easy to install with standard drills and taps.

**THEIRS**



Competitive thread repair devices require special drills, taps, and installation tools.

## **JERGENS KEYLOCKING INSERTS**

## **VS. THREAD REPAIR FROM OTHER MANUFACTURERS**

Easy installation requires no special tools: uses standard drills and standard taps.

Installation requires special drills, taps, and installation tools.

"Keys" mechanically lock the insert into the base material.

Springs or locking patches do not mechanically lock the insert.

Rated among the highest in pullout strength of any thread repair device on the market.

Less pullout strength versus Jergens inserts.

Wide variety of styles, including thinwall, heavy duty, extra heavy duty, and solid inserts in both stainless steel and carbon steel materials.

Limited offerings may force you to settle on a device that doesn't meet all of your needs.

# MISCELLANEOUS FASTENERS

## Miscellaneous Fasteners

|                                |       |
|--------------------------------|-------|
| Clevis Pins .....              | 68    |
| Leveling Mounts .....          | 69    |
| Pull Dowel Pins.....           | 62-65 |
| Rod Ends .....                 | 66    |
| Washers, Heavy Duty Flat ..... | 70    |
| Yokes .....                    | 67    |

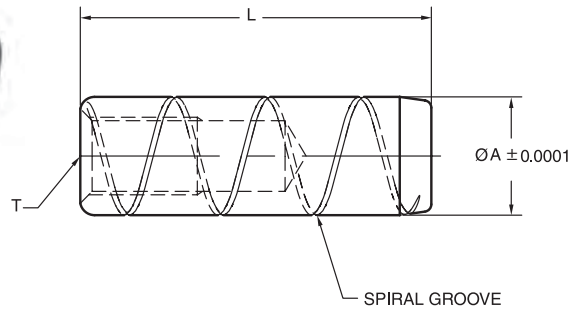


## Alloy Steel Pull Dowel Pins

### Jergens Offers 3 Styles of Precision Ground Pull Dowels



**Spiral Groove**  
(Grooves Help to Relieve Trapped Air)

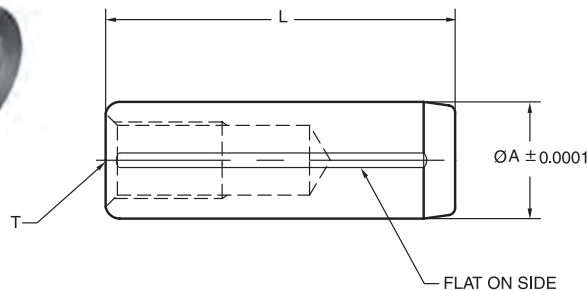


#### Features, Applications & Benefits

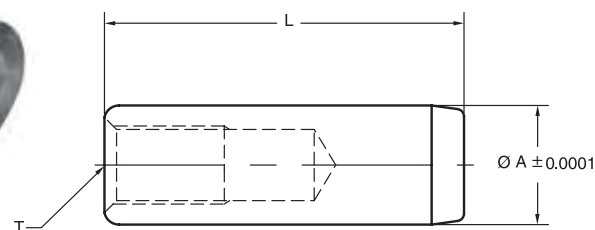
- Internally threaded hole allows removal of pull dowels with a standard screw.
- Standard Round Pull Dowels are typically used in applications featuring a through hole.
- Spiral Groove Pull Dowels feature a groove cut to allow trapped air to be released.
- Flat Vent Pull Dowels feature a ground flat on one side to release trapped air.
- Spiral Groove and Flat Vent Pull Dowels are typically used in blind hole applications
- Special materials and sizes available upon request.
- All of Jergens Precision Ground Pull Dowels are constructed of heat treated alloy steel.



**Flat Vent**  
(Ground Flat Helps to Relieve Trapped Air)



**Standard Round**  
(Non-Vented)



Special materials and sizes available upon request



## Precision Ground Pull Dowels

| Spiral Groove | Flat Vent | Standard Round | Nominal | Actual | Length | Internal Thread |
|---------------|-----------|----------------|---------|--------|--------|-----------------|
| 31800         | 31400     | 31600          | 1/4     | .2502  | 1/2    | 8 - 32          |
| 31801         | 31401     | 31601          | 1/4     | .2502  | 3/4    | 8 - 32          |
| 31802         | 31402     | 31602          | 1/4     | .2502  | 1      | 8 - 32          |
| 31803         | 31403     | 31603          | 1/4     | .2502  | 1-1/4  | 8 - 32          |
| 31804         | 31404     | 31604          | 1/4     | .2502  | 1-1/2  | 8 - 32          |
| 31805         | 31405     | 31605          | 1/4     | .2502  | 1-3/4  | 8 - 32          |
| 31806         | 31406     | 31606          | 1/4     | .2502  | 2      | 8 - 32          |
| 31807         | 31407     | 31654          | 1/4     | .2502  | 2-1/4  | 8 - 32          |
| 31808         | 31408     | 31607          | 1/4     | .2502  | 2-1/2  | 8 - 32          |
| 31809         | 31409     | 31608          | 5/16    | .3127  | 3/4    | 10 - 32         |
| 31810         | 31410     | 31609          | 5/16    | .3127  | 1      | 10 - 32         |
| 31811         | 31411     | 31610          | 5/16    | .3127  | 1-1/4  | 10 - 32         |
| 31812         | 31412     | 31611          | 5/16    | .3127  | 1-1/2  | 10 - 32         |
| 31813         | 31413     | 31612          | 5/16    | .3127  | 2      | 10 - 32         |
| 31814         | 31414     | 31613          | 5/16    | .3127  | 2-1/4  | 10 - 32         |
| 31815         | 31415     | 31614          | 5/16    | .3127  | 2-1/2  | 10 - 32         |
| 31816         | 31416     | 31615          | 3/8     | .3752  | 3/4    | 10 - 32         |
| 31817         | 31417     | 31616          | 3/8     | .3752  | 1      | 10 - 32         |
| 31818         | 31418     | 31617          | 3/8     | .3752  | 1-1/4  | 10 - 32         |
| 31819         | 31419     | 31618          | 3/8     | .3752  | 1-1/2  | 10 - 32         |
| 31820         | 31420     | 31619          | 3/8     | .3752  | 1-3/4  | 10 - 32         |
| 31821         | 31421     | 31620          | 3/8     | .3752  | 2      | 10 - 32         |
| 31822         | 31422     | 31621          | 3/8     | .3752  | 2-1/4  | 10 - 32         |
| 31823         | 31423     | 31622          | 3/8     | .3752  | 2-1/2  | 10 - 32         |
| 31824         | 31424     | 31623          | 3/8     | .3752  | 3      | 10 - 32         |
| 31825         | 31425     | 31624          | 7/16    | .4377  | 1      | 1/4 - 20        |
| 31826         | 31426     | 31625          | 7/16    | .4377  | 1-1/2  | 1/4 - 20        |
| 31827         | 31427     | 31626          | 7/16    | .4377  | 2      | 1/4 - 20        |
| 31828         | 31428     | 31627          | 1/2     | .5002  | 3/4    | 1/4 - 20        |
| 31829         | 31429     | 31628          | 1/2     | .5002  | 1      | 1/4 - 20        |
| 31830         | 31430     | 31629          | 1/2     | .5002  | 1-1/4  | 1/4 - 20        |
| 31831         | 31431     | 31630          | 1/2     | .5002  | 1-1/2  | 1/4 - 20        |
| 31832         | 31432     | 31631          | 1/2     | .5002  | 1-3/4  | 1/4 - 20        |
| 31833         | 31433     | 31632          | 1/2     | .5002  | 2      | 1/4 - 20        |
| 31834         | 31434     | 31633          | 1/2     | .5002  | 2-1/4  | 1/4 - 20        |
| 31835         | 31435     | 31634          | 1/2     | .5002  | 2-1/2  | 1/4 - 20        |
| 31836         | 31436     | 31635          | 1/2     | .5002  | 3      | 1/4 - 20        |
| 31837         | 31437     | 31636          | 1/2     | .5002  | 3-1/2  | 1/4 - 20        |
| 31838         | 31438     | 31637          | 1/2     | .5002  | 4      | 1/4 - 20        |
| 31839         | 31439     | 31638          | 5/8     | .6252  | 1-1/4  | 1/4 - 20        |
| 31840         | 31440     | 31639          | 5/8     | .6252  | 1-1/2  | 1/4 - 20        |
| 31841         | 31441     | 31640          | 5/8     | .6252  | 2      | 1/4 - 20        |
| 31842         | 31442     | 31641          | 5/8     | .6252  | 2-1/4  | 1/4 - 20        |
| 31843         | 31443     | 31642          | 5/8     | .6252  | 2-1/2  | 1/4 - 20        |
| 31844         | 31444     | 31643          | 5/8     | .6252  | 3      | 1/4 - 20        |
| 31845         | 31445     | 31644          | 5/8     | .6252  | 4      | 1/4 - 20        |
| 31846         | 31446     | 31645          | 3/4     | .7502  | 1-1/2  | 5/16 - 18       |
| 31847         | 31456     | 31655          | 3/4     | .7502  | 1-3/4  | 5/16 - 18       |
| 31848         | 31447     | 31646          | 3/4     | .7502  | 2      | 5/16 - 18       |
| 31849         | 31448     | 31647          | 3/4     | .7502  | 2-1/2  | 5/16 - 18       |
| 31850         | 31449     | 31648          | 3/4     | .7502  | 3      | 5/16 - 18       |
| 31851         | 31450     | 31649          | 3/4     | .7502  | 4      | 5/16 - 18       |
| 31856*        | 31451     | 31656          | 1       | 1.0002 | 1-3/4  | 5/16 - 18       |
| 31852*        | 31452     | 31650          | 1       | 1.0002 | 2      | 5/16 - 18       |
| 31853*        | 31453     | 31651          | 1       | 1.0002 | 2-1/2  | 5/16 - 18       |
| 31854*        | 31454     | 31652          | 1       | 1.0002 | 3      | 5/16 - 18       |
| 31855*        | 31455     | 31653          | 1       | 1.0002 | 4      | 5/16 - 18       |

\*3/8-16 Internal Thread

### Technical Data

**Material:**

Alloy Steel

**Length Tolerance:**

± .010"

**Core Hardness:**

47 - 58 Rockwell C

**Diameter Tolerance:**

± .0001"

**Surface Hardness:**

60 - 64 Rockwell C

**Recommended Hole Size:**

.0005" under Nom. Dia.

**Surface Finish:**

8 Micro-Inch

**Specification:**

ASME B18.8.2

### Spiral Groove



### Flat Vent



### Standard Round



Special materials and sizes available upon request



## Precision Ground Pull Dowels Stainless Steel

| Spiral Groove | Standard Round | Nominal | Actual | Length | Internal Thread |
|---------------|----------------|---------|--------|--------|-----------------|
| 31800-SS      | 31600-SS       | 1/4     | .2502  | 1/2    | 8 - 32          |
| 31801-SS      | 31601-SS       | 1/4     | .2502  | 3/4    | 8 - 32          |
| 31802-SS      | 31602-SS       | 1/4     | .2502  | 1      | 8 - 32          |
| 31803-SS      | 31603-SS       | 1/4     | .2502  | 1-1/4  | 8 - 32          |
| 31804-SS      | 31604-SS       | 1/4     | .2502  | 1-1/2  | 8 - 32          |
| 31805-SS      | 31605-SS       | 1/4     | .2502  | 1-3/4  | 8 - 32          |
| 31806-SS      | 31606-SS       | 1/4     | .2502  | 2      | 8 - 32          |
| 31807-SS      | 31654-SS       | 1/4     | .2502  | 2-1/4  | 8 - 32          |
| 31808-SS      | 31607-SS       | 1/4     | .2502  | 2-1/2  | 8 - 32          |
| 31809-SS      | 31608-SS       | 5/16    | .3127  | 3/4    | 10 - 32         |
| 31810-SS      | 31609-SS       | 5/16    | .3127  | 1      | 10 - 32         |
| 31811-SS      | 31610-SS       | 5/16    | .3127  | 1-1/4  | 10 - 32         |
| 31812-SS      | 31611-SS       | 5/16    | .3127  | 1-1/2  | 10 - 32         |
| 31813-SS      | 31612-SS       | 5/16    | .3127  | 2      | 10 - 32         |
| 31814-SS      | 31613-SS       | 5/16    | .3127  | 2-1/4  | 10 - 32         |
| 31815-SS      | 31614-SS       | 5/16    | .3127  | 2-1/2  | 10 - 32         |
| 31816-SS      | 31615-SS       | 3/8     | .3752  | 3/4    | 10 - 32         |
| 31817-SS      | 31616-SS       | 3/8     | .3752  | 1      | 10 - 32         |
| 31818-SS      | 31617-SS       | 3/8     | .3752  | 1-1/4  | 10 - 32         |
| 31819-SS      | 31618-SS       | 3/8     | .3752  | 1-1/2  | 10 - 32         |
| 31820-SS      | 31619-SS       | 3/8     | .3752  | 1-3/4  | 10 - 32         |
| 31821-SS      | 31620-SS       | 3/8     | .3752  | 2      | 10 - 32         |
| 31822-SS      | 31621-SS       | 3/8     | .3752  | 2-1/4  | 10 - 32         |
| 31823-SS      | 31622-SS       | 3/8     | .3752  | 2-1/2  | 10 - 32         |
| 31824-SS      | 31623-SS       | 3/8     | .3752  | 3      | 10 - 32         |
| 31825-SS      | 31624-SS       | 7/16    | .4377  | 1      | 1/4 - 20        |
| 31826-SS      | 31625-SS       | 7/16    | .4377  | 1-1/2  | 1/4 - 20        |
| 31827-SS      | 31626-SS       | 7/16    | .4377  | 2      | 1/4 - 20        |
| 31828-SS      | 31627-SS       | 1/2     | .5002  | 3/4    | 1/4 - 20        |
| 31829-SS      | 31628-SS       | 1/2     | .5002  | 1      | 1/4 - 20        |
| 31830-SS      | 31629-SS       | 1/2     | .5002  | 1-1/4  | 1/4 - 20        |
| 31831-SS      | 31630-SS       | 1/2     | .5002  | 1-1/2  | 1/4 - 20        |
| 31832-SS      | 31631-SS       | 1/2     | .5002  | 1-3/4  | 1/4 - 20        |
| 31833-SS      | 31632-SS       | 1/2     | .5002  | 2      | 1/4 - 20        |
| 31834-SS      | 31633-SS       | 1/2     | .5002  | 2-1/4  | 1/4 - 20        |
| 31835-SS      | 31634-SS       | 1/2     | .5002  | 2-1/2  | 1/4 - 20        |
| 31836-SS      | 31635-SS       | 1/2     | .5002  | 3      | 1/4 - 20        |
| 31837-SS      | 31636-SS       | 1/2     | .5002  | 3-1/2  | 1/4 - 20        |
| 31838-SS      | 31637-SS       | 1/2     | .5002  | 4      | 1/4 - 20        |
| 31839-SS      | 31638-SS       | 5/8     | .6252  | 1-1/4  | 1/4 - 20        |
| 31840-SS      | 31639-SS       | 5/8     | .6252  | 1-1/2  | 1/4 - 20        |
| 31841-SS      | 31640-SS       | 5/8     | .6252  | 2      | 1/4 - 20        |
| 31842-SS      | 31641-SS       | 5/8     | .6252  | 2-1/4  | 1/4 - 20        |
| 31843-SS      | 31642-SS       | 5/8     | .6252  | 2-1/2  | 1/4 - 20        |
| 31844-SS      | 31643-SS       | 5/8     | .6252  | 3      | 1/4 - 20        |
| 31845-SS      | 31644-SS       | 5/8     | .6252  | 4      | 1/4 - 20        |
| 31846-SS      | 31645-SS       | 3/4     | .7502  | 1-1/2  | 5/16 - 18       |
| 31847-SS      | 31655-SS       | 3/4     | .7502  | 1-3/4  | 5/16 - 18       |
| 31848-SS      | 31646-SS       | 3/4     | .7502  | 2      | 5/16 - 18       |
| 31849-SS      | 31647-SS       | 3/4     | .7502  | 2-1/2  | 5/16 - 18       |
| 31850-SS      | 31648-SS       | 3/4     | .7502  | 3      | 5/16 - 18       |
| 31851-SS      | 31649-SS       | 3/4     | .7502  | 4      | 5/16 - 18       |
| 31856-SS*     | 31656-SS       | 1       | 1.0002 | 1-3/4  | 5/16 - 18       |
| 31852-SS*     | 31650-SS       | 1       | 1.0002 | 2      | 5/16 - 18       |
| 31853-SS*     | 31651-SS       | 1       | 1.0002 | 2-1/2  | 5/16 - 18       |
| 31854-SS*     | 31652-SS       | 1       | 1.0002 | 3      | 5/16 - 18       |
| 31855-SS*     | 31653-SS       | 1       | 1.0002 | 4      | 5/16 - 18       |

\*3/8-16 Internal Thread

### Technical Data

#### Material:

300 Series SS (18-8)

#### Length Tolerance:

± .010"

#### Diameter Tolerance:

± .0001"

#### Recommended Hole Size:

.0005" under Nom. Dia.

#### Surface Finish:

8 Micro-Inch

#### Specification:

ASME B18.8.2

(Parts are not heat treated/hardened)

### Spiral Groove



### Standard Round



Special materials and sizes available upon request

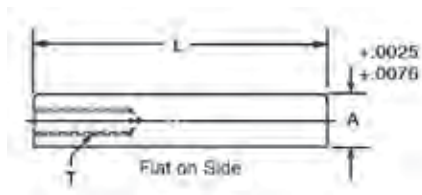


## Pull Dowels Metric



- Material: Low Carbon Steel
- Heat Treat: Case Hardened
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

Flat ground on the side for air release in blind holes.



| Part Number | A  | L  | T        |
|-------------|----|----|----------|
| 31751       | 8  | 20 | M5 x 1.0 |
| 31753       | 8  | 30 | M5 x 1.0 |
| 31755       | 8  | 40 | M5 x 1.0 |
| 31759       | 10 | 20 | M6 x 1.0 |
| 31761       | 10 | 30 | M6 x 1.0 |
| 31763       | 10 | 40 | M6 x 1.0 |
| 31765       | 10 | 50 | M6 x 1.0 |
| 31767       | 10 | 70 | M6 x 1.0 |
| 31769       | 12 | 20 | M6 x 1.0 |
| 31771       | 12 | 30 | M6 x 1.0 |
| 31773       | 12 | 40 | M6 x 1.0 |

| Part Number | A  | L  | T         |
|-------------|----|----|-----------|
| 31775       | 12 | 50 | M6 x 1.0  |
| 31776       | 12 | 60 | M6 x 1.0  |
| 31777       | 12 | 70 | M6 x 1.0  |
| 31780       | 16 | 40 | M8 x 1.25 |
| 31782       | 16 | 50 | M8 x 1.25 |
| 31783       | 16 | 60 | M8 x 1.25 |
| 31784       | 16 | 70 | M8 x 1.25 |
| 31787       | 20 | 50 | M10 x 1.6 |
| 31788       | 20 | 60 | M10 x 1.6 |
| 31789       | 20 | 70 | M10 x 1.6 |

Button head screw not included.

Special materials and sizes available upon request

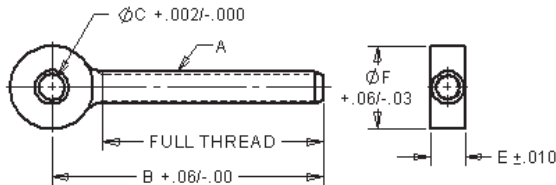


## Rod Ends Threaded



- Material: Alloy Steel
- Finish: Black Oxide
- Heat Treat: 32-36 Rc
- Thread: Class 2A-UNC
- \* 150,000 PSI Tensile

Rod Ends are forged and finished for applications not requiring flat contact with the head. All holes are reamed. Rod Ends can be used with spherical flange assemblies, flange nuts and clamp assemblies.



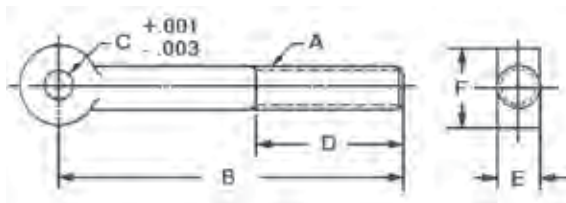
| Part Number | Thread A | B       | C    | E    | F      | Wt. (lbs) |
|-------------|----------|---------|------|------|--------|-----------|
| 35301*      | 1/4-20   | 2       | 3/16 | 1/4  | 39/64  | .04       |
| 35302       | 1/4-20   | 2       | 1/4  | 1/4  | —      | .03       |
| 35318*      | 5/16-18  | 3       | 1/4  | 5/16 | 43/64  | .08       |
| 35319*      | 5/16-18  | 3       | 5/16 | 5/16 | —      | .08       |
| 35303*      | 3/8-16   | 3       | 5/16 | 3/8  | 13/16  | .11       |
| 35320       | 3/8-16   | 4       | 5/16 | 3/8  | —      | .11       |
| 35304       | 3/8-16   | 2 3/16  | 3/8  | 3/8  | —      | .08       |
| 35305*      | 3/8-16   | 3       | 3/8  | 3/8  | —      | .11       |
| 35306*      | 3/8-16   | 5       | 3/8  | 3/8  | —      | .12       |
| 35307*      | 1/2-13   | 3 3/4   | 3/8  | 1/2  | 1 1/32 | .25       |
| 35308       | 1/2-13   | 2 11/16 | 1/2  | 1/2  | —      | .19       |
| 35309       | 1/2-13   | 3 3/4   | 1/2  | 1/2  | —      | .24       |
| 35310       | 1/2-13   | 5       | 1/2  | 1/2  | —      | .31       |
| 35311       | 5/8-11   | 3 11/16 | 5/8  | 5/8  | 1 5/16 | .40       |
| 35312*      | 5/8-11   | 4 1/2   | 5/8  | 5/8  | —      | .46       |
| 35314*      | 5/8-11   | 6       | 5/8  | 5/8  | —      | .60       |
| 35315*      | 3/4-10   | 4 1/2   | 3/4  | 3/4  | 1 9/16 | .73       |
| 35321*      | 3/4-10   | 6       | 3/4  | 3/4  | —      | 1.00      |
| 35317       | 1-8      | 8       | 1    | 1    | 2 3/32 | 2.25      |

\*Conforms to TMCA.  
Not to be used for lifting.

## Rod Ends Stainless Steel



- Material: 303 Stainless
- Thread Class 2A-UNC



| Part Number | Ref. A  | B     | Ref. C | D     | E    | F     |
|-------------|---------|-------|--------|-------|------|-------|
| 35721       | 1/4-20  | 2 1/8 | 3/16   | 7/8   | 1/4  | 1/2   |
| 35722       | 1/4-20  | 2 1/8 | 1/4    | 7/8   | 1/4  | 1/2   |
| 35723       | 5/16-18 | 3 1/2 | 1/4    | 1 1/2 | 5/16 | 5/8   |
| 35724       | 5/16-18 | 3 1/2 | 5/16   | 1 1/2 | 5/16 | 5/8   |
| 35725       | 3/8-16  | 3 1/2 | 3/8    | 1 1/2 | 3/8  | 3/4   |
| 35726       | 3/8-16  | 5     | 3/8    | 2 1/2 | 3/8  | 3/4   |
| 35727       | 1/2-13  | 3 3/4 | 1/2    | 1 1/2 | 1/2  | 1     |
| 35728       | 1/2-13  | 5     | 1/2    | 2     | 1/2  | 1     |
| 35729       | 5/8-11  | 4 1/2 | 5/8    | 2     | 5/8  | 1 1/4 |
| 35730       | 5/8-11  | 6     | 5/8    | 3     | 5/8  | 1 1/4 |
| 35731       | 3/4-10  | 4 1/2 | 3/4    | 2     | 3/4  | 1 1/2 |
| 35732       | 3/4-10  | 6     | 3/4    | 2 1/2 | 3/4  | 1 1/2 |

Not to be used for lifting.

Special materials and sizes available upon request

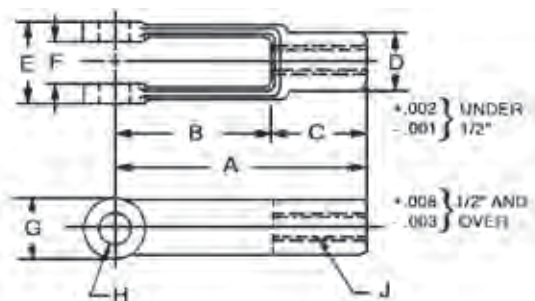


## Yokes Tapped



- Material: C-1021 Forging
- Finish: Black Oxide
- Thread: 2B

Jergens offers these yokes for attaching to threaded linkage at stem end. The forged holes are reamed and faced-off parallel inside and outside the yoke ends.



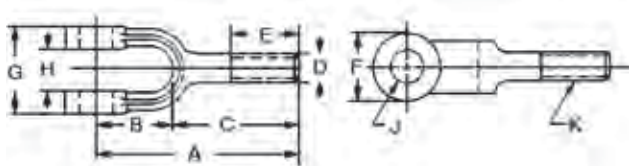
| Part Number<br>Coarse Pitch | UNC<br>J | Part Number<br>Fine Pitch | UNF<br>J | A       | B       | C     | D      | E     | F      | G       | H    | Wt.<br>(lbs)<br>10 Pcs. |
|-----------------------------|----------|---------------------------|----------|---------|---------|-------|--------|-------|--------|---------|------|-------------------------|
|                             |          | 45501                     | 10-32    | 1 9/16  | 1       | 9/16  | 5/16   | 7/16  | 3/16   | 3/8     | 3/16 | .21                     |
| 45302                       | 1/4-20   | 45502                     | 1/4-28   | 2       | 1 1/4   | 3/4   | 7/16   | 5/8   | 9/32   | 1/2     | 1/4  | .62                     |
| 45303                       | 5/16-18  | 45503                     | 5/16-24  | 2 1/4   | 1 7/16  | 13/16 | 1/2    | 3/4   | 11/32  | 19/32   | 5/16 | .94                     |
| 45304                       | 3/8-16   | 45504                     | 3/8-24   | 2 1/2   | 1 5/8   | 7/8   | 5/8    | 7/8   | 7/16   | 11/16   | 3/8  | 1.45                    |
| 45305                       | 7/16-14  | 45505                     | 7/16-20  | 2 7/8   | 1 7/8   | 1     | 23/32  | 1     | 1/2    | 13/16   | 7/16 | 2.35                    |
| 45306                       | 1/2-13   | 45506                     | 1/2-20   | 3       | 1 7/8   | 1 1/8 | 13/16  | 1 1/8 | 9/16   | 15/16   | 1/2  | 3.10                    |
| 45307                       | 1/2-13   | 45507                     | 1/2-20   | 4 3/16  | 3 1/16  | 1 1/8 | 13/16  | 1 1/8 | 9/16   | 15/16   | 1/2  | 4.35                    |
| 45308                       | 5/8-11   | 45508                     | 5/8-18   | 4 15/16 | 3 11/16 | 1 1/4 | 1 1/16 | 1 3/8 | 11/16  | 1 3/16  | 5/8  | 8.10                    |
| 45309                       | 3/4-10   | 45509                     | 3/4-16   | 4       | 2 3/4   | 1 1/4 | 1 1/8  | 1 1/2 | 11/16  | 1 3/8   | 5/8  | 7.50                    |
| 45310                       | 3/4-10   | —                         | —        | 6 1/16  | 4 9/16  | 1 1/2 | 1 1/4  | 1 5/8 | 13/16  | 1 7/16  | 3/4  | 15.00                   |
| 45312                       | 1-8      | —                         | —        | 8       | 6       | 2     | 1 5/8  | 2 1/8 | 1 1/16 | 1 15/16 | 1    | 32.50                   |

## Yokes Threaded



- Material: C-1021 Forging
- Finish: Black Oxide
- Thread: 2A-UNC

This style yoke is similar to the above except the stem is threaded for attaching to tapped linkage.



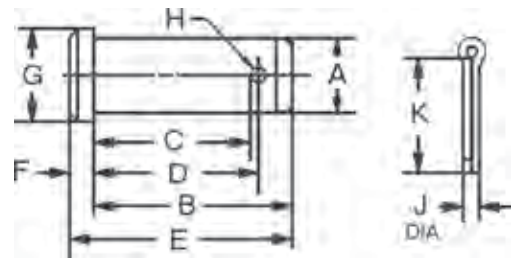
| Part Number | K       | A     | B       | C       | D    | E     | F       | G     | H      | J    | Wt.<br>(lbs)<br>10 Pcs. |
|-------------|---------|-------|---------|---------|------|-------|---------|-------|--------|------|-------------------------|
| 45902       | 1/4-20  | 1 3/4 | 5/8     | 1 1/8   | 1/4  | 3/4   | 1/2     | 5/8   | 9/32   | 1/4  | .47                     |
| 45903       | 5/16-18 | 2     | 3/4     | 1 1/4   | 5/16 | 3/4   | 19/32   | 3/4   | 11/32  | 5/16 | .85                     |
| 45904       | 3/8-16  | 2 1/8 | 27/32   | 1 9/32  | 3/8  | 3/4   | 11/16   | 7/8   | 7/16   | 3/8  | 1.10                    |
| 45906       | 1/2-13  | 2 1/2 | 1 1/8   | 1 3/8   | 1/2  | 3/4   | 15/16   | 1 1/8 | 9/16   | 1/2  | 2.35                    |
| 45908       | 3/4-10  | 3 5/8 | 1 11/16 | 1 15/16 | 3/4  | 1 1/4 | 1 7/16  | 1 5/8 | 13/16  | 3/4  | 7.35                    |
| 45910       | 1-8     | 4 1/2 | 2 1/2   | 2       | 1    | 1 1/8 | 1 15/16 | 2 1/8 | 1 1/16 | 1    | 17.50                   |



## Clevis Pins



- Material: Low Carbon Steel
- All Clevis Pins supplied with cotter pins.



| Part Number | A    | B       | C       | D       | E       | F     | G      | H     | J    | K     | Wt. (lbs) 10 Pcs. |
|-------------|------|---------|---------|---------|---------|-------|--------|-------|------|-------|-------------------|
| 32701       | 3/16 | 37/64   | 29/64   | 31/64   | 41/64   | 1/16  | 5/16   | 5/64  | 1/16 | 1/2   | .08               |
| 32702       | 1/4  | 49/64   | 41/64   | 43/64   | 55/64   | 3/32  | 3/8    | 5/64  | 1/16 | 1/2   | .15               |
| 32703       | 5/16 | 15/16   | 49/64   | 13/16   | 1 1/32  | 3/32  | 7/16   | 7/64  | 3/32 | 1/2   | .30               |
| 32704       | 3/8  | 1 1/16  | 57/64   | 15/16   | 1 3/16  | 1/8   | 1/2    | 7/64  | 3/32 | 5/8   | .45               |
| 32705       | 7/16 | 1 3/16  | 1 1/64  | 1 1/16  | 1 11/32 | 5/32  | 9/16   | 7/64  | 3/32 | 5/8   | .60               |
| 32706       | 1/2  | 1 23/64 | 1 9/64  | 1 13/64 | 1 33/64 | 5/32  | 5/8    | 9/64  | 1/8  | 1     | 1.00              |
| 32707       | 5/8  | 1 39/64 | 1 25/64 | 1 29/64 | 1 13/16 | 13/64 | 13/16  | 9/64  | 1/8  | 1     | 1.18              |
| 32708       | 5/8  | 1 3/4   | 1 33/64 | 1 19/32 | 1 63/64 | 13/64 | 13/16  | 9/64  | 1/8  | 1     | 1.82              |
| 32709       | 3/4  | 1 29/32 | 1 41/64 | 1 23/32 | 2 5/32  | 1/4   | 15/16  | 11/64 | 5/32 | 1 1/2 | 3.00              |
| 32711       | 1    | 2 13/32 | 2 9/64  | 2 7/32  | 2 3/4   | 11/32 | 1 3/16 | 11/64 | 5/32 | 1 1/2 | 7.00              |

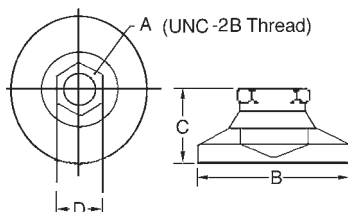


## Leveling Mounts

- Material: 1214 Steel
- Zinc plated, yellow finish
- Non-Skid Material: Neoprene
- Case hardened, file hard

- Swivels 10° in all directions
- Available with non-skid on base
- Available in stainless steel, or with a delrin pad, and in larger sizes upon request.

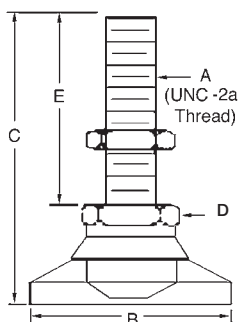
### Tapped



| Part Number |          | A      | B     | C*    | Across Flats<br>D | Maximum Load (lbs) |          |
|-------------|----------|--------|-------|-------|-------------------|--------------------|----------|
| Standard    | Non-skid |        |       |       |                   | Standard           | Non-skid |
| 32601       | 32651    | 10-32  | 3/4   | 17/32 | 3/8               | 700                | 550      |
| 32602       | 32652    | 1/4-20 | 1     | 45/64 | 1/2               | 1000               | 825      |
| 32606       | 32656    | 3/8-16 | 1 1/4 | 7/8   | 5/8               | 3750               | 2820     |
| 32608       | 32658    | 1/2-13 | 1 7/8 | 1 1/8 | 3/4               | 5000               | 3750     |
| 32610       | 32660    | 5/8-11 | 2 1/2 | 1 1/4 | 7/8               | 6000               | 5000     |
| 32612       | 32662    | 3/4-10 | 3     | 1 1/2 | 1 1/16            | 7400               | 6000     |
| 32616       | 32666    | 1-8    | 4     | 1 7/8 | 1 3/8             | 21000              | 16500    |

\*Add 1/8" to C Dimension for non-skid style.

### Threaded



| Part Number |          | A      | B     | C*      | Across Flats<br>D | E     | Maximum Load (lbs) |          |
|-------------|----------|--------|-------|---------|-------------------|-------|--------------------|----------|
| Standard    | Non-skid |        |       |         |                   |       | Standard           | Non-skid |
| 32621       | 32671    | 10-32  | 3/4   | 1 17/32 | 3/8               | 1     | 700                | 550      |
| 32623       | 32673    | 1/4-20 | 1     | 1 61/64 | 1/2               | 1 1/4 | 1000               | 825      |
| 32626       | 32676    | 3/8-16 | 1 1/4 | 2 7/8   | 5/8               | 2     | 3750               | 2850     |
| 32629       | 32679    | 1/2-13 | 1 7/8 | 3 1/8   | 3/4               | 2     | 5000               | 3750     |
| 32632       | 32682    | 5/8-11 | 2 1/2 | 3 1/4   | 7/8               | 2     | 6000               | 4350     |
| 32635       | 32685    | 3/4-10 | 3     | 3 1/2   | 1 1/16            | 2     | 7400               | 5500     |
| 32640       | 32690    | 1-8    | 4     | 5 3/8   | 1 3/8             | 3 1/2 | 20000              | 16500    |

\*Add 1/8" to C Dimension for non-skid style.



## USAE™ Heavy Duty Flat Washers



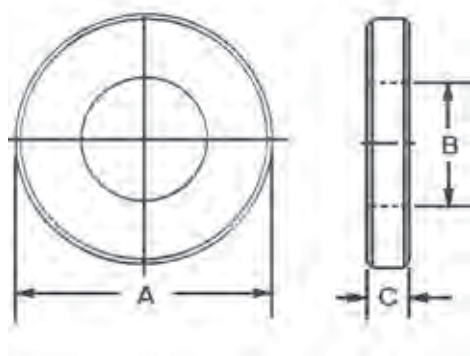
### USS + SAE = USAE

#### What is a USAE™ Washer?

- It is a simple but effective idea that is long overdue.
- The Outside Diameter conforms to USS standards. This provides a washer that is up to 36% larger than standard hardened washers.

#### More Contact Area = More Holding Power

- The Inside Diameter conforms to SAE standards. The small ID provides a more precise fit on bolts, studs, etc.
- USAE Washers are also up to 37% thicker than standard hardened washers for greater strength.
- Washers are made from mild steel. They are case hardened to 60 HRc and have a black oxide finish.
- Bolt size is stamped on each washer for easy identification.



