Matdan®

QUALITY FASTENERS™

# MC/TC SERIES
# RETRACTABLE CAPTIVE SCREWS
## Designer's Guide

## Installation Types

### Choosing the right captivation style for your application.

#### Press-in Style

- *Lower installed cost*
- *Thin sheet thickness applications*
- *For use in materials 85RB or softer*
- *Mounting hole centerline minimum 1.5x installation hole diameter from panel edge; closer installation requires restraining panel edge*

#### Flare-in Style

- *Used in materials including hardened steels and non-metallics*
- *Panel finish does not permit press-in*
- *Lower installation force than press-in*
- *Withstands higher side loading*
- *Installation hole preparation more tolerant*
- *Can be mounted closer to panel edge than press-in*

#### Floating Style

- *Higher radial float than flare-in with many of the same features and benefits*
- *Lower installatioin force than press-in*
- *Withstands higher side loading*
- *Installation hole preparation more tolerant.*
- *Installs in a wide range of materials, including hardened steels and plastics*

#### PC Board Style

- *Used for mounting in circuit boards and plastics*
- *Mounting hole centerline minimum 1.5 x installation hole diameter, from panel edge; Closer installation requires restraining panel edge (Consult Factory)*

## Custom Application Design

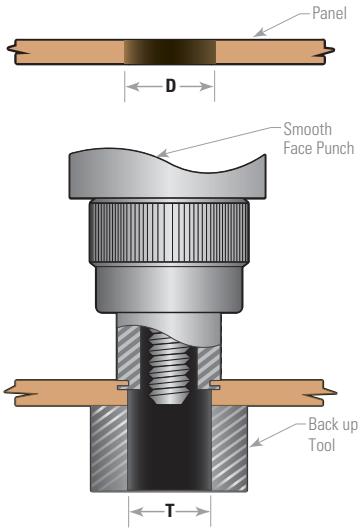
Captive screw modification examples include:

- *Increased screw grip range*
- *Screw drive recess preferences*
- *Screw leader point - half or full dog point*
- *High radial float*
- *Colors for improved brand recognition*
- *Material and finish options to improve product performance*

# Panel Preparation and Installation

## PRESS-IN STYLE/ PC BOARD

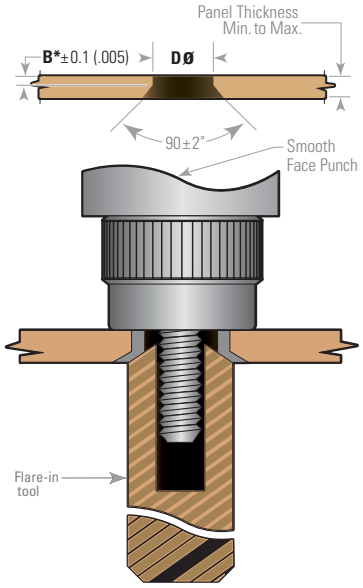
1. *Prepare installation hole for correct thread size. Leave the hole edges sharp - do not chamfer.*
2. *Install captive screw as shown.*
3. *Place back-up tool behind panel with clearance hole shown.*
4. *Press assembly into panel. Press force depends on material hardness - 3000 lb. maximum.*




| Thread Size | | Installation Hole D | | | | Back-up Tool Hole T | |
|---|---|---|---|---|---|---|---|
| | | Metric | | Unified | | | |
| Metric | Unified | Press-in | PC board | Press-in | PC board | Metric +.2 -.1 | Unified +.008 -.004 |
| M3 | 4-40 | 5.6 +.03 -.05 | 5.6 +.1 -.05 | .219 +.003 -.000 | .219 +.004 -.002 | 3.2 | .125 |
| M3.5 | 6-32 | 6.4 +.03 -.05 | 6.4 +.1 -.1 | .250 +.003 -.000 | .250 +.004 -.004 | 3.7 | .146 |
| M4 | 8-32 | 8 +0.0 -.08 | 8 +0.0 -.08 | .315 +.003 -.000 | .315 +.000 -.003 | 4.4 | .173 |
| M5 | 10-32 | 8 +0.0 -.08 | 8 +0.0 -.08 | .315 +.003 -.000 | .315 +.000 -.003 | 5.2 | .205 |
| M6 | 1/4-20 | 9.5 +.1 -0.0 | 9.5 +.1 -0.0 | .375 +.003 -.000 | .375 +.003 -.000 | 6.2 | .260 |

## FLARE-IN STYLE

1. *Prepare installation hole for correct thread size. Leave the hole edges sharp - do not chamfer.*
2. *Insert captive screw in panel*
3. *Install Flare-in tool into press.*
4. *Support top of screw and install captive screw as shown Installation force 300 lb. - 600 lb.*

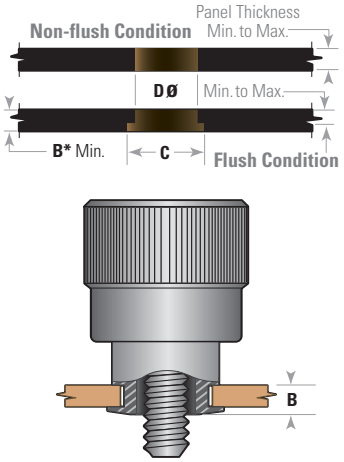



| Thread Size | | Installation Hole D | | Installation Tool part number |
|---|---|---|---|---|
| Metric | Unified | Metric | Unified +.005 -.000 | |
| M3 | 4-40 | 4.8 +.08 -.05 | .187 | MCF440 |
| M3.5 | 6-32 | 5.4 +.1 -0.0 | .213 | MCF632 |
| M4 | 8-32 | 6.8 +.08 -.04 | .266 | MCF832 |
| M5 | 10-32 | 6.8 +.08 -.04 | .266 | MCF1032 |
| M6 | 1/4-20 | 8.2 +.1 -0.0 | .323 | MCF1420 |

** For B dimensions see specifications table for that specific thread size.*

## FLOATING STYLE

1. *Determine if flush or non-flush condition required.*
2. *Prepare installation hole for correct thread size.*
3. *Insert captive screw into panel*
4. *Place floating tool into press.*
5. *Support top of screw then roll the ferrule over the washer to captivate. Installation force depends on thread size.*




| Thread Size | | Installation Hole D | | Installation Tool part number | Counterbore C |
|---|---|---|---|---|---|
| Metric | Unified | Metric +.008 -.003 | Unified +.003 -.001 | | |
| M3 | 4-40 | 6.4 | .250 | MCL440 | 9.4 (.375) |
| M3.5 | 6-32 | 7.2 | .283 | MCL632 | 10.5 (.413) |
| M4 | 8-32 | 8.8 | .346 | MCL832 | 12 (.469