### USAE™ Heavy Duty Flat Washers

| Part No. | Bolt Size | A (OD) | B (ID) | C (Thickness) |
|----------|-----------|--------|--------|---------------|
| FW00001  | 1/4       | 3/4    | 9/32   | 9/64          |
| FW00002  | 5/16      | 7/8    | 11/32  | 9/64          |
| FW00003  | 3/8       | 1      | 13/32  | 9/64          |
| FW00004  | 1/2       | 1-3/8  | 17/32  | 5/32          |
| FW00005  | 5/8       | 1-3/4  | 21/32  | 5/32          |
| FW00006  | 3/4       | 2      | 13/16  | 1/4           |
| FW00007  | 1         | 2-1/2  | 1-1/16 | 1/4           |

\*Tolerances for all dimensions are +/- .010"

# HANDWHEELS

## Handwheels

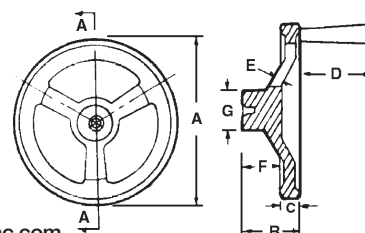
|                                                                                  |    |
|----------------------------------------------------------------------------------|----|
| Aluminum Angular Solid Handwheel.....                                            | 73 |
| Aluminum Angular Spoked Handwheel.....                                           | 72 |
| Aluminum Finger Wheel .....                                                      | 80 |
| Nylon Angular Three-Spoked Handwheel .....                                       | 79 |
| Plastic Angular Solid Handwheel .....                                            | 79 |
| Plastic Three-Spoked Handwheel .....                                             | 75 |
| Plastic Three-Spoked Handwheel<br>With Revolving Handle .....                    | 76 |
| Plastic Two-Spoked Handwheel .....                                               | 74 |
| Plastic Two-Spoked Handwheel<br>With Revolving Handles.....                      | 74 |
| Plastic Two-Spoked Handwheel<br>With Revolving Fold-Away Handle .....            | 75 |
| Plastic Solid Handwheel.....                                                     | 78 |
| Plastic Solid Handwheel With Finger Grips and<br>Revolving Fold-Away Handle..... | 79 |
| Plastic Solid Handwheel<br>With Revolving, Fold-Away Handle .....                | 77 |
| Plastic Solid Handwheel<br>With Revolving Handle .....                           | 76 |
| Plastic Solid Handwheel With Revolving,<br>Spring Loaded, Fold-Away Handle ..... | 77 |



## Aluminum Angular Spoked Handwheel



- Diameters from 4" to 23" and 100mm to 575mm
- Lightweight, 319 Aluminum Alloy
- Rims machined to run concentric with center drill
- Available with or without handle
- Special bores and keyways quoted upon request
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Handwheels With Handle

| Part Number | A  | B       | C     | D       | E    | F       | G      | Number Of Spokes |
|-------------|----|---------|-------|---------|------|---------|--------|------------------|
| 22308       | 4  | 1 1/2   | 5/8   | 1 5/8   | 1/4  | 1       | 1 3/16 | 2                |
| 22301       | 6  | 2       | 3/4   | 2 9/16  | 5/16 | 1 7/16  | 1 1/2  | 3                |
| 22302       | 8  | 2 1/2   | 7/8   | 2 15/16 | 3/8  | 1 7/8   | 2      | 3                |
| 22303       | 10 | 3       | 7/8   | 3 5/16  | 7/16 | 2 1/8   | 2 3/8  | 3                |
| 22304       | 12 | 3 3/8   | 7/8   | 3 5/16  | 7/16 | 2 3/16  | 2 1/2  | 3                |
| 22305       | 14 | 3 13/16 | 1     | 3 5/16  | 7/16 | 2 17/32 | 2 3/4  | 5                |
| 22306       | 18 | 4 7/8   | 1 1/4 | 3 5/16  | 7/16 | 3 1/16  | 4 1/8  | 5                |
| 22307       | 23 | 7 1/8   | 1 1/4 | 3 5/16  | 7/16 | 4 3/8   | 4 1/2  | 6                |

| Part Number    |             |
|----------------|-------------|
| Handwheel Only | Handle Only |
| 22108*         | 21902       |
| 22101*         | 21904       |
| 22102*         | 21905       |
| 22103*         | 21906       |
| 22104*         | 21906       |
| 22105*         | 21906       |
| 22106*         | 21906       |
| 22107*         | 21906       |

\*Not tapped for handle

### Metric Handwheels With Handle

| Part Number | A   | B   | C  | D  | E  | F   | G   | Number Of Spokes |
|-------------|-----|-----|----|----|----|-----|-----|------------------|
| 22358       | 100 | 38  | 16 | 41 | 6  | 25  | 30  | 2                |
| 22351       | 150 | 50  | 19 | 64 | 8  | 36  | 38  | 3                |
| 22352       | 200 | 63  | 22 | 73 | 9  | 47  | 50  | 3                |
| 22353       | 250 | 75  | 22 | 83 | 11 | 53  | 59  | 3                |
| 22354       | 300 | 84  | 22 | 83 | 11 | 55  | 63  | 3                |
| 22355       | 350 | 95  | 25 | 83 | 11 | 63  | 69  | 5                |
| 22356       | 450 | 122 | 31 | 83 | 11 | 77  | 103 | 5                |
| 22357       | 575 | 178 | 31 | 83 | 11 | 110 | 113 | 6                |

| Part Number    |             |
|----------------|-------------|
| Handwheel Only | Handle Only |
| 22108*         | 21952       |
| 22101*         | 21954       |
| 22102*         | 21955       |
| 22103*         | 21956       |
| 22104*         | 21956       |
| 22105*         | 21956       |
| 22106*         | 21956       |
| 22107*         | 21956       |

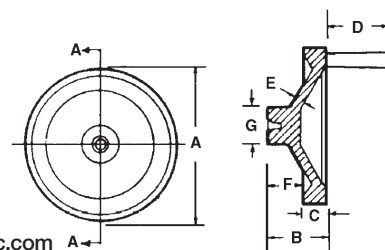
\*Not tapped for handle



## Aluminum Angular Solid Handwheel



- Diameters from 3" to 12" and 75mm to 300mm
- Lightweight, 319 Aluminum Alloy
- Rims machined to run concentric with center drill
- Available with or without handle
- Special bores and keyways quoted upon request
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Handwheels With Handle

| Part Number | A  | B       | C     | D       | E    | F      | G      |
|-------------|----|---------|-------|---------|------|--------|--------|
| 22702       | 3  | 1 11/16 | 5/8   | 1 5/8   | 1/4  | 1 7/32 | 1 1/4  |
| 22703       | 4  | 1 7/8   | 5/8   | 1 5/8   | 3/16 | 1 7/16 | 1 1/2  |
| 22704       | 5  | 2       | 11/16 | 2 1/16  | 3/16 | 1 1/4  | 1 1/2  |
| 22705†      | 6  | 2       | 3/4   | 2 9/16  | 3/16 | 1 3/8  | 1 1/2  |
| 22706†      | 8  | 2 1/2   | 7/8   | 2 15/16 | 3/16 | 1 3/4  | 2      |
| 22707†      | 10 | 3 1/4   | 1     | 3 5/16  | 3/16 | 2 7/32 | 2 5/16 |
| 22708†      | 12 | 3 1/2   | 1     | 3 5/16  | 1/4  | 2 1/4  | 2 1/2  |

†Finger grips formed behind solid wheel rim

| Part Number    |             |
|----------------|-------------|
| Handwheel Only | Handle Only |
| 22502*         | 21902       |
| 22503*         | 21902       |
| 22504*         | 21903       |
| 22505*†        | 21904       |
| 22506*†        | 21905       |
| 22507*†        | 21906       |
| 22508*†        | 21906       |

\*Not tapped for handle

### Metric Handwheels With Handle

| Part Number | A   | Ref. B | C  | D  | E | F  | G  |
|-------------|-----|--------|----|----|---|----|----|
| 22752       | 75  | 42     | 16 | 41 | 6 | 30 | 31 |
| 22753       | 100 | 47     | 16 | 41 | 5 | 36 | 38 |
| 22754       | 125 | 50     | 17 | 52 | 5 | 31 | 38 |
| 22755       | 150 | 50     | 19 | 64 | 5 | 34 | 38 |
| 22756       | 200 | 63     | 22 | 73 | 5 | 44 | 50 |
| 22757       | 250 | 81     | 25 | 83 | 5 | 55 | 58 |
| 22758       | 300 | 88     | 25 | 83 | 6 | 56 | 63 |

\*Not tapped for handle

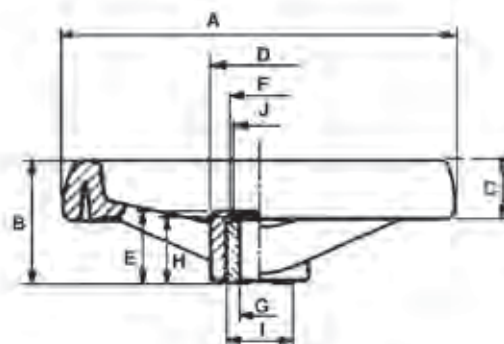
| Part Number    |             |
|----------------|-------------|
| Handwheel Only | Handle Only |
| 22502*         | 21952       |
| 22503*         | 21952       |
| 22504*         | 21953       |
| 22505*         | 21954       |
| 22506*         | 21955       |
| 22507*         | 21956       |
| 22508*         | 21956       |



## Plastic Two-Spoked Handwheel ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



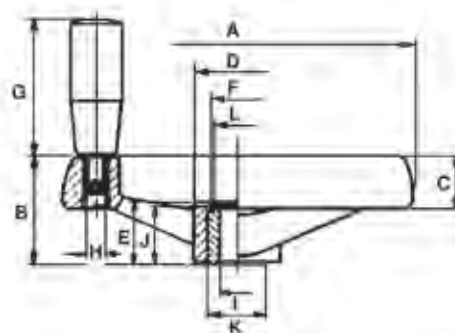
### Handwheels Only

| Part Number | A     | B    | C    | D    | E    | F    | Fractional G | H    | I    | J    |
|-------------|-------|------|------|------|------|------|--------------|------|------|------|
| 22601       | 3.15  | 1.38 | 0.71 | 0.91 | 0.75 | 0.67 | 5/16         | 0.67 | 0.71 | 0.62 |
| 22602       | 3.90  | 1.46 | 0.79 | 0.98 | 0.75 | 0.67 | 3/8          | 0.67 | 0.71 | 0.63 |
| 22603       | 4.92  | 1.73 | 0.87 | 1.22 | 0.98 | 0.83 | 3/8          | 0.87 | 0.87 | 0.79 |
| 22604       | 6.30  | 2.01 | 0.98 | 1.57 | 1.14 | 0.98 | 1/2          | 1.06 | 1.02 | 0.94 |
| 22605       | 7.87  | 2.40 | 1.10 | 1.97 | 1.42 | 1.22 | 5/8          | 1.34 | 1.18 | 1.10 |
| 22606       | 9.84  | 2.76 | 1.26 | 2.32 | 1.57 | 1.34 | 5/8          | 1.50 | 1.32 | 1.30 |
| 22607       | 11.81 | 3.07 | 1.42 | 2.60 | 1.81 | 1.65 | 3/4          | 1.69 | 1.57 | 1.46 |
| 22608       | 14.76 | 3.23 | 1.50 | 2.72 | 1.81 | 1.65 | 3/4          | 1.69 | 1.57 | 1.46 |

## Plastic Two-Spoked Handwheel With Revolving Handles ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



### Handwheels With Revolving Handle

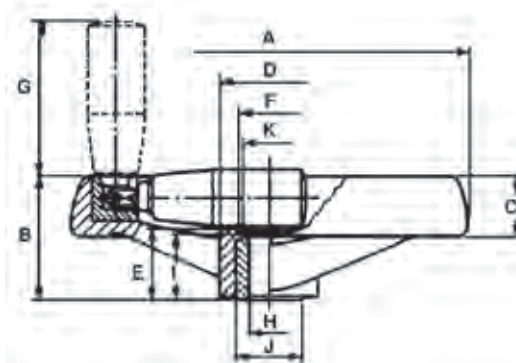
| Part Number | A     | B    | C    | D    | E    | F    | G    | H   | I     | J    | K    | L    |
|-------------|-------|------|------|------|------|------|------|-----|-------|------|------|------|
| 22611       | 3.15  | 1.38 | 0.71 | 0.91 | 0.75 | 0.67 | 1.57 | M6  | 0.312 | 0.67 | 0.71 | 0.63 |
| 22612       | 3.90  | 1.46 | 0.79 | 0.98 | 0.75 | 0.67 | 2.20 | M6  | 0.375 | 0.67 | 0.71 | 0.63 |
| 22613       | 4.92  | 1.73 | 0.87 | 1.22 | 0.98 | 0.83 | 2.56 | M8  | 0.375 | 0.87 | 0.87 | 0.79 |
| 22614       | 6.30  | 2.01 | 0.98 | 1.57 | 1.14 | 0.98 | 2.56 | M8  | 0.500 | 1.06 | 1.02 | 0.94 |
| 22615       | 7.87  | 2.40 | 1.10 | 1.97 | 1.42 | 1.22 | 3.15 | M8  | 0.625 | 1.34 | 1.18 | 1.10 |
| 22616       | 9.84  | 2.76 | 1.26 | 2.32 | 1.57 | 1.34 | 3.54 | M10 | 0.625 | 1.50 | 1.38 | 1.30 |
| 22617       | 11.81 | 3.07 | 1.42 | 2.60 | 1.81 | 1.65 | 3.54 | M10 | 0.750 | 1.69 | 1.57 | 1.46 |
| 22618       | 14.76 | 3.23 | 1.50 | 2.72 | 1.81 | 1.65 | 3.54 | M10 | 0.750 | 1.69 | 1.57 | 1.46 |



## Plastic Two-Spoked Handwheel With Revolving Fold-Away Handle ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

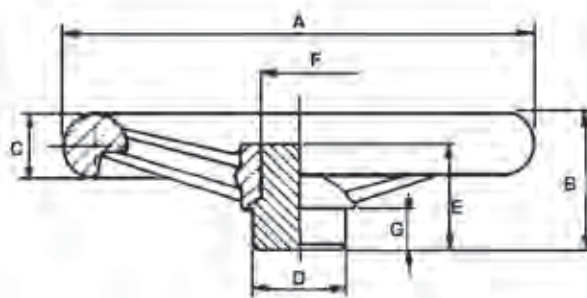


| Part Number | A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 22621       | 3.15 | 1.38 | .71  | .91  | .75  | .67  | 1.96 | .312 | .67  | .71  | .62  |
| 22622       | 3.90 | 1.46 | .79  | .98  | .75  | .67  | 2.20 | .375 | .67  | .71  | .63  |
| 22623       | 4.92 | 1.73 | .87  | 1.22 | .98  | .83  | 2.56 | .375 | .87  | .87  | .79  |
| 22624       | 6.30 | 2.01 | .98  | 1.57 | 1.14 | .98  | 2.56 | .500 | 1.06 | 1.02 | .94  |
| 22625       | 7.87 | 2.40 | 1.10 | 1.97 | 1.42 | 1.22 | 3.15 | .625 | 1.34 | 1.18 | 1.10 |
| 22626       | 9.84 | 2.76 | 1.26 | 2.32 | 1.57 | 1.34 | 3.54 | .625 | 1.50 | 1.38 | 1.30 |

## Plastic Three-Spoked Handwheel ELESA Original Design



- Material: High Strength Reinforced Duroplast
- Finish: Black Bright
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



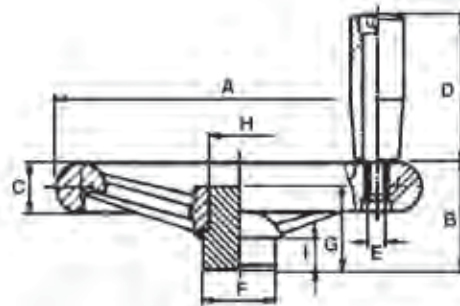
| Part Number | A     | B    | C    | D    | E    | F    | G    |
|-------------|-------|------|------|------|------|------|------|
| 22631       | 3.86  | 1.57 | .55  | .94  | 1.42 | .79  | .47  |
| 22632       | 4.88  | 1.77 | .71  | .94  | 1.42 | .79  | .47  |
| 22633       | 6.18  | 1.97 | .87  | 1.26 | 1.50 | .94  | .59  |
| 22634       | 7.09  | 2.20 | .94  | 1.57 | 1.69 | 1.22 | .59  |
| 22635       | 7.80  | 2.20 | .94  | 1.57 | 1.69 | 1.22 | .59  |
| 22636       | 9.72  | 2.60 | 1.18 | 1.93 | 1.73 | 1.50 | .59  |
| 22637       | 11.34 | 3.07 | 1.26 | 2.28 | 2.20 | 1.85 | .71  |
| 22638       | 14.76 | 4.25 | 1.57 | 2.28 | 3.03 | 2.28 | 1.02 |



## Plastic Three-Spoked Handwheel With Revolving Handle ELESA Original Design



- Material: High Strength Reinforced Duroplast
- Finish: Black Bright
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

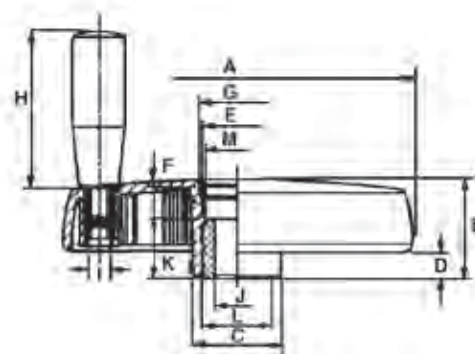


| Part Number | A     | B    | C    | D    | E   | F    | G    | H    | I    |
|-------------|-------|------|------|------|-----|------|------|------|------|
| 22641       | 3.86  | 1.57 | .55  | 1.57 | M6  | .94  | 1.42 | .79  | .47  |
| 22642       | 4.88  | 1.77 | .71  | 1.97 | M8  | .94  | 1.42 | .79  | .47  |
| 22643       | 6.18  | 1.97 | .87  | 2.56 | M8  | 1.26 | 1.50 | .94  | .59  |
| 22644       | 7.09  | 2.20 | .94  | 3.15 | M10 | 1.57 | 1.69 | 1.22 | .59  |
| 22645       | 7.80  | 2.20 | .94  | 3.15 | M10 | 1.57 | 1.69 | 1.22 | .59  |
| 22646       | 9.72  | 2.60 | 1.18 | 3.54 | M10 | 1.93 | 1.73 | 1.50 | .59  |
| 22647       | 11.34 | 3.07 | 1.26 | 3.94 | M12 | 2.28 | 2.20 | 1.85 | .71  |
| 22648       | 14.76 | 4.25 | 1.57 | 3.94 | M14 | 2.28 | 3.03 | 2.28 | 1.02 |

## Plastic Solid Handwheel With Revolving Handle ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A    | B    | C    | D   | E    | F   | G    | H    | I   | J    | K    | L    | M    |
|-------------|------|------|------|-----|------|-----|------|------|-----|------|------|------|------|
| 22801       | 3.27 | 1.14 | .98  | .35 | .75  | .31 | .82  | 1.57 | M6  | .312 | .67  | .71  | .63  |
| 22802       | 4.02 | 1.34 | 1.18 | .39 | .98  | .35 | 1.06 | 1.97 | M6  | .375 | .87  | .87  | .79  |
| 22803       | 4.92 | 1.54 | 1.38 | .43 | 1.10 | .31 | 1.22 | 2.20 | M6  | .375 | 1.06 | 1.02 | .94  |
| 22804       | 5.91 | 1.73 | 1.50 | .47 | 1.18 | .39 | 1.34 | 2.56 | M8  | .500 | 1.18 | 1.02 | .94  |
| 22805       | 6.93 | 1.93 | 1.73 | .51 | 1.38 | .63 | 1.54 | 3.15 | M10 | .500 | 1.10 | 1.38 | 1.30 |
| 22806       | 7.87 | 2.09 | 1.97 | .55 | 1.57 | .51 | 1.73 | 3.54 | M10 | .625 | 1.42 | 1.57 | 1.50 |
| 22807       | 9.84 | 2.36 | 2.24 | .66 | 1.88 | .75 | 1.97 | 3.54 | M10 | .625 | 1.42 | 1.57 | 1.50 |

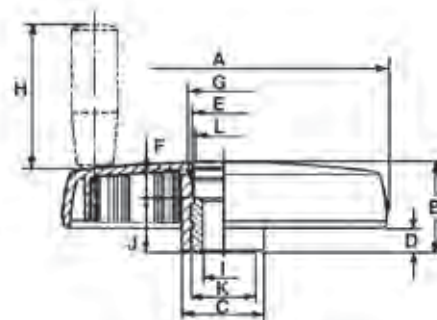


## Plastic Solid Handwheel With Revolving, Fold-Away Handle ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

This type of handwheel with fold-away handle has been designed for applications where limited space or safety reasons demand that the handle be folded back flat after manual use.



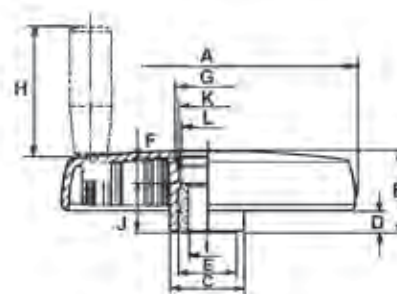
| Part Number | A    | B    | C    | D    | E    | F    | G    | H    | I     | J    | K    | L    |
|-------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 22811       | 3.27 | 1.50 | 0.98 | 0.73 | 0.53 | 0.14 | 0.65 | 1.77 | 0.312 | 0.67 | 0.71 | 0.63 |
| 22812       | 4.02 | 1.34 | 1.18 | 0.39 | 0.98 | 0.35 | 1.06 | 1.97 | 0.375 | 0.87 | 0.87 | 0.79 |
| 22813       | 4.92 | 1.54 | 1.38 | 0.43 | 1.10 | 0.31 | 1.22 | 2.20 | 0.375 | 1.06 | 1.02 | 0.94 |
| 22814       | 5.91 | 1.73 | 1.50 | 0.47 | 1.18 | 0.39 | 1.34 | 2.56 | 0.50  | 1.18 | 1.02 | 0.94 |
| 22815       | 6.93 | 1.93 | 1.73 | 0.51 | 1.38 | 0.63 | 1.54 | 3.15 | 0.50  | 1.10 | 1.38 | 1.30 |
| 22816       | 7.87 | 2.09 | 1.97 | 0.55 | 1.57 | 0.51 | 1.73 | 3.54 | 0.625 | 1.42 | 1.57 | 1.50 |
| 22817       | 9.84 | 2.36 | 2.24 | 0.66 | 1.88 | 0.74 | 1.97 | 3.54 | 0.625 | 1.42 | 1.57 | 1.50 |

## Plastic Solid Handwheel With Revolving, Spring Loaded, Fold-Away Handle ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

This handwheel has a special spring loaded handle which automatically folds down into the cavity of the handwheel when the operator releases it. The handle disengages only when the axial pressure exerted by the operator ceases.



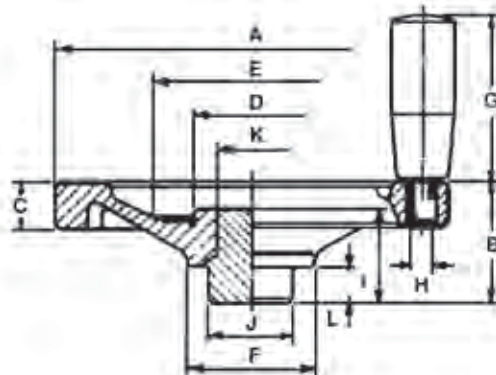
| Part Number | A    | B    | C    | D   | E    | F   | G    | H    | I    | J    | K    | L    |
|-------------|------|------|------|-----|------|-----|------|------|------|------|------|------|
| 22825       | 6.93 | 1.93 | 1.73 | .51 | 1.38 | .63 | 1.54 | 3.15 | .500 | 1.10 | 1.38 | 1.30 |
| 22826       | 7.87 | 2.09 | 1.97 | .55 | 1.57 | .51 | 1.75 | 3.54 | .625 | 1.42 | 1.57 | 1.50 |
| 22827       | 9.84 | 2.36 | 2.24 | .66 | 1.88 | .74 | 1.96 | 3.54 | .625 | 1.42 | 1.57 | 1.50 |



## Plastic Solid Handwheel ELESA Original Design



- Material: High Strength Reinforced Duroplast
- Finish: Black Bright
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A     | B    | C    | D    | E    | F    | G    | H   | I    | J    | K    | L    |
|-------------|-------|------|------|------|------|------|------|-----|------|------|------|------|
| 22831       | 3.15  | 1.22 | 0.55 | 1.10 | 1.69 | 1.18 | —    | —   | 1.10 | 0.79 | 0.71 | 0.39 |
| 22841*      | 3.15  | 1.22 | 0.55 | 1.10 | 1.69 | 1.18 | 1.57 | M6  | 1.10 | 0.79 | 0.71 | 0.39 |
| 22832       | 3.94  | 1.57 | 0.59 | 1.38 | 2.13 | 1.54 | —    | —   | 1.42 | 0.94 | 0.87 | 0.47 |
| 22842*      | 3.94  | 2.01 | 1.02 | 1.38 | 2.13 | 1.54 | 1.97 | M6  | 1.42 | 0.94 | 0.79 | 0.47 |
| 22833       | 4.92  | 1.73 | 0.59 | 1.73 | 2.76 | 1.81 | —    | —   | 1.50 | 1.26 | 1.04 | 0.59 |
| 22843*      | 4.92  | 2.24 | 1.10 | 1.73 | 2.76 | 1.81 | 2.56 | M8  | 1.50 | 1.26 | 0.96 | 0.59 |
| 22834       | 5.91  | 2.40 | 1.18 | 1.97 | 3.14 | 1.89 | —    | —   | 1.50 | 1.26 | 1.04 | 0.59 |
| 22844*      | 5.91  | 2.36 | 1.18 | 1.97 | 3.15 | 1.89 | 2.56 | M8  | 1.50 | 1.26 | 0.96 | 0.59 |
| 22835       | 6.89  | 2.13 | 0.75 | 2.17 | 3.54 | 2.20 | —    | —   | 1.69 | 1.57 | 1.30 | 0.59 |
| 22845*      | 6.89  | 2.60 | 1.26 | 2.17 | 3.54 | 2.20 | 3.15 | M10 | 1.69 | 1.57 | 1.22 | 0.59 |
| 22836       | 7.87  | 2.28 | 0.83 | 2.17 | 3.54 | 2.36 | —    | —   | 1.69 | 1.57 | 1.30 | 0.59 |
| 22846*      | 7.87  | 2.68 | 1.26 | 2.17 | 3.54 | 2.36 | 3.54 | M10 | 1.69 | 1.57 | 1.22 | 0.59 |
| 22837       | 9.80  | 2.56 | 0.98 | 2.60 | 4.33 | 2.76 | —    | —   | 1.73 | 1.93 | 1.57 | 0.59 |
| 22847*      | 9.80  | 2.95 | 1.42 | 2.60 | 4.33 | 2.76 | 3.54 | M10 | 1.73 | 1.93 | 1.50 | 0.59 |
| 22838       | 11.85 | 2.95 | 0.98 | 3.70 | 5.83 | 3.23 | —    | —   | 2.20 | 2.28 | 2.28 | 0.71 |
| 22848*      | 11.85 | 3.43 | 1.42 | 3.70 | 5.83 | 3.23 | 3.54 | M10 | 2.20 | 2.28 | 2.28 | 0.71 |

\* With Revolving Handle

### Jergens offers 3D models

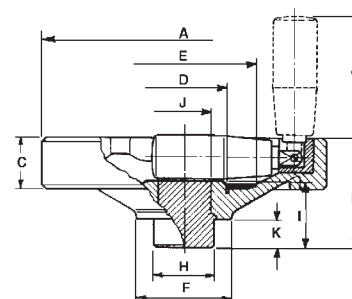
for all handles, knobs and handwheels  
at [www.jergensinc.com](http://www.jergensinc.com)



## Plastic Solid Handwheel With Finger Grips and Revolving Fold-Away Handle ELESA Original Design



- Material: High Strength Reinforced Duroplast
- Finish: Black Bright
- Hub: Black Oxide Steel
- Special bores and keyways quoted upon request
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

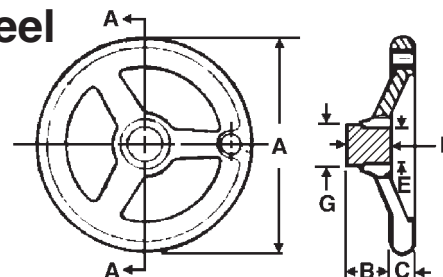


| Part Number | A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| 22852       | 3.94 | 2.01 | 1.02 | 1.38 | 2.13 | 1.54 | 2.20 | 0.94 | 1.32 | 0.79 | 0.47 |
| 22853       | 4.92 | 2.24 | 1.10 | 1.73 | 2.76 | 1.81 | 2.56 | 1.26 | 1.50 | 1.00 | 0.59 |
| 22854       | 5.91 | 2.36 | 1.18 | 1.97 | 3.15 | 1.89 | 2.56 | 1.26 | 1.50 | 0.96 | 0.59 |
| 22855       | 6.89 | 2.60 | 1.26 | 2.17 | 3.54 | 2.20 | 3.15 | 1.57 | 1.69 | 1.22 | 0.59 |
| 22856       | 7.87 | 2.68 | 1.26 | 2.17 | 3.54 | 2.36 | 3.54 | 1.57 | 1.69 | 1.22 | 0.59 |
| 22857       | 9.80 | 2.95 | 1.42 | 2.60 | 4.33 | 2.76 | 3.54 | 1.93 | 1.73 | 1.50 | 0.59 |

## Nylon Angular Three-Spoked Handwheel



- Material: Wheel, 6-6 Nylon  
Hub, Cast Iron
- Finish: Wheel, Black  
Hub, Black Oxide
- Threaded Brass Inserts have serrated O.D. for rigid union with Handwheel.
- All Wheels have three spokes
- Special bores and keyways quoted upon request
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

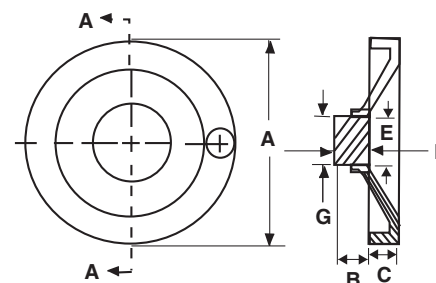


| Part Number | A | B       | C     | E      | F       | G       | Thread Size |
|-------------|---|---------|-------|--------|---------|---------|-------------|
| 34051       | 4 | 1 3/32  | 9/16  | 15/16  | 15/16   | 1 1/16  | M8 x 1.25   |
| 34054       | 6 | 1 13/32 | 23/32 | 1 3/16 | 1 3/8   | 1 3/8   | M10 x 1.50  |
| 34055       | 8 | 1 13/32 | 7/8   | 1 3/8  | 1 29/32 | 1 17/32 | M10 x 1.50  |

## Plastic Angular Solid Handwheel



- Material: Wheel, Acetal Co-Polymer  
Hub, Cast Iron
- Finish: Wheel, Black  
Hub, Black Oxide
- Threaded Brass Inserts have serrated O.D. for rigid union with Handwheel.
- Aluminum Center Plate can be imprinted with your company name, instructions, etc.
- Special bores and keyways quoted upon request
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



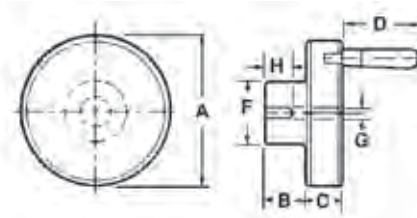
| Part Number | A | B       | C     | E      | F       | G       | Thread Size |
|-------------|---|---------|-------|--------|---------|---------|-------------|
| 34061       | 5 | 1 1/8   | 5/8   | 1      | 1 1/8   | 1 1/8   | M8 x 1.25   |
| 34062       | 6 | 1 11/32 | 23/32 | 1 3/16 | 1 11/32 | 1 11/32 | M10 x 1.50  |
| 34063       | 8 | 1 29/32 | 25/32 | 1 3/8  | 1 29/32 | 1 17/32 | M10 x 1.50  |



## Aluminum Finger Wheel



- Material: 2024 Aluminum
- Finish: Black Anodize
- Knurled O.D. for better gripping
- Revolving handle and reamed hole are included
- Special bores and keyways quoted upon request
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Finger Wheel With Handle

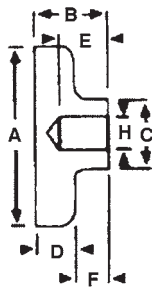
| Part Number | A | B    | C    | D     | F     | G   | H   | Part Number |             |
|-------------|---|------|------|-------|-------|-----|-----|-------------|-------------|
|             |   |      |      |       |       |     |     | Wheel Only  | Handle Only |
| 22721       | 2 | 9/16 | 9/16 | 1 1/8 | 13/16 | 3/8 | 7/8 | 22521       | 21911       |

### Metric Finger Wheel With Handle

| Part Number | A  | B  | C  | D  | F  | G  | H  | Part Number |             |
|-------------|----|----|----|----|----|----|----|-------------|-------------|
|             |    |    |    |    |    |    |    | Wheel Only  | Handle Only |
| 22771       | 50 | 14 | 14 | 28 | 20 | 10 | 22 | 22571*      | 21951       |

\*Not tapped for handle

## Aluminum Finger Wheel



- Material: 2024 Aluminum
- Finish: Clear anodized polished to a high luster
- Special bores and keyways quoted upon request
- Outer rim is knurled

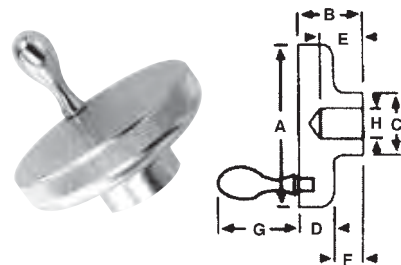
### Finger Wheels

| Part Number | A | B     | C     | D     | E   | F    | H     |
|-------------|---|-------|-------|-------|-----|------|-------|
| 21280       | 1 | 13/16 | 1/2   | 3/8   | —   | 7/16 | Blank |
| 21281       | 2 | 1 1/8 | 13/16 | 9/16  | —   | 9/16 | Blank |
| 21282       | 3 | 1 1/4 | 1 1/4 | 11/16 | —   | 9/16 | Blank |
| 21285       | 1 | 13/16 | 1/2   | 3/8   | 5/8 | 7/16 | 1/4   |
| 21286       | 2 | 1 1/8 | 13/16 | 9/16  | 7/8 | 9/16 | 3/8   |
| 21287       | 3 | 1 1/4 | 1 1/4 | 11/16 | 7/8 | 9/16 | 5/8   |

### Finger Wheels With Handle

| Part Number | A | B     | C     | D    | E   | F    | G       | H     |
|-------------|---|-------|-------|------|-----|------|---------|-------|
| 21291       | 2 | 1 1/8 | 13/16 | 9/16 | —   | 9/16 | 1 9/32  | Blank |
| 21292       | 3 | 1 1/4 | 1 1/4 | 9/16 | —   | 9/16 | 1 15/16 | Blank |
| 21296       | 2 | 1 1/8 | 13/16 | 9/16 | 7/8 | 9/16 | 1 9/32  | 3/8   |
| 21297       | 3 | 1 1/4 | 1 1/4 | 9/16 | 7/8 | 9/16 | 1 15/16 | 5/8   |

Note: Also available in Stainless Steel



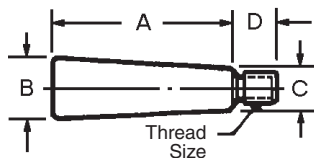
# HANDLES, LEVERS & CRANKS

## Handles, Levers & Cranks

|                                                                |          |                                                                                   |     |
|----------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----|
| Adjustable Handle.....                                         | 106      | Plastic Button Head Adjustable<br>Tapped Handle With Stainless Steel Insert ..... | 108 |
| Adjustable Handle With Stud.....                               | 106      | Plastic Crank With<br>Revolving Fold-Away Handle.....                             | 97  |
| Aluminum Balanced Crank Handle.....                            | 99       | Plastic Crank With Revolving Handle .....                                         | 97  |
| Aluminum Revolving and Solid Handle.....                       | 82       | Plastic Folding Handle.....                                                       | 82  |
| Aluminum Tubular Handle .....                                  | 113      | Plastic Fixed Handle.....                                                         | 82  |
| Aluminum & Malleable Clamping Levers .....                     | 102      | Plastic Handle.....                                                               | 112 |
| Aluminum & Malleable Offset Handle.....                        | 101      | Plastic Heavy Duty Tapered Handle .....                                           | 95  |
| Aluminum & Malleable Speed Handle .....                        | 98       | Plastic Light Duty Tapered Handle .....                                           | 95  |
| Back Mounted Bridge Handle .....                               | 111      | Plastic Pull/Lift Handle .....                                                    | 113 |
| Balanced Crank Handle.....                                     | 99       | Plastic Revolving Fold-Away Handle .....                                          | 96  |
| Cam Levers Adjustable External Thread .....                    | 85       | Plastic Revolving Heavy Duty<br>Handle With Steel Shank .....                     | 93  |
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| Cam Levers Adjustable Stainless Steel External<br>Thread ..... | 90       | Plastic Revolving Handle With Steel Shank.....                                    | 94  |
| Cam Levers External Thread .....                               | 83-86    | Revolving Handle .....                                                            | 94  |
| Cam Levers Plastic External Thread.....                        | 88       | Single Handle Locking Lever.....                                                  | 101 |
| Cam Levers Plastic Internal Thread .....                       | 89       | Steel Clamp Lever.....                                                            | 100 |
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| Plastic Button Head<br>Tapped Adjustable Handle .....          | 107, 109 |                                                                                   |     |
| Plastic Button Head<br>Adjustable Handle With Stud .....       | 107, 109 |                                                                                   |     |



## Aluminum Revolving and Solid Handle



- Material: Handle, 2024 Aluminum  
Stem, Low Carbon Steel
- Finish: Revolving Handle, Clear or Black Anodize  
Stem for Revolving Handle, Zinc Plate  
Solid Handle, Plain
- 3D Solid Models are available in multiple formats  
from [www.jergensinc.com](http://www.jergensinc.com)

### Aluminum Revolving Handles

| Part Number |       | A      | B     | C     | D    | Thread Size | Wt. (lbs) |
|-------------|-------|--------|-------|-------|------|-------------|-----------|
| Clear       | Black |        |       |       |      |             |           |
| 21901       | 21911 | 1 1/8  | 7/16  | 3/8   | 3/8  | 10-24       | .02       |
| 21902       | 21912 | 1 9/16 | 5/8   | 1/2   | 7/16 | 1/4-20      | .03       |
| 21903       | 21913 | 2      | 7/8   | 9/16  | 1/2  | 5/16-18     | .08       |
| 21904       | 21914 | 2 1/2  | 1     | 3/4   | 1/2  | 3/8-16      | .19       |
| 21905       | 21915 | 2 7/8  | 1 1/8 | 15/16 | 1/2  | 1/2-13      | .23       |
| 21906       | 21916 | 3 1/4  | 1 1/4 | 15/16 | 1/2  | 1/2-13      | .39       |

### Solid Handles

| Part Number | Wt. (lbs) |
|-------------|-----------|
| —           | —         |
| 10301       | .03       |
| 10302       | .10       |
| 10303       | .15       |
| —           | —         |
| 10304       | .31       |

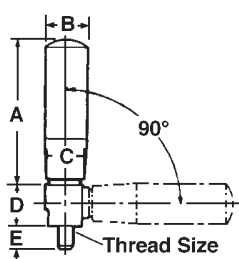
### Metric

| Clear        | Black | A  | B  | C  | D  | Thread Size |
|--------------|-------|----|----|----|----|-------------|
| Part Number* |       |    |    |    |    |             |
| 21951        | 21961 | 28 | 11 | 9  | 9  | M5          |
| 21952        | 21962 | 39 | 16 | 13 | 11 | M6          |
| 21953        | 21963 | 50 | 22 | 14 | 13 | M8          |
| 21954        | 21964 | 63 | 25 | 19 | 13 | M10         |
| 21955        | 21965 | 72 | 28 | 23 | 13 | M12         |
| 21956        | 21966 | 82 | 31 | 23 | 13 | M12         |

\*Dimensions in millimeters

- Material: Handles: 2024 Aluminum  
Stem: Low Carbon Steel
- Finish: Clear or Black Anodize  
Stem: Zinc Plate
- Thread: Class 6g

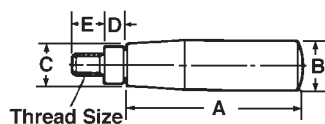
## Plastic Folding Handle



- Material: Handle, 6-6 Nylon Stem, Steel
- Finish: Handle, Black Stem, Chrome Plated
- Folds out of the way
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A     | B     | C     | D   | E    | Thread Size |
|-------------|-------|-------|-------|-----|------|-------------|
| 34070       | 2 1/4 | 25/32 | 25/32 | 7/8 | 1/2  | M8 x 1.25   |
| 34071       | 3     | 25/32 | 25/32 | 7/8 | 9/16 | M10 x 1.50  |

## Plastic Fixed Handle



- Material: Handle, 6-6 Nylon Stem, Steel
- Finish: Handle, Black Stem, Chrome Plated
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

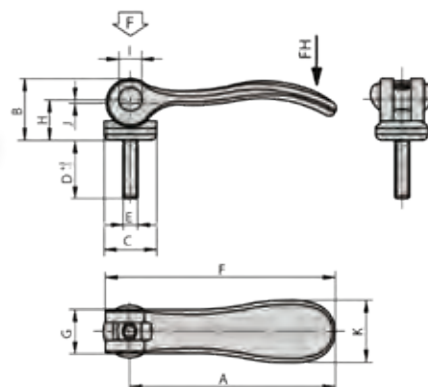
| Part Number | A       | B   | C     | D     | E    | Thread Size |
|-------------|---------|-----|-------|-------|------|-------------|
| 34075       | 2 9/32  | 5/8 | 9/16  | 5/16  | 1/2  | M8 x 1.25   |
| 34076       | 2 15/32 | 7/8 | 11/16 | 23/32 | 9/16 | M10 x 1.50  |



## Cam Levers

### External Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- The external thread version features a threaded stud pinned to the hinge pin for tool-less clamping. The internal thread version features a threaded hinge pin for attachment to an existing threaded stud.
- Available in inch or metric threads
- Cast aluminum handle, powder-coated in black
- Threaded components and washer in steel, trivalent blue passivated, or stainless steel
- Fiberglass reinforced plastic thrust washer



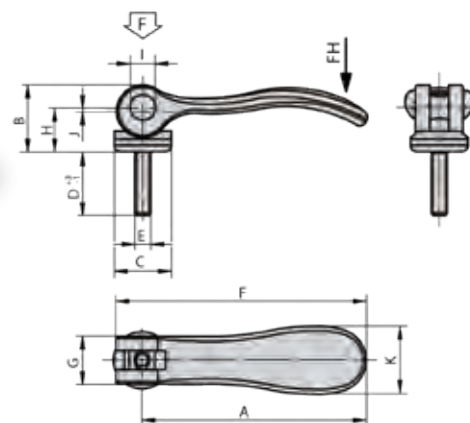
| INCH, EXTERNAL |       | A    | B    | C    | D    | E       | F    | G    | H    | I    | STROKE J | K    | CLAMPING FORCE (lb-ft) | HAND FORCE lbf |
|----------------|-------|------|------|------|------|---------|------|------|------|------|----------|------|------------------------|----------------|
| STEEL          | S.S.  |      |      |      |      |         |      |      |      |      |          |      |                        |                |
| 40015          | 41015 | 1.43 | 0.51 | 0.47 | 0.39 | 6-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 1106                   | 20             |
| 40016          | 41016 | 1.43 | 0.51 | 0.47 | 0.59 | 6-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 1106                   | 20             |
| 40017          | 41017 | 1.43 | 0.51 | 0.47 | 1.18 | 6-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 1106                   | 20             |
| 40018          | 41018 | 1.43 | 0.51 | 0.47 | 0.39 | 8-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 1106                   | 20             |
| 40019          | 41019 | 1.43 | 0.51 | 0.47 | 0.59 | 8-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 1106                   | 20             |
| 40020          | 41020 | 1.43 | 0.51 | 0.47 | 1.18 | 8-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 1106                   | 20             |
| 40021          | 41021 | 2.06 | 0.67 | 0.61 | 0.59 | 8-32    | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40022          | 41022 | 2.06 | 0.67 | 0.61 | 0.79 | 8-32    | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40023          | 41023 | 2.06 | 0.67 | 0.61 | 1.18 | 8-32    | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40024          | 41024 | 2.06 | 0.67 | 0.61 | 0.79 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40025          | 41025 | 2.06 | 0.67 | 0.61 | 1.18 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40026          | 41026 | 2.06 | 0.67 | 0.61 | 1.57 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40027          | 41027 | 2.06 | 0.67 | 0.61 | 1.97 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40028          | 41028 | 2.06 | 0.67 | 0.61 | 0.79 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40029          | 41029 | 2.06 | 0.67 | 0.61 | 1.18 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40030          | 41030 | 2.06 | 0.67 | 0.61 | 1.57 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40031          | 41031 | 2.06 | 0.67 | 0.61 | 1.97 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 1843                   | 22             |
| 40032          | 41032 | 2.77 | 0.87 | 0.71 | 0.79 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40033          | 41033 | 2.77 | 0.87 | 0.71 | 1.18 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40034          | 41034 | 2.77 | 0.87 | 0.71 | 1.57 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40035          | 41035 | 2.77 | 0.87 | 0.71 | 1.97 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40036          | 41036 | 2.77 | 0.87 | 0.71 | 0.79 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40037          | 41037 | 2.77 | 0.87 | 0.71 | 1.18 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40038          | 41038 | 2.77 | 0.87 | 0.71 | 1.57 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40039          | 41039 | 2.77 | 0.87 | 0.71 | 1.97 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 40040          | 41040 | 3.78 | 1.12 | 1.07 | 0.98 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40041          | 41041 | 3.78 | 1.12 | 1.07 | 1.18 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40042          | 41042 | 3.78 | 1.12 | 1.07 | 1.57 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40043          | 41043 | 3.78 | 1.12 | 1.07 | 1.97 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40044          | 41044 | 3.78 | 1.12 | 1.07 | 0.98 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40045          | 41045 | 3.78 | 1.12 | 1.07 | 1.18 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40046          | 41046 | 3.78 | 1.12 | 1.07 | 1.57 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |
| 40047          | 41047 | 3.78 | 1.12 | 1.07 | 1.97 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |



## Cam Levers

### External Thread, Metric

- High quality industrial cam lever for clamping and quick change applications
- The external thread version features a threaded stud pinged to the hinge pin for tool-less clamping. The internal thread version features a threaded hinge pin for attachment to an existing threaded stud.
- Available in inch or metric threads
- Cast aluminum handle, powder-coated in black
- Threaded components and washer in steel, trivalent blue passivated, or stainless steel
- Fiberglass reinforced plastic thrust washer

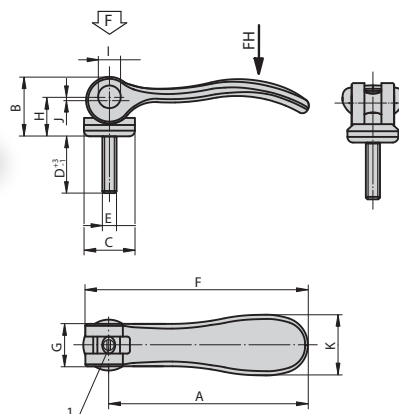


| METRIC, EXTERNAL |       | A    | B    | C    | D  | E  | F    | G    | H    | I  | STROKE J | K    | CLAMPING FORCE (kN) | HAND FORCE N |
|------------------|-------|------|------|------|----|----|------|------|------|----|----------|------|---------------------|--------------|
| STEEL            | S.S.  |      |      |      |    |    |      |      |      |    |          |      |                     |              |
| 40048            | 41048 | 36.2 | 13   | 12   | 10 | M3 | 41.7 | 11.5 | 9    | 6  | 1        | 14.4 | 1.5                 | 90           |
| 40049            | 41049 | 36.2 | 13   | 12   | 15 | M3 | 41.7 | 11.5 | 9    | 6  | 1        | 14.4 | 1.5                 | 90           |
| 40050            | 41050 | 36.2 | 13   | 12   | 30 | M3 | 41.7 | 11.5 | 9    | 6  | 1        | 14.4 | 1.5                 | 90           |
| 40051            | 41051 | 36.2 | 13   | 12   | 10 | M4 | 41.7 | 11.5 | 9    | 6  | 1        | 14.4 | 1.5                 | 90           |
| 40052            | 41052 | 36.2 | 13   | 12   | 15 | M4 | 41.7 | 11.5 | 9    | 6  | 1        | 14.4 | 1.5                 | 90           |
| 40053            | 41053 | 36.2 | 13   | 12   | 30 | M4 | 41.7 | 11.5 | 9    | 6  | 1        | 14.4 | 1.5                 | 90           |
| 40054            | 41054 | 52.3 | 17   | 15.4 | 15 | M4 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40055            | 41055 | 52.3 | 17   | 15.4 | 20 | M4 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40056            | 41056 | 52.3 | 17   | 15.4 | 30 | M4 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40057            | 41057 | 52.3 | 17   | 15.4 | 20 | M5 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40058            | 41058 | 52.3 | 17   | 15.4 | 30 | M5 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40059            | 41059 | 52.3 | 17   | 15.4 | 40 | M5 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40060            | 41060 | 52.3 | 17   | 15.4 | 50 | M5 | 59.1 | 13   | 11.2 | 8  | 1        | 18   | 2.5                 | 100          |
| 40061            | 41061 | 70.4 | 22   | 18.1 | 20 | M5 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40062            | 41062 | 70.4 | 22   | 18.1 | 30 | M5 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40063            | 41063 | 70.4 | 22   | 18.1 | 40 | M5 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40064            | 41064 | 70.4 | 22   | 18.1 | 50 | M5 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40065            | 41065 | 70.4 | 22   | 18.1 | 20 | M6 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40066            | 41066 | 70.4 | 22   | 18.1 | 30 | M6 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40067            | 41067 | 70.4 | 22   | 18.1 | 40 | M6 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40068            | 41068 | 70.4 | 22   | 18.1 | 50 | M6 | 79.2 | 15   | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 40069            | 41069 | 96   | 28.5 | 27.1 | 25 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40070            | 41070 | 96   | 28.5 | 27.1 | 30 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40071            | 41071 | 96   | 28.5 | 27.1 | 40 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40072            | 41072 | 96   | 28.5 | 27.1 | 50 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40073            | 41073 | 96   | 28.5 | 27.1 | 25 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40074            | 41074 | 96   | 28.5 | 27.1 | 30 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40075            | 41075 | 96   | 28.5 | 27.1 | 40 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |
| 40076            | 41076 | 96   | 28.5 | 27.1 | 50 | M8 | 108  | 24   | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |



## Cam Levers, Adjustable External Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- The threaded stud is free to rotate in the hinge pin. A screwdriver slot enables the user to adjust the tension of the stud and control the point at which the handle achieves optimal clamping. This is particularly useful in applications where obstructions permit clamping in less than a 360° circle.
- Available in inch or metric threads
- Cast aluminum handle, powder-coated in black
- Threaded components and washer in steel, trivalent blue passivated, or stainless steel
- Fiberglass reinforced plastic thrust washer



1. Screwdriver slot for fine adjustment of cam lever.

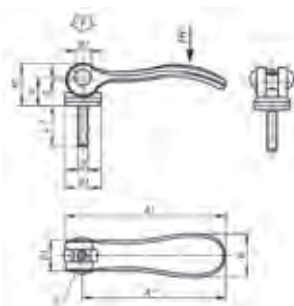
| INCH  |       | A    | B    | C    | D    | E       | F    | G    | H    | I    | STROKE J | K    | CLAMPING FORCE (lb-ft) | HAND FORCE lbf |
|-------|-------|------|------|------|------|---------|------|------|------|------|----------|------|------------------------|----------------|
| STEEL | S.S.  |      |      |      |      |         |      |      |      |      |          |      |                        |                |
| 40115 | 41210 | 1.43 | 0.51 | 0.47 | 0.39 | 6-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 337                    | 20             |
| 40116 | 41211 | 1.43 | 0.51 | 0.47 | 0.59 | 6-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 337                    | 20             |
| 40117 | 41212 | 1.43 | 0.51 | 0.47 | 1.18 | 6-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 337                    | 20             |
| 40118 | 41213 | 1.43 | 0.51 | 0.47 | 0.39 | 8-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 337                    | 20             |
| 40119 | 41214 | 1.43 | 0.51 | 0.47 | 0.59 | 8-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 337                    | 20             |
| 40120 | 41215 | 1.43 | 0.51 | 0.47 | 1.18 | 8-32    | 1.64 | 0.45 | 0.35 | 0.24 | 0.04     | 0.57 | 337                    | 20             |
| 40121 | 41216 | 2.06 | 0.67 | 0.61 | 0.59 | 8-32    | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40122 | 41217 | 2.06 | 0.67 | 0.61 | 0.79 | 8-32    | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40123 | 41218 | 2.06 | 0.67 | 0.61 | 1.18 | 8-32    | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40124 | 41219 | 2.06 | 0.67 | 0.61 | 0.79 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40125 | 41220 | 2.06 | 0.67 | 0.61 | 1.18 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40126 | 41221 | 2.06 | 0.67 | 0.61 | 1.57 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40127 | 41222 | 2.06 | 0.67 | 0.61 | 1.97 | 10-24   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40128 | 41223 | 2.06 | 0.67 | 0.61 | 0.79 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40129 | 41224 | 2.06 | 0.67 | 0.61 | 1.18 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40130 | 41225 | 2.06 | 0.67 | 0.61 | 1.57 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40131 | 41226 | 2.06 | 0.67 | 0.61 | 1.97 | 10-32   | 2.33 | 0.51 | 0.44 | 0.32 | 0.04     | 0.71 | 562                    | 22             |
| 40132 | 41227 | 2.77 | 0.87 | 0.71 | 0.79 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40133 | 41228 | 2.77 | 0.87 | 0.71 | 1.18 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40134 | 41229 | 2.77 | 0.87 | 0.71 | 1.57 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40135 | 41230 | 2.77 | 0.87 | 0.71 | 1.97 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40136 | 41231 | 2.77 | 0.87 | 0.71 | 0.79 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40137 | 41232 | 2.77 | 0.87 | 0.71 | 1.18 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40138 | 41233 | 2.77 | 0.87 | 0.71 | 1.57 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40139 | 41234 | 2.77 | 0.87 | 0.71 | 1.97 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 899                    | 27             |
| 40140 | 41235 | 3.78 | 1.12 | 1.07 | 0.98 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40141 | 41236 | 3.78 | 1.12 | 1.07 | 1.18 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40142 | 41237 | 3.78 | 1.12 | 1.07 | 1.57 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40143 | 41238 | 3.78 | 1.12 | 1.07 | 1.97 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40144 | 41239 | 3.78 | 1.12 | 1.07 | 0.98 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40145 | 41240 | 3.78 | 1.12 | 1.07 | 1.18 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40146 | 41241 | 3.78 | 1.12 | 1.07 | 1.57 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |
| 40147 | 41242 | 3.78 | 1.12 | 1.07 | 1.97 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 1798                   | 79             |



## Cam Levers, Stainless Steel

### External Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- The adjustable cam lever with a stainless steel handle. The threaded stud is free to rotate in the hinge pin, which is pinned. A screwdriver slot enables the user to adjust the tension of the stud and control the point at which the handle achieves optimal clamping. This is particularly useful in applications where obstructions permit clamping in less than a 360° circle.
- Available in inch or metric threads
- Fiberglass reinforced plastic thrust washer



| INCH  | A    | B    | C    | D    | E       | F    | G    | H    | I    | STROKE<br>J | K    | CLAMP-<br>ING<br>FORCE<br>(lb-ft) | HAND<br>FORCE<br>lbf |
|-------|------|------|------|------|---------|------|------|------|------|-------------|------|-----------------------------------|----------------------|
| 41272 | 2.77 | 0.87 | 0.71 | 0.79 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41273 | 2.77 | 0.87 | 0.71 | 1.18 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41274 | 2.77 | 0.87 | 0.71 | 1.57 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41275 | 2.77 | 0.87 | 0.71 | 1.97 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41276 | 2.77 | 0.87 | 0.71 | 0.79 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41277 | 2.77 | 0.87 | 0.71 | 1.18 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41278 | 2.77 | 0.87 | 0.71 | 1.57 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41279 | 2.77 | 0.87 | 0.71 | 1.97 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05        | 0.85 | 2950                              | 26                   |
| 41280 | 3.78 | 1.12 | 1.07 | 0.98 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41281 | 3.78 | 1.12 | 1.07 | 1.18 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41282 | 3.78 | 1.12 | 1.07 | 1.57 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41283 | 3.78 | 1.12 | 1.07 | 1.97 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41284 | 3.78 | 1.12 | 1.07 | 0.98 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41285 | 3.78 | 1.12 | 1.07 | 1.18 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41286 | 3.78 | 1.12 | 1.07 | 1.57 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |
| 41287 | 3.78 | 1.12 | 1.07 | 1.97 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06        | 1.31 | 5900                              | 78                   |

## Cam Levers, Stainless Steel

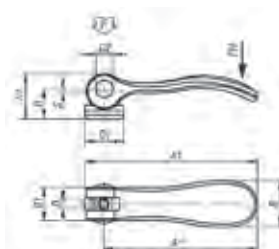
### External Thread, Metric

| METRIC | A    | B    | C    | D  | E   | F    | G  | H    | I  | STROKE<br>J | K    | CLAMP-<br>ING<br>FORCE<br>(kN) | HAND<br>FORCE<br>N |
|--------|------|------|------|----|-----|------|----|------|----|-------------|------|--------------------------------|--------------------|
| 41288  | 70.4 | 22   | 18.1 | 20 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41289  | 70.4 | 22   | 18.1 | 30 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41290  | 70.4 | 22   | 18.1 | 40 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41291  | 70.4 | 22   | 18.1 | 50 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41292  | 70.4 | 22   | 18.1 | 20 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41293  | 70.4 | 22   | 18.1 | 30 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41294  | 70.4 | 22   | 18.1 | 40 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41295  | 70.4 | 22   | 18.1 | 50 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2         | 21.5 | 4                              | 120                |
| 41296  | 96   | 28.5 | 27.1 | 25 | M8  | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41297  | 96   | 28.5 | 27.1 | 30 | M8  | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41298  | 96   | 28.5 | 27.1 | 40 | M8  | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41299  | 96   | 28.5 | 27.1 | 50 | M8  | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41300  | 96   | 28.5 | 27.1 | 25 | M10 | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41313  | 96   | 28.5 | 27.1 | 30 | M10 | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41314  | 96   | 28.5 | 27.1 | 40 | M10 | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |
| 41315  | 96   | 28.5 | 27.1 | 50 | M10 | 108  | 24 | 18   | 11 | 1.5         | 33.3 | 8                              | 350                |



## Cam Levers, Stainless Steel *Internal Thread, Inch*

- High quality industrial cam lever for clamping and quick change applications
- Is a standard cam lever with a stainless steel handle and stainless steel components. The external thread version features a threaded stud pinned to the hinge pin for tool-less clamping. The internal thread version features a threaded hinge pin for attachment to an existing threaded stud.
- Available in inch or metric threads
- Fiberglass reinforced plastic thrust washer



| INCH  | A    | B    | C    | E       | F    | G    | H    | I    | STROKE J | K    | CLAMPING FORCE (lb-ft) | HAND FORCE lbf |
|-------|------|------|------|---------|------|------|------|------|----------|------|------------------------|----------------|
| 41316 | 2.77 | 0.87 | 0.71 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 41317 | 2.77 | 0.87 | 0.71 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                   | 26             |
| 41318 | 3.78 | 1.12 | 1.07 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                   | 78             |

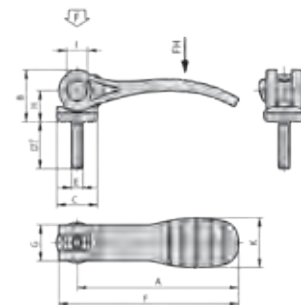
## Cam Levers, Stainless Steel *Internal Thread, Metric*

| METRIC | A    | B    | C    | E  | F    | G  | H    | I  | STROKE J | K    | CLAMPING FORCE (kN) | HAND FORCE N |
|--------|------|------|------|----|------|----|------|----|----------|------|---------------------|--------------|
| 41319  | 70.4 | 22   | 18.1 | M5 | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 41320  | 70.4 | 22   | 18.1 | M6 | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                   | 120          |
| 41321  | 96   | 28.5 | 27.1 | M8 | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                   | 350          |



## Cam Levers, Plastic External Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- Is the standard cam lever with a plastic handle. The external thread version features a threaded stud pinged to the hinge pin for tool-less clamping. The internal thread version features a threaded hinge pin for attachment to an existing threaded stud.
- Available in inch or metric threads
- Fiberglass reinforced plastic handle
- Threaded components and washer in steel, trivalent blue passivated, or stainless steel
- Fiberglass reinforced plastic thrust washer



| INCH  |       | A    | B    | C    | D    | E       | F    | G    | H    | I    | K    | STROKE | CLAMPING<br>FORCE<br>(lb-ft) | HAND<br>FORCE<br>lbf |
|-------|-------|------|------|------|------|---------|------|------|------|------|------|--------|------------------------------|----------------------|
| STEEL | S.S.  |      |      |      |      |         |      |      |      |      |      |        |                              |                      |
| 40212 | 41119 | 2.81 | 0.92 | 0.71 | 0.79 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40213 | 41120 | 2.81 | 0.92 | 0.71 | 1.18 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40214 | 41121 | 2.81 | 0.92 | 0.71 | 1.57 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40215 | 41122 | 2.81 | 0.92 | 0.71 | 1.97 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40216 | 41123 | 2.81 | 0.92 | 0.71 | 0.79 | 1/4/20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40217 | 41124 | 2.81 | 0.92 | 0.71 | 1.18 | 1/4/20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40218 | 41125 | 2.81 | 0.92 | 0.71 | 1.57 | 1/4/20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40219 | 41126 | 2.81 | 0.92 | 0.71 | 1.97 | 1/4/20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                          | 28                   |
| 40220 | 41127 | 3.94 | 1.09 | 1.07 | 0.98 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40221 | 41128 | 3.94 | 1.09 | 1.07 | 1.18 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40222 | 41129 | 3.94 | 1.09 | 1.07 | 1.57 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40223 | 41130 | 3.94 | 1.09 | 1.07 | 1.97 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40224 | 41131 | 3.94 | 1.09 | 1.07 | 0.98 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40225 | 41132 | 3.94 | 1.09 | 1.07 | 1.18 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40226 | 41133 | 3.94 | 1.09 | 1.07 | 1.57 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |
| 40227 | 41134 | 3.94 | 1.09 | 1.07 | 1.97 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                         | 38                   |

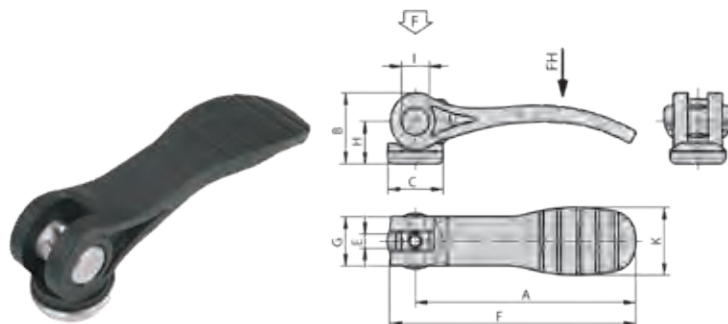
## Cam Levers, Plastic External Thread, Metric

| METRIC |       | A    | B    | C    | D  | E   | F    | G    | H    | I  | K  | STROKE | CLAMPING<br>FORCE<br>(kN) | HAND<br>FORCE<br>N |
|--------|-------|------|------|------|----|-----|------|------|------|----|----|--------|---------------------------|--------------------|
| STEEL  | S.S.  |      |      |      |    |     |      |      |      |    |    |        |                           |                    |
| 40228  | 41135 | 71.5 | 23.4 | 18.1 | 20 | M5  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40229  | 41136 | 71.5 | 23.4 | 18.1 | 30 | M5  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40230  | 41137 | 71.5 | 23.4 | 18.1 | 40 | M5  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40231  | 41138 | 71.5 | 23.4 | 18.1 | 50 | M5  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40232  | 41139 | 71.5 | 23.4 | 18.1 | 20 | M6  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40233  | 41140 | 71.5 | 23.4 | 18.1 | 30 | M6  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40234  | 41141 | 71.5 | 23.4 | 18.1 | 40 | M6  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40235  | 41142 | 71.5 | 23.4 | 18.1 | 50 | M6  | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                       | 125                |
| 40236  | 41143 | 100  | 27.7 | 27.1 | 25 | M8  | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40237  | 41144 | 100  | 27.7 | 27.1 | 30 | M8  | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40238  | 41145 | 100  | 27.7 | 27.1 | 40 | M8  | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40239  | 41146 | 100  | 27.7 | 27.1 | 50 | M8  | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40240  | 41147 | 100  | 27.7 | 27.1 | 25 | M10 | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40241  | 41148 | 100  | 27.7 | 27.1 | 30 | M10 | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40242  | 41149 | 100  | 27.7 | 27.1 | 40 | M10 | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |
| 40243  | 41150 | 100  | 27.7 | 27.1 | 50 | M10 | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                         | 170                |



## Cam Levers, Plastic Internal Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- Is the standard cam lever with a plastic handle. The external thread version features a threaded stud pinged to the hinge pin for tool-less clamping. The internal thread version features a threaded hinge pin for attachment to an existing threaded stud.
- Available in inch or metric threads
- Fiberglass reinforced plastic handle
- Threaded components and washer in steel, trivalent blue passivated, or stainless steel
- Fiberglass reinforced plastic thrust washer



| INCH  |       | A    | B    | C    | E       | F    | G    | H    | I    | K    | STROKE | CLAMPING FORCE F (lbf) | HAND FORCE lbf |
|-------|-------|------|------|------|---------|------|------|------|------|------|--------|------------------------|----------------|
| STEEL | S.S.  |      |      |      |         |      |      |      |      |      |        |                        |                |
| 40206 | 41113 | 2.81 | 0.92 | 0.71 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40207 | 41114 | 2.81 | 0.92 | 0.71 | 1/4-20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40208 | 41115 | 3.94 | 1.08 | 1.07 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.3  | 0.06   | 1124                   | 28             |

## Cam Levers, Plastic Internal Thread, Metric

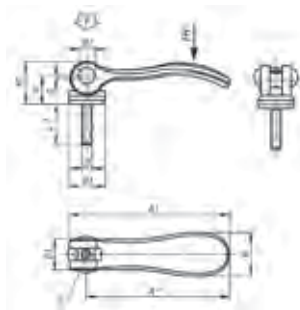
| METRIC |       | A    | B    | C    | E  | F    | G    | H    | I  | K  | STROKE | CLAMPING FORCE F (kN) | HAND FORCE N |
|--------|-------|------|------|------|----|------|------|------|----|----|--------|-----------------------|--------------|
| STEEL  | S.S.  |      |      |      |    |      |      |      |    |    |        |                       |              |
| 40209  | 41116 | 71.5 | 23.4 | 18.1 | M5 | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40210  | 41117 | 71.5 | 23.4 | 18.1 | M6 | 79.6 | 16   | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40211  | 41118 | 100  | 27.7 | 27.1 | M8 | 110  | 24.2 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |



## Cam Levers Adjustable, Stainless Steel

### External Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- Threaded stud is free to rotate in the hinge pin, unlike the standard version, which is pined. A screwdriver slot enables the user to adjust the tension of the stud and control the point at which the handle achieves optimal clamping. This is particularly useful in applications where obstructions permit clamping in less than a 360° circle.
- Available in inch or metric threads
- Fiberglass reinforced plastic thrust washer



| INCH  | A    | B    | C    | D    | E       | F    | G    | H    | I    | STROKE J | K    | CLAMP-<br>ING<br>FORCE<br>(lb-ft) | HAND<br>FORCE<br>lbf |
|-------|------|------|------|------|---------|------|------|------|------|----------|------|-----------------------------------|----------------------|
| 41272 | 2.77 | 0.87 | 0.71 | 0.79 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41273 | 2.77 | 0.87 | 0.71 | 1.18 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41274 | 2.77 | 0.87 | 0.71 | 1.57 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41275 | 2.77 | 0.87 | 0.71 | 1.97 | 10-32   | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41276 | 2.77 | 0.87 | 0.71 | 0.79 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41277 | 2.77 | 0.87 | 0.71 | 1.18 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41278 | 2.77 | 0.87 | 0.71 | 1.57 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41279 | 2.77 | 0.87 | 0.71 | 1.97 | 1/4-20  | 3.12 | 0.59 | 0.57 | 0.35 | 0.05     | 0.85 | 2950                              | 26                   |
| 41280 | 3.78 | 1.12 | 1.07 | 0.98 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41281 | 3.78 | 1.12 | 1.07 | 1.18 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41282 | 3.78 | 1.12 | 1.07 | 1.57 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41283 | 3.78 | 1.12 | 1.07 | 1.97 | 5/16-18 | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41284 | 3.78 | 1.12 | 1.07 | 0.98 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41285 | 3.78 | 1.12 | 1.07 | 1.18 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41286 | 3.78 | 1.12 | 1.07 | 1.57 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |
| 41287 | 3.78 | 1.12 | 1.07 | 1.97 | 3/8-16  | 4.25 | 0.94 | 0.71 | 0.43 | 0.06     | 1.31 | 5900                              | 78                   |

## Cam Levers Adjustable, Stainless Steel

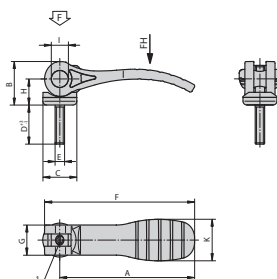
### External Thread, Metric

| METRIC | A    | B    | C    | D  | E   | F    | G  | H    | I  | STROKE J | K    | CLAMP-<br>ING<br>FORCE<br>(kN) | HAND<br>FORCE N |
|--------|------|------|------|----|-----|------|----|------|----|----------|------|--------------------------------|-----------------|
| 41288  | 70.4 | 22   | 18.1 | 20 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41289  | 70.4 | 22   | 18.1 | 30 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41290  | 70.4 | 22   | 18.1 | 40 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41291  | 70.4 | 22   | 18.1 | 50 | M5  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41292  | 70.4 | 22   | 18.1 | 20 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41293  | 70.4 | 22   | 18.1 | 30 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41294  | 70.4 | 22   | 18.1 | 40 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41295  | 70.4 | 22   | 18.1 | 50 | M6  | 79.2 | 15 | 14.5 | 9  | 1.2      | 21.5 | 4                              | 120             |
| 41296  | 96   | 28.5 | 27.1 | 25 | M8  | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41297  | 96   | 28.5 | 27.1 | 30 | M8  | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41298  | 96   | 28.5 | 27.1 | 40 | M8  | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41299  | 96   | 28.5 | 27.1 | 50 | M8  | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41300  | 96   | 28.5 | 27.1 | 25 | M10 | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41313  | 96   | 28.5 | 27.1 | 30 | M10 | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41314  | 96   | 28.5 | 27.1 | 40 | M10 | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |
| 41315  | 96   | 28.5 | 27.1 | 50 | M10 | 108  | 24 | 18   | 11 | 1.5      | 33.3 | 8                              | 350             |



## Cam Levers, Adjustable Plastic External Thread, Inch

- High quality industrial cam lever for clamping and quick change applications
- Adjustable cam lever with a fiberglass reinforced plastic handle. The threaded stud is free to rotate in the hinge pin. A screwdriver slot enables the user to adjust the tension of the stud and control the point at which the handle achieves optimal clamping. This is particularly useful in applications where obstructions permit clamping in less than a 360° circle.
- Available in inch or metric threads
- Fiberglass reinforced plastic handle
- Threaded components and washer in steel, trivalent blue passivated, or stainless steel
- Fiberglass reinforced plastic thrust washer



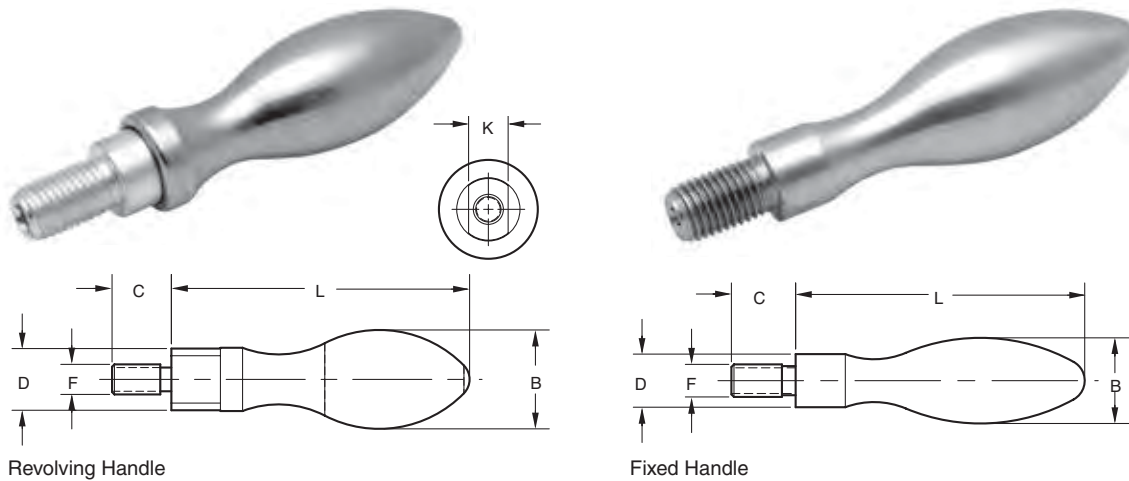
| INCH  |       | A    | B    | C    | D    | E       | F    | G    | H    | I    | K    | STROKE | CLAMPING FORCE F (lbf) | HAND FORCE lbf |
|-------|-------|------|------|------|------|---------|------|------|------|------|------|--------|------------------------|----------------|
| STEEL | S.S.  |      |      |      |      |         |      |      |      |      |      |        |                        |                |
| 40244 | 41158 | 2.81 | 0.92 | 0.71 | 0.79 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40245 | 41159 | 2.81 | 0.92 | 0.71 | 1.18 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40246 | 41160 | 2.81 | 0.92 | 0.71 | 1.57 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40247 | 41161 | 2.81 | 0.92 | 0.71 | 1.97 | 10-32   | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40248 | 41162 | 2.81 | 0.92 | 0.71 | 0.79 | 1/4-20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40249 | 41163 | 2.81 | 0.92 | 0.71 | 1.18 | 1/4-20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40250 | 41164 | 2.81 | 0.92 | 0.71 | 1.57 | 1/4-20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40251 | 41165 | 2.81 | 0.92 | 0.71 | 1.97 | 1/4-20  | 3.13 | 0.63 | 0.55 | 0.35 | 0.87 | 0.05   | 562                    | 28             |
| 40252 | 41166 | 3.94 | 1.09 | 1.06 | 0.98 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40253 | 41167 | 3.94 | 1.09 | 1.06 | 1.18 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40254 | 41168 | 3.94 | 1.09 | 1.06 | 1.57 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40255 | 41169 | 3.94 | 1.09 | 1.06 | 1.97 | 5/16-18 | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40256 | 41170 | 3.94 | 1.09 | 1.06 | 0.98 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40257 | 41171 | 3.94 | 1.09 | 1.06 | 1.18 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40258 | 41172 | 3.94 | 1.09 | 1.06 | 1.57 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |
| 40259 | 41173 | 3.94 | 1.09 | 1.06 | 1.97 | 3/8-16  | 4.33 | 0.95 | 0.64 | 0.43 | 1.30 | 0.06   | 1124                   | 38             |

## Cam Levers, Adjustable Plastic External Thread, Metric

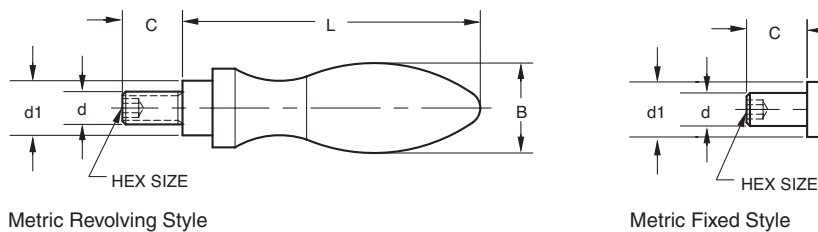
| METRIC |       | A    | B    | C    | D  | E   | F    | G  | H    | I  | K  | STROKE | CLAMPING FORCE F (kN) | HAND FORCE N |
|--------|-------|------|------|------|----|-----|------|----|------|----|----|--------|-----------------------|--------------|
| STEEL  | S.S.  |      |      |      |    |     |      |    |      |    |    |        |                       |              |
| 40260  | 41174 | 71.5 | 23.4 | 18.1 | 20 | M5  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40261  | 41175 | 71.5 | 23.4 | 18.1 | 30 | M5  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40262  | 41176 | 71.5 | 23.4 | 18.1 | 40 | M5  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40263  | 41177 | 71.5 | 23.4 | 18.1 | 50 | M5  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40264  | 41178 | 71.5 | 23.4 | 18.1 | 20 | M6  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40265  | 41179 | 71.5 | 23.4 | 18.1 | 30 | M6  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40266  | 41180 | 71.5 | 23.4 | 18.1 | 40 | M6  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40267  | 41181 | 71.5 | 23.4 | 18.1 | 50 | M6  | 79.6 | 16 | 14   | 9  | 22 | 1.15   | 2.5                   | 125          |
| 40268  | 41182 | 100  | 27.7 | 27.1 | 25 | M8  | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40269  | 41183 | 100  | 27.7 | 27.1 | 30 | M8  | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40270  | 41184 | 100  | 27.7 | 27.1 | 40 | M8  | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40271  | 41185 | 100  | 27.7 | 27.1 | 50 | M8  | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40272  | 41186 | 100  | 27.7 | 27.1 | 25 | M10 | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40273  | 41187 | 100  | 27.7 | 27.1 | 30 | M10 | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40274  | 41188 | 100  | 27.7 | 27.1 | 40 | M10 | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |
| 40275  | 41189 | 100  | 27.7 | 27.1 | 50 | M10 | 110  | 24 | 16.2 | 11 | 33 | 1.5    | 5                     | 170          |



## Ergonomic Style Steel Handles



| Part Number | Style     | F (Thread) | B     | C     | D    | L       | K    |
|-------------|-----------|------------|-------|-------|------|---------|------|
| 22000       | Revolving | 10 - 24    | 1/2   | 3/8   | 0.32 | 1-7/8   | 1/4  |
| 22001       | Revolving | 1/4 - 20   | 5/8   | 1/2   | 0.40 | 2-1/4   | 5/16 |
| 22002       | Revolving | 5/16 - 18  | 13/16 | 9/16  | 0.51 | 2-13/16 | 3/8  |
| 22003       | Revolving | 3/8 - 16   | 1     | 11/16 | 0.63 | 3-3/8   | 7/16 |
| 22011       | Fixed     | 10 - 24    | 1/2   | 3/8   | 0.32 | 1-11/16 | —    |
| 22012       | Fixed     | 1/4 - 20   | 5/8   | 1/2   | 0.40 | 2       | —    |
| 22013       | Fixed     | 5/16 - 18  | 13/16 | 9/16  | 0.51 | 2-5/8   | —    |
| 22014       | Fixed     | 3/8 - 16   | 1     | 11/16 | 0.63 | 3-3/16  | —    |



### Metric

| Part Number* | Style     | d (Thread) | L     | B  | C  | d 1 |
|--------------|-----------|------------|-------|----|----|-----|
| 22050        | Revolving | M6         | 54.5  | 16 | 11 | 10  |
| 22051        | Revolving | M8         | 67    | 20 | 13 | 13  |
| 22052        | Revolving | M10        | 83    | 25 | 14 | 16  |
| 22053        | Revolving | M12        | 105.5 | 32 | 21 | 20  |
| 22054        | Revolving | M16        | 117   | 36 | 26 | 22  |
| 22055        | Fixed     | M6         | 54    | 16 | 11 | 10  |
| 22056        | Fixed     | M8         | 64    | 20 | 13 | 13  |
| 22057        | Fixed     | M10        | 80    | 25 | 14 | 16  |
| 22058        | Fixed     | M12        | 100   | 32 | 21 | 20  |
| 22059        | Fixed     | M16        | 112   | 36 | 26 | 22  |

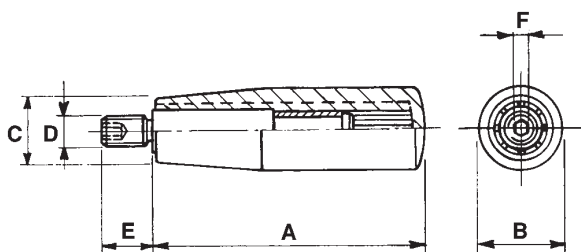
\*Dimensions in millimeters



## Plastic Revolving Heavy Duty Handle With Steel Shank ELESA Original Design



- Material: Black Duroplast
- Finish: Black Bright
- Shank: Zinc Plated Steel or Stainless Steel 303
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



### With Steel Shank

| Part Number | A    | B    | C   | D*  | E   | F   |
|-------------|------|------|-----|-----|-----|-----|
| 33621       | 1.57 | .71  | .59 | M6  | .51 | .12 |
| 33622       | 1.97 | .83  | .67 | M6  | .51 | .12 |
| 33624       | 2.56 | .91  | .75 | M8  | .59 | .16 |
| 33625       | 3.15 | 1.02 | .83 | M10 | .67 | .20 |
| 33626       | 3.54 | 1.10 | .87 | M10 | .67 | .20 |

\*Dimension in millimeters

### With Stainless Steel Shank

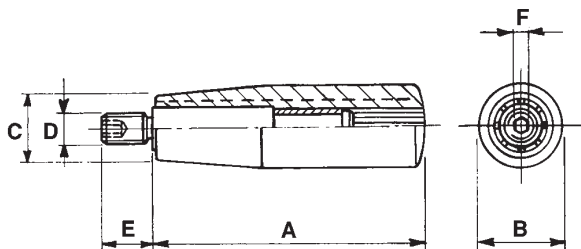
| Part Number | A    | B    | C   | D*  | E   | F   |
|-------------|------|------|-----|-----|-----|-----|
| 34102       | 1.97 | .83  | .67 | M6  | .51 | .12 |
| 34103       | 2.56 | .91  | .75 | M8  | .59 | .16 |
| 34104       | 3.15 | 1.02 | .83 | M10 | .67 | .20 |
| 34105       | 3.54 | 1.10 | .87 | M10 | .67 | .20 |

\*Dimension in millimeters

## Plastic Revolving Handle With Steel Through Shank ELESA Original Design



- Material: Black Duroplast
- Finish: Black Bright
- Shank: Matte Chrome Plated Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



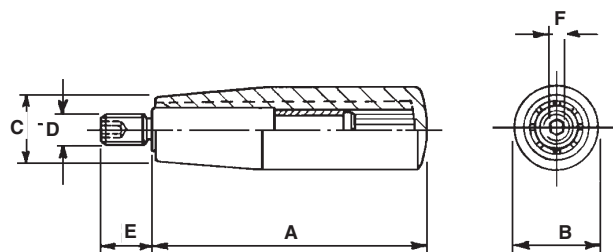
| Part Number | A    | B    | C   | D       | E   | F    |
|-------------|------|------|-----|---------|-----|------|
| 33601       | 1.57 | .71  | .59 | 1/4-20  | .51 | 5/32 |
| 33602       | 1.97 | .83  | .67 | 5/16-18 | .59 | 3/16 |
| 33604       | 2.56 | .91  | .75 | 5/16-18 | .67 | 1/4  |
| 33605       | 3.15 | 1.02 | .83 | 3/8-16  | .71 | 1/4  |
| 33606       | 3.54 | 1.10 | .87 | 3/8-16  | .71 | 5/16 |



## Plastic Revolving Handle With Steel Shank ELESA Original Design



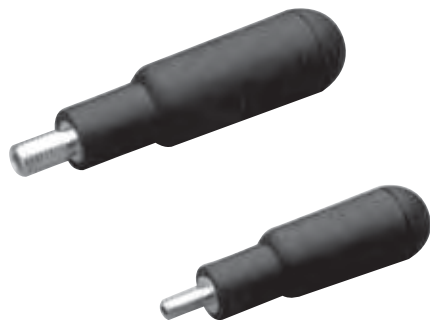
- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Shank: Zinc Plated Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A    | B    | C   | D*  | E   | F   |
|-------------|------|------|-----|-----|-----|-----|
| 33611       | 1.57 | .71  | .59 | M6  | .51 | .12 |
| 33612       | 1.97 | .83  | .67 | M6  | .51 | .12 |
| 33613       | 2.20 | .87  | .71 | M6  | .51 | .12 |
| 33614       | 2.56 | .91  | .75 | M8  | .59 | .16 |
| 33615       | 3.15 | 1.02 | .83 | M8  | .59 | .16 |
| 33616       | 3.54 | 1.10 | .87 | M10 | .67 | .20 |

\*Dimension in millimeters

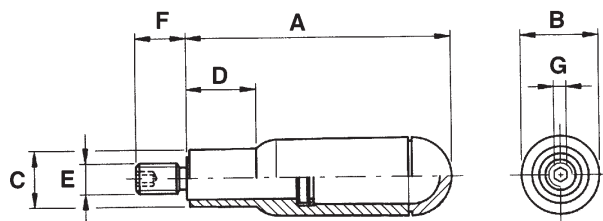
## Revolving Handle ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Gray/Black Matte
- Stud: Zinc Plated Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C   | D   | E*  | F   | G   |
|-------------|------|------|-----|-----|-----|-----|-----|
| 34471       | 2.56 | .81  | .59 | .73 | M6  | .51 | .12 |
| 34472       | 2.87 | .87  | .63 | .75 | M8  | .59 | .16 |
| 34473       | 3.39 | .96  | .69 | .94 | M8  | .59 | .16 |
| 34474       | 3.39 | .96  | .69 | .94 | M10 | .67 | .20 |
| 34475       | 3.74 | 1.04 | .71 | .98 | M10 | .67 | .20 |

\*Dimension in millimeters

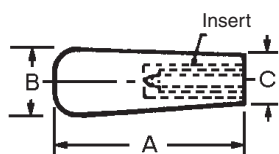




## Plastic Heavy Duty Tapered Handle



- Use as grasp handles on portable tools or as machine shift levers
- Inserts: Brass
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



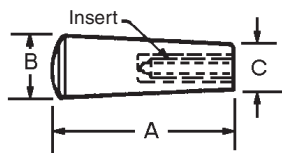
### With Tapped Holes

| Part Number | A     | B     | C | Insert Thread and Depth |
|-------------|-------|-------|---|-------------------------|
| 32105       | 4 1/2 | 1 3/8 | 1 | 3/8-16 x 5/8            |
| 32106       | 4 1/2 | 1 3/8 | 1 | 3/8-24 x 5/8            |
| 32101       | 4 1/2 | 1 3/8 | 1 | 3/8-16 x 2              |
| 32107       | 4 1/2 | 1 3/8 | 1 | 1/2-13 x 5/8            |
| 32108       | 4 1/2 | 1 3/8 | 1 | 1/2-20 x 5/8            |
| 32103       | 4 1/2 | 1 3/8 | 1 | 1/2-13 x 1 1/4          |
| 32104       | 4 1/2 | 1 3/8 | 1 | 5/8-18 x 3/4            |

## Plastic Light Duty Tapered Handle



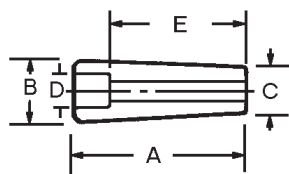
- Use as grasp handles on small tools, utensils, and gauges
- Inserts: Brass
- Through hole style for use with a socket head cap screw
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### With Tapped Holes

| Part Number | A     | B     | C   | Insert Thread and Depth |
|-------------|-------|-------|-----|-------------------------|
| 32111       | 2 5/8 | 1     | 5/8 | 1/4-20 x 7/16           |
| 32112       | 2 5/8 | 1     | 5/8 | 5/16-18 x 7/16          |
| 32117       | 2 5/8 | 1     | 5/8 | 3/8-16 x 1/2            |
| 32118       | 3 7/8 | 1 1/8 | 3/4 | 1/4-20 x 1/2            |
| 32119       | 3 7/8 | 1 1/8 | 3/4 | 5/16-18 x 7/16          |
| 32109       | 3 7/8 | 1 1/8 | 3/4 | 3/8-16 x 5/8            |
| 32102       | 3 7/8 | 1 1/8 | 3/4 | 3/8-16 x 2              |
| 32110*      | 3 7/8 | 1 1/8 | 3/4 | .500/.510 x 2           |

\* Cored Hole



### With Through Hole

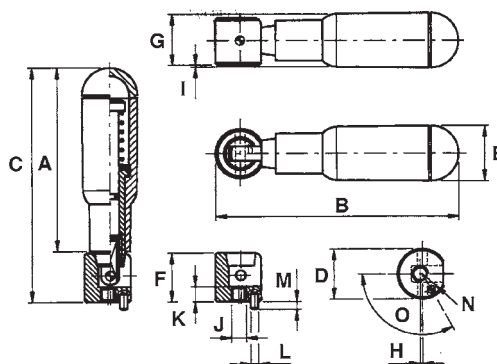
| Part Number | A       | B     | C   | D   | E     | Through Hole Size |
|-------------|---------|-------|-----|-----|-------|-------------------|
| 32113       | 2 9/16  | 1     | 5/8 | 1/2 | 5/8   | .251/.256         |
| 32114       | 3 11/16 | 1 1/8 | 3/4 | 3/4 | 2 5/8 | .380/.385         |



## Fold-Away Handle ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Gray/Black Matte
- Base: Sintered and Oxidized
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

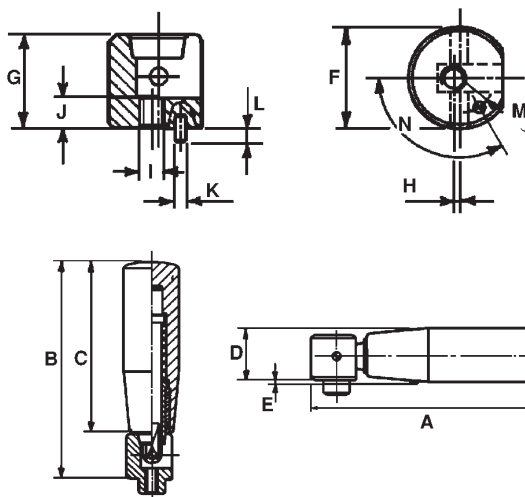


| Part Number | A    | B    | C    | D   | E    | F   | G   | H   | I   | J  | K   | L   | M   | N   | O    |
|-------------|------|------|------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|------|
| 34481       | 2.56 | 3.27 | 3.17 | .63 | .81  | .59 | .75 | .04 | .06 | M4 | .20 | .12 | .12 | .22 | 90°  |
| 34482       | 2.87 | 3.58 | 3.48 | .63 | .87  | .59 | .77 | .04 | .10 | M4 | .20 | .12 | .12 | .22 | 90°  |
| 34483       | 2.87 | 3.82 | 3.66 | .79 | .87  | .77 | .85 | .02 | .02 | M6 | .24 | .12 | .12 | .22 | 120° |
| 34484       | 3.39 | 4.33 | 4.17 | .79 | .96  | .77 | .91 | .02 | .06 | M6 | .24 | .12 | .12 | .28 | 120° |
| 34485       | 3.74 | 4.69 | 4.53 | .79 | 1.04 | .77 | .94 | .02 | .10 | M6 | .24 | .12 | .12 | .28 | 120° |

## Plastic Revolving Fold-Away Handle ELESA Original Design



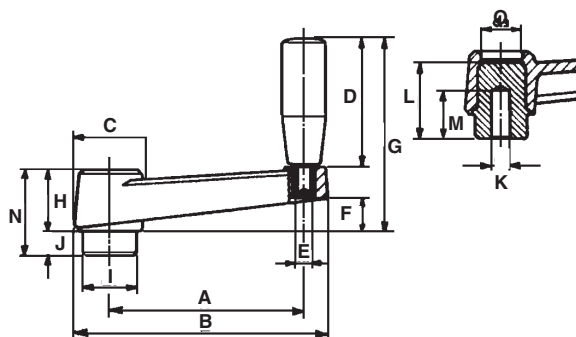
- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Stud: Black Oxide Steel Double Guide
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A    | B    | C    | D    | E   | F    | G   | H   | I  | J   | K   | L   | M   | N    |
|-------------|------|------|------|------|-----|------|-----|-----|----|-----|-----|-----|-----|------|
| 33631       | 2.91 | 2.80 | 2.20 | .75  | .10 | .63  | .59 | .04 | M4 | .20 | .12 | .12 | .22 | 90°  |
| 33632       | 3.27 | 3.15 | 2.56 | .79  | .12 | .63  | .59 | .04 | M4 | .20 | .12 | .12 | .22 | 90°  |
| 33633       | 3.50 | 3.35 | 2.56 | .87  | .04 | .79  | .77 | .02 | M6 | .24 | .12 | .12 | .28 | 120° |
| 33634       | 4.09 | 3.94 | 3.15 | .94  | .10 | .79  | .77 | .02 | M6 | .24 | .12 | .12 | .28 | 120° |
| 33635       | 4.49 | 4.33 | 3.54 | .94  | .12 | .79  | .77 | .02 | M6 | .24 | .12 | .12 | .28 | 120° |
| 33636       | 4.65 | 4.45 | 3.54 | 1.06 | .04 | 1.02 | .91 | .06 | M6 | .28 | .12 | .12 | .37 | 90°  |



## Plastic Crank With Revolving Handle ELESA Original Design

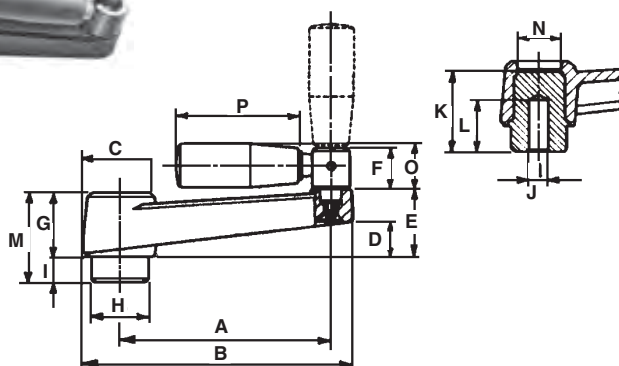


- Material: Glass-Fibre Reinforced Technopolymer
- Finish: Black Matte
- Ribbed Structure for heavy duty applications
- Hub: Black Oxide Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Available in Ergostyle®. See Ergostyle Section.
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A    | B    | C    | D    | E*  | F    | G    | H    | I    | J   | K    | L    | M    | N    | O    |
|-------------|------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|------|
| 33651       | 2.52 | 3.39 | 1.06 | 1.57 | M6  | .39  | 2.48 | .91  | .71  | .39 | .236 | 1.14 | .71  | 1.30 | .63  |
| 33652       | 3.15 | 4.13 | 1.18 | 1.97 | M6  | .51  | 2.99 | 1.02 | .87  | .39 | .236 | 1.26 | 1.02 | 1.42 | .67  |
| 33653       | 3.94 | 5.04 | 1.34 | 2.56 | M8  | .59  | 3.78 | 1.18 | .94  | .39 | .315 | 1.46 | 1.10 | 1.57 | .83  |
| 33654       | 5.11 | 6.37 | 1.57 | 3.15 | M8  | .79  | 4.52 | 1.37 | 1.10 | .55 | .394 | 1.73 | 1.18 | 1.93 | .98  |
| 33655       | 6.30 | 7.80 | 1.77 | 3.54 | M10 | .91  | 5.12 | 1.57 | 1.34 | .59 | .394 | 1.93 | 1.18 | 2.17 | 1.06 |
| 33656       | 8.35 | 8.92 | 1.97 | 3.54 | M10 | 1.02 | 5.35 | 1.77 | 1.57 | .59 | .472 | 2.09 | 1.18 | 2.36 | 1.22 |

\*Dimension in millimeters

## Plastic Crank With Revolving Fold-Away Handle ELESA Original Design

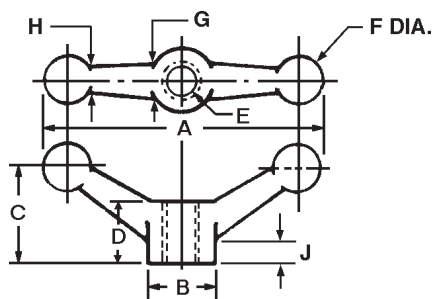


- Material: Glass-Fibre Reinforced Technopolymer
- Finish: Black Matte
- Ribbed Structure for heavy duty applications
- Hub: Black Oxide Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A    | B    | C    | D    | E    | F   | G    | H    | I   | J    | K    | L    | M    | N    | O    | P    |
|-------------|------|------|------|------|------|-----|------|------|-----|------|------|------|------|------|------|------|
| 33662       | 3.15 | 4.13 | 1.18 | .51  | 1.06 | .59 | 1.02 | .87  | .39 | .236 | 1.26 | 1.02 | 1.42 | .67  | .74  | 2.20 |
| 33663       | 3.94 | 5.04 | 1.34 | .59  | 1.22 | .79 | 1.18 | .94  | .39 | .315 | 1.46 | 1.10 | 1.57 | .83  | .86  | 2.56 |
| 33664       | 5.11 | 6.37 | 1.57 | .78  | 1.37 | .79 | 1.37 | 1.10 | .55 | .394 | 1.73 | 1.18 | 1.93 | .98  | .86  | 2.56 |
| 33665       | 6.30 | 7.80 | 1.77 | .91  | 1.57 | .79 | 1.57 | 1.34 | .59 | .394 | 1.93 | 1.18 | 2.17 | 1.06 | .94  | 3.15 |
| 33666       | 8.35 | 8.92 | 1.97 | 1.02 | 1.81 | .91 | 1.77 | 1.57 | .59 | .472 | 2.09 | 1.18 | 2.36 | 1.22 | 1.06 | 3.54 |



## Aluminum & Malleable Speed Handle



- Material: 319 Aluminum  
Malleable ASTM A47, GR32510
- Finish: Mill
- Thread: 2B-UNC or class 6h
- Can be used with rod ends for clamping tank covers, locking lids or any fast spin locking application
- With or without tapped or blank hole
- Three head widths
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- "D" dimension is based on machined castings. It may be slightly greater on blanks.

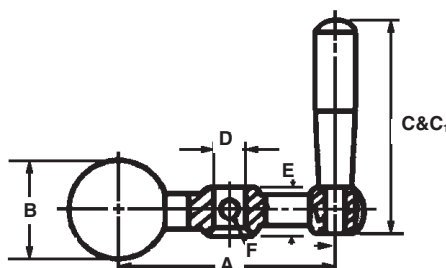
| Part Number |           | A     | B     | C     | D     | E      | Dia<br>F | G    | H    | J   |
|-------------|-----------|-------|-------|-------|-------|--------|----------|------|------|-----|
| Aluminum    | Malleable |       |       |       |       |        |          |      |      |     |
| 39901       | 40301     | 4 1/2 | 1 1/8 | 1 1/2 | 1     | Blank  | 11/16    | 3/4  | 7/16 | 1/2 |
| 39902       | 40302     | 4 1/2 | 1 1/8 | 1 1/2 | 1     | 3/8-16 | 11/16    | 3/4  | 7/16 | 1/2 |
| 39903       | 40303     | 4 1/2 | 1 1/8 | 1 1/2 | 1     | 1/2-13 | 11/16    | 3/4  | 7/16 | 1/2 |
| 39904       | 40304     | 6     | 1 1/2 | 2 1/8 | 1 1/2 | Blank  | .94      | 7/8  | 5/8  | 3/4 |
| 39905       | 40305     | 6     | 1 1/2 | 2 1/8 | 1 1/2 | 1/2-13 | .94      | 7/8  | 5/8  | 3/4 |
| 39906       | 40306     | 6     | 1 1/2 | 2 1/8 | 1 1/2 | 5/8-11 | .94      | 7/8  | 5/8  | 3/4 |
| 39907       | 40307     | 8 3/4 | 2     | 3     | 2     | Blank  | 1 3/16   | 1.02 | 7/8  | .94 |
| —           | 40308     | 8 3/4 | 2     | 3     | 2     | 3/4-10 | 1 3/16   | 1.02 | 7/8  | .94 |

| Part Number |           | A   | B  | C  | D  | E*    | Dia<br>F | G  | H  | J  |
|-------------|-----------|-----|----|----|----|-------|----------|----|----|----|
| Aluminum    | Malleable |     |    |    |    |       |          |    |    |    |
| 39901       | 40301     | 113 | 28 | 38 | 25 | Blank | 17       | 19 | 11 | 13 |
| 39952       | 40352     | 113 | 28 | 38 | 25 | M10   | 17       | 19 | 11 | 13 |
| 39953       | 40353     | 113 | 28 | 38 | 25 | M12   | 17       | 19 | 11 | 13 |
| 39904       | 40304     | 150 | 38 | 53 | 38 | Blank | 24       | 22 | 16 | 19 |
| 39955       | 40355     | 150 | 38 | 53 | 38 | M12   | 24       | 22 | 16 | 19 |
| 39956       | 40356     | 150 | 38 | 53 | 38 | M16   | 24       | 22 | 16 | 19 |
| 39907       | 40307     | 219 | 50 | 75 | 50 | Blank | 30       | 26 | 22 | 24 |
| —           | 40358     | 222 | 50 | 75 | 50 | M20   | 30       | 26 | 22 | 24 |

\*Dimension in millimeters



## Steel Solid and Revolving Balanced Crank Handle



SOLID HANDLE DOES NOT REVOLVE

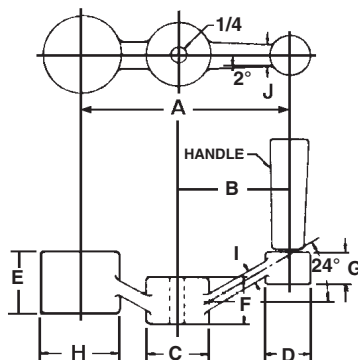
- Material: Steel
- Finish: Bright Chrome
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)
- Revolving Handle is a replacement set for Bridgeport Style Mills

| Part Number |           | A     | B     | C     | C <sup>†</sup> | Reamed | E     | Center Hole* |
|-------------|-----------|-------|-------|-------|----------------|--------|-------|--------------|
| Solid       | Revolving |       |       |       |                | D      |       | F            |
| 11401       | —         | 2     | 13/16 | 2     | —              | 5/16   | 7/16  | 1/8          |
| 11402       | 11412     | 2 1/2 | 1     | 2 1/2 | 2 3/4          | 5/16   | 9/16  | 1/8          |
| 11403       | 11413     | 3 1/8 | 1 1/4 | 3 1/4 | 3 1/2          | 3/8    | 11/16 | 5/32         |
| 11404       | 11414     | 4     | 1 1/4 | 3 1/4 | 3 1/2          | 3/8    | 11/16 | 5/32         |
| 11405       | 11415     | 5     | 1 1/2 | 4     | 4 3/16         | 1/2    | 7/8   | 3/16         |
| 11406       | —         | 6 1/8 | 1 1/2 | 4     | —              | 1/2    | 7/8   | 3/16         |

\* Center Hole is cross drilled on one side.

† Dimension for Revolving Style

## Aluminum Balanced Crank Handle



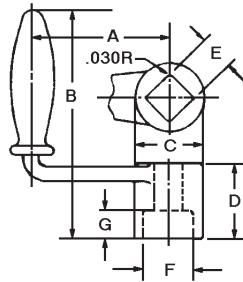
Jergens Aluminum Balanced Crank Handles are good replacements for heavier steel handles. The light-weight characteristics make table positioning easier as no fall-off occurs after position has been established. Light-weight Aluminum Balanced Crank Handles are ideal for applications such as optical jig boring equipment and inspection instruments.

- Material: 319 Aluminum Alloy
- Finish: Grey Enamel
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A       | B       | C     | D   | E      | F   | G    | H     | I    | J    | Handle | Wt. (lbs) |
|-------------|---------|---------|-------|-----|--------|-----|------|-------|------|------|--------|-----------|
| 11301       | 2 5/16  | 1 1/4   | 3/4   | 1/2 | 11/16  | 1/2 | 7/16 | 7/8   | 3/16 | 5/16 | 21902  | .14       |
| 11302       | 3 1/16  | 1 11/16 | 1     | 5/8 | 7/8    | 5/8 | 1/2  | 1 1/4 | 1/4  | 3/8  | 21903  | .30       |
| 11303       | 3 15/16 | 2 1/8   | 1 1/8 | 3/4 | 1 3/16 | 3/4 | 5/8  | 1 3/8 | 5/16 | 7/16 | 21904  | .54       |
| 11304       | 4 11/16 | 2 9/16  | 1 3/8 | 7/8 | 1 5/16 | 1   | 3/4  | 1 5/8 | 5/16 | 1/2  | 21905  | .75       |
| 11305       | 5 11/16 | 3 1/16  | 1 3/8 | 7/8 | 1 1/2  | 1   | 1    | 1 3/4 | 3/8  | 9/16 | 21905  | .90       |



## Forged Crank Handle



- Material: C-1021 Forging
- Finish: Mill
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

### Blank Crank Handles

| Part Number | A     | B       | C      | D       | Wt. (lbs) |
|-------------|-------|---------|--------|---------|-----------|
| 20501       | 2 1/2 | 3 3/4   | 1      | 1/4     | .60       |
| 20503       | 3     | 4 1/4   | 1 1/4  | 1 1/2   | .97       |
| 20504       | 3 1/2 | 4 3/16  | 1 1/16 | 1 5/16  | .90       |
| 20505       | 4     | 4 1/2   | 1 1/4  | 1 3/8   | 1.14      |
| 20506       | 5     | 4 15/16 | 1 1/4  | 1 13/16 | 1.62      |
| 20507       | 6     | 5 1/16  | 1 1/4  | 1 15/16 | 1.62      |
| 20508       | 7     | 5 7/16  | 1 3/8  | 2 1/16  | 1.95      |
| 20509       | 8     | 6 1/16  | 1 9/16 | 2 7/16  | 3.00      |
| 20510       | 9 1/8 | 6 1/4   | 1 1/2  | 2 1/2   | 3.25      |
| 20511       | 10    | 7       | 1 3/4  | 3       | 4.37      |

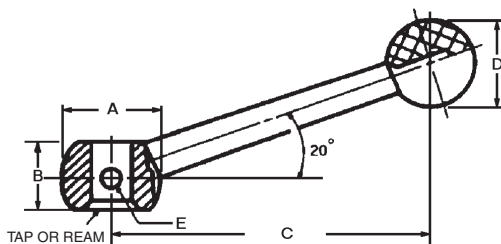
### Finished Crank Handles

| Part Number | E         | F      | G    | Wt. (lbs) |
|-------------|-----------|--------|------|-----------|
| 20301       | 1/2 Sq.   | 3/4    | 3/16 | .50       |
| 20303       | 9/16 Sq.  | 3/4    | 1/4  | .82       |
| 20304       | 1/2 Sq.   | 11/16  | 1/4  | .74       |
| 20305       | 9/16 Sq.  | 3/4    | 5/16 | .97       |
| 20306       | 5/8 Sq.   | 7/8    | 3/8  | 1.37      |
| 20307       | 11/16 Sq. | 15/16  | 3/8  | 1.25      |
| 20308       | 3/4 Sq.   | 1 1/16 | 1/2  | 1.67      |
| 20309       | 7/8 Sq.   | 1 1/4  | 1/2  | 2.44      |
| 20310       | 7/8 Sq.   | 1 1/4  | 1/2  | 2.60      |
| 20311       | 1 Sq.     | 1 3/8  | 9/16 | 3.62      |

## Steel Clamp Lever



- Material: Lever, Low Carbon Steel  
Ball, Plastic
- Finish: Lever, Satin Chrome Plate  
Ball, Black



| Part Number | Hub Style   | A      | B     | C     | D     | E    |
|-------------|-------------|--------|-------|-------|-------|------|
| 16601       | 1/4 Ream    | 5/8    | 7/16  | 2 1/4 | 3/4   | 1/8  |
| 16602       | 5/16-18 Tap | 5/8    | 7/16  | 2 1/4 | 3/4   | —    |
| 16603       | 5/16 Ream   | 25/32  | 9/16  | 2 3/4 | 13/16 | 1/8  |
| 16604       | 3/8-16 Tap  | 25/32  | 9/16  | 2 3/4 | 13/16 | —    |
| 16605       | 3/8 Ream    | 1      | 3/4   | 3 1/2 | 15/16 | 5/32 |
| 16606       | 1/2-13 Tap  | 1      | 3/4   | 3 1/2 | 15/16 | —    |
| 16607       | 1/2 Ream    | 1 1/4  | 7/8   | 4 3/8 | 1 1/4 | 3/16 |
| 16608       | 5/8-11 Tap  | 1 1/4  | 7/8   | 4 3/8 | 1 1/4 | —    |
| 16609       | 5/8 Ream    | 1 9/16 | 1 1/8 | 5 1/2 | 1 1/2 | 1/4  |
| 16610       | 3/4-10 Tap  | 1 9/16 | 1 1/8 | 5 1/2 | 1 1/2 | —    |

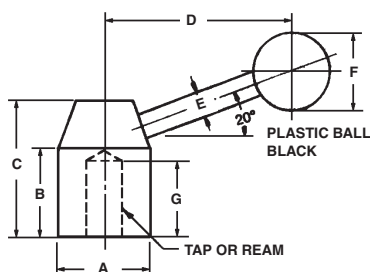


## Single Handle Locking Lever



A fast and efficient means of clamping and locking on jigs, fixtures, machine tools and special applications where high clamping force is necessary.

- Material: Low Carbon Steel
- Finish: Zinc Plate
- Thread: Class 2B-UNC
- Handles: Copper Brazed into the hubs
- Ream: + .001  
- .000
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



| Part Number | A     | B     | C       | D | E   | F     | G      | Hub Style  |
|-------------|-------|-------|---------|---|-----|-------|--------|------------|
| 28901       | 1     | 1     | 1 1/2   | 2 | 1/4 | 1     | —      | Blank      |
| 28902       | 1     | 1     | 1 1/2   | 2 | 1/4 | 1     | 11/16  | 3/8-16 Tap |
| 28903       | 1     | 1     | 1 1/2   | 2 | 1/4 | 1     | 13/16  | 3/8 Ream   |
| 28904       | 1 1/4 | 1 1/8 | 1 11/16 | 3 | 3/8 | 1     | —      | Blank      |
| 28905       | 1 1/4 | 1 1/8 | 1 11/16 | 3 | 3/8 | 1     | 3/4    | 1/2-13 Tap |
| 28906       | 1 1/4 | 1 1/8 | 1 11/16 | 3 | 3/8 | 1     | 7/8    | 1/2 Ream   |
| 28907       | 1 1/2 | 1 1/4 | 2       | 4 | 1/2 | 1 3/8 | —      | Blank      |
| 28908       | 1 1/2 | 1 1/4 | 2       | 4 | 1/2 | 1 3/8 | 15/16  | 5/8-11 Tap |
| 28909       | 1 1/2 | 1 1/4 | 2       | 4 | 1/2 | 1 3/8 | 1 1/16 | 5/8 Ream   |

### Metric

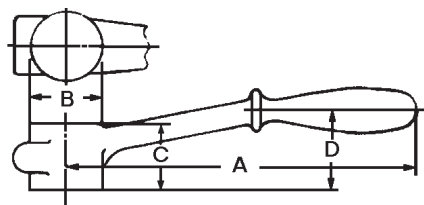
| Part Number* | A  | B  | C  | D   | E  | F  | G  | Hub Style |
|--------------|----|----|----|-----|----|----|----|-----------|
| 28901        | 25 | 25 | 38 | 50  | 6  | 25 | -  | Blank     |
| 28952        | 25 | 25 | 38 | 50  | 6  | 25 | 17 | M8 Tap    |
| 28953        | 25 | 25 | 38 | 50  | 6  | 25 | 20 | 8mm Ream  |
| 28904        | 31 | 28 | 42 | 75  | 9  | 25 | -  | Blank     |
| 28955        | 31 | 28 | 42 | 75  | 9  | 25 | 19 | M12 Tap   |
| 28956        | 31 | 28 | 42 | 75  | 9  | 25 | 22 | 12mm Ream |
| 28907        | 38 | 31 | 50 | 100 | 13 | 34 | -  | Blank     |
| 28958        | 38 | 31 | 50 | 100 | 13 | 34 | 23 | M16 Tap   |
| 28959        | 38 | 31 | 50 | 100 | 13 | 34 | 27 | 16mm Ream |

\*Dimensions in millimeters

## Aluminum & Malleable Offset Handle



- Material: 319 Aluminum Alloy  
Malleable ASTM A47, GR32510
- Finish: Mill
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Aluminum

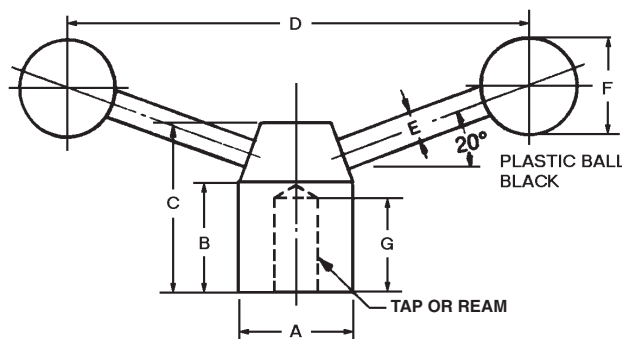
| Part Number | A     | B     | C     | D       | Wt. (lbs) |
|-------------|-------|-------|-------|---------|-----------|
| 29901       | 4 1/2 | 1     | 3/4   | 1       | .15       |
| 29902       | 6     | 1 1/2 | 1 1/4 | 1 3/4   | .44       |
| 29903       | 11    | 1 5/8 | 1 3/8 | 1 15/16 | .78       |

### Malleable

| Part Number | Wt. (lbs) |
|-------------|-----------|
| 30101       | .45       |
| 30102       | 1.24      |
| 30103       | 2.25      |



## Double Handle Locking Lever



- Material: Low Carbon Steel
- Finish: Zinc Plate
- Thread: Class 2B-UNC or Class 6h
- Handles: Copper brazed into the hubs
- Ream: + .001  
- .000
- Metric Ream:  
+ .025  
- .000
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

Locking levers with double handles are used where it is advantageous to clamp and lock quickly with high clamping force.

| Part Number | A     | B     | C       | D | E   | F     | G      | Hub Style  |
|-------------|-------|-------|---------|---|-----|-------|--------|------------|
| 28910       | 1     | 1     | 1 1/2   | 4 | 1/4 | 1     | —      | Blank      |
| 28911       | 1     | 1     | 1 1/2   | 4 | 1/4 | 1     | 11/16  | 3/8-16 Tap |
| 28912       | 1 1/4 | 1 1/8 | 1 11/16 | 6 | 3/8 | 1     | —      | Blank      |
| 28913       | 1 1/4 | 1 1/8 | 1 11/16 | 6 | 3/8 | 1     | 3/4    | 1/2-13 Tap |
| 28914       | 1 1/2 | 1 1/4 | 2       | 8 | 1/2 | 1 3/8 | —      | Blank      |
| 28915       | 1 1/2 | 1 1/4 | 2       | 8 | 1/2 | 1 3/8 | 15/16  | 5/8-11 Tap |
| 28916       | 1 1/2 | 1 1/4 | 2       | 8 | 1/2 | 1 3/8 | 1 1/16 | 5/8 Ream   |

### Metric

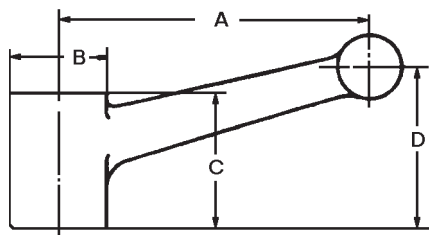
| Part Number* | A  | B  | C  | D   | E  | F  | G  | Hub Style |
|--------------|----|----|----|-----|----|----|----|-----------|
| 28910        | 25 | 25 | 38 | 100 | 6  | 25 | —  | Blank     |
| 28961        | 25 | 25 | 38 | 100 | 6  | 25 | 17 | M8 Tap    |
| 28912        | 31 | 28 | 42 | 150 | 9  | 25 | —  | Blank     |
| 28963        | 31 | 28 | 42 | 150 | 9  | 25 | 19 | M12 Tap   |
| 28914        | 38 | 31 | 50 | 200 | 13 | 34 | —  | Blank     |
| 28965        | 38 | 31 | 50 | 200 | 13 | 34 | 23 | M16 Tap   |
| 28966        | 38 | 31 | 50 | 200 | 13 | 34 | 27 | 16mm Ream |

\*Dimensions in millimeters

## Aluminum & Malleable Clamping Levers



- Material: 319 Aluminum Alloy  
Malleable ASTM A47, GR32510
- Finish: Mill
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Aluminum

| Part Number | A      | B     | C     | D       | Wt. (lbs) |
|-------------|--------|-------|-------|---------|-----------|
| 16501       | 2      | 1     | 1     | 1 1/8   | .10       |
| 16502       | 4      | 1 1/2 | 2     | 2 1/8   | .53       |
| 16503       | 5 9/64 | 2     | 2 3/8 | 2 53/64 | 1.00      |

### Malleable

| Number | Wt. (lbs) |
|--------|-----------|
| 16701  | .30       |
| 16702  | 1.50      |
| 16703  | 2.80      |



## Metal Adjustable Handles



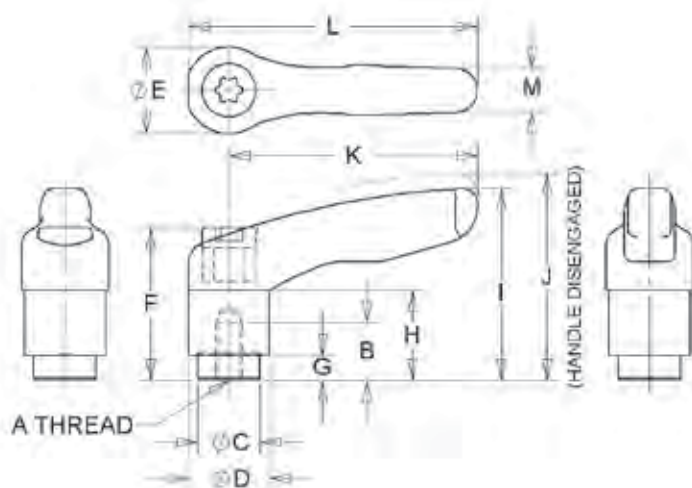
For adjustable clamping or tightening controls for limited operating angles. Adjustment of handle position occurs by pulling up on the handle, which disengages the teeth from the locking mechanism, and turning to the desired position. Releasing the handle allows for tightening or loosening.

### Tapped Holes:

- Material: Handle, Die Cast Zinc
- Finish: Handle, Plastic Coated  
Steel Parts, Black Oxide
- Color: Black Satin Finish

### Stainless Steel Tapped Holes:

- Material: Handle, Die Cast Zinc Steel Parts, 303 Stainless Steel
- Finish: Handle, Plastic Coated Steel Parts, Bright
- Color: Black Satin Finish



### With Tapped Holes

| Tapped Part Number | Stainless Tapped Part Number | A       | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    |
|--------------------|------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 40501              | -                            | 8-32    | 0.35 | 0.39 | 0.51 | 0.57 | 0.94 | 0.16 | 0.59 | 1.16 | 1.31 | 1.57 | 1.85 | 0.29 |
| -                  | 40602                        | 10-24   | 0.35 | 0.39 | 0.51 | 0.57 | 0.94 | 0.15 | 0.59 | 1.16 | 1.31 | 1.57 | 1.85 | 0.29 |
| 40502              | -                            | 10-24   | 0.35 | 0.39 | 0.51 | 0.57 | 0.94 | 0.16 | 0.59 | 1.16 | 1.31 | 1.57 | 1.85 | 0.29 |
| -                  | 40603                        | 1/4-20  | 0.35 | 0.39 | 0.51 | 0.57 | 0.94 | 0.15 | 0.59 | 1.16 | 1.31 | 1.57 | 1.85 | 0.29 |
| 40503              | -                            | 1/4-20  | 0.35 | 0.39 | 0.51 | 0.57 | 0.94 | 0.16 | 0.59 | 1.16 | 1.31 | 1.57 | 1.85 | 0.29 |
| 40504              | 40604                        | 1/4-20  | 0.47 | 0.53 | 0.70 | 0.76 | 1.14 | 0.25 | 0.68 | 1.61 | 1.77 | 2.55 | 2.95 | 0.37 |
| 40505              | 40605                        | 5/16-18 | 0.47 | 0.53 | 0.70 | 0.76 | 1.14 | 0.25 | 0.68 | 1.61 | 1.77 | 2.55 | 2.95 | 0.37 |
| -                  | 40606                        | 5/16-18 | 0.55 | 0.62 | 0.84 | 0.90 | 1.47 | 0.39 | 0.94 | 2.08 | 2.24 | 3.14 | 3.60 | 0.45 |
| 40506              | -                            | 5/16-18 | 0.55 | 0.70 | 0.84 | 0.90 | 1.47 | 0.39 | 0.94 | 2.08 | 2.24 | 3.14 | 3.60 | 0.43 |
| -                  | 40607                        | 3/8-16  | 0.55 | 0.62 | 0.84 | 0.90 | 1.47 | 0.39 | 0.94 | 2.08 | 2.24 | 3.14 | 3.60 | 0.45 |
| 40507              | -                            | 3/8-16  | 0.55 | 0.70 | 0.84 | 0.90 | 1.47 | 0.39 | 0.94 | 2.08 | 2.24 | 3.74 | 3.60 | 0.43 |
| -                  | 40608                        | 3/8-16  | 0.66 | 0.74 | 1.00 | 1.08 | 1.67 | 0.39 | 1.06 | 2.40 | 2.55 | 3.74 | 4.28 | 0.53 |
| 40508              | -                            | 3/8-16  | 0.66 | 0.70 | 1.00 | 1.08 | 1.67 | 0.39 | 1.06 | 2.40 | 2.55 | 3.74 | 4.25 | 0.51 |
| -                  | 40609                        | 1/2-13  | 0.66 | 0.74 | 1.00 | 1.08 | 1.67 | 0.39 | 1.06 | 2.40 | 2.55 | 3.74 | 4.28 | 0.53 |
| 40509              | -                            | 1/2-13  | 0.66 | 0.70 | 1.00 | 1.08 | 1.67 | 0.39 | 1.06 | 2.40 | 2.55 | 3.74 | 4.25 | 0.51 |
| 40510              | 40610                        | 1/2-13  | 0.90 | 0.90 | 1.18 | 1.27 | 2.00 | 0.47 | 1.29 | 2.85 | 3.05 | 4.32 | 4.97 | 0.61 |
| 40511              | 40611                        | 5/8-11  | 0.90 | 0.90 | 1.18 | 1.27 | 2.00 | 0.47 | 1.29 | 2.85 | 3.05 | 4.32 | 4.97 | 0.61 |

**Jergens offers 3D models**

**for all handles, knobs and handwheels  
at [www.jergensinc.com](http://www.jergensinc.com)**



Technical drawing of a handle with dimensions and labels:

- Top View:** Shows a circular head with diameter  $\phi E$  and a central hole with diameter  $\phi F$ . The handle has a length  $L$  and a diameter  $M$ .
- Side View:** Shows the handle's profile with a curved end. The total height is  $H$ , the height of the head is  $F$ , and the height of the handle is  $N$ . The handle has a diameter  $\phi C$  and a central hole with diameter  $\phi D$ . The handle is labeled "HANDLE DISINTEGRATED".
- Bottom View:** Shows the handle's base with a diameter  $\phi D$  and a central hole with diameter  $\phi D$ . The handle is labeled "A THREAD".

- | Part Number | Thread Size A | Thread Length N | C   | D    | E    | F    | G   | H    | I    | J    | L    | M   |
|-------------|---------------|-----------------|-----|------|------|------|-----|------|------|------|------|-----|
| 40521       | 10-24         | .59             | .39 | .51  | .57  | .94  | .16 | .59  | 1.16 | 1.31 | 1.85 | .29 |
| 40522       | 10-24         | .98             | .39 | .51  | .57  | .94  | .16 | .59  | 1.16 | 1.31 | 1.85 | .29 |
| 40523       | 1/4-20        | .78             | .39 | .51  | .57  | .94  | .16 | .59  | 1.16 | 1.31 | 1.85 | .29 |
| 40524       | 1/4-20        | .98             | .39 | .51  | .57  | .94  | .16 | .59  | 1.16 | 1.31 | 1.85 | .29 |
| 40525       | 1/4-20        | 1.57            | .39 | .51  | .57  | .94  | .16 | .59  | 1.16 | 1.31 | 1.85 | .29 |
| 40526       | 1/4-20        | .78             | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.95 | .37 |
| 40527       | 1/4-20        | .98             | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.95 | .37 |
| 40528       | 1/4-20        | 1.57            | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.95 | .37 |
| 40529       | 5/16-18       | .78             | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.95 | .37 |
| 40530       | 5/16-18       | .98             | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.95 | .37 |
| 40531       | 5/16-18       | 1.57            | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.95 | .37 |
| 40532       | 3/8-16        | .98             | .70 | .84  | .90  | 1.47 | .39 | .94  | 2.08 | 2.24 | 3.60 | .43 |
| 40533       | 3/8-16        | 1.57            | .70 | .84  | .90  | 1.47 | .39 | .94  | 2.08 | 2.24 | 3.60 | .43 |
| 40534       | 3/8-16        | 1.96            | .70 | .84  | .90  | 1.47 | .39 | .94  | 2.08 | 2.24 | 3.60 | .43 |
| 40535       | 3/8-16        | .98             | .70 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 4.25 | .51 |
| 40536       | 3/8-16        | 1.57            | .70 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 4.25 | .51 |
| 40537       | 3/8-16        | 1.96            | .70 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 4.25 | .51 |
| 40538       | 1/2-13        | .98             | .70 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 4.25 | .51 |
| 40539       | 1/2-13        | 1.57            | .70 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 4.25 | .51 |
| 40540       | 1/2-13        | 1.96            | .70 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 4.25 | .51 |
| 40541       | 1/2-13        | .98             | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.97 | .61 |
| 40542       | 1/2-13        | 1.57            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.97 | .61 |
| 40543       | 1/2-13        | 1.96            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.97 | .61 |
| 40544       | 5/8-11        | 1.37            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.97 | .61 |
| 40545       | 5/8-11        | 1.77            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.97 | .61 |
| 40546       | 5/8-11        | 2.16            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.97 | .61 |
| 34360       | M5            | 25              | 10  | 13   | 14   | 24.5 | 4   | 14.5 | 30   | 33   | 37   | 7   |
| 34361       | M5            | 35              | 10  | 13   | 14   | 24.5 | 4   | 14.5 | 30   | 33   | 37   | 7   |

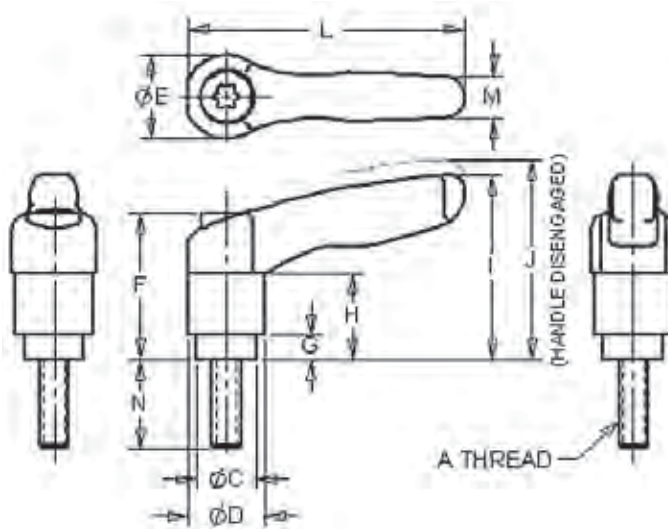


## Metal Adjustable Handles



- Handle: Zinc Die Cast,  
Powder Coated, Satin Black
- Bolts & Internal Parts:  
Steel Black Oxide Finish;  
303 Stainless Steel

For adjustable clamping or tightening controls for limited operating angles. Adjustment of handle position occurs by pulling up on the handle, which disengages the teeth from the locking mechanism, and turning to the desired position. Releasing the handle allows for tightening or loosening.

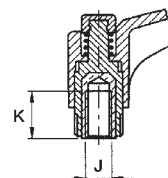
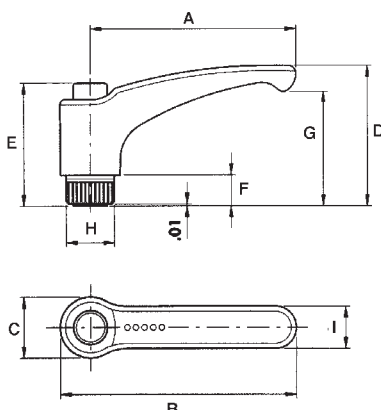


### With Stainless Steel Stud

| Part Number | Thread Size A | Thread Length N | C   | D    | E    | F    | G   | H    | I    | J    | K    | L    | M   |
|-------------|---------------|-----------------|-----|------|------|------|-----|------|------|------|------|------|-----|
| 40621       | 10-24         | .59             | .39 | .51  | .57  | .94  | .15 | .59  | 1.16 | 1.31 | 1.57 | 1.85 | .29 |
| 40623       | 1/4-20        | .78             | .39 | .51  | .57  | .94  | .15 | .59  | 1.16 | 1.31 | 1.57 | 1.85 | .29 |
| 40625       | 1/4-20        | 1.57            | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.55 | 2.95 | .37 |
| 40630       | 5/16-18       | .78             | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.55 | 2.95 | .37 |
| 40631       | 5/16-18       | 1.57            | .53 | .70  | .76  | 1.14 | .25 | .68  | 1.61 | 1.77 | 2.55 | 2.95 | .37 |
| 40632       | 3/8-16        | .98             | .62 | .84  | .90  | 1.47 | .39 | .94  | 2.08 | 2.24 | 3.14 | 3.60 | .45 |
| 40634       | 3/8-16        | 1.96            | .62 | .84  | .90  | 1.47 | .39 | .94  | 2.08 | 2.24 | 3.14 | 3.60 | .45 |
| 40641       | 1/2-13        | .98             | .74 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 3.74 | 4.28 | .53 |
| 40643       | 1/2-13        | 1.96            | .74 | 1.00 | 1.08 | 1.67 | .39 | 1.06 | 2.40 | 2.55 | 3.74 | 4.28 | .53 |
| 40644       | 5/8-11        | 1.57            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.32 | 4.97 | .61 |
| 40646       | 5/8-11        | 2.36            | .90 | 1.18 | 1.27 | 2.00 | .47 | 1.29 | 2.85 | 3.05 | 4.32 | 4.97 | .61 |



## Adjustable Handle ELESA Original Design



- Material: Glass Fibre Reinforced Technopolymer
- Finish: Body - Gray/Black Matte  
Push Button - Orange
- Insert: Brass With Tapped Blind Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional button colors available upon request (Black, Grey, Yellow, Blue & Red)

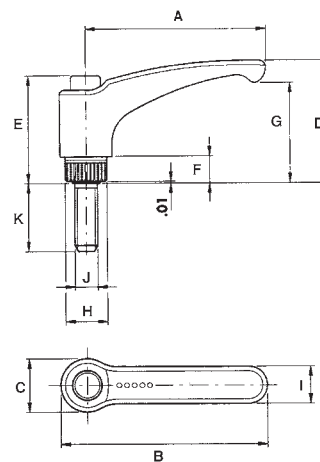
### With Brass Insert

| Brass Insert | Stainless Insert | A    | B    | C    | D    | E    | F   | G    | H   | I   | J       | K   |
|--------------|------------------|------|------|------|------|------|-----|------|-----|-----|---------|-----|
| 34401        | —                | 1.73 | 2.05 | .61  | 1.28 | 1.16 | .24 | .98  | .47 | .43 | 10-24   | .39 |
| 34402        | 34412            | 1.73 | 2.05 | .61  | 1.28 | 1.16 | .24 | .98  | .47 | .43 | 1/4-20  | .39 |
| 34403        | —                | 2.48 | 2.89 | .75  | 1.69 | 1.48 | .31 | 1.36 | .59 | .53 | 1/4-20  | .47 |
| 34404        | 34414            | 2.48 | 2.89 | .75  | 1.69 | 1.48 | .31 | 1.36 | .59 | .53 | 5/16-18 | .51 |
| 34406        | —                | 3.07 | 3.56 | .91  | 2.13 | 1.85 | .47 | 1.73 | .75 | .63 | 3/8-16  | .67 |
| 34407        | 34416            | 3.07 | 3.56 | .91  | 2.13 | 1.85 | .47 | 1.73 | .75 | .63 | 1/2-13  | .67 |
| 34408        | —                | 3.74 | 4.29 | 1.04 | 2.54 | 2.15 | .51 | 2.09 | .85 | .71 | 3/8-16  | .79 |
| 34409        | —                | 3.74 | 4.29 | 1.04 | 2.54 | 2.15 | .51 | 2.09 | .85 | .71 | 1/2-13  | .79 |

## Adjustable Handle With Stud ELESA Original Design



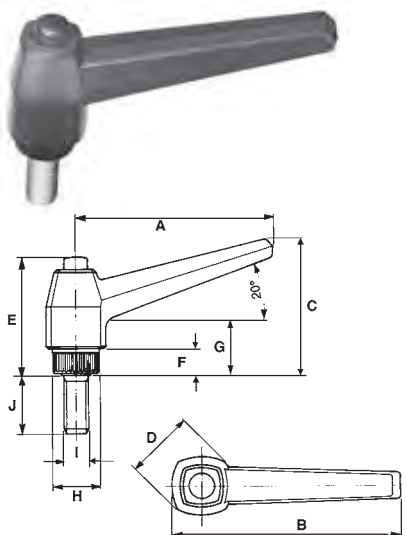
- Material: Glass Fibre Reinforced Technopolymer
- Finish: Body - Gray/Black Matte  
Push Button - Orange
- Stud: Zinc Plated Steel With Chamfered End.
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional button colors available upon request (Black, Grey, Yellow, Blue & Red)



| Part Number | A    | B    | C   | D    | E    | F   | G    | H   | I   | J       | K   |
|-------------|------|------|-----|------|------|-----|------|-----|-----|---------|-----|
| 34421       | 1.73 | 2.05 | .61 | 1.28 | 1.16 | .24 | .98  | .47 | .43 | 10-24   | .75 |
| 34422       | 1.73 | 2.05 | .61 | 1.28 | 1.16 | .24 | .98  | .47 | .43 | 1/4-20  | .75 |
| 34423       | 1.73 | 2.05 | .61 | 1.28 | 1.16 | .24 | .98  | .47 | .43 | 1/4-20  | 1   |
| 34424       | 2.48 | 2.89 | .75 | 1.69 | 1.48 | .31 | 1.36 | .59 | .53 | 5/16-18 | .75 |
| 34425       | 2.48 | 2.89 | .75 | 1.69 | 1.48 | .31 | 1.36 | .59 | .53 | 5/16-18 | 1   |
| 34426       | 2.48 | 2.89 | .75 | 1.69 | 1.48 | .31 | 1.36 | .59 | .53 | 5/16-18 | 1.2 |
| 34427       | 3.07 | 3.56 | .91 | 2.13 | 1.85 | .47 | 1.73 | .75 | .63 | 3/8-16  | 1   |
| 34428       | 3.07 | 3.56 | .91 | 2.13 | 1.85 | .47 | 1.73 | .75 | .63 | 3/8-16  | 1.2 |
| 34429       | 3.07 | 3.56 | .91 | 2.13 | 1.85 | .47 | 1.73 | .75 | .63 | 3/8-16  | 1.5 |



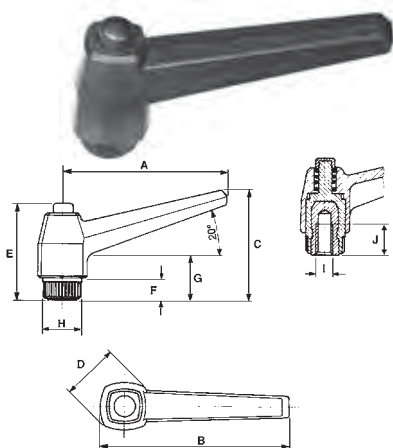
## Plastic Button Head Adjustable Handle With Stud ELESA Original Design



- Material: Glass-Fibre Reinforced Technopolymer Lever Body
- Finish: Black Matte
- Available with a Zinc Plated Steel Stud with a chamfered flat end or with a Brass Insert with a tapped blind hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Available In Ergostyle®. See Ergostyle Section.
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A    | B    | C    | D    | E    | F    | G    | H    | I       | J     |
|-------------|------|------|------|------|------|------|------|------|---------|-------|
| 34311       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 10-24   | 0.750 |
| 34312       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 1/4-20  | 0.500 |
| 34313       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 1/4-20  | 0.750 |
| 34314       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 1/4-20  | 1.00  |
| 34315       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 1/4-20  | 1.50  |
| 34321       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 1/4-20  | 0.750 |
| 34322       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 1/4-20  | 1.00  |
| 34323       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 1/4-20  | 1.50  |
| 34324       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 0.500 |
| 34325       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 0.750 |
| 34326       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 1.00  |
| 34327       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 1.25  |
| 34328       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 1.50  |
| 34329       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 2.00  |
| 34331       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 3/8-16  | 0.750 |
| 34332       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 3/8-16  | 1.00  |
| 34333       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 3/8-16  | 1.25  |
| 34334       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 3/8-16  | 1.50  |
| 34335       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 3/8-16  | 2.00  |
| 34337       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 1/2-13  | 1.25  |
| 34338       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 1/2-13  | 1.50  |
| 34339       | 3.15 | 3.63 | 2.13 | 1.10 | 1.85 | 0.39 | 0.86 | 0.75 | 1/2-13  | 2.00  |
| 34341       | 3.94 | 4.50 | 2.55 | 1.30 | 2.12 | 0.47 | 0.98 | 0.98 | 1/2-13  | 1.25  |
| 34342       | 3.94 | 4.50 | 2.55 | 1.30 | 2.12 | 0.47 | 0.98 | 0.98 | 1/2-13  | 1.50  |
| 34343       | 3.94 | 4.50 | 2.55 | 1.30 | 2.12 | 0.47 | 0.98 | 0.98 | 1/2-13  | 2.00  |

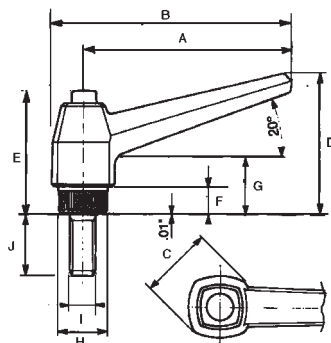
## Plastic Button Head Tapped Adjustable Handle



| Part Number | A    | B    | C    | D    | E    | F    | G    | H    | I       | J    |
|-------------|------|------|------|------|------|------|------|------|---------|------|
| 34301       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 10-24   | 0.39 |
| 34302       | 1.65 | 1.96 | 1.25 | 0.70 | 1.14 | 0.23 | 0.55 | 0.47 | 1/4-20  | 0.39 |
| 34303       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 1/4-20  | 0.47 |
| 34304       | 2.48 | 2.87 | 1.69 | 0.90 | 1.45 | 0.31 | 0.66 | 0.60 | 5/16-18 | 0.51 |
| 34305       | 3.15 | 3.62 | 2.12 | 1.10 | 1.85 | 0.39 | 0.86 | 0.74 | 5/16-18 | 0.71 |
| 34306       | 3.15 | 3.62 | 2.12 | 1.10 | 1.85 | 0.39 | 0.86 | 0.74 | 3/8-16  | 0.67 |
| 34307       | 3.15 | 3.62 | 2.12 | 1.10 | 1.85 | 0.39 | 0.86 | 0.74 | 1/2-13  | 0.67 |
| 34308       | 3.94 | 4.48 | 2.55 | 1.30 | 2.12 | 0.47 | 0.98 | 0.98 | 3/8-16  | 0.79 |
| 34309       | 3.94 | 4.48 | 2.55 | 1.30 | 2.12 | 0.47 | 0.98 | 0.98 | 1/2-13  | 0.79 |



## Plastic Adjustable Handle With Stainless Steel Stud ELESA Original Design



- Material: Lever Body, Glass-Fibre Reinforced Technopolymer
- Finish: Lever Body, Black Matte
- Stainless Steel Stud with chamfered flat end
- Retaining Pin, Glass-Fibre Reinforced Technopolymer integrally molded with the Locking Element
- Push Button, Black Matte Technopolymer
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C    | D    | E    | F    | G    | H    | I       | J     |
|-------------|------|------|------|------|------|------|------|------|---------|-------|
| 34145       | 2.48 | 2.87 | 0.91 | 1.69 | 1.46 | 0.31 | 0.67 | 0.59 | 5/16-18 | 0.750 |
| 34146       | 2.48 | 2.87 | 0.91 | 1.69 | 1.46 | 0.31 | 0.67 | 0.59 | 5/16-18 | 1.000 |
| 34147       | 2.48 | 2.87 | 0.91 | 1.69 | 1.46 | 0.31 | 0.67 | 0.59 | 5/16-18 | 1.250 |

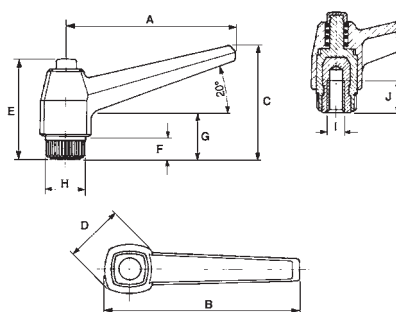
### Metric

| Part Number* | A  | B  | C  | D  | E  | F  | G  | H  | I   | J  |
|--------------|----|----|----|----|----|----|----|----|-----|----|
| 34156        | 42 | 50 | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 16 |
| 34157        | 63 | 73 | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 20 |
| 34158        | 80 | 92 | 51 | 28 | 47 | 10 | 22 | 19 | M10 | 20 |
| 34159        | 80 | 92 | 54 | 28 | 47 | 10 | 22 | 19 | M12 | 30 |

\*Dimensions in millimeters

## Plastic Button Head Adjustable Tapped Handle With Stainless Steel Insert

Metric  
ELESA Original Design



- Material: Glass-Fibre Reinforced Technopolymer Lever Body
- Finish: Black Matte
- Locking Element: Black, Glass-Fibre Reinforced Technopolymer
- Insert: 303 Stainless Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number* | A  | B  | C  | D  | E  | F  | G  | H  | I   | J  |
|--------------|----|----|----|----|----|----|----|----|-----|----|
| 34151        | 42 | 50 | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 10 |
| 34152        | 63 | 73 | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 13 |
| 34153        | 80 | 92 | 54 | 28 | 47 | 10 | 22 | 19 | M10 | 17 |

\*Dimensions in millimeters



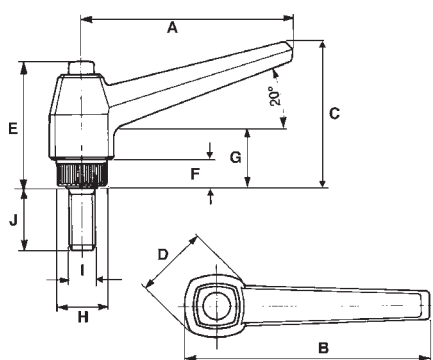
## Plastic Button Head Adjustable Handle With Stud

### Metric ELESA Original Design



For adjustable clamping or tightening controls when the operating angle is limited. To adjust during the locking operation, lift the lever in order to disengage the teeth from the locking element and change lever position. The return spring automatically engages the teeth again.

- Material: Glass-Fibre Reinforced Technopolymer Lever Body
- Finish: Black Matte
- Locking Element: Black, Glass-Fibre Reinforced Technopolymer
- Stud: Zinc Plated Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number* | A   | B   | C  | D  | E  | F  | G  | H  | I   | J  |
|--------------|-----|-----|----|----|----|----|----|----|-----|----|
| 34362        | 42  | 50  | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 16 |
| 34363        | 42  | 50  | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 20 |
| 34364        | 42  | 50  | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 30 |
| 34365        | 42  | 50  | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 40 |
| 34374        | 63  | 73  | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 16 |
| 34375        | 63  | 73  | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 20 |
| 34377        | 63  | 73  | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 30 |
| 34378        | 63  | 73  | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 40 |
| 34379        | 63  | 73  | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 50 |
| 34381        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M10 | 20 |
| 34383        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M10 | 30 |
| 34385        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M10 | 50 |
| 34387        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M12 | 30 |
| 34388        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M12 | 40 |
| 34391        | 100 | 114 | 65 | 33 | 54 | 12 | 25 | 25 | M12 | 30 |
| 34393        | 100 | 114 | 65 | 33 | 54 | 12 | 25 | 25 | M12 | 50 |

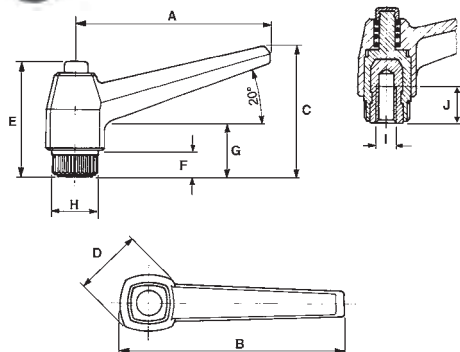
\*Dimensions in millimeters

## Plastic Button Head Tapped Adjustable Handle

### Metric ELESA Original Design



- Material: Glass-Fibre Reinforced Technopolymer Lever Body
- Finish: Black Matte
- Locking Element: Black, Glass-Fibre Reinforced Technopolymer
- Insert: Brass
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number* | A   | B   | C  | D  | E  | F  | G  | H  | I   | J  |
|--------------|-----|-----|----|----|----|----|----|----|-----|----|
| 34352        | 42  | 50  | 32 | 18 | 29 | 6  | 14 | 12 | M6  | 10 |
| 34354        | 63  | 73  | 43 | 23 | 37 | 8  | 17 | 15 | M8  | 13 |
| 34355        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M8  | 20 |
| 34356        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M10 | 18 |
| 34357        | 80  | 92  | 54 | 28 | 47 | 10 | 22 | 19 | M12 | 17 |
| 34359        | 100 | 114 | 65 | 33 | 54 | 12 | 25 | 25 | M12 | 20 |

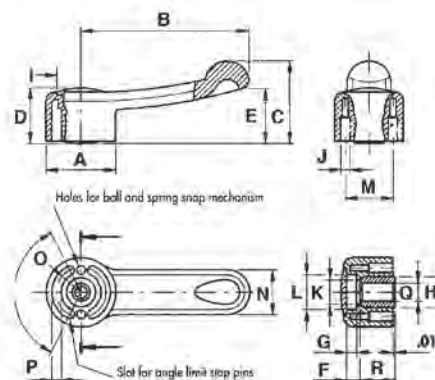
\*Dimensions in millimeters



## Control Lever ELESA Original Design

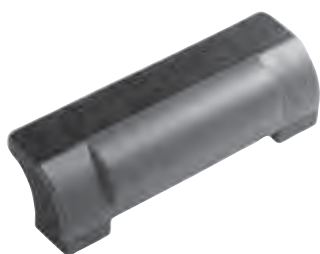


- Material: Glass Fibre Reinforced Technopolymer
- Finish: Gray/Black Matte
- Removable Boss Caps
- Adaptable For Click Positioning Applications
- Slot Provided For Angle Limit Stop Pins
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional cap colors available upon request (Black, Grey, Yellow, Blue & Red)



| Part Number | A    | B    | C    | D    | E    | F   | G   | H   | I    | J   | K   | L    | M    | N    | O   | P   | Q    | R   |
|-------------|------|------|------|------|------|-----|-----|-----|------|-----|-----|------|------|------|-----|-----|------|-----|
| 34460       | 1.46 | 3.35 | 1.56 | 1.04 | 1.02 | .30 | .20 | .71 | 1.02 | .20 | .53 | .79  | 1.02 | .91  | .54 | .17 | .315 | .69 |
| 34461       | 1.81 | 4.33 | 2.13 | 1.38 | 1.42 | .39 | .31 | .87 | 1.24 | .24 | .67 | 1.00 | 1.26 | 1.14 | .69 | .26 | .472 | .87 |

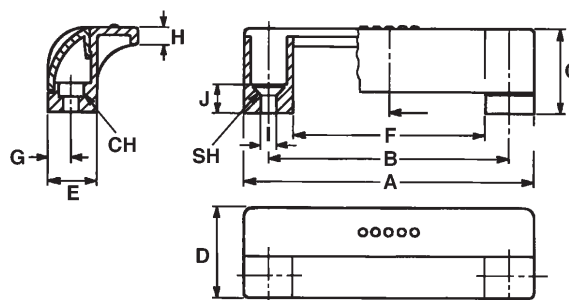
## Machine Guard Handles ELESA Original Design



Closed Style



Open Style



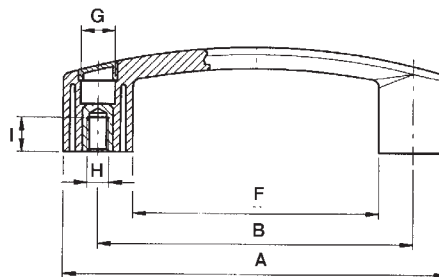
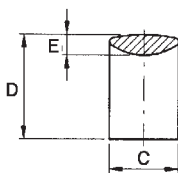
- Material: Glass-Fibre Reinforced Technopolymer
- Finish: Gray/Black Matte
- Handle Shank, Matte Reinforced Polyamide Technopolymer
- Safety Cover Caps, Technopolymer Orange
- Cylindrical Socket Head (CH) or Countersunk Head (SH) Self-Tapping Screws (use 1/4-20 screws)
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional cap colors available upon request (Black, Grey, Yellow, Blue & Red)

| Part Number | Mounting Style | A    | B    | C    | D    | E   | F    | G   | H   | I   | J   |
|-------------|----------------|------|------|------|------|-----|------|-----|-----|-----|-----|
| 34240       | CH             | 4.49 | 3.68 | 1.30 | 1.38 | .75 | 2.91 | .37 | .28 | .26 | .43 |
| 34241       | SH             | 4.49 | 3.68 | 1.30 | 1.38 | .75 | 2.91 | .37 | .28 | .26 | .43 |
| 34242*      | CH             | 4.49 | 3.68 | 1.30 | 1.38 | .75 | 2.91 | .37 | .28 | .26 | .43 |
| 34243*      | SH             | 4.49 | 3.68 | 1.30 | 1.38 | .75 | 2.91 | .37 | .28 | .26 | .43 |

\* Open Style



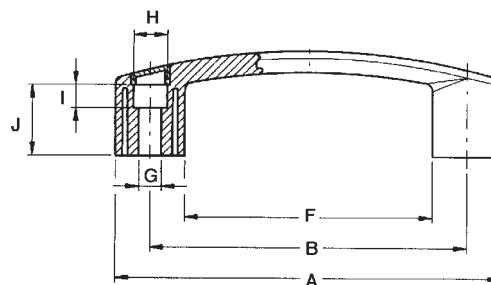
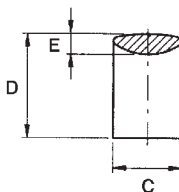
## Back Mounted Bridge Handle ELESA Original Design



- Material: Glass Fibre Reinforced Technopolymer
- Finish: Gray/Black Matte
- Inserts: Tapped with Blind Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional cap colors available upon request (Black, Grey, Yellow, Orange, Blue & Red)

| Part Number  | A    | B    | C    | D    | E    | F    | G    | H       | I    |
|--------------|------|------|------|------|------|------|------|---------|------|
| <b>33875</b> | 4.57 | 3.68 | 0.87 | 1.38 | 0.29 | 2.83 | 0.51 | 1/4-20  | 0.47 |
| <b>34469</b> | 5.67 | 4.61 | 1.02 | 1.54 | 0.33 | 3.62 | 0.53 | 5/16-18 | 0.51 |
| <b>33876</b> | 7.01 | 5.91 | 1.10 | 1.77 | 0.37 | 4.80 | 0.53 | 5/16-18 | 0.51 |

## Front Mounted Bridge Handle ELESA Original Design



- Material: Glass Fibre Reinforced Technopolymer
- Finish: Gray/Black Matte
- Mounted by Two Through Holes in Front
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional cap colors available upon request (Black, Grey, Yellow, Orange, Blue & Red)

| Part Number  | A    | B    | C    | D    | E    | F    | G    | H    | I    | J    |
|--------------|------|------|------|------|------|------|------|------|------|------|
| <b>34467</b> | 4.57 | 3.68 | 0.87 | 1.38 | 0.29 | 2.83 | 0.25 | 0.41 | 0.25 | 0.92 |
| <b>34468</b> | 5.67 | 4.61 | 1.02 | 1.54 | 0.31 | 3.62 | 0.33 | 0.53 | 0.33 | 1.04 |
| <b>34479</b> | 7.01 | 5.91 | 1.10 | 1.77 | 0.37 | 4.8  | 0.33 | 0.53 | 0.55 | 1.26 |



## Plastic Handle ELESA Original Design



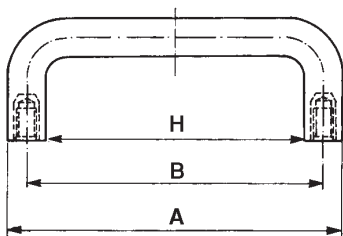
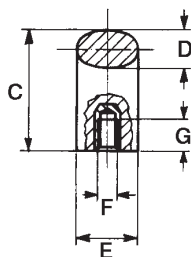
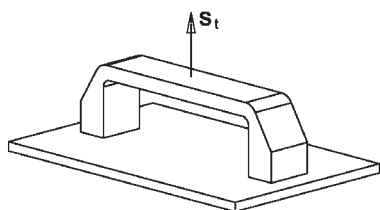
- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Insert: Brass With Tapped Blind Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C    | D    | E    | F       | G    | St lbs |
|-------------|------|------|------|------|------|---------|------|--------|
| 33791       | 3.94 | 3.39 | 1.73 | 0.55 | 0.91 | 1/4-20  | 0.47 | 538    |
| 33792       | 5.28 | 4.61 | 1.93 | 0.59 | 0.98 | 5/16-18 | 0.51 | 594    |
| 33793       | 7.72 | 7.05 | 2.24 | 0.63 | 1.06 | 5/16-18 | 0.51 | 450    |

### Metric

| Part Number* | A   | B   | C  | D  | E  | F  | G  | H   | St N |
|--------------|-----|-----|----|----|----|----|----|-----|------|
| 33706        | 100 | 86  | 44 | 14 | 23 | M6 | 12 | 73  | 2400 |
| 33705        | 134 | 117 | 49 | 15 | 25 | M8 | 13 | 103 | 2650 |
| 33707        | 196 | 179 | 57 | 16 | 27 | M8 | 13 | 105 | 2000 |

\*Dimensions in millimeters



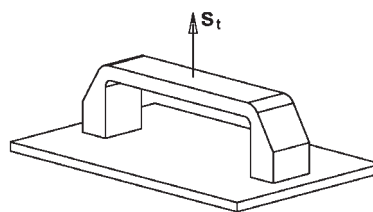
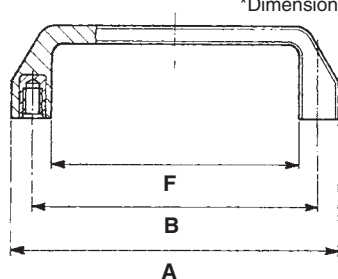
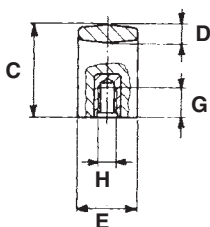
## Plastic Handle Metric ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Insert: Brass With Tapped Blind Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

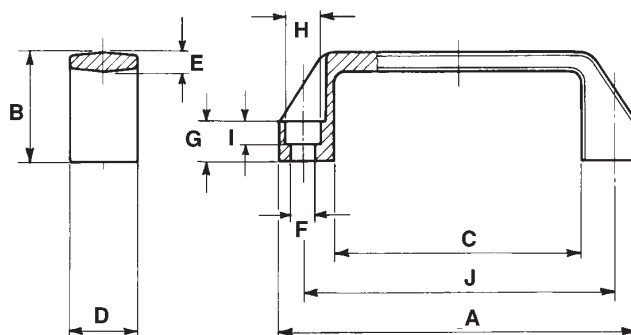
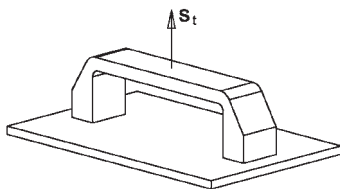
| Part Number* | A   | B   | C  | D   | E  | F   | G  | H  | St N |
|--------------|-----|-----|----|-----|----|-----|----|----|------|
| 33708        | 134 | 117 | 38 | 7.5 | 25 | 102 | 12 | M6 | 2000 |
| 33709        | 134 | 117 | 38 | 7.5 | 25 | 102 | 12 | M8 | 2000 |

\*Dimensions in millimeters





## Plastic Pull/Lift Handle ELESA Original Design

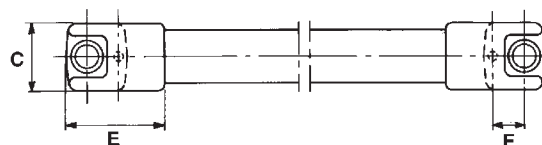
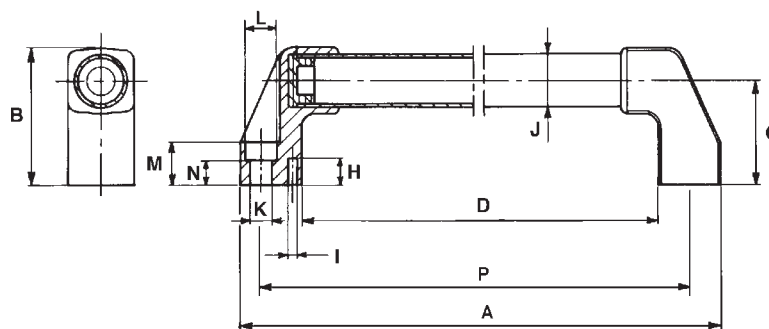


- Material: Glass-Fibre Reinforced Polyamide Technopolymer
- Finish: Black Matte
- Maximum Working Temp. 210°F
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A     | B    | C    | D    | E    | F    | G    | H    | I    | J    | St* |
|-------------|-------|------|------|------|------|------|------|------|------|------|-----|
| 33701       | 4.21  | 1.42 | 2.91 | 0.83 | 0.24 | 0.26 | 0.51 | 0.41 | 0.28 | 3.68 | 560 |
| 33702       | 5.28  | 1.61 | 3.74 | 1.02 | 0.28 | 0.34 | 0.59 | 0.53 | 0.33 | 4.61 | 560 |
| 33703       | 5.90  | 1.77 | 4.25 | 1.06 | 0.28 | 0.34 | 0.63 | 0.53 | 0.33 | 5.20 | 560 |
| 33704       | 7.76  | 1.97 | 6.02 | 1.10 | 0.31 | 0.34 | 0.67 | 0.53 | 0.33 | 7.05 | 605 |
| 33710       | 10.31 | 2.13 | 7.95 | 1.22 | 0.35 | 0.41 | 0.79 | 0.65 | 0.41 | 9.25 | 784 |

\* Denotes Stength Table

## Aluminum Tubular Handle Elesa Original Design



- Material: Tube, Aluminum Handle Shanks, Reinforced Polyamide Technopolymer
- Finish: Tube, Polyurethane coat on an epoxy base Color, Metallflake Graphite
- Handle Shank connection is axially knurled to the tube to prevent tube rotation
- Reference pins for safer positioning of the shanks
- Resistant to wear, scratches, and chemical agents

| Part Number | A     | B    | C    | D     | E    | F   | G    | H   | I   | J    | K   | L   | M   | N   | P  |
|-------------|-------|------|------|-------|------|-----|------|-----|-----|------|-----|-----|-----|-----|----|
| 33725       | 12.76 | 3.07 | 1.50 | 10.00 | 2.24 | .71 | 2.36 | .59 | .16 | 1.18 | .41 | .63 | .98 | .59 | 12 |
| 33727       | 16.69 | 3.07 | 1.50 | 13.94 | 2.24 | .71 | 2.36 | .59 | .16 | 1.18 | .41 | .63 | .98 | .59 | 16 |
| 33728       | 20.63 | 3.07 | 1.50 | 17.87 | 2.24 | .71 | 2.36 | .59 | .16 | 1.18 | .41 | .63 | .98 | .59 | 20 |
| 33730       | 28.50 | 3.07 | 1.50 | 25.75 | 2.24 | .71 | 2.36 | .59 | .16 | 1.18 | .41 | .63 | .98 | .59 | 28 |

HANDLES, LEVERS & CRANKS  
NOTES



HANDLES, LEVERS & CRANKS

Lined area for notes, consisting of 25 horizontal lines.

# KNOBS

## Knobs

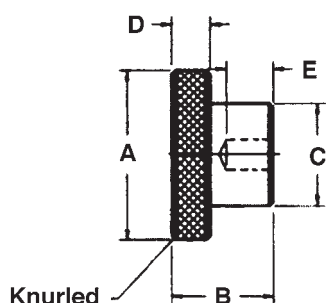
|                                                   |         |                                           |     |
|---------------------------------------------------|---------|-------------------------------------------|-----|
| Aluminum Hand Knob.....                           | 119–120 | Plastic T-Handle .....                    | 138 |
| Aluminum Hand Knob With Stud.....                 | 119     | Plastic Three-Spoked Knob .....           | 142 |
| Aluminum Palm Grips.....                          | 144     | Plastic Wing Knob .....                   | 125 |
| Aluminum Palmgrip Knob.....                       | 121     | Plastic Wing Knob With Stud .....         | 125 |
| Aluminum Star Nuts.....                           | 145     | Polished Steel Ball .....                 | 123 |
| Brass Ball .....                                  | 123     | Quick Lock Hand Knob .....                | 117 |
| Cast Iron Hand Knob.....                          | 118     | Soft Touch Ball .....                     | 124 |
| Knurled Knob .....                                | 136     | Soft Touch Oval Tapered Knob .....        | 140 |
| Knurled Knob With Stud .....                      | 136     | Soft Touch Tapered Knob .....             | 141 |
| Knurled Steel Knob .....                          | 121     | Speed Bar Knob .....                      | 122 |
| Knurled Thumb Screw.....                          | 149     | Stainless Steel Star Grips.....           | 146 |
| Stainless Steel Palm Grips.....                   | 143     | Steel Knurled Control Knob.....           | 116 |
| Mushroom Knobs .....                              | 148     | Steel Knurled Control Knob With Stud..... | 117 |
| Plain Steel Ball.....                             | 123     | Thermoplastic Fluted Knob.....            | 129 |
| Plastic Ball .....                                | 124     | Wing Nut .....                            | 126 |
| Plastic Fluted Grip Knob.....                     | 135     | Wing Nut With Stud .....                  | 126 |
| Plastic Fluted Grip Knob With Stud.....           | 135     | Wing Nuts .....                           | 147 |
| Plastic Fluted Knob .....                         | 129     |                                           |     |
| Plastic Four Prong Knob.....                      | 127     |                                           |     |
| Plastic Four Prong Knob With Extended Prong ..... | 127     |                                           |     |
| Plastic Knurled Torque Knob.....                  | 128     |                                           |     |
| Plastic Knurled Torque Knob With Stud.....        | 128     |                                           |     |
| Plastic Knurled Knob .....                        | 130     |                                           |     |
| Plastic Knurled Knob With Stud .....              | 130     |                                           |     |
| Plastic Knurled Grip Knob.....                    | 137     |                                           |     |
| Plastic Latch Type Lobe Knob .....                | 137     |                                           |     |
| Plastic Lift Knob .....                           | 139     |                                           |     |
| Plastic Lobe Knob.....                            | 131–133 |                                           |     |
| Plastic Lobe Knob With Stud .....                 | 134     |                                           |     |
| Plastic Lobe Knob With Stainless Steel Stud.....  | 134     |                                           |     |
| Plastic Oval Tapered Knob.....                    | 140     |                                           |     |
| Plastic Push/Pull Knob.....                       | 142     |                                           |     |
| Plastic Tapered Knob .....                        | 139     |                                           |     |



## Steel Knurled Control Knob



- Material: 1214 Steel
- Finish: Black Oxide
- Knurled Head



| Part Number | A     | B     | C     | D    | E   | Hole Diameter     |
|-------------|-------|-------|-------|------|-----|-------------------|
| 21200       | 3/4   | 5/8   | 1/2   | 1/4  | 3/8 | 3/16 Ream         |
| 21201       | 3/4   | 5/8   | 1/2   | 1/4  | 3/8 | 10-24 Tap         |
| 21202       | 3/4   | 5/8   | 1/2   | 1/4  | 3/8 | 10-24 Thru Hole   |
| 21203       | 3/4   | 5/8   | 1/2   | 1/4  | 3/8 | 1/4 Ream          |
| 21204       | 3/4   | 5/8   | 1/2   | 1/4  | 3/8 | 1/4-20 Tap        |
| 21205       | 3/4   | 5/8   | 1/2   | 1/4  | 3/8 | 1/4-20 Thru Hole  |
| 21206       | 1     | 3/4   | 5/8   | 1/4  | 1/2 | 1/4 Ream          |
| 21207       | 1     | 3/4   | 5/8   | 1/4  | 1/2 | 1/4-20 Tap        |
| 21208       | 1     | 3/4   | 5/8   | 1/4  | 1/2 | 1/4-20 Thru Hole  |
| 21209       | 1     | 3/4   | 5/8   | 1/4  | 1/2 | 5/16 Ream         |
| 21210       | 1     | 3/4   | 5/8   | 1/4  | 1/2 | 5/16-18 Tap       |
| 21211       | 1     | 3/4   | 5/8   | 1/4  | 1/2 | 5/16-18 Thru Hole |
| 21212       | 1 1/2 | 1     | 3/4   | 5/16 | 5/8 | 5/16 Ream         |
| 21213       | 1 1/2 | 1     | 3/4   | 5/16 | 5/8 | 5/16-18 Tap       |
| 21214       | 1 1/2 | 1     | 3/4   | 5/16 | 5/8 | 5/16-18 Thru Hole |
| 21215       | 1 1/2 | 1     | 3/4   | 5/16 | 5/8 | 3/8 Ream          |
| 21216       | 1 1/2 | 1     | 3/4   | 5/16 | 5/8 | 3/8-16 Tap        |
| 21217       | 1 1/2 | 1     | 3/4   | 5/16 | 5/8 | 3/8-16 Thru Hole  |
| 21218       | 2     | 1 1/8 | 1     | 3/8  | 5/8 | 3/8 Ream          |
| 21219       | 2     | 1 1/8 | 1     | 3/8  | 5/8 | 3/8-16 Tap        |
| 21220       | 2     | 1 1/8 | 1     | 3/8  | 5/8 | 3/8-16 Thru Hole  |
| 21221       | 2     | 1 1/8 | 1     | 3/8  | 5/8 | 1/2 Ream          |
| 21222       | 2     | 1 1/8 | 1     | 3/8  | 5/8 | 1/2-13 Tap        |
| 21223       | 2     | 1 1/8 | 1     | 3/8  | 5/8 | 1/2-13 Thru Hole  |
| 21224       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3/4 | 1/2 Ream          |
| 21225       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3/4 | 1/2-13 Tap        |
| 21226       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3/4 | 1/2-13 Thru Hole  |
| 21227       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3/4 | 5/8 Ream          |
| 21228       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3/4 | 5/8-11 Tap        |
| 21229       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3/4 | 5/8-11 Thru Hole  |
| 21230       | 3     | 1 3/4 | 1 3/4 | 5/8  | 1   | 5/8 Ream          |
| 21231       | 3     | 1 3/4 | 1 3/4 | 5/8  | 1   | 5/8-11 Tap        |
| 21232       | 3     | 1 3/4 | 1 3/4 | 5/8  | 1   | 5/8-11 Thru Hole  |
| 21233       | 3     | 1 3/4 | 1 3/4 | 5/8  | 1   | 3/4 Ream          |
| 21234       | 3     | 1 3/4 | 1 3/4 | 5/8  | 1   | 3/4-10 Tap        |
| 21235       | 3     | 1 3/4 | 1 3/4 | 5/8  | 1   | 3/4-10 Thru Hole  |

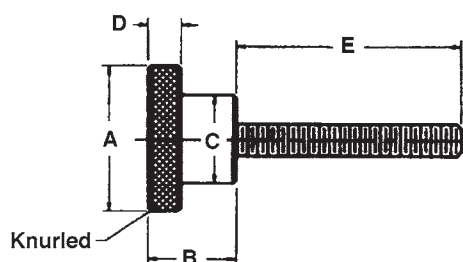
Note: Also available in Metric and Stainless Steel



## Steel Knurled Control Knob With Stud

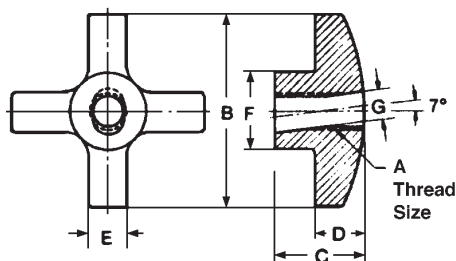


- Material: 1214 Steel
- Finish: Black Oxide
- Knurled Head



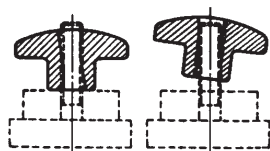
| Part Number | A     | B     | C     | D    | E     | Stud Thread |
|-------------|-------|-------|-------|------|-------|-------------|
| 21240       | 3/4   | 5/8   | 1/2   | 1/4  | 1/2   | 10-24       |
| 21241       | 3/4   | 5/8   | 1/2   | 1/4  | 1     | 10-24       |
| 21242       | 3/4   | 5/8   | 1/2   | 1/4  | 3/4   | 1/4-20      |
| 21243       | 3/4   | 5/8   | 1/2   | 1/4  | 1 1/4 | 1/4-20      |
| 21244       | 1     | 3/4   | 5/8   | 1/4  | 1 3/4 | 1/4-20      |
| 21245       | 1     | 3/4   | 5/8   | 1/4  | 1 3/4 | 5/16-18     |
| 21246       | 1     | 3/4   | 5/8   | 1/4  | 3     | 5/16-18     |
| 21247       | 1 1/2 | 1     | 3/4   | 5/16 | 1 3/4 | 5/16-18     |
| 21248       | 1 1/2 | 1     | 3/4   | 5/16 | 3     | 5/16-18     |
| 21249       | 1 1/2 | 1     | 3/4   | 5/16 | 1 3/4 | 3/8-16      |
| 21250       | 1 1/2 | 1     | 3/4   | 5/16 | 3     | 3/8-16      |
| 21251       | 2     | 1 1/8 | 1     | 3/8  | 1 3/4 | 3/8-16      |
| 21252       | 2     | 1 1/8 | 1     | 3/8  | 3     | 3/8-16      |
| 21253       | 2     | 1 1/8 | 1     | 3/8  | 1 3/4 | 1/2-13      |
| 21254       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 1 3/4 | 1/2-13      |
| 21255       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 3     | 1/2-13      |
| 21256       | 2 1/2 | 1 1/2 | 1 1/2 | 9/16 | 1 3/4 | 5/8-11      |

## Quick Lock Hand Knob



- Material: 40 Grey Iron
- Finish: Zinc Plate
- Thread: Class 2B-UNC
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

Used to save time where a knob must be completely removed from the stud. After approximately one-quarter turn of the hand knob, it can be tilted on an angle and removed from the stud. Recommended for light duty applications.



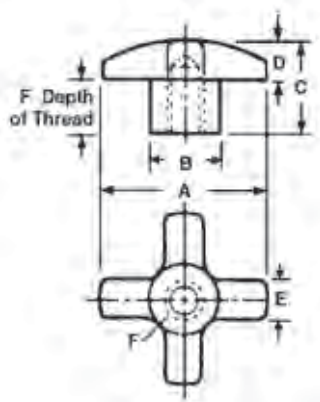
| Part Number | Thread Size A | B      | C     | D    | E    | F      | G     | Wt. (lbs) |
|-------------|---------------|--------|-------|------|------|--------|-------|-----------|
| 33901       | 1/4-20        | 1 1/8  | 11/16 | 5/16 | 5/16 | 9/16   | 17/64 | .06       |
| 33902       | 3/8-16        | 2 3/16 | 1     | 1/2  | 1/2  | 7/8    | 25/64 | .27       |
| 33903       | 1/2-13        | 3      | 1 1/4 | 5/8  | 5/8  | 1 7/16 | 33/64 | .72       |
| 33904       | 5/8-11        | 3      | 1 1/4 | 5/8  | 5/8  | 1 7/16 | 41/64 | .69       |



## Cast Iron Hand Knob



- Material: #30 Grey Iron
- Finish: Zinc Plate
- Thread: 2B-UNC
- Ream: +.002  
-.000
- Hub: Available Blank, Reamed or Tapped
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



## Cast Iron Hand Knob Metric

- Material: #30 Grey Iron
- Finish: Zinc Plate
- Thread: Class 6h
- Ream: -.000  
+.05
- Blank Knobs are Zinc Plated
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A     | B     | C       | D    | E    | Hub Style   | Depth of Thread F | Wt. (lbs) 10 Pcs. |
|-------------|-------|-------|---------|------|------|-------------|-------------------|-------------------|
| 16305*      | 1 1/8 | 5/8   | 3/4     | 5/16 | 5/16 | Blank       | —                 | .78               |
| 16331*      | 1 1/8 | 5/8   | 11/16   | 5/16 | 5/16 | 1/4 Ream    | 1/2               | .63               |
| 16330       | 1 1/8 | 5/8   | 11/16   | 5/16 | 5/16 | 5/16 Ream   | 1/2               | .63               |
| 16306*      | 1 1/8 | 5/8   | 11/16   | 5/16 | 5/16 | 1/4-20 Tap  | 1/2               | .63               |
| 16307       | 1 1/8 | 5/8   | 11/16   | 5/16 | 5/16 | 5/16-18 Tap | 1/2               | .63               |
| 16308*      | 1 1/2 | 11/16 | 15/16   | 7/16 | 3/8  | Blank       | —                 | 1.56              |
| 16309*      | 1 1/2 | 11/16 | 7/8     | 7/16 | 3/8  | 5/16 Ream   | 9/16              | 1.30              |
| 16310       | 1 1/2 | 11/16 | 7/8     | 7/16 | 3/8  | 3/8 Ream    | 9/16              | 1.30              |
| 16311*      | 1 1/2 | 11/16 | 7/8     | 7/16 | 3/8  | 5/16-18 Tap | 9/16              | 1.30              |
| 16312       | 1 1/2 | 11/16 | 7/8     | 7/16 | 3/8  | 3/8-16 Tap  | 9/16              | 1.30              |
| 16313*      | 2     | 3/4   | 1 3/16  | 1/2  | 1/2  | Blank       | —                 | 3.00              |
| 16314*      | 2     | 3/4   | 1 1/8   | 1/2  | 1/2  | 3/8 Ream    | 11/16             | 2.75              |
| 16315       | 2     | 3/4   | 1 1/8   | 1/2  | 1/2  | 1/2 Ream    | 11/16             | 2.70              |
| 16316*      | 2     | 3/4   | 1 1/8   | 1/2  | 1/2  | 3/8-16 Tap  | 11/16             | 2.75              |
| 16317       | 2     | 3/4   | 1 1/8   | 1/2  | 1/2  | 1/2-13 Tap  | 11/16             | 2.70              |
| 16318*      | 2 1/2 | 1 1/8 | 1 9/16  | 5/8  | 5/8  | Blank       | —                 | 7.00              |
| 16319*      | 2 1/2 | 1 1/8 | 1 1/2   | 5/8  | 5/8  | 1/2 Ream    | 1                 | 6.00              |
| 16320*      | 2 1/2 | 1 1/8 | 1 1/2   | 5/8  | 5/8  | 5/8 Ream    | 1                 | 5.80              |
| 16321*      | 2 1/2 | 1 1/8 | 1 1/2   | 5/8  | 5/8  | 1/2-13 Tap  | 1                 | 6.00              |
| 16322*      | 2 1/2 | 1 1/8 | 1 1/2   | 5/8  | 5/8  | 5/8-11 Tap  | 1                 | 5.80              |
| 16323*      | 3     | 1 1/4 | 1 13/16 | 9/16 | 5/8  | Blank       | —                 | 11.25             |
| 16324*      | 3     | 1 1/4 | 1 3/4   | 9/16 | 5/8  | 5/8 Ream    | 1 1/8             | 10.00             |
| 16325*      | 3     | 1 1/4 | 1 3/4   | 9/16 | 5/8  | 3/4 Ream    | 1 1/8             | 8.20              |
| 16326       | 3     | 1 1/4 | 1 3/4   | 9/16 | 5/8  | 1/2-13 Tap  | 1 1/8             | 10.70             |
| 16327*      | 3     | 1 1/4 | 1 3/4   | 9/16 | 5/8  | 5/8-11 Tap  | 1 1/8             | 10.25             |
| 16328*      | 3     | 1 1/4 | 1 3/4   | 9/16 | 5/8  | 3/4-10 Tap  | 1 1/8             | 8.50              |

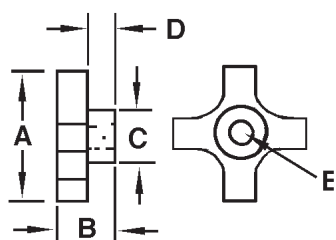
\*TCMA Standard

| *Part Number | A  | B  | C  | D  | E  | Hub Style      | Depth of Thread F |
|--------------|----|----|----|----|----|----------------|-------------------|
| 16305        | 28 | 16 | 19 | 8  | 8  | Blank          | —                 |
| 16354        | 28 | 16 | 17 | 8  | 8  | 6mm Ream       | 12                |
| 16355        | 28 | 16 | 17 | 8  | 8  | M6 x 1.0 Tap   | 12                |
| 16308        | 38 | 17 | 23 | 11 | 9  | Blank          | —                 |
| 16359        | 38 | 17 | 22 | 11 | 9  | 8mm Ream       | 14                |
| 16361        | 38 | 17 | 22 | 11 | 9  | M8 x 1.25 Tap  | 14                |
| 16313        | 50 | 19 | 30 | 13 | 13 | Blank          | —                 |
| 16364        | 50 | 19 | 28 | 13 | 13 | 10mm Ream      | 17                |
| 16366        | 50 | 19 | 28 | 13 | 13 | M10 x 1.5 Tap  | 17                |
| 16318        | 63 | 29 | 39 | 16 | 16 | Blank          | —                 |
| 16369        | 63 | 29 | 38 | 16 | 16 | 12mm Ream      | 25                |
| 16370        | 63 | 29 | 38 | 16 | 16 | 16mm Ream      | 25                |
| 16371        | 63 | 29 | 38 | 16 | 16 | M12 x 1.75 Tap | 25                |
| 16372        | 63 | 29 | 38 | 16 | 16 | M16 x 2.0 Tap  | 25                |
| 16323        | 75 | 32 | 45 | 14 | 16 | Blank          | —                 |
| 16374        | 75 | 32 | 44 | 14 | 16 | 16mm Ream      | 28                |
| 16375        | 75 | 32 | 44 | 14 | 16 | 20mm Ream      | 28                |
| 16377        | 75 | 32 | 44 | 14 | 16 | M16 x 2.0 Tap  | 28                |
| 16378        | 75 | 32 | 44 | 14 | 16 | M20 x 2.5 Tap  | 28                |

\*Dimensions in millimeters



## Aluminum Hand Knob

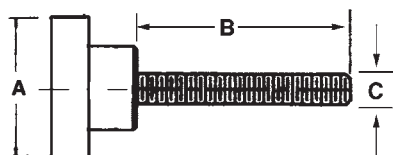


- Material: Aluminum
- Also available in black, red, blue, clear and gold anodized

| Part Number | A     | B     | C     | D    | E                 |
|-------------|-------|-------|-------|------|-------------------|
| 21000       | 1     | 7/8   | 1/2   | 1/2  | Blank             |
| 21001       | 1     | 7/8   | 1/2   | 1/2  | 1/4-20 Tap        |
| 21002       | 1     | 7/8   | 1/2   | 1/2  | 1/4-20 Thru Hole  |
| 21003       | 1     | 7/8   | 1/2   | 1/2  | 1/4 Ream          |
| 21004       | 1 1/2 | 7/8   | 5/8   | 3/8  | Blank             |
| 21005       | 1 1/2 | 7/8   | 5/8   | 3/8  | 5/16-18 Tap       |
| 21006       | 1 1/2 | 7/8   | 5/8   | 3/8  | 5/16-18 Thru Hole |
| 21007       | 1 1/2 | 7/8   | 5/8   | 3/8  | 5/16 Ream         |
| 21008       | 2     | 1     | 13/16 | 1/2  | Blank             |
| 21009       | 2     | 1     | 13/16 | 1/2  | 3/8-16 Tap        |
| 21010       | 2     | 1     | 13/16 | 1/2  | 3/8-16 Thru Hole  |
| 21011       | 2     | 1     | 13/16 | 1/2  | 3/8 Ream          |
| 21012       | 2 1/2 | 1 1/8 | 1     | 9/16 | Blank             |
| 21013       | 2 1/2 | 1 1/8 | 1     | 9/16 | 1/2-13 Tap        |
| 21014       | 2 1/2 | 1 1/8 | 1     | 9/16 | 1/2-13 Thru Hole  |
| 21015       | 2 1/2 | 1 1/8 | 1     | 9/16 | 1/2 Ream          |

Note: Also available in metric sizes.

## Aluminum Hand Knob With Stud



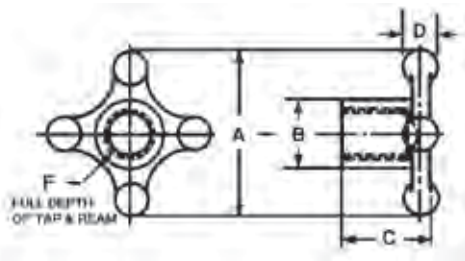
- Material: Aluminum
- Also available in black, red, blue, clear and gold anodized

| Part Number | A     | B     | C       |
|-------------|-------|-------|---------|
| 21020       | 1 1/2 | 1 3/4 | 1/4-20  |
| 21021       | 1 1/2 | 3     | 1/4-20  |
| 21022       | 2     | 1 3/4 | 5/16-18 |
| 21023       | 2     | 3     | 5/16-18 |
| 21024       | 2 1/2 | 1 3/4 | 3/8-16  |
| 21025       | 2 1/2 | 3     | 3/8-16  |
| 21026       | 2 1/2 | 1 3/4 | 1/2-13  |
| 21027       | 2 1/2 | 3     | 1/2-13  |

Note: Also available in metric sizes.



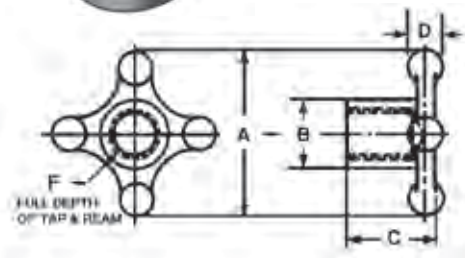
## Aluminum Hand Knob



- Material: 319 Aluminum Alloy
- Thread: 2B-UNC
- Ream:  $+0.002$   
 $-0.000$
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A     | B     | C     | D     | Hub Style   | F     | Wt. (lbs) 10 Pcs. |
|-------------|-------|-------|-------|-------|-------------|-------|-------------------|
| 21101       | 1 1/4 | 9/16  | 3/4   | 5/16  | Blank       | —     | .21               |
| 21102       | 1 1/4 | 9/16  | 3/4   | 5/16  | 1/4 Ream    | 1/2   | .16               |
| 21104       | 1 1/4 | 9/16  | 3/4   | 5/16  | 1/4-20 Tap  | 1/2   | .16               |
| 21105       | 1 1/4 | 9/16  | 3/4   | 5/16  | 5/16-18 Tap | 1/2   | .16               |
| 21106       | 1 1/2 | 11/16 | 7/8   | 3/8   | Blank       | —     | .47               |
| 21108       | 1 1/2 | 11/16 | 7/8   | 3/8   | 3/8 Ream    | 5/8   | .31               |
| 21109       | 1 1/2 | 11/16 | 7/8   | 3/8   | 5/16-18 Tap | 5/8   | .31               |
| 21110       | 1 1/2 | 11/16 | 7/8   | 3/8   | 3/8-16 Tap  | 5/8   | .31               |
| 21111       | 2 1/8 | 7/8   | 1 1/4 | 1/2   | Blank       | —     | 1.10              |
| 21112       | 2 1/8 | 7/8   | 1 1/4 | 1/2   | 3/8 Ream    | 7/8   | 1.00              |
| 21113       | 2 1/8 | 7/8   | 1 1/4 | 1/2   | 1/2 Ream    | 7/8   | 1.00              |
| 21114       | 2 1/8 | 7/8   | 1 1/4 | 1/2   | 3/8-16 Tap  | 7/8   | 1.00              |
| 21115       | 2 1/8 | 7/8   | 1 1/4 | 1/2   | 1/2-13 Tap  | 7/8   | 1.00              |
| 21116       | 3     | 1 3/8 | 1 3/4 | 11/16 | Blank       | —     | 3.80              |
| 21118       | 3     | 1 3/8 | 1 3/4 | 11/16 | 5/8 Ream    | 1 1/4 | 3.30              |
| 21119       | 3     | 1 3/8 | 1 3/4 | 11/16 | 3/4 Ream    | 1 1/4 | 3.10              |
| 21120       | 3     | 1 3/8 | 1 3/4 | 11/16 | 1/2-13 Tap  | 1 1/4 | 3.40              |
| 21121       | 3     | 1 3/8 | 1 3/4 | 11/16 | 5/8-11 Tap  | 1 1/4 | 3.30              |
| 21122       | 3     | 1 3/8 | 1 3/4 | 11/16 | 3/4-10 Tap  | 1 1/4 | 3.10              |

## Aluminum Hand Knob Metric



- Material: 319 Aluminum Alloy
- Thread: Class 6h
- Ream:  $+0.05$   
 $-0.000$

| *Part Number | A  | B  | C  | D  | Hub Style | F  |
|--------------|----|----|----|----|-----------|----|
| 21101        | 31 | 14 | 19 | 8  | Blank     | —  |
| 21152        | 31 | 14 | 19 | 8  | 6mm Ream  | 13 |
| 21154        | 31 | 14 | 19 | 8  | M6 Tap    | 13 |
| 21155        | 31 | 14 | 19 | 8  | M8 Tap    | 13 |
| 21106        | 38 | 17 | 22 | 9  | Blank     | —  |
| 21158        | 38 | 17 | 22 | 9  | 10mm Ream | 16 |
| 21159        | 38 | 17 | 22 | 9  | M8 Tap    | 16 |
| 21160        | 38 | 17 | 22 | 9  | M10 Tap   | 16 |
| 21111        | 53 | 22 | 32 | 12 | Blank     | —  |
| 21162        | 53 | 22 | 32 | 12 | 10mm Ream | 22 |
| 21163        | 53 | 22 | 32 | 12 | 12mm Ream | 22 |
| 21164        | 53 | 22 | 32 | 12 | M10 Tap   | 22 |
| 21165        | 53 | 22 | 32 | 12 | M12 Tap   | 22 |
| 21116        | 75 | 34 | 44 | 17 | Blank     | —  |
| 21168        | 75 | 34 | 44 | 17 | 16mm Ream | 32 |
| 21169        | 75 | 34 | 44 | 17 | 20mm Ream | 32 |
| 21170        | 75 | 34 | 44 | 17 | M12 Tap   | 32 |
| 21171        | 75 | 34 | 44 | 17 | M16 Tap   | 32 |
| 21172        | 75 | 34 | 44 | 17 | M20 Tap   | 32 |

\*Dimensions in millimeters

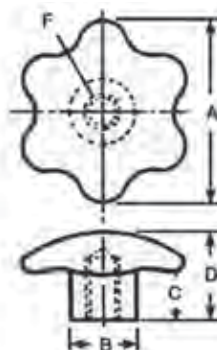


## Aluminum Palmgrip Knob



Full Depth of  
Tap and Ream

- Material: 319 Aluminum Alloy
- Finish: Tumble
- Thread: 2B-UNC or Class 6h
- Ream: +.002  
-.000
- Metric Ream: +.05  
-.000
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Inch

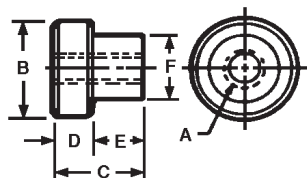
| Part Number | A     | B      | C     | D       | F     | Hub Style  |
|-------------|-------|--------|-------|---------|-------|------------|
| 20901       | 1 1/2 | 27/32  | 7/8   | 3/8     | —     | Blank      |
| 20902       | 1 1/2 | 27/32  | 7/8   | 1 5/16  | 3/4   | 1/4 Ream   |
| 20903       | 1 1/2 | 27/32  | 7/8   | 1 5/16  | 3/4   | 1/4-20 Tap |
| 20904       | 2     | 1      | 7/8   | 1 19/32 | —     | Blank      |
| 20905       | 2     | 1      | 7/8   | 1 1/2   | 3/4   | 3/8 Ream   |
| 20906       | 2     | 1      | 7/8   | 1 1/2   | 3/4   | 3/8-16 Tap |
| 20907       | 2 3/4 | 1 3/16 | 1 1/8 | 1 31/32 | —     | Blank      |
| 20908       | 2 3/4 | 1 3/16 | 1 1/8 | 1 7/8   | 1 1/4 | 1/2 Ream   |
| 20909       | 2 3/4 | 1 3/16 | 1 1/8 | 1 7/8   | 1 1/4 | 1/2-13 Tap |
| 20910       | 3 1/2 | 1 1/4  | 1     | 1 13/16 | —     | Blank      |
| 20911       | 3 1/2 | 1 1/4  | 1     | 1 3/4   | 1 1/4 | 1/2 Ream   |
| 20912       | 3 1/2 | 1 1/4  | 1     | 1 3/4   | 1 1/4 | 1/2-13 Tap |

### Metric

| *Part Number | A  | B  | C  | D  | F  | Hub Style |
|--------------|----|----|----|----|----|-----------|
| 20901        | 38 | 19 | 22 | 34 | —  | Blank     |
| 20952        | 38 | 19 | 22 | 33 | 19 | 6mm Ream  |
| 20953        | 38 | 19 | 22 | 33 | 19 | M6 Tap    |
| 20904        | 50 | 25 | 22 | 40 | —  | Blank     |
| 20955        | 50 | 25 | 22 | 38 | 19 | 10mm Ream |
| 20956        | 50 | 25 | 22 | 38 | 19 | M10 Tap   |
| 20907        | 69 | 30 | 29 | 49 | —  | Blank     |
| 20958        | 69 | 30 | 29 | 47 | 31 | 12mm Ream |
| 20959        | 69 | 30 | 29 | 47 | 31 | M12 Tap   |
| 20910        | 88 | 31 | 25 | 45 | —  | Blank     |
| 20961        | 88 | 31 | 25 | 44 | 31 | 12mm Ream |
| 20962        | 88 | 31 | 25 | 44 | 31 | M12 Tap   |

\*Dimensions in millimeters

## Knurled Steel Knob



- Material: Low Carbon Steel
- Finish: Black Oxide
- Thread: 2B-UNC or Class 6h
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

### Inch

| Part Number | A      | B     | C     | D   | E     | F     |
|-------------|--------|-------|-------|-----|-------|-------|
| 27901       | 10-24  | 3/4   | 5/8   | 1/4 | 3/8   | 7/16  |
| 27902       | 1/4-20 | 1     | 3/4   | 1/4 | 1/2   | 5/8   |
| 27903       | 3/8-16 | 1 1/4 | 1 1/8 | 1/2 | 5/8   | 3/4   |
| 27904       | 1/2-13 | 1 1/2 | 1 1/4 | 1/2 | 3/4   | 1     |
| 27905       | 5/8-11 | 2     | 1 3/4 | 5/8 | 1 1/8 | 1 1/4 |
| 27906       | 3/4-10 | 2 1/2 | 2 1/4 | 5/8 | 1 5/8 | 1 1/2 |

### Metric

| *Part Number | A          | B  | C  | D  | E  | F  |
|--------------|------------|----|----|----|----|----|
| 27951        | M5 x 0.8   | 19 | 16 | 6  | 9  | 11 |
| 27952        | M6 x 1.0   | 25 | 19 | 6  | 13 | 16 |
| 27953        | M10 x 1.5  | 31 | 28 | 13 | 16 | 19 |
| 27954        | M12 x 1.75 | 38 | 31 | 13 | 19 | 25 |
| 27955        | M16 x 2.0  | 50 | 44 | 16 | 28 | 31 |
| 27956        | M20 x 2.5  | 63 | 57 | 16 | 41 | 38 |

\*Dimensions in millimeters

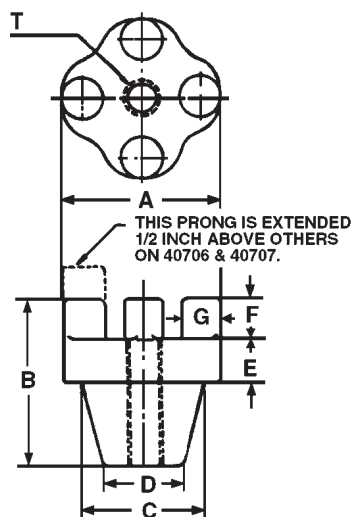


## Speed Bar Knob



Speed Bar Knobs offer the ultimate in strength to hold down covers and clamp heavy work pieces. Insert bar between four vertical prongs for maximum leverage and holding force. One extra long prong is available on part numbers **40706** and **40707** for use with a crank handle.

- Material: Malleable ASTM 32510
- Finish: Mill
- Thread: 2B-UNC or Metric Class 6h
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



### Inch

| Part Number | A     | B     | C     | D     | E    | F   | G   | T      | Wt. (lbs) |
|-------------|-------|-------|-------|-------|------|-----|-----|--------|-----------|
| 40701       | 2     | 2 1/8 | 1 1/4 | 1 1/8 | 1/2  | 3/4 | 1/2 | Blank  | 0.80      |
| 40711       | 2     | 2 1/8 | 1 1/4 | 1 1/8 | 1/2  | 3/4 | 1/2 | 3/8-16 | 0.76      |
| 40702       | 2     | 2 1/8 | 1 1/4 | 1 1/8 | 1/2  | 3/4 | 1/2 | 1/2-13 | 0.72      |
| 40712       | 2     | 2 1/8 | 1 1/4 | 1 1/8 | 1/2  | 3/4 | 1/2 | 5/8-11 | 0.68      |
| 40703       | 2 1/2 | 2 3/8 | 1 3/4 | 1 1/2 | 9/16 | 7/8 | 5/8 | Blank  | 1.56      |
| 40713       | 2 1/2 | 2 3/8 | 1 3/4 | 1 1/2 | 9/16 | 7/8 | 5/8 | 1/2-13 | 1.48      |
| 40704       | 2 1/2 | 2 3/8 | 1 3/4 | 1 1/2 | 9/16 | 7/8 | 5/8 | 5/8-11 | 1.44      |
| 40705       | 2 1/2 | 2 3/8 | 1 3/8 | 1 1/2 | 9/16 | 7/8 | 5/8 | 3/4-10 | 1.44      |
| 40706       | 3 1/2 | 2 3/8 | 2 3/8 | 2 1/8 | 1/2  | 7/8 | 5/8 | Blank  | 2.50      |
| 40715       | 3 1/2 | 2 3/8 | 2 3/8 | 2 1/8 | 1/2  | 7/8 | 5/8 | 7/8-09 | 2.38      |
| 40707       | 3 1/2 | 2 3/8 | 2 3/8 | 2 1/8 | 1/2  | 7/8 | 5/8 | 1-8    | 2.25      |

### Metric

| Part Number** | A  | B  | C  | D  | E  | F  | G  | T     |
|---------------|----|----|----|----|----|----|----|-------|
| 40701         | 50 | 53 | 31 | 28 | 12 | 19 | 12 | Blank |
| 40752         | 50 | 53 | 31 | 28 | 12 | 19 | 12 | M12   |
| 40703         | 63 | 59 | 44 | 38 | 14 | 22 | 16 | Blank |
| 40754         | 63 | 59 | 44 | 38 | 14 | 22 | 16 | M16   |
| 40755         | 63 | 59 | 44 | 38 | 14 | 22 | 16 | M20   |
| 40706*        | 88 | 59 | 59 | 53 | 12 | 22 | 16 | Blank |
| 40757*        | 88 | 59 | 59 | 53 | 12 | 22 | 16 | M24   |

\*Note: One extra long prong is available on part numbers 40706 and 40757 for use with a crank handle.

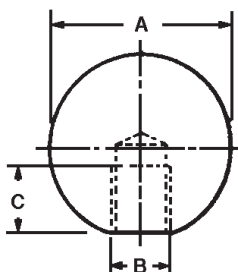
\*\*Dimensions in millimeters



## Plain Steel Ball



- Material: Carbon Steel
- Finish: Black Oxide
- Available Tapped or Blank
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

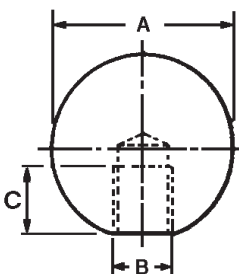


| Part Number | A     | B      | C   |
|-------------|-------|--------|-----|
| 36511       | 1 1/2 | Blank  | —   |
| 36512       | 1 1/2 | 3/8-16 | 5/8 |
| 36513       | 2     | Blank  | —   |
| 36514       | 2     | 1/2-13 | 3/4 |
| 36515       | 2     | 5/8-11 | 7/8 |

## Polished Steel Ball



- Material: Steel
- Finish: Polished

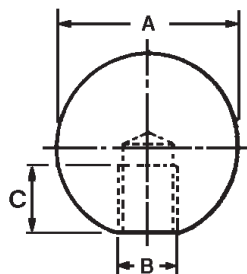


| Part Number | A     | B       | C   |
|-------------|-------|---------|-----|
| 36520       | 3/4   | 10-32   | 3/8 |
| 36521       | 1     | 10-32   | 3/8 |
| 36522       | 1     | 1/4-20  | 1/2 |
| 36523       | 1     | 5/16-18 | 1/2 |
| 36524       | 1     | 3/8-16  | 1/2 |
| 36525       | 1 3/8 | 1/4-20  | 5/8 |
| 36526       | 1 3/8 | 5/16-18 | 5/8 |
| 36527       | 1 3/8 | 3/8-16  | 5/8 |
| 36528       | 1 3/8 | 1/2-13  | 5/8 |
| 36529       | 1 7/8 | 3/8-16  | 3/4 |
| 36530       | 1 7/8 | 1/2-13  | 3/4 |
| 36531       | 1 7/8 | 5/8-11  | 3/4 |

## Brass Ball



- Material: Brass
- Finish: Polished
- Water Resistant



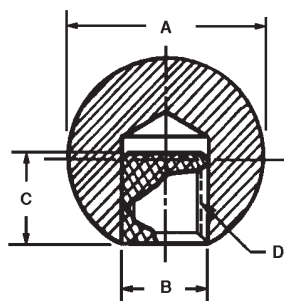
| Part Number | A     | B       | C   |
|-------------|-------|---------|-----|
| 36540       | 3/4   | 10-32   | 3/8 |
| 36541       | 1     | 10-32   | 3/8 |
| 36542       | 1     | 1/4-20  | 1/2 |
| 36543       | 1     | 5/16-18 | 1/2 |
| 36544       | 1     | 3/8-16  | 1/2 |
| 36545       | 1 3/8 | 1/4-20  | 5/8 |
| 36546       | 1 3/8 | 5/16-18 | 5/8 |
| 36547       | 1 3/8 | 3/8-16  | 5/8 |
| 36548       | 1 3/8 | 1/2-13  | 5/8 |
| 36549       | 1 7/8 | 3/8-16  | 3/4 |
| 36550       | 1 7/8 | 1/2-13  | 3/4 |
| 36551       | 1 7/8 | 5/8-11  | 3/4 |



## Plastic Ball

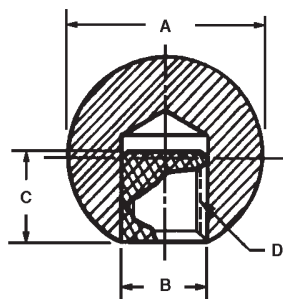


- Material: Plastic, Black
- Insert: Brass
- Finish: Tumble, Sand, & Buff
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



| Black Part Number | A     | B     | C    | Brass Insert D |
|-------------------|-------|-------|------|----------------|
| 31301             | 3/4   | 1/4   | 5/16 | 10-32          |
| 31316             | 3/4   | 1/4   | 5/16 | 1/4-20         |
| 31317             | 1     | 1/2   | 1/2  | 10-32          |
| 31302             | 1     | 1/2   | 7/16 | 1/4-20         |
| 31308             | 1     | 1/2   | 7/16 | 5/16-18        |
| 31303             | 1     | 1/2   | 1/2  | 3/8-16         |
| 31318             | 1 3/8 | 5/8   | 5/8  | 1/4-20         |
| 31309             | 1 3/8 | 5/8   | 7/16 | 5/16-18        |
| 31304             | 1 3/8 | 5/8   | 1/2  | 3/8-16         |
| 31310             | 1 3/8 | 5/8   | 1/2  | 3/8-24         |
| 31305             | 1 3/8 | 5/8   | 5/8  | 1/2-13         |
| 31311             | 1 3/8 | 5/8   | 5/8  | 1/2-20         |
| 31319             | 1 5/8 | 11/16 | 5/8  | 5/16-18        |
| 31314             | 1 5/8 | 11/16 | 1/2  | 3/8-16         |
| 31315             | 1 5/8 | 11/16 | 5/8  | 1/2-13         |
| 31320             | 1 7/8 | 3/4   | 7/16 | 5/16-18        |
| 31312             | 1 7/8 | 3/4   | 1/2  | 3/8-16         |
| 31306             | 1 7/8 | 3/4   | 5/8  | 1/2-13         |
| 31313             | 1 7/8 | 3/4   | 5/8  | 1/2-20         |
| 31307             | 1 7/8 | 3/4   | 3/4  | 5/8-18         |

## Soft Touch Ball



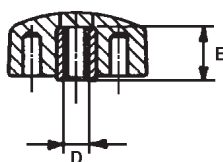
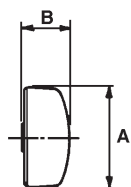
- Material: Soft Touch Plastic
- Finish: Black Matte
- Insert: Brass
- Also available in red, blue, yellow, and green (250 piece minimum)

| Part Number | A     | B       | C   | Insert D      |
|-------------|-------|---------|-----|---------------|
| 31330       | 1 1/2 | 1 15/64 | 5/8 | 1/4-20 x 5/8  |
| 31331       | 1 1/2 | 1 15/64 | 5/8 | 5/16-18 x 5/8 |
| 31332       | 1 1/2 | 1 15/64 | 5/8 | 3/8-16 x 5/8  |
| 31333       | 1 1/2 | 1 15/64 | 5/8 | 1/2-13 x 5/8  |

This Ball Knob has a soft touch material which enables the operator to get a better grip on the knob for many different types of operations.



## Plastic Wing Knob ELESA Original Design Metric

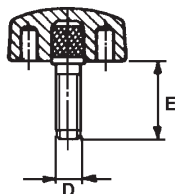
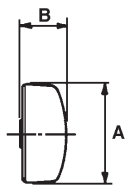


- Material: Glass-Fibre Reinforced Black Technopolymer
- Finish: Black Matte
- Insert: Brass with tapped blind hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number* | A  | B  | C    | D  | E |
|--------------|----|----|------|----|---|
| <b>33776</b> | 26 | 13 | 11   | M5 | 5 |
| <b>33777</b> | 32 | 15 | 13   | M6 | 8 |
| <b>33778</b> | 40 | 17 | 15.5 | M8 | 8 |

\*Dimensions in millimeters

## Plastic Wing Knob With Stud ELESA Original Design



- Material: Glass-Fibre Reinforced Black Technopolymer
- Finish: Black Matte
- Zinc-Plated Steel Stud with chamfered flat end
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

### Inch

| Part Number  | A    | B   | C   | D       | E     |
|--------------|------|-----|-----|---------|-------|
| <b>33765</b> | 1.02 | .51 | .43 | 10-32   | .500  |
| <b>33766</b> | 1.02 | .51 | .43 | 10-32   | .750  |
| <b>33767</b> | 1.26 | .59 | .51 | 1/4-20  | .500  |
| <b>33768</b> | 1.26 | .59 | .51 | 1/4-20  | .750  |
| <b>33769</b> | 1.26 | .59 | .51 | 1/4-20  | 1.000 |
| <b>33770</b> | 1.57 | .67 | .61 | 5/16-18 | .750  |
| <b>33771</b> | 1.57 | .67 | .61 | 5/16-18 | 1.000 |

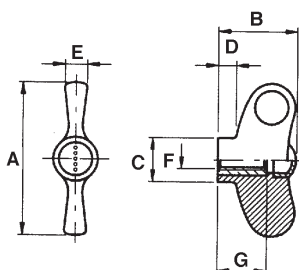
### Metric

| Part Number* | A  | B  | C    | D   | E  |
|--------------|----|----|------|-----|----|
| <b>33781</b> | 26 | 13 | 11   | M5  | 16 |
| <b>33782</b> | 32 | 15 | 13   | M6  | 16 |
| <b>33783</b> | 32 | 15 | 13   | M8  | 16 |
| <b>33784</b> | 40 | 17 | 15.5 | M8  | 25 |
| <b>33785</b> | 40 | 17 | 15.5 | M10 | 30 |

\*Dimensions in millimeters



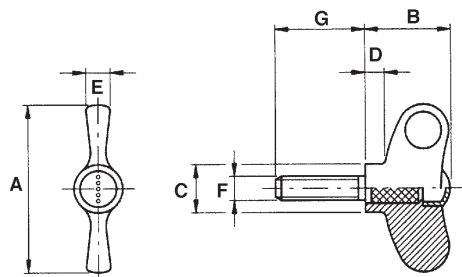
## Wing Nut ELESA Original Design



- Material: Glass Fibre Reinforced Technopolymer
- Finish: Gray/Black Matte
- Insert: Brass With Tapped Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional cap colors available upon request (Black, Grey, Yellow, Blue & Red)

| Part Number | A    | B    | C    | D    | E    | F       | G    |
|-------------|------|------|------|------|------|---------|------|
| 34450       | 2.17 | 1.1  | 0.63 | 0.26 | 0.31 | 1/4-20  | 0.71 |
| 34451       | 2.17 | 1.1  | 0.63 | 0.26 | 0.31 | 5/16-18 | 0.71 |
| 34452       | 2.76 | 1.42 | 0.79 | 0.31 | 0.39 | 5/16-18 | 0.79 |
| 34453       | 2.76 | 1.42 | 0.79 | 0.31 | 0.39 | 3/8-16  | 0.79 |

## Wing Nut With Stud ELESA Original Design



- Material: Glass Fibre Reinforced Technopolymer
- Finish: Gray/Black Matte
- Stud: Zinc Plated Threaded Steel With Chamfered End
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Optional cap colors available upon request (Black, Grey, Yellow, Blue & Red)

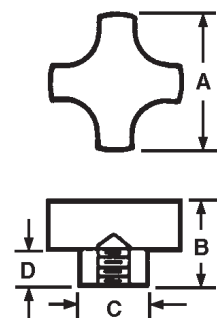
| Part Number | A    | B    | C   | D   | E   | F       | G    |
|-------------|------|------|-----|-----|-----|---------|------|
| 34455       | 2.17 | 1.10 | .63 | .26 | .31 | 5/16-18 | 1.00 |
| 34456       | 2.17 | 1.10 | .63 | .26 | .31 | 5/16-18 | 1.50 |
| 34457       | 2.76 | 1.42 | .79 | .31 | .39 | 3/8-16  | 1.00 |
| 34458       | 2.76 | 1.42 | .79 | .31 | .39 | 3/8-16  | 1.50 |



## Plastic Four Prong Knob



- Material: Plastic
- Finish: Tumble
- Insert: Brass
- Excellent gripping action for turning and tightening uses: adjusting devices, tripods, lawn mower height adjustments, valve controls, etc.
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



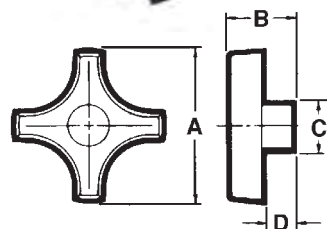
| Part Number | Insert Thread and Depth | A     | B     | C     | D    |
|-------------|-------------------------|-------|-------|-------|------|
| 32201       | 1/4-20 x 7/16           | 1 1/4 | 7/8   | 5/8   | 3/8  |
| 32270       | 5/16-18 x 7/16          | 1 1/4 | 7/8   | 5/8   | 3/8  |
| 32202*      | 1/4-20 x 1/2            | 1 1/4 | 7/8   | 5/8   | 3/8  |
| 32271       | 1/4-20 x 7/16           | 1 3/4 | 1     | 13/16 | 1/2  |
| 32203       | 5/16-18 x 7/16          | 1 3/4 | 1     | 13/16 | 1/2  |
| 32204*      | 5/16-18 x 5/8           | 1 3/4 | 1     | 13/16 | 1/2  |
| 32272*      | 1/4-20 x 5/8            | 1 3/4 | 1     | 13/16 | 1/2  |
| 32205       | 3/8-16 x 1/2            | 1 3/4 | 1     | 13/16 | 1/2  |
| 32206*      | 3/8-16 x 5/8            | 1 3/4 | 1     | 13/16 | 1/2  |
| 32207       | 3/8-16 x 1/2            | 2 1/4 | 1 1/8 | 1     | 9/16 |
| 32273       | 5/16-18 x 1/2           | 2 1/4 | 1 1/8 | 1     | 9/16 |
| 32208*      | 3/8-16 x 5/8            | 2 1/4 | 1 1/8 | 1     | 9/16 |
| 32274*      | 5/16-18 x 5/8           | 2 1/4 | 1 1/8 | 1     | 9/16 |
| 32209       | 1/2-13 x 5/8            | 2 1/4 | 1 1/8 | 1     | 9/16 |
| 32210*      | 1/2-13 x 5/8            | 2 1/4 | 1 1/8 | 1     | 9/16 |

\*Indicates knobs with through clearance hole.

## Plastic Four Prong Knob With Extended Prong



- Material: Polypropylene
- Finish: Tumble
- Insert: Brass

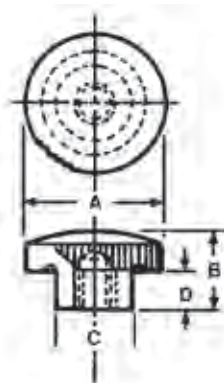


| Part Number | A | B     | C   | D   | Insert  |
|-------------|---|-------|-----|-----|---------|
| 32260       | 3 | 1 1/4 | 7/8 | 5/8 | 1/4-20  |
| 32261*      | 3 | 1 1/4 | 7/8 | 5/8 | 1/4-20  |
| 32262       | 3 | 1 1/4 | 7/8 | 5/8 | 5/16-18 |
| 32263*      | 3 | 1 1/4 | 7/8 | 5/8 | 5/16-18 |
| 32264       | 3 | 1 1/4 | 7/8 | 5/8 | 3/8-16  |
| 32265*      | 3 | 1 1/4 | 7/8 | 5/8 | 3/8-16  |

\* Through Hole Style



## Plastic Knurled Torque Knob

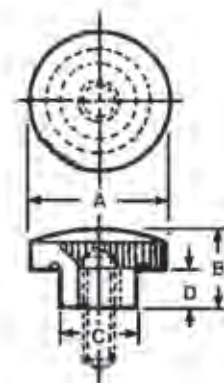


- Material: Plastic
- Finish: Tumble
- Knurled edge for non-slip grip
- Insert Threads: Brass
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | Insert Thread and Depth | A     | B     | C   | D    |
|-------------|-------------------------|-------|-------|-----|------|
| 32324       | 8-32 x 5/16             | 3/4   | 9/16  | 5/8 | —    |
| 32325       | 10-32 x 5/16            | 3/4   | 9/16  | 5/8 | —    |
| 32328       | 1/4-20 x 3/8            | 3/4   | 9/16  | 5/8 | —    |
| 32301       | 10-32 x 5/16            | 1     | 21/32 | 5/8 | 5/16 |
| 32303       | 1/4-20 x 3/8            | 1     | 21/32 | 5/8 | 5/16 |
| 32305       | 1/4-20 x 7/16           | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32308       | 5/16-18 x 7/16          | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32310       | 3/8-16 x 3/8            | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32311       | 5/16-18 x 7/16          | 1 7/8 | 1     | 1   | 1/2  |
| 32312       | 3/8-16 x 1/2            | 1 7/8 | 1     | 1   | 1/2  |
| 32315       | Bushing*                | 1 7/8 | 1     | 1   | 1/2  |

\*.377 I.D. x 1/2" O.D. x 1/2" long plain hole brass bushing, drilled and tapped for one #10-32 set screw.

## Plastic Knurled Torque Knob With Stud



- Material: Plastic
- Finish: Tumble
- Knurled edge for non-slip grip
- Stud Threads: Zinc Plated Steel
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

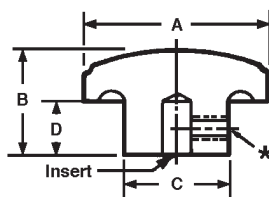
| Part Number | Stud Thread and Length | A     | B     | C   | D    |
|-------------|------------------------|-------|-------|-----|------|
| 32326       | 10-32 x 1/2            | 3/4   | 9/16  | 5/8 | —    |
| 32327       | 10-32 x 1              | 3/4   | 9/16  | 5/8 | —    |
| 32329       | 1/4-20 x 1/2           | 3/4   | 9/16  | 5/8 | —    |
| 32330       | 1/4-20 x 1             | 3/4   | 9/16  | 5/8 | —    |
| 32302       | 10-32 x 1              | 1     | 21/32 | 5/8 | 5/16 |
| 32304       | 1/4-20 x 1             | 1     | 21/32 | 5/8 | 5/16 |
| 32334       | 5/16-18 x 1            | 1     | 21/32 | 5/8 | 5/16 |
| 32306       | 1/4-20 x 1             | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32307       | 1/4-20 x 2             | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32331       | 5/16-18 x 1            | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32309       | 5/16-18 x 2            | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32332       | 3/8-16 x 1             | 1 3/8 | 25/32 | 3/4 | 3/8  |
| 32333       | 5/16-18 x 1            | 1 7/8 | 1     | 1   | 1/2  |
| 32313       | 3/8-16 x 1             | 1 7/8 | 1     | 1   | 1/2  |



## Plastic Fluted Knob



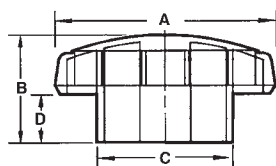
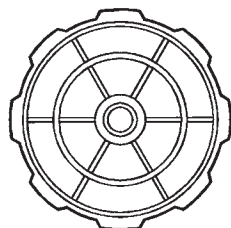
- Material: Plastic
- Finish: Tumble
- Insert Threads: Brass
- Bushing: Brass
- Stud Threads: Zinc Plated Steel
- For heavy torque applications, clamping devices, adjusting rods
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



| Part Number | Insert Thread and Depth | Stud Thread and Length | A     | B      | C      | D     |
|-------------|-------------------------|------------------------|-------|--------|--------|-------|
| 32320       | 1/4-20 x 7/16           | —                      | 1 3/8 | 27/32  | 27/32  | 25/64 |
| 32340       | —                       | 1/4-20 x 1             | 1 3/8 | 27/32  | 27/32  | 25/64 |
| 32321       | 5/16-18 x 7/16          | —                      | 1 3/8 | 27/32  | 27/32  | 25/64 |
| 32341       | —                       | 5/16-18 x 1            | 1 3/8 | 27/32  | 27/32  | 25/64 |
| 32342       | —                       | 3/8-16 x 1             | 1 3/8 | 27/32  | 27/32  | 25/64 |
| 32343       | —                       | 1/4-20 x 1             | 1 3/4 | 1 1/16 | 1 1/16 | 1/2   |
| 32322       | 5/16-18 x 7/16          | —                      | 1 3/4 | 1 1/16 | 1 1/16 | 1/2   |
| 32344       | —                       | 5/16-18 x 1            | 1 3/4 | 1 1/16 | 1 1/16 | 1/2   |
| 32323       | 3/8-16 x 1/2            | —                      | 1 3/4 | 1 1/16 | 1 1/16 | 1/2   |
| 32345       | —                       | 3/8-16 x 1             | 1 3/4 | 1 1/16 | 1 1/16 | 1/2   |
| 32346       | 1/4-20 x 7/16           | —                      | 1 3/4 | 1 1/16 | 1 1/16 | 1/2   |
| 32316       | 3/8-16 x 1/2            | —                      | 2 3/8 | 1 5/16 | 1 1/4  | 5/8   |
| 32347       | 5/16-18 x 7/16          | —                      | 2 3/8 | 1 5/16 | 1 1/4  | 5/8   |
| 32317       | —                       | 3/8-16 x 1             | 2 3/8 | 1 5/16 | 1 1/4  | 5/8   |
| 32318       | —                       | 3/8-16 x 2             | 2 3/8 | 1 5/16 | 1 1/4  | 5/8   |
| 32348       | —                       | 5/16-18 x 1            | 2 3/8 | 1 5/16 | 1 1/4  | 5/8   |
| 32319       | Bushing*                | —                      | 2 3/8 | 1 5/16 | 1 1/4  | 5/8   |

\*.377 I.D. x 1/2" O.D. x 1/2" deep plain brass bushing, drilled and tapped for one #10-32 set screw.

## Thermoplastic Fluted Knob

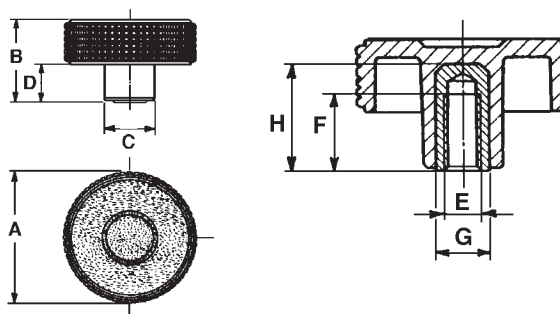


- Material: Thermoplastic
- Finish: Black Matte
- Insert: Brass
- Textured surface resists scratches, nicks, and fingerprints
- Also available in red, blue, yellow, and green
- A standard 1" stud is available, other lengths available upon request.

| Part Number | A     | B     | C | D   | Insert        |
|-------------|-------|-------|---|-----|---------------|
| 32350       | 3 1/4 | 1 3/8 | 2 | 3/4 | 1/4-20 x 5/8  |
| 32351       | 3 1/4 | 1 3/8 | 2 | 3/4 | 5/16-18 x 3/4 |
| 32352       | 3 1/4 | 1 3/8 | 2 | 3/4 | 3/8-16 x 7/8  |



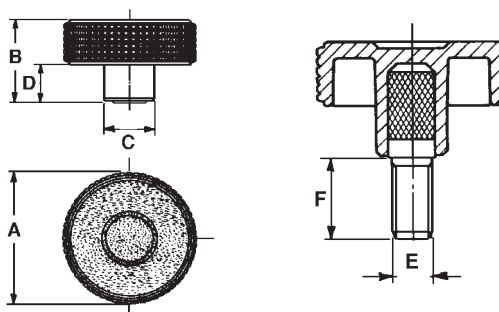
## Plastic Knurled Knob ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Brass Insert with tapped or plain blind hole
- Knobs with plain blind hole complete with set screw
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C   | D   | E       | Set Screw | F   | G   | H    |
|-------------|------|------|-----|-----|---------|-----------|-----|-----|------|
| 33801       | 1.22 | .87  | .59 | .35 | 1/4-20  | —         | .47 | —   | —    |
| 33802       | 1.57 | .94  | .67 | .43 | 1/4     | 10-32     | .55 | .47 | .67  |
| 33803       | 1.57 | .94  | .67 | .43 | 1/4-20  | —         | .47 | —   | —    |
| 33804       | 1.57 | .94  | .67 | .43 | 5/16-18 | —         | .51 | —   | —    |
| 33805       | 1.97 | 1.18 | .79 | .53 | 3/8     | 10-32     | .79 | .63 | .98  |
| 33806       | 1.97 | 1.18 | .79 | .53 | 5/16-18 | —         | .70 | —   | —    |
| 33807       | 1.97 | 1.18 | .79 | .53 | 3/8-16  | —         | .67 | —   | —    |
| 33808       | 2.36 | 1.38 | .91 | .59 | 3/8     | 1/4-20    | .79 | .63 | 1.18 |
| 33809       | 2.36 | 1.38 | .91 | .59 | 3/8-16  | —         | .79 | —   | —    |
| 33810       | 2.36 | 1.38 | .91 | .59 | 1/2-13  | —         | .79 | —   | —    |

## Plastic Knurled Knob With Stud ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Stud: Zinc Plated Steel with chamfered flat end
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

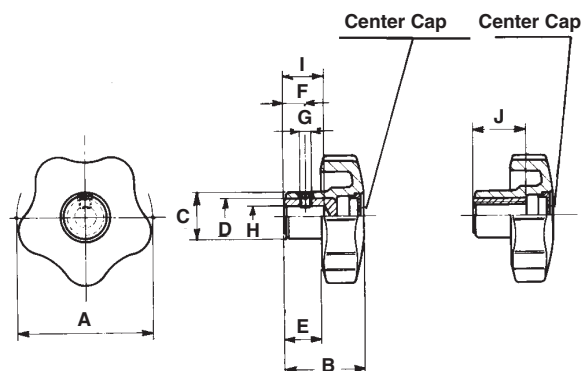
| Part Number | A    | B    | C   | D   | E       | F    |
|-------------|------|------|-----|-----|---------|------|
| 33811       | 1.22 | .87  | .59 | .35 | 1/4-20  | .500 |
| 33812       | 1.22 | .87  | .59 | .35 | 1/4-20  | .750 |
| 33813       | 1.57 | .94  | .67 | .43 | 1/4-20  | .750 |
| 33814       | 1.57 | .94  | .67 | .43 | 1/4-20  | 1.00 |
| 33815       | 1.57 | .94  | .67 | .43 | 5/16-18 | .750 |
| 33816       | 1.57 | .94  | .67 | .43 | 5/16-18 | 1.00 |
| 33817       | 1.97 | 1.18 | .79 | .53 | 3/8-16  | 1.00 |
| 33818       | 1.97 | 1.18 | .79 | .53 | 3/8-16  | 1.25 |
| 33819       | 2.36 | 1.38 | .91 | .59 | 3/8-16  | 1.00 |
| 33820       | 2.36 | 1.38 | .91 | .59 | 3/8-16  | 1.25 |



## Plastic Lobe Knob ELESA Original Design



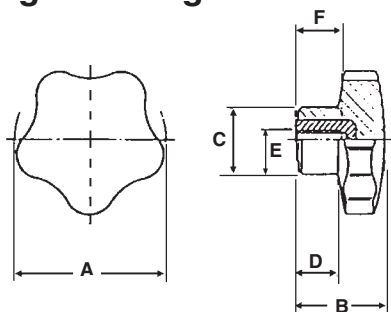
- Material: High Impact Strength Technopolymer
- Finish: Black
- Insert: Brass with tapped or plain blind hole
- Knobs with plain blind hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A    | B    | C    | D    | E    | F    | Set Screw G | Mounting Holes (H) |         | I    | J    |
|-------------|------|------|------|------|------|------|-------------|--------------------|---------|------|------|
|             |      |      |      |      |      |      |             | Plain              | Tapped  |      |      |
| 33840       | 0.98 | 0.75 | 0.51 | 0.28 | 0.31 | —    | —           | —                  | 10-32   | —    | 0.39 |
| 33841       | 1.26 | 0.91 | 0.59 | —    | 0.39 | —    | —           | —                  | 1/4-20  | —    | 0.47 |
| 33842       | 1.26 | 0.91 | 0.59 | 0.47 | 0.39 | 0.2  | 10-32       | 1/4                | —       | —    | 0.47 |
| 33843       | 1.57 | 1.06 | 0.67 | —    | 0.47 | —    | —           | —                  | 1/4-20  | —    | 0.71 |
| 33844       | 1.57 | 1.06 | 0.67 | —    | 0.47 | —    | —           | —                  | 5/16-18 | —    | 0.71 |
| 33845       | 1.57 | 1.06 | 0.67 | 0.47 | 0.47 | 0.24 | 10-32       | 1/4                | —       | 0.55 | —    |
| 33846       | 1.57 | 1.06 | 0.67 | 0.55 | 0.47 | 0.24 | 10-32       | 5/16               | —       | 0.59 | —    |
| 33847       | 1.97 | 1.26 | 0.75 | —    | 0.55 | —    | —           | —                  | 5/16-18 | —    | 0.79 |
| 33848       | 1.97 | 1.26 | 0.75 | —    | 0.55 | —    | —           | —                  | 3/8-16  | —    | 0.79 |
| 33849       | 1.97 | 1.26 | 0.75 | 0.55 | 0.55 | 0.28 | 10-32       | 5/16               | —       | 0.63 | —    |
| 33850       | 1.97 | 1.26 | 0.75 | 0.63 | 0.55 | 0.28 | 10-32       | 3/8                | —       | 0.63 | —    |
| 33851       | 2.48 | 1.46 | 0.87 | —    | 0.63 | —    | —           | —                  | 3/8-16  | —    | 1.02 |
| 33852       | 2.48 | 1.46 | 0.87 | —    | 0.63 | —    | —           | —                  | 1/2-13  | —    | 1.02 |
| 33853*      | 2.48 | 1.46 | 0.87 | 0.67 | 0.63 | 0.31 | 1/4-20      | 3/8                | —       | 0.79 | —    |
| 33854*      | 2.48 | 1.46 | 0.87 | 0.75 | 0.63 | 0.31 | 1/4-20      | 1/2                | —       | 0.79 | —    |
| 33855       | 2.91 | 1.71 | 1.02 | 0.75 | 0.87 | 0.31 | 1/4-20      | 1/2                | —       | 0.79 | —    |
| 33856       | 2.91 | 1.71 | 1.02 | —    | 0.87 | —    | —           | —                  | 1/2-13  | —    | 1.02 |

\*Steel Insert

## Plastic Lobe Knob Metric Elesa Original Design



- Material: Duroplast
- Finish: Black Matte
- Insert: Stainless Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

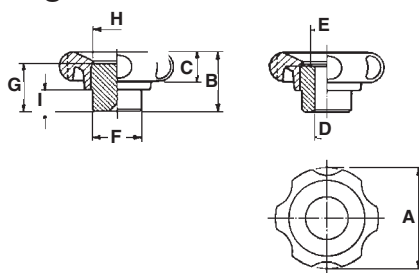
| Part Number* | A  | B  | C  | D  | E   | F  |
|--------------|----|----|----|----|-----|----|
| 34121        | 32 | 23 | 19 | 11 | M6  | 12 |
| 34122        | 40 | 27 | 21 | 12 | M8  | 13 |
| 34123        | 50 | 33 | 25 | 14 | M10 | 17 |
| 34124        | 60 | 37 | 27 | 17 | M12 | 20 |

\*Dimensions in millimeters



## Plastic Lobe Knob

### ELESA Original Design



- Material: Black Duroplast
- Finish: Black Bright
- Metal Hub
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

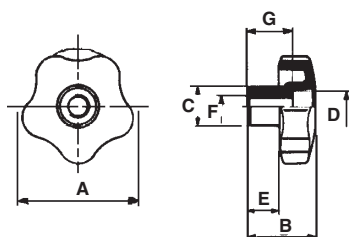
| Part Number | A    | B    | C   | D       | E   | F    | G    | H    | I   |
|-------------|------|------|-----|---------|-----|------|------|------|-----|
| 33751       | 2.01 | 1.14 | .51 | Blank   | —   | .79  | .83  | .71  | .39 |
| 33752       | 2.01 | 1.14 | .51 | 5/16    | —   | .79  | .83  | .71  | .39 |
| 33753       | 2.01 | 1.14 | .51 | 5/16-18 | —   | .79  | .83  | .71  | .39 |
| 33755       | 2.72 | 1.30 | .71 | 3/8     | .71 | 1.18 | .98  | 1.10 | .47 |
| 33756       | 2.72 | 1.30 | .71 | 3/8-16  | .71 | 1.18 | .98  | 1.10 | .47 |
| 33758       | 3.23 | 1.57 | .75 | 1/2     | .71 | 1.38 | 1.18 | 1.34 | .59 |
| 33759       | 3.23 | 1.57 | .75 | 1/2-13  | .71 | 1.38 | 1.18 | 1.34 | .59 |
| 33760       | 3.90 | 1.73 | .79 | Blank   | —   | 1.42 | 1.34 | 1.34 | .55 |
| 33761       | 3.90 | 1.73 | .79 | 1/2     | .84 | 1.42 | 1.34 | 1.34 | .55 |
| 33762       | 3.90 | 1.73 | .79 | 5/8-11  | .84 | 1.42 | 1.34 | 1.34 | .55 |
| 33763       | 5.07 | 1.85 | .87 | Blank   | —   | 1.57 | 1.34 | 1.42 | .51 |
| 33764       | 5.07 | 1.85 | .87 | 1/2     | —   | 1.57 | 1.34 | 1.46 | .51 |

## Plastic Lobe Knob

### ELESA Original Design



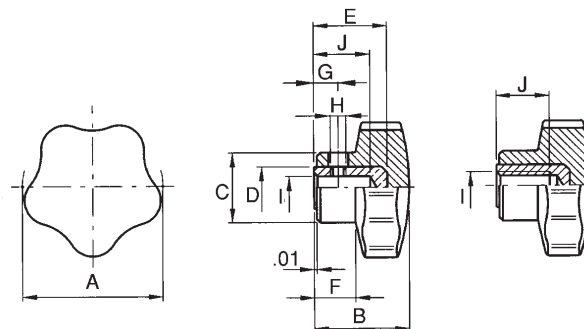
- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Insert: Brass with tapped through hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A    | B    | C    | D    | E    | F       | G    |
|-------------|------|------|------|------|------|---------|------|
| 33831       | 1.26 | 0.91 | 0.59 | 0.39 | 0.39 | 1/4-20  | 0.47 |
| 33832       | 1.57 | 1.06 | 0.67 | 0.47 | 0.47 | 5/16-18 | 0.71 |
| 33833       | 1.97 | 1.26 | 0.75 | 0.59 | 0.55 | 3/8-16  | 0.79 |
| 33834       | 2.48 | 1.46 | 0.87 | 0.75 | 0.63 | 3/8-16  | 1.02 |
| 33835       | 2.48 | 1.46 | 0.87 | 0.75 | 0.63 | 1/2-13  | 1.02 |
| 33836       | 2.91 | 1.17 | 1.02 | 0.67 | 0.87 | 1/2-13  | 1.02 |



## Plastic Lobe Knob ELESA Original Design

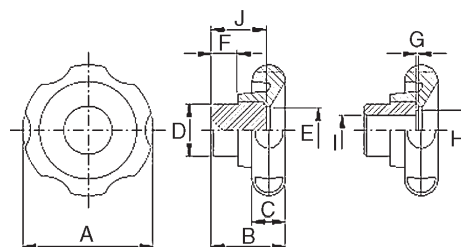


- Material:  
Phenolic based  
Duroplast
- Insert:  
Black oxide steel  
or Brass

| Part Number | A    | B    | C    | D    | E    | F    | Set Screw |        | Mounting Hole (I) |         | J    | Wt. lbs. |
|-------------|------|------|------|------|------|------|-----------|--------|-------------------|---------|------|----------|
|             |      |      |      |      |      |      | G         | H      | Plain             | Tapped  |      |          |
| 33884*      | 1.26 | 0.91 | 0.75 | —    | —    | 0.43 | —         | —      | —                 | 1/4-20  | 0.39 | 0.04     |
| 33885*      | 1.57 | 1.06 | 0.83 | —    | —    | 0.47 | —         | —      | —                 | 1/4-20  | 0.47 | 0.07     |
| 33886*      | 1.57 | 1.06 | 0.83 | —    | —    | 0.47 | —         | —      | —                 | 5/16-18 | 0.51 | 0.06     |
| 33887*      | 1.57 | 1.06 | 0.83 | 0.47 | 0.67 | 0.47 | 0.28      | 10-32  | 0.250             | —       | 0.55 | 0.07     |
| 33888*      | 1.57 | 1.06 | 0.83 | 0.63 | 0.79 | 0.47 | 0.28      | 10-32  | 0.312             | —       | 0.63 | 0.06     |
| 33889*      | 1.97 | 1.3  | 0.98 | —    | —    | 0.55 | —         | —      | —                 | 5/16-18 | 0.71 | 0.11     |
| 33890*      | 1.97 | 1.3  | 0.98 | —    | —    | 0.55 | —         | —      | —                 | 3/8-16  | 0.67 | 0.10     |
| 33891*      | 1.97 | 1.3  | 0.98 | 0.59 | 0.99 | 0.55 | 0.31      | 10-32  | 0.312             | —       | 0.79 | 0.14     |
| 33892*      | 1.97 | 1.3  | 0.98 | 0.63 | 0.99 | 0.55 | 0.31      | 10-32  | 0.375             | —       | 0.79 | 0.13     |
| 33893       | 2.36 | 1.46 | 1.06 | —    | —    | 0.67 | —         | —      | —                 | 3/8-16  | 0.67 | 0.16     |
| 33894       | 2.36 | 1.46 | 1.06 | —    | —    | 0.67 | —         | —      | —                 | 1/2-13  | 0.79 | 0.17     |
| 33895       | 2.36 | 1.46 | 1.06 | 0.67 | 1.02 | 0.67 | 0.35      | 1/4-20 | 0.375             | —       | 0.79 | 0.21     |
| 33896       | 2.36 | 1.46 | 1.06 | 0.79 | 1.18 | 0.67 | 0.35      | 1/4-20 | 0.500             | —       | 0.99 | 0.19     |
| 33897       | 2.75 | 1.73 | 1.18 | —    | —    | 0.79 | —         | —      | —                 | 1/2-13  | 0.79 | 0.26     |
| 33898       | 2.75 | 1.73 | 1.18 | 0.79 | 1.18 | 0.79 | 0.43      | 1/4-20 | 0.500             | —       | 0.99 | 0.27     |
| 33899       | 3.34 | 2.16 | 1.37 | —    | —    | 1.18 | —         | —      | —                 | 5/8-11  | 0.86 | 0.38     |

\*denotes brass insert.

## Plastic Lobe Knob ELESA Original Design



- Materials: Glass reinforced polyamide based technopolymer
- Finish: Black glossy
- Black-oxide steel hub
- Lighter Design
- With plain or tapped hole

1. Not drilled
2. Plain through hole
3. Tapped through hole

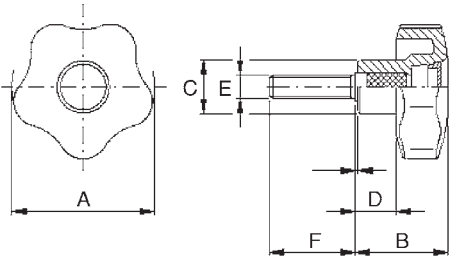
| Part Number        | A    | B    | C    | D    | E    | F    | G    | H    | Mounting Holes (I) |         | J    | Wt. lbs. |
|--------------------|------|------|------|------|------|------|------|------|--------------------|---------|------|----------|
|                    |      |      |      |      |      |      |      |      | Plain              | Tapped  |      |          |
| 34000 <sup>1</sup> | 1.97 | 1.14 | 0.51 | 0.79 | 0.71 | 0.39 | —    | —    | —                  | —       | 0.83 | 0.16     |
| 34001 <sup>2</sup> | 1.97 | 1.14 | 0.51 | 0.79 | 0.71 | 0.39 | —    | —    | 0.312              | —       | 0.83 | 0.14     |
| 34002 <sup>3</sup> | 1.97 | 1.14 | 0.51 | 0.79 | 0.71 | 0.39 | —    | —    | —                  | 5/16-18 | 0.83 | 0.15     |
| 34003 <sup>1</sup> | 2.40 | 1.18 | 0.53 | 0.98 | 0.94 | 0.43 | —    | —    | —                  | —       | 0.91 | 0.28     |
| 34004 <sup>1</sup> | 2.76 | 1.30 | 0.71 | 1.18 | 1.14 | 0.47 | —    | —    | —                  | —       | 0.98 | 0.42     |
| 34005 <sup>2</sup> | 2.76 | 1.30 | 0.71 | 1.18 | 1.14 | 0.47 | 0.03 | 0.71 | 0.375              | —       | 0.98 | 0.37     |
| 34006 <sup>3</sup> | 2.76 | 1.30 | 0.71 | 1.18 | 1.14 | 0.47 | 0.03 | 0.71 | —                  | 3/8-16  | 0.98 | 0.39     |
| 34007 <sup>1</sup> | 3.15 | 1.57 | 0.75 | 1.38 | 1.34 | 0.59 | —    | —    | —                  | —       | 1.18 | 0.66     |
| 34008 <sup>2</sup> | 3.15 | 1.57 | 0.75 | 1.38 | 1.34 | 0.59 | 0.03 | 0.71 | 0.500              | —       | 1.18 | 0.61     |
| 34009 <sup>3</sup> | 3.15 | 1.57 | 0.75 | 1.38 | 1.34 | 0.59 | 0.03 | 0.71 | —                  | 1/2-13  | 1.18 | 0.62     |



## Plastic Lobe Knob With Stud ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Stud: Zinc Plated Steel with Chamfered Flat End
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

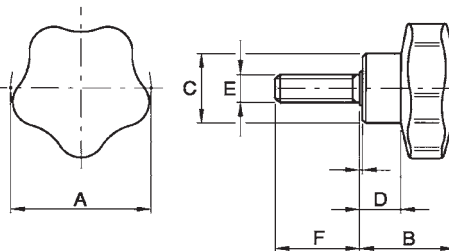


| Part Number | A    | B    | C    | D    | E       | F     |
|-------------|------|------|------|------|---------|-------|
| 33859       | 0.98 | 0.75 | 0.51 | 0.31 | 10-32   | 0.500 |
| 33860       | 0.98 | 0.75 | 0.51 | 0.31 | 10-32   | 0.750 |
| 33861       | 1.26 | 0.91 | 0.59 | 0.39 | 1/4-20  | 0.500 |
| 33862       | 1.26 | 0.91 | 0.59 | 0.39 | 1/4-20  | 0.750 |
| 33863       | 1.26 | 0.91 | 0.59 | 0.39 | 1/4-20  | 1.000 |
| 33864       | 1.57 | 1.06 | 0.67 | 0.47 | 1/4-20  | 0.500 |
| 33865       | 1.57 | 1.06 | 0.67 | 0.47 | 1/4-20  | 1.000 |
| 33866       | 1.57 | 1.06 | 0.67 | 0.47 | 5/16-18 | 0.750 |
| 33867       | 1.57 | 1.06 | 0.67 | 0.47 | 5/16-18 | 1.000 |
| 33868       | 1.97 | 1.26 | 0.75 | 0.55 | 5/16-18 | 1.000 |
| 33869       | 1.97 | 1.26 | 0.75 | 0.55 | 5/16-18 | 1.500 |
| 33870       | 1.97 | 1.26 | 0.75 | 0.55 | 3/8-16  | 1.000 |
| 33871       | 1.97 | 1.26 | 0.75 | 0.55 | 3/8-16  | 1.500 |
| 33872       | 2.48 | 1.46 | 0.87 | 0.63 | 3/8-16  | 1.250 |
| 33873       | 2.48 | 1.46 | 0.87 | 0.63 | 3/8-16  | 2.000 |
| 33874       | 2.48 | 1.46 | 0.87 | 0.63 | 1/2-13  | 1.500 |
| 33877       | 2.91 | 1.71 | 1.02 | 0.87 | 1/2-13  | 1.250 |
| 33878       | 2.91 | 1.71 | 1.02 | 0.87 | 1/2-13  | 2.000 |

## Plastic Lobe Knob With Stainless Steel Stud ELESA Original Design



- Material: Duroplast
- Finish: Black Matte
- Stud: Stainless Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents



| Part Number | A    | B    | C   | D   | E       | F    |
|-------------|------|------|-----|-----|---------|------|
| 34181       | 1.26 | .91  | .75 | .43 | 1/4-20  | .500 |
| 34182       | 1.26 | .91  | .75 | .43 | 1/4-20  | .750 |
| 34183       | 1.26 | .91  | .75 | .43 | 1/4-20  | 1.00 |
| 34184       | 1.57 | 1.06 | .83 | .47 | 5/16-18 | .750 |
| 34185       | 1.57 | 1.06 | .83 | .47 | 5/16-18 | 1.00 |
| 34186       | 1.57 | 1.06 | .83 | .47 | 5/16-18 | 1.25 |
| 34187       | 1.97 | 1.30 | .98 | .55 | 3/8-16  | 1.00 |
| 34188       | 1.97 | 1.30 | .98 | .55 | 3/8-16  | 1.25 |
| 34189       | 1.97 | 1.30 | .98 | .55 | 3/8-16  | 1.50 |
| 34190       | 1.97 | 1.30 | .98 | .55 | 3/8-16  | 2.00 |

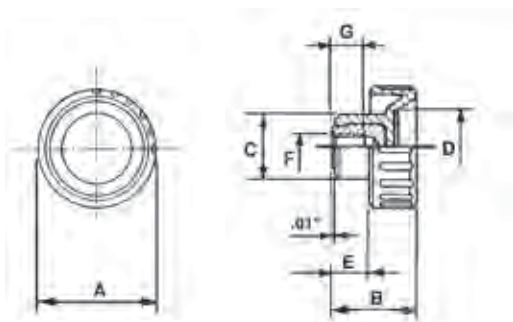
### Metric

| Part Number* | A  | B  | C  | D  | E   | F  |
|--------------|----|----|----|----|-----|----|
| 34131        | 32 | 23 | 19 | 11 | M6  | 16 |
| 34132        | 40 | 27 | 21 | 12 | M8  | 20 |
| 34133        | 40 | 27 | 21 | 12 | M8  | 30 |
| 34134        | 50 | 33 | 25 | 14 | M10 | 20 |
| 34135        | 50 | 33 | 25 | 14 | M10 | 40 |
| 34136        | 60 | 37 | 27 | 17 | M12 | 30 |

\*Dimensions in millimeters



## Plastic Fluted Grip Knob ELESA Original Design



- Material: High Strength Technopolymer
- Finish: Black Matte
- Insert: Brass with tapped blind hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

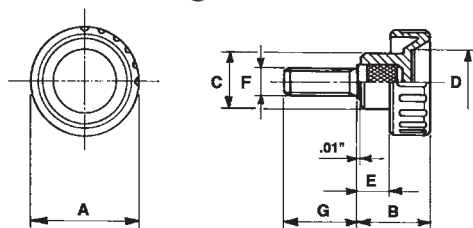
| Part Number | A    | B   | C   | D   | E   | F       | G   |
|-------------|------|-----|-----|-----|-----|---------|-----|
| 34200       | .79  | .63 | .47 | .43 | .24 | 8-32    | .24 |
| 34201       | .79  | .63 | .47 | .43 | .24 | 10-32   | .24 |
| 34202       | .98  | .75 | .63 | .59 | .31 | 10-32   | .39 |
| 34203       | .98  | .75 | .63 | .59 | .31 | 1/4-20  | .31 |
| 34204       | 1.26 | .87 | .67 | .83 | .35 | 1/4-20  | .39 |
| 34205       | 1.26 | .87 | .67 | .83 | .35 | 5/16-18 | .39 |

### Metric

| Part Number* | A  | B  | C  | D  | E | F  | G  |
|--------------|----|----|----|----|---|----|----|
| 34260        | 16 | 13 | 11 | 9  | 5 | M4 | 6  |
| 34261        | 20 | 16 | 12 | 11 | 6 | M5 | 6  |
| 34262        | 25 | 19 | 16 | 15 | 8 | M6 | 8  |
| 34263        | 32 | 22 | 17 | 21 | 9 | M8 | 10 |

\*Dimensions in millimeters

## Plastic Fluted Grip Knob With Stud ELESA Original Design



- Material: High Impact Strength Technopolymer
- Finish: Black Matte
- Zinc-Plated Steel Stud With Chamfered Flat End
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C    | D    | E    | F       | G     |
|-------------|------|------|------|------|------|---------|-------|
| 34210       | 0.63 | 0.51 | 0.43 | 0.35 | 0.2  | 8-32    | 0.375 |
| 34211       | 0.63 | 0.51 | 0.43 | 0.35 | 0.2  | 8-32    | 0.500 |
| 34212       | 0.79 | 0.63 | 0.47 | 0.43 | 0.24 | 8-32    | 0.500 |
| 34213       | 0.79 | 0.63 | 0.47 | 0.43 | 0.24 | 8-32    | 0.750 |
| 34214       | 0.79 | 0.63 | 0.47 | 0.43 | 0.24 | 10-32   | 0.500 |
| 34215       | 0.79 | 0.63 | 0.47 | 0.43 | 0.24 | 10-32   | 0.750 |
| 34216       | 0.98 | 0.75 | 0.63 | 0.59 | 0.31 | 1/4-20  | 0.500 |
| 34217       | 0.98 | 0.75 | 0.63 | 0.59 | 0.31 | 1/4-20  | 0.750 |
| 34218       | 0.98 | 0.75 | 0.63 | 0.59 | 0.31 | 1/4-20  | 1.000 |
| 34219       | 1.26 | 0.87 | 0.67 | 0.83 | 0.35 | 5/16-18 | 0.750 |
| 34220       | 1.26 | 0.87 | 0.67 | 0.83 | 0.35 | 5/16-18 | 1.000 |
| 34221       | 1.57 | 1.06 | 0.75 | 0.98 | 0.51 | 3/8-16  | 1.000 |
| 34222       | 1.97 | 1.12 | 0.87 | 1.22 | 0.53 | 3/8-16  | 1.000 |

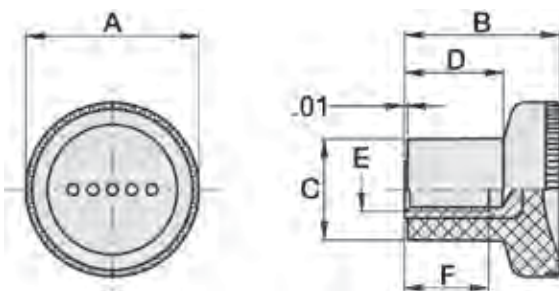
### Metric

| Part Number* | A  | B  | C  | D  | E | F   | G  |
|--------------|----|----|----|----|---|-----|----|
| 34250        | 16 | 13 | 11 | 9  | 5 | M4  | 10 |
| 34251        | 16 | 13 | 11 | 9  | 5 | M5  | 10 |
| 34252        | 20 | 16 | 12 | 11 | 6 | M5  | 16 |
| 34253        | 20 | 16 | 12 | 11 | 6 | M6  | 16 |
| 34254        | 25 | 19 | 16 | 15 | 8 | M6  | 16 |
| 34255        | 25 | 19 | 16 | 15 | 8 | M8  | 16 |
| 34256        | 32 | 22 | 17 | 21 | 9 | M8  | 16 |
| 34257        | 32 | 22 | 17 | 21 | 9 | M10 | 20 |

\*Dimensions in millimeters



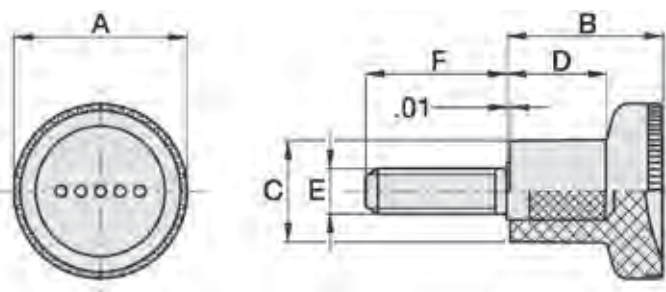
## Knurled Knob ELESA Original Design



- Material: High Strength Technopolymer
- Finish: Gray/Black Matte
- Insert: Brass With Tapped Blind Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Concave surface makes gripping easier.

| Part Number | A    | B    | C    | D    | E       | F    |
|-------------|------|------|------|------|---------|------|
| 34490       | 0.83 | 0.71 | 0.49 | 0.41 | 10-32   | 0.39 |
| 34491       | 0.98 | 0.89 | 0.57 | 0.55 | 1/4-20  | 0.47 |
| 34492       | 1.22 | 1.06 | 0.73 | 0.67 | 5/16-18 | 0.63 |

## Knurled Knob With Stud ELESA Original Design

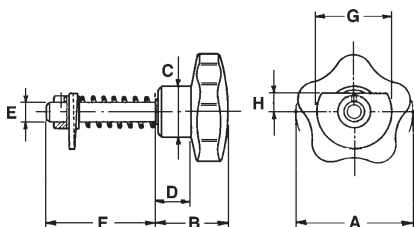


- Material: High Strength Technopolymer
- Finish: Gray/Black Matte
- Stud: Zinc Plated Threaded Steel With Chamfered End
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Concave surface makes gripping easier.

| Part Number | A    | B    | C   | D   | E       | F    |
|-------------|------|------|-----|-----|---------|------|
| 34493       | .83  | .71  | .49 | .41 | 10-32   | .750 |
| 34494       | .98  | .89  | .57 | .55 | 1/4-20  | .750 |
| 34495       | 1.22 | 1.06 | .73 | .67 | 5/16-18 | .750 |



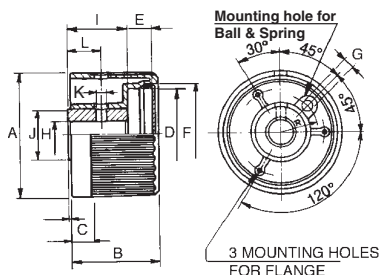
## Plastic Latch Type Lobe Knob ELESA Original Design



- Material: Black Duroplast
- Finish: Black Bright
- Stud: Zinc Plated Steel
- Resistant to Solvents, Oils, Greases, and other Chemical Agents
- Available in Stainless Steel with left or right swing style

| Part Number | A    | B    | C    | D   | E   | F    | G    | H   | Swing Style |
|-------------|------|------|------|-----|-----|------|------|-----|-------------|
| 33881       | 1.97 | 1.30 | .98  | .55 | .47 | 1.81 | 1.77 | .47 | Left        |
| 33882       | 2.36 | 1.46 | 1.06 | .67 | .47 | 1.81 | 1.77 | .47 | Right       |

## Plastic Knurled Grip Knob ELESA Original Design

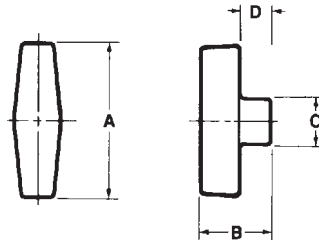


- Material: Glass-Fibre Reinforced Technopolymer
- Finish: Black Bright
- Black Oxide Steel Insert
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C   | D    | E   | F    | G   | H    | I    | J    | K   | L   |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|-----|-----|
| 33741       | 1.89 | 1.38 | .31 | 1.26 | .39 | 1.34 | .13 | .375 | .87  | .87  | .16 | .55 |
| 33742       | 2.05 | 1.54 | .35 | 1.46 | .51 | 1.54 | .17 | .500 | .87  | .87  | .16 | .55 |
| 33743       | 2.28 | 1.61 | .39 | 1.65 | .43 | 1.73 | .20 | .500 | 1.06 | 1.02 | .20 | .63 |
| 33744       | 2.48 | 1.73 | .43 | 1.89 | .39 | 1.97 | .24 | .500 | 1.18 | 1.02 | .20 | .63 |

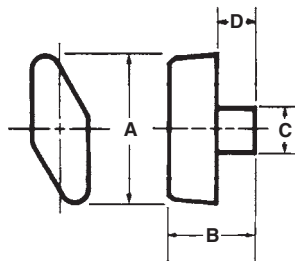


## Plastic T-Handle

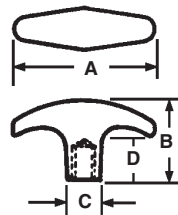


- Material: Polypropylene
- Finish: Tumble
- Insert: Metal
- Also Available With Stud
- Ideal For High Torque Applications
- Textured Grip

| Part Number | A     | B     | C   | D   | Insert        |
|-------------|-------|-------|-----|-----|---------------|
| 32126       | 2 1/2 | 1 1/4 | 3/4 | 5/8 | 5/16-18 x 3/4 |



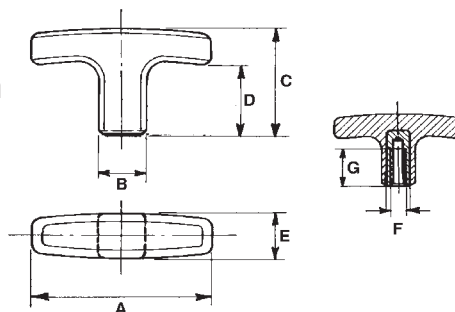
| Part Number | A | B     | C   | D   | Insert        |
|-------------|---|-------|-----|-----|---------------|
| 32121       | 2 | 1 1/8 | 5/8 | 1/2 | 5/16-18 x 5/8 |



- Material: Plastic
- Finish: Tumble
- For heavy-duty clamping and push/pull applications; latch release with pull cables or rods; also for cabinet doors, access panel latches, etc.

| Part Number | Insert Thread and Depth | A     | B     | C    | D     |
|-------------|-------------------------|-------|-------|------|-------|
| 32115       | 5/16-18 x 7/16          | 2 1/4 | 1 1/4 | 9/16 | 11/16 |
| 32116       | 1/4-20 x 7/16           | 2 1/4 | 1 1/4 | 9/16 | 11/16 |

## Plastic T-Handle ELESA Original Design



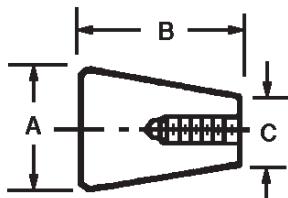
- Material: Glass-Fibre Reinforced Technopolymer
- Finish: Black Matte
- Insert: Brass With Tapped Blind Hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C    | D    | E    | F       | G    | Ft.* lbs. |
|-------------|------|------|------|------|------|---------|------|-----------|
| 33711       | 1.57 | 0.51 | 1.18 | 0.79 | 0.51 | 1/4-20  | 0.63 | 560       |
| 33712       | 2.17 | 0.55 | 1.3  | 0.87 | 0.55 | 1/4-20  | 0.71 | 739       |
| 33713       | 2.64 | 0.63 | 1.46 | 0.98 | 0.63 | 5/16-18 | 0.79 | 1,008     |
| 33714       | 3.15 | 0.79 | 1.61 | 1.02 | 0.79 | 3/8-16  | 0.79 | 1,568     |
| 33715       | 3.66 | 0.83 | 1.77 | 1.12 | 0.83 | 1/2-13  | 0.79 | 1,795     |

\*Max. Tensile strength / Pull Force



## Plastic Tapered Knob

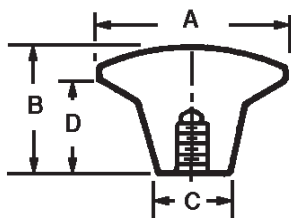


- Tapered shanks, enlarged heads provide good finger clearance and excellent grasp for pulling
- Popular Applications: push-pull rods, palm switch knobs, palm grasp knobs (for portable power tools), push buttons, drawer pulls, etc.

- Material: Plastic
- Finish: Tumble
- Insert: Brass
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

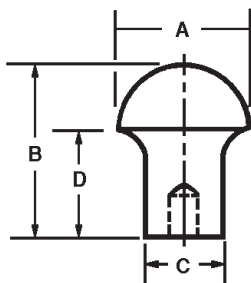
| Part Number | A | B     | C   | Insert Thread and Depth |
|-------------|---|-------|-----|-------------------------|
| 32213       | 1 | 1 1/4 | 1/2 | 1/4-20 x 7/16           |
| 32214       | 1 | 1 1/4 | 1/2 | 5/16-18 x 7/16          |

## Plastic Lift Knob



- Material: Plastic
- Finish: Tumble
- Insert: Brass
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A     | B   | C   | D   | Insert Thread and Depth |
|-------------|-------|-----|-----|-----|-------------------------|
| 32217       | 1 3/8 | 7/8 | 5/8 | 5/8 | 1/4-20 x 7/16           |



| Part Number | A | B      | C    | D     | Insert Thread and Depth |
|-------------|---|--------|------|-------|-------------------------|
| 32215       | 1 | 1 3/16 | 9/16 | 11/16 | 10-32 x 5/16            |
| 32216       | 1 | 1 3/16 | 9/16 | 11/16 | 1/4-20 x 7/16           |

**Jergens offers 3D models**

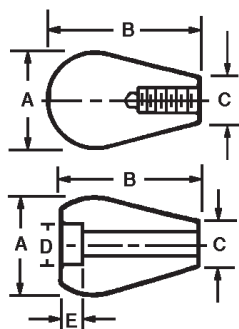
for all handles, knobs and handwheels  
at [www.jergensinc.com](http://www.jergensinc.com)



## Plastic Oval Tapered Knob



- Material: Polypropylene
- Finish: Tumble
- For shift levers, control levers, push/pull rods on machine tools, lawn and garden equipment, jigs and fixtures, and for finger tip levers or lid knobs.
- Available with either brass insert, tapped plastic thread, or untapped through hole.
- Sand and Buff Finish available upon request
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)



| Part Number | A      | B     | C    | D    | E    | Hole Diameter                           |
|-------------|--------|-------|------|------|------|-----------------------------------------|
| 32211*      | 1 3/16 | 1 7/8 | 9/16 | —    | —    | 5/16-18 x 3/4                           |
| 32218**     | 1 3/16 | 1 7/8 | 9/16 | —    | —    | 1/4-20 x 7/16                           |
| 32212       | 1 3/16 | 1 3/4 | 9/16 | 9/16 | 5/16 | .380/.385<br>through hole<br>(untapped) |
| 32219       | 1 3/16 | 1 3/4 | 9/16 | 9/16 | 5/16 | .313/.318<br>through hole<br>(untapped) |

\*Tapped plastic threads

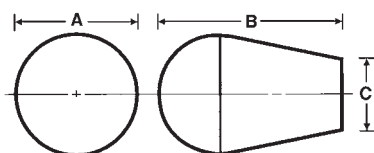
\*\*Brass insert

## Soft Touch Oval Tapered Knob



- Material: Soft Touch Plastic
- Finish: "Soft Feel" Black Matte
- Insert: Brass
- Cushioned vinyl covering helps to dampen vibrations
- Also available in red, blue, yellow, and green (250 piece minimum)

This Oval Tapered Knob has the original soft touch material that helps in gripping. It is designed with an enlarged head and tapered shaft for maximum push, pull, and turning.



| Part Number | A     | B     | C   | Hole Diameter |
|-------------|-------|-------|-----|---------------|
| 32150       | 1 5/8 | 2 1/2 | 7/8 | 5/16-18 x 5/8 |
| 32151       | 1 5/8 | 2 1/2 | 7/8 | 5/16          |
| 32152       | 1 5/8 | 2 1/2 | 7/8 | 3/8-16 x 5/8  |
| 32153       | 1 5/8 | 2 1/2 | 7/8 | 3/8           |

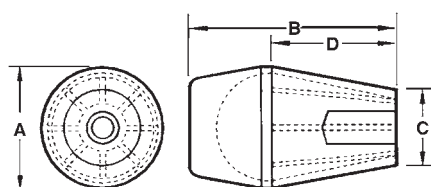


## Soft Touch Tapered Knob



- Material: Soft Touch Plastic
- Finish: Black Matte
- Insert: Brass
- Cushioned vinyl covering helps to dampen vibrations
- Also available in red, blue, yellow, and green (250 piece minimum)

This Oval Tapered Knob has the original soft touch material that helps in gripping. It is designed with an enlarged head and tapered shaft for maximum push, pull, and turning.

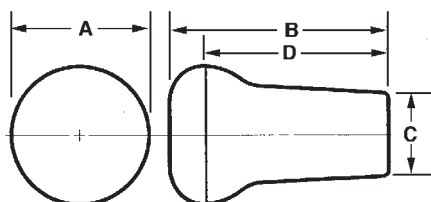


| Part Number  | A     | B     | C     | D     | Hole Diameter |
|--------------|-------|-------|-------|-------|---------------|
| <b>32160</b> | 1 1/2 | 2 1/2 | 15/16 | 1 1/2 | 1/4-20 x 5/8  |
| <b>32161</b> | 1 1/2 | 2 1/2 | 15/16 | 1 1/2 | 5/16-18 x 3/4 |
| <b>32162</b> | 1 1/2 | 2 1/2 | 15/16 | 1 1/2 | 3/8-16 x 5/8  |

## Soft Touch Tapered Knob



- Material: Soft Touch Plastic
- Finish: Black Matte
- Insert: Brass
- Cushioned vinyl covering helps to dampen vibrations
- Also available in red, blue, yellow, and green (250 piece minimum)
- A standard 1" stud is available, other lengths available upon request.



| Part Number   | A     | B     | C     | D     | Hole Diameter |
|---------------|-------|-------|-------|-------|---------------|
| <b>32180</b>  | 1 5/8 | 2 1/2 | 7/8   | 2 1/8 | 1/4-20 x 5/8  |
| <b>32181*</b> | 1 5/8 | 2 1/2 | 7/8   | 2 1/8 | 1/4 x 1       |
| <b>32182</b>  | 1 5/8 | 2 1/2 | 7/8   | 2 1/8 | 5/16-18 x 5/8 |
| <b>32183*</b> | 1 5/8 | 2 1/2 | 7/8   | 2 1/8 | 5/16 x 1      |
| <b>32184*</b> | 1 5/8 | 2 1/2 | 7/8   | 2 1/8 | 3/8 x 1       |
| <b>32170</b>  | 1 3/8 | 2 1/8 | 13/16 | 1 3/4 | 5/16-18 x 5/8 |
| <b>32171</b>  | 1 3/8 | 2 1/8 | 13/16 | 1 3/4 | 3/8-16 x 5/8  |
| <b>32172*</b> | 1 3/8 | 2 1/8 | 13/16 | 1 3/4 | 3/8 x 1       |
| <b>32173</b>  | 1 3/8 | 2 1/8 | 13/16 | 1 3/4 | 1/2-13 x 5/8  |
| <b>32174*</b> | 1 3/8 | 2 1/8 | 13/16 | 1 3/4 | 1/2 x 1       |

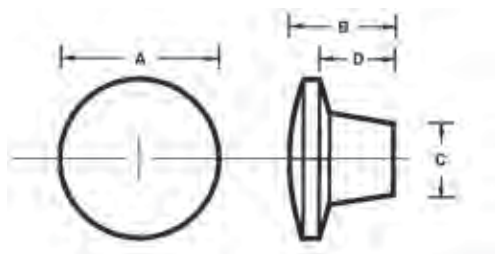
\*Cored Hole



## Plastic Push/Pull Knob

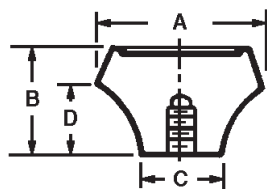


- Material: Thermoplastic
- Finish: Matte
- Insert: Brass
- Also available with stud



| Part Number | A     | B   | C   | D   | Insert  |
|-------------|-------|-----|-----|-----|---------|
| 32225       | 1 3/8 | 7/8 | 5/8 | 5/8 | 8-32    |
| 32226       | 1 3/8 | 7/8 | 5/8 | 5/8 | 10-32   |
| 32227       | 1 3/8 | 7/8 | 5/8 | 5/8 | 1/4-20  |
| 32228       | 1 3/8 | 7/8 | 5/8 | 5/8 | 5/16-18 |
| 32229       | 1 3/8 | 7/8 | 5/8 | 5/8 | 3/8-16  |

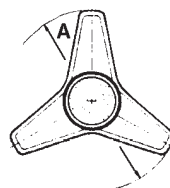
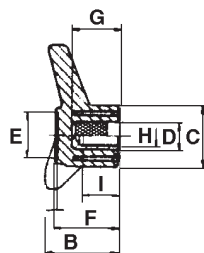
## Plastic Push/Pull Knob



- Material: Plastic
- Finish: Tumbled
- Insert: Brass
- 3D Solid Models are available in multiple formats from [www.jergensinc.com](http://www.jergensinc.com)

| Part Number | A | B     | C    | D     | Insert Thread and Depth |
|-------------|---|-------|------|-------|-------------------------|
| 32220       | 1 | 11/16 | 1/2  | 7/16  | 8-32 x 5/16             |
| 32221       | 1 | 11/16 | 1/2  | 7/16  | 10-32 x 5/16            |
| 32222       | 1 | 11/16 | 1/2  | 7/16  | 1/4-20 x 7/16           |
| 32223       | 1 | 15/16 | 9/16 | 11/16 | 10-32 x 7/16            |
| 32224       | 1 | 15/16 | 9/16 | 11/16 | 1/4-20 x 7/16           |

## Plastic Three-Spoked Knob ELESA Original Design



- Material: Glass-Fibre Reinforced Technopolymer
- Finish: Black Matte
- Brass Insert with tapped blind hole
- Insert: Brass or Steel with plain blind hole
- Resistant to Solvents, Oils, Greases, and other Chemical Agents

| Part Number | A    | B    | C    | D   | E   | F    | G    | H       | I   | Insert |
|-------------|------|------|------|-----|-----|------|------|---------|-----|--------|
| 33731       | 2.48 | 1.10 | 1.02 | —   | .70 | .98  | —    | 5/16-18 | .62 | Brass  |
| 33732       | 2.48 | 1.10 | 1.02 | .59 | .70 | .98  | .87  | 5/16    | .62 | Steel  |
| 33733       | 3.14 | 1.37 | 1.25 | —   | .82 | 1.18 | —    | 3/8-16  | .67 | Brass  |
| 33734       | 3.14 | 1.37 | 1.25 | .59 | .82 | 1.18 | .98  | 3/8     | .79 | Steel  |
| 33735       | 3.93 | 1.65 | 1.41 | —   | .98 | 1.41 | —    | 1/2-13  | .79 | Brass  |
| 33736       | 3.93 | 1.65 | 1.41 | .94 | .98 | 1.41 | 1.29 | 1/2     | .98 | Steel  |

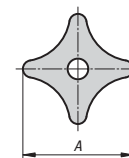
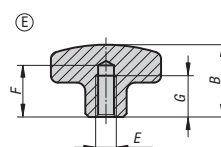
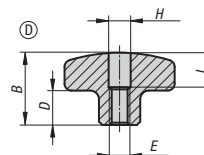
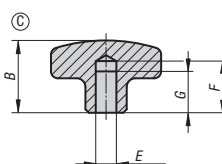
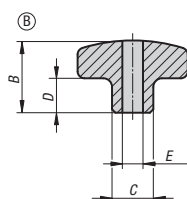


## Stainless Steel Palm Grips

*Inch*



- Material: Stainless Steel
- Finish: ground and polished



| Style | Part No. | A    | B    | C    | D    | E       | F    | G    | H    | I    |
|-------|----------|------|------|------|------|---------|------|------|------|------|
| B     | 40360    | 1.26 | 0.79 | 0.47 | 0.39 | 0.250   | -    | -    | -    | -    |
| B     | 40361    | 1.57 | 0.98 | 0.55 | 0.51 | 0.312   | -    | -    | -    | -    |
| B     | 40362    | 1.97 | 1.26 | 0.71 | 0.67 | 0.375   | -    | -    | -    | -    |
| B     | 40363    | 2.48 | 1.57 | 0.79 | 0.93 | 0.500   | -    | -    | -    | -    |
| C     | 40364    | 1.26 | 0.83 | 0.47 | 0.39 | 0.250   | 0.59 | 0.47 | -    | -    |
| C     | 40365    | 1.57 | 1.02 | 0.55 | 0.51 | 0.312   | 0.71 | 0.59 | -    | -    |
| C     | 40366    | 1.97 | 1.34 | 0.71 | 0.67 | 0.375   | 0.83 | 0.71 | -    | -    |
| C     | 40367    | 2.48 | 1.65 | 0.79 | 0.83 | 0.500   | 0.98 | 0.87 | -    | -    |
| D     | 40368    | 1.26 | 0.79 | 0.47 | 0.39 | 1/4-20  | -    | -    | 0.25 | 0.39 |
| D     | 40369    | 1.57 | 0.98 | 0.55 | 0.51 | 5/16-18 | -    | -    | 0.33 | 0.47 |
| D     | 40370    | 1.97 | 1.26 | 0.71 | 0.67 | 3/8-16  | -    | -    | 0.41 | 0.63 |
| D     | 40371    | 2.44 | 1.57 | 0.79 | 0.83 | 1/2-13  | -    | -    | 0.51 | 0.79 |
| E     | 40372    | 1.26 | 0.83 | 0.47 | 0.39 | 1/4-20  | 0.59 | 0.47 | -    | -    |
| E     | 40373    | 1.57 | 1.02 | 0.55 | 0.51 | 5/16-18 | 0.71 | 0.59 | -    | -    |
| E     | 40374    | 1.97 | 1.34 | 0.71 | 0.67 | 3/8-16  | 0.83 | 0.71 | -    | -    |
| E     | 40375    | 2.44 | 1.65 | 0.79 | 0.83 | 1/2-13  | 0.98 | 0.87 | -    | -    |

## Stainless Steel Palm Grips

*Metric*

| Style | Part No. | A  | B  | C  | D  | E   | F  | G  | H    | I  |
|-------|----------|----|----|----|----|-----|----|----|------|----|
| B     | 40376    | 32 | 20 | 12 | 10 | 6   | -  | -  | -    | -  |
| B     | 40377    | 40 | 25 | 14 | 13 | 8   | -  | -  | -    | -  |
| B     | 40378    | 50 | 32 | 18 | 17 | 10  | -  | -  | -    | -  |
| B     | 40379    | 63 | 40 | 20 | 21 | 12  | -  | -  | -    | -  |
| C     | 40380    | 32 | 21 | 12 | 10 | 6   | 15 | 12 | -    | -  |
| C     | 40381    | 40 | 26 | 14 | 13 | 8   | 18 | 15 | -    | -  |
| C     | 40382    | 50 | 34 | 18 | 17 | 10  | 21 | 18 | -    | -  |
| C     | 40383    | 63 | 42 | 20 | 21 | 12  | 25 | 22 | -    | -  |
| D     | 40384    | 32 | 20 | 12 | 10 | M6  | -  | -  | 6.4  | 10 |
| D     | 40385    | 40 | 25 | 14 | 13 | M8  | -  | -  | 8.4  | 12 |
| D     | 40386    | 50 | 32 | 18 | 17 | M10 | -  | -  | 10.5 | 16 |
| D     | 40387    | 63 | 40 | 20 | 21 | M12 | -  | -  | 13   | 20 |
| E     | 40388    | 32 | 21 | 12 | 10 | M6  | 15 | 12 | -    | -  |
| E     | 40389    | 40 | 26 | 14 | 13 | M8  | 18 | 15 | -    | -  |
| E     | 40390    | 50 | 34 | 18 | 17 | M10 | 21 | 18 | -    | -  |
| E     | 40391    | 63 | 42 | 20 | 21 | M12 | 25 | 22 | -    | -  |

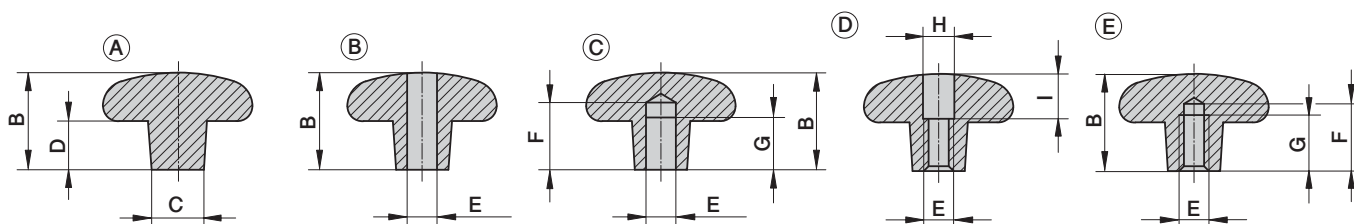
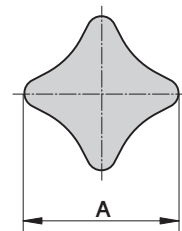


## Aluminum Palm Grips

### Inch



- Material: Aluminum
- Finish: natural finish, tumbled
- Tumbled finish is shiny and slightly dimpled



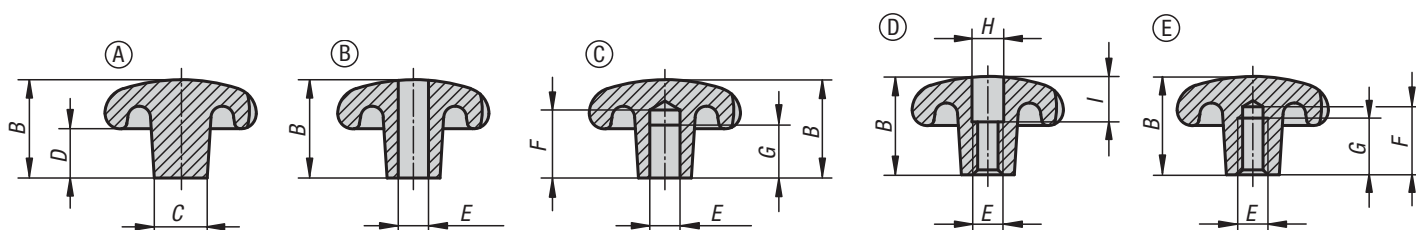
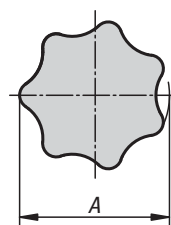
| Style | Part No.<br>Tumbled | Part No.<br>Polished | A  | B  | C  | D  | E   | F  | G  | H    | I  |
|-------|---------------------|----------------------|----|----|----|----|-----|----|----|------|----|
| A     | 40309               | -                    | 40 | 26 | 14 | 14 | -   | -  | -  | -    | -  |
| A     | 40310               | -                    | 50 | 34 | 18 | 20 | -   | -  | -  | -    | -  |
| A     | 40311               | -                    | 63 | 42 | 25 | 25 | -   | -  | -  | -    | -  |
| A     | 40312               | -                    | 80 | 52 | 25 | 30 | -   | -  | -  | -    | -  |
| B     | 40313               | 40329                | 40 | 25 | 14 | 14 | 8   | -  | -  | -    | -  |
| B     | 40314               | 40330                | 50 | 32 | 18 | 20 | 10  | -  | -  | -    | -  |
| B     | 40315               | 40331                | 63 | 40 | 25 | 25 | 12  | -  | -  | -    | -  |
| B     | 40316               | 40332                | 80 | 50 | 25 | 30 | 16  | -  | -  | -    | -  |
| C     | 40317               | 40333                | 40 | 26 | 14 | 14 | 8   | 18 | 15 | -    | -  |
| C     | 40318               | 40334                | 50 | 34 | 18 | 20 | 10  | 21 | 18 | -    | -  |
| C     | 40319               | 40335                | 63 | 42 | 25 | 25 | 12  | 25 | 22 | -    | -  |
| C     | 40320               | 40336                | 80 | 52 | 25 | 30 | 16  | 32 | 28 | -    | -  |
| D     | 40321               | 40337                | 40 | 25 | 14 | 14 | M8  | -  | -  | 8.4  | 12 |
| D     | 40322               | 40338                | 50 | 32 | 18 | 20 | M10 | -  | -  | 10.5 | 16 |
| D     | 40323               | 40339                | 63 | 40 | 25 | 25 | M12 | -  | -  | 13   | 20 |
| D     | 40324               | 40340                | 80 | 50 | 25 | 30 | M16 | -  | -  | 17   | 30 |
| E     | 40325               | 40341                | 40 | 26 | 14 | 14 | M8  | 18 | 15 | -    | -  |
| E     | 40326               | 40342                | 50 | 34 | 18 | 18 | M10 | 21 | 18 | -    | -  |
| E     | 40327               | 40343                | 63 | 42 | 25 | 25 | M12 | 25 | 22 | -    | -  |
| E     | 40328               | 40344                | 80 | 52 | 25 | 25 | M16 | 32 | 28 | -    | -  |



## Aluminum Star Nuts Metric



- Material: Aluminum
- Finish: natural finish, tumbled
- Tumbled finish is shiny and slightly dimpled

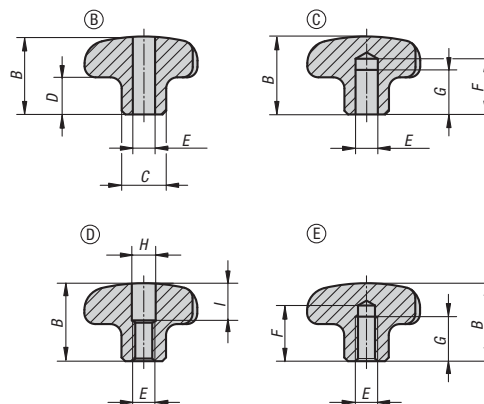
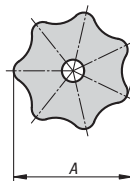


| Style | Part No.<br>Tumbled | Part No.<br>Polished | A  | B  | C  | D  | E   | F  | G  | H    | I  |
|-------|---------------------|----------------------|----|----|----|----|-----|----|----|------|----|
| A     | 40785               | -                    | 40 | 26 | 14 | 13 | -   | -  | -  | -    | -  |
| A     | 40786               | -                    | 50 | 34 | 18 | 17 | -   | -  | -  | -    | -  |
| A     | 40787               | -                    | 63 | 42 | 20 | 21 | -   | -  | -  | -    | -  |
| A     | 40788               | -                    | 80 | 52 | 25 | 25 | -   | -  | -  | -    | -  |
| B     | 40789               | 40805                | 40 | 25 | 14 | 13 | 8   | -  | -  | -    | -  |
| B     | 40790               | 40806                | 50 | 32 | 18 | 17 | 10  | -  | -  | -    | -  |
| B     | 40791               | 40807                | 63 | 40 | 20 | 21 | 12  | -  | -  | -    | -  |
| B     | 40792               | 40808                | 80 | 50 | 25 | 25 | 16  | -  | -  | -    | -  |
| C     | 40793               | 40809                | 40 | 26 | 14 | 13 | 8   | 18 | 15 | -    | -  |
| C     | 40794               | 40810                | 50 | 34 | 18 | 17 | 10  | 21 | 18 | -    | -  |
| C     | 40795               | 40811                | 63 | 42 | 20 | 21 | 12  | 25 | 22 | -    | -  |
| C     | 40796               | 40812                | 80 | 52 | 25 | 25 | 16  | 32 | 28 | -    | -  |
| D     | 40797               | 40813                | 40 | 25 | 14 | 13 | M8  | -  | -  | 8.4  | 12 |
| D     | 40798               | 40814                | 50 | 32 | 18 | 17 | M10 | -  | -  | 10.5 | 16 |
| D     | 40799               | 40815                | 63 | 40 | 20 | 21 | M12 | -  | -  | 13   | 20 |
| D     | 40800               | 40816                | 80 | 50 | 25 | 25 | M16 | -  | -  | 17   | 30 |
| E     | 40801               | 40817                | 40 | 26 | 14 | 13 | M8  | 18 | 15 | -    | -  |
| E     | 40802               | 40818                | 50 | 34 | 18 | 17 | M10 | 21 | 18 | -    | -  |
| E     | 40803               | 40819                | 63 | 42 | 20 | 21 | M12 | 25 | 22 | -    | -  |
| E     | 40804               | 40820                | 80 | 52 | 25 | 25 | M16 | 32 | 28 | -    | -  |



## Stainless Steel Star Grips

### Inch



- Material: Stainless steel
- Finish: ground and polished
- Highly polished finish looks great

| Style | Part No. | A    | B    | C    | D    | E       | F    | G    | H    | I    |
|-------|----------|------|------|------|------|---------|------|------|------|------|
| B     | 40821    | 1.26 | 0.79 | 0.47 | 0.39 | 0.250   | -    | -    | -    | -    |
| B     | 40822    | 1.57 | 0.98 | 0.55 | 0.51 | 0.312   | -    | -    | -    | -    |
| B     | 40823    | 1.97 | 1.26 | 0.71 | 0.67 | 0.375   | -    | -    | -    | -    |
| B     | 40824    | 2.48 | 1.57 | 0.79 | 0.83 | 0.500   | -    | -    | -    | -    |
| C     | 40825    | 1.26 | 0.83 | 0.47 | 0.39 | 0.250   | 0.59 | 0.47 | -    | -    |
| C     | 40826    | 1.57 | 1.02 | 0.55 | 0.51 | 0.312   | 0.71 | 0.59 | -    | -    |
| C     | 40827    | 1.97 | 1.34 | 0.71 | 0.67 | 0.375   | 0.83 | 0.71 | -    | -    |
| C     | 40828    | 2.48 | 1.65 | 0.79 | 0.83 | 0.500   | 0.98 | 0.87 | -    | -    |
| D     | 40829    | 1.26 | 0.79 | 0.47 | 0.39 | 1/4-20  | -    | -    | 0.25 | 0.39 |
| D     | 40830    | 1.57 | 0.98 | 0.55 | 0.51 | 5/16-18 | -    | -    | 0.33 | 0.47 |
| D     | 40831    | 1.97 | 1.26 | 0.71 | 0.67 | 3/8-16  | -    | -    | 0.41 | 0.63 |
| D     | 40832    | 2.48 | 1.57 | 0.79 | 0.83 | 1/2-13  | -    | -    | 0.51 | 0.79 |
| E     | 40833    | 1.26 | 0.83 | 0.47 | 0.39 | 1/4-20  | 0.59 | 0.47 | -    | -    |
| E     | 40834    | 1.57 | 1.02 | 0.55 | 0.51 | 5/16-18 | 0.71 | 0.59 | -    | -    |
| E     | 40835    | 1.97 | 1.34 | 0.71 | 0.67 | 3/8-16  | 0.83 | 0.71 | -    | -    |
| E     | 40836    | 2.48 | 1.65 | 0.79 | 0.83 | 1/2-13  | 0.98 | 0.87 | -    | -    |

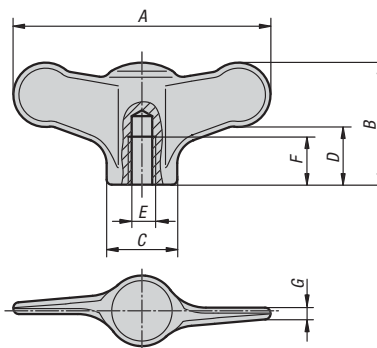
## Stainless Steel Star Grips

### Metric

| Style | Part No. | A  | B  | C  | D  | E   | F  | G  | H    | I  |
|-------|----------|----|----|----|----|-----|----|----|------|----|
| B     | 40837    | 32 | 20 | 12 | 10 | 6   | -  | -  | -    | -  |
| B     | 40838    | 40 | 25 | 14 | 13 | 8   | -  | -  | -    | -  |
| B     | 40839    | 50 | 32 | 18 | 17 | 10  | -  | -  | -    | -  |
| B     | 40840    | 63 | 40 | 20 | 21 | 12  | -  | -  | -    | -  |
| C     | 40841    | 32 | 21 | 12 | 10 | 6   | 15 | 12 | -    | -  |
| C     | 40842    | 40 | 26 | 14 | 13 | 8   | 18 | 15 | -    | -  |
| C     | 40843    | 50 | 34 | 18 | 17 | 10  | 21 | 18 | -    | -  |
| C     | 40844    | 63 | 42 | 20 | 21 | 12  | 25 | 22 | -    | -  |
| D     | 40845    | 32 | 20 | 12 | 10 | M6  | -  | -  | 6.4  | 10 |
| D     | 40846    | 40 | 25 | 14 | 13 | M8  | -  | -  | 8.4  | 12 |
| D     | 40847    | 50 | 32 | 18 | 17 | M10 | -  | -  | 10.5 | 16 |
| D     | 40848    | 63 | 40 | 20 | 21 | M12 | -  | -  | 13   | 20 |
| E     | 40849    | 32 | 21 | 12 | 10 | M6  | 15 | 12 | -    | -  |
| E     | 40850    | 40 | 26 | 14 | 13 | M8  | 18 | 15 | -    | -  |
| E     | 40851    | 50 | 34 | 18 | 17 | M10 | 21 | 18 | -    | -  |
| E     | 40852    | 63 | 42 | 20 | 21 | M12 | 25 | 22 | -    | -  |



## Wing Nuts *Inch*



### Blasted

- Material: Stainless steel
- Finish: Blasted
- Wings are offset for comfortable, ergonomic grip
- Coarse, blasted finish delivers an economical option for applications where appearance is less important.

### Ground and Polished

- Material: Stainless steel
- Finish: ground and polished
- Wings are offset for comfortable, ergonomic grip
- Polished to a shiny, smooth finish for a high quality look and feel.

| Ground & Polished Part No. | Blasted Part No. | A    | B    | C    | D    | E       | F    | G     |
|----------------------------|------------------|------|------|------|------|---------|------|-------|
| 40853                      | 40861            | 1.50 | 0.71 | 0.41 | 0.34 | 8-32    | 0.35 | 0.067 |
| 40854                      | 40862            | 1.50 | 0.71 | 0.41 | 0.34 | 10-32   | 0.35 | 0.067 |
| 40855                      | 40863            | 1.50 | 0.71 | 0.41 | 0.34 | 1/4-20  | 0.35 | 0.067 |
| 40856                      | 40864            | 1.97 | 0.94 | 0.55 | 0.45 | 10-24   | 0.39 | 0.091 |
| 40857                      | 40865            | 1.97 | 0.94 | 0.55 | 0.45 | 10-32   | 0.47 | 0.091 |
| 40858                      | 40866            | 1.97 | 0.94 | 0.55 | 0.45 | 1/4-20  | 0.39 | 0.091 |
| 40859                      | 40867            | 2.95 | 1.39 | 0.83 | 0.65 | 5/16-18 | 0.55 | 0.134 |
| 40860                      | 40868            | 2.95 | 1.39 | 0.83 | 0.65 | 3/8-16  | 0.55 | 0.134 |

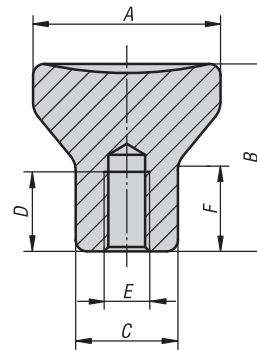
## Wing Nuts *Metric*

| Ground & Polished Part No. | Blasted Part No. | A  | B  | C    | D    | E   | F  | G   |
|----------------------------|------------------|----|----|------|------|-----|----|-----|
| 40869                      | 40876            | 38 | 18 | 10.5 | 8.5  | M4  | 9  | 1.7 |
| 40870                      | 40877            | 38 | 18 | 10.5 | 8.5  | M5  | 9  | 1.7 |
| 40871                      | 40878            | 38 | 18 | 10.5 | 8.5  | M6  | 9  | 1.7 |
| 40872                      | 40879            | 50 | 24 | 14   | 11.5 | M5  | 12 | 2.3 |
| 40873                      | 40880            | 50 | 24 | 14   | 11.5 | M6  | 12 | 2.3 |
| 40874                      | 40881            | 75 | 35 | 21   | 16.5 | M8  | 15 | 3.4 |
| 40875                      | 40882            | 75 | 35 | 21   | 16.5 | M10 | 15 | 3.4 |



## Mushroom Knobs

### Inch



- Material: Stainless steel
- Finish: Electrolytic-polish
- Mushroom knob with polished surface

| Part No. | E       | A    | C    | B    | F    | D    |
|----------|---------|------|------|------|------|------|
| 40883    | 2-56    | 0.55 | 0.32 | 0.55 | 0.26 | 0.16 |
| 40884    | 6-32    | 0.71 | 0.39 | 0.71 | 0.34 | 0.30 |
| 40885    | 8-32    | 0.83 | 0.47 | 0.83 | 0.39 | 0.39 |
| 40886    | 10-24   | 0.83 | 0.47 | 0.83 | 0.39 | 0.49 |
| 40887    | 10-32   | 0.83 | 0.47 | 0.83 | 0.39 | 0.49 |
| 40888    | 1/4-20  | 0.98 | 0.55 | 0.98 | 0.47 | 0.47 |
| 40889    | 5/16-18 | 1.30 | 0.71 | 1.30 | 0.63 | 0.63 |
| 40890    | 3/8-16  | 1.57 | 0.94 | 1.57 | 0.41 | 0.79 |

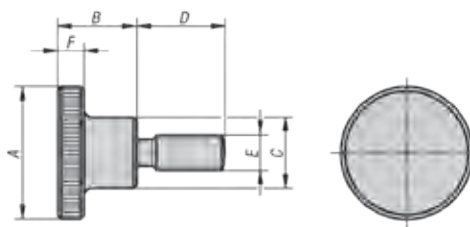
## Mushroom Knobs

### Metric

| Part No. | E   | A  | C  | B  | F    | D    |
|----------|-----|----|----|----|------|------|
| 40891    | M2  | 14 | 8  | 14 | 6.7  | 4    |
| 40892    | M3  | 18 | 10 | 18 | 8.6  | 7.5  |
| 40893    | M4  | 21 | 12 | 21 | 10   | 10   |
| 40894    | M5  | 21 | 12 | 21 | 10   | 12.5 |
| 40895    | M6  | 25 | 14 | 25 | 12   | 12   |
| 40896    | M8  | 33 | 18 | 33 | 16   | 16   |
| 40897    | M10 | 40 | 24 | 40 | 18.7 | 20   |



## Knurled Thumb Screw Stainless Steel, Inch



### Stainless Steel

- Material: Stainless steel
- Finish: Natural
- Knurled Head
- Note: The knurled thumb screw is supplied with no thread undercut

| Part No.<br>SS | A    | B    | C    | D    | E       | F    |
|----------------|------|------|------|------|---------|------|
| 41838          | 0.63 | 0.37 | 0.32 | 0.39 | 8-32    | 0.14 |
| 41839          | 0.63 | 0.37 | 0.32 | 0.63 | 8-32    | 0.14 |
| 41840          | 0.63 | 0.37 | 0.32 | 0.79 | 8-32    | 0.14 |
| 41841          | 0.79 | 0.45 | 0.39 | 0.39 | 10-24   | 4.00 |
| 41842          | 0.79 | 0.45 | 0.39 | 0.63 | 10-24   | 4.00 |
| 41843          | 0.79 | 0.45 | 0.39 | 0.79 | 10-24   | 4.00 |
| 41844          | 0.94 | 0.59 | 0.47 | 0.39 | 1/4-20  | 0.20 |
| 41845          | 0.94 | 0.59 | 0.47 | 0.63 | 1/4-20  | 0.20 |
| 41846          | 0.94 | 0.59 | 0.47 | 0.79 | 1/4-20  | 0.20 |
| 41847          | 0.94 | 0.59 | 0.47 | 0.98 | 1/4-20  | 0.20 |
| 41848          | 1.18 | 0.71 | 0.63 | 0.63 | 5/16-18 | 0.24 |
| 41849          | 1.18 | 0.71 | 0.63 | 0.79 | 5/16-18 | 0.24 |
| 41850          | 1.18 | 0.71 | 0.63 | 0.98 | 5/16-18 | 0.24 |
| 41851          | 1.42 | 0.91 | 0.79 | 0.79 | 3/8-16  | 0.32 |
| 41852          | 1.42 | 0.91 | 0.79 | 0.79 | 3/8-16  | 0.32 |

## Knurled Thumb Screw Stainless Steel & Steel, Metric

### Free-Cutting Steel

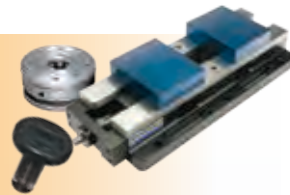
- Material: steel
- Finish: black oxide
- Knurled Head
- Note: The knurled thumb screw is supplied with no thread undercut

| Part No.<br>Steel | Part No.<br>SS | A  | B    | C  | D  | E   | F   |
|-------------------|----------------|----|------|----|----|-----|-----|
| 41853             | 41871          | 16 | 9.5  | 8  | 10 | M4  | 3.5 |
| 41854             | 41872          | 16 | 9.5  | 8  | 16 | M4  | 3.5 |
| 41855             | 41873          | 16 | 9.5  | 8  | 20 | M4  | 3.5 |
| 41856             | 41874          | 20 | 11.5 | 10 | 10 | M5  | 4   |
| 41857             | 41875          | 20 | 11.5 | 10 | 16 | M5  | 4   |
| 41858             | 41876          | 20 | 11.5 | 10 | 20 | M5  | 4   |
| 41859             | 41877          | 24 | 15   | 12 | 10 | M6  | 5   |
| 41860             | 41878          | 24 | 15   | 12 | 16 | M6  | 5   |
| 41861             | 41879          | 24 | 15   | 12 | 20 | M6  | 5   |
| 41862             | 41880          | 24 | 15   | 12 | 25 | M6  | 5   |
| 41863             | 41881          | 30 | 18   | 16 | 16 | M8  | 6   |
| 41864             | 41882          | 30 | 18   | 16 | 20 | M8  | 6   |
| 41865             | 41883          | 30 | 18   | 16 | 25 | M8  | 6   |
| 41866             | 41884          | 30 | 18   | 16 | 30 | M8  | 6   |
| 41867             | 41885          | 36 | 23   | 20 | 20 | M10 | 8   |
| 41868             | 41886          | 36 | 23   | 20 | 25 | M10 | 8   |
| 41869             | 41887          | 36 | 23   | 20 | 30 | M10 | 8   |
| 41870             | 41888          | 36 | 23   | 20 | 40 | M10 | 8   |



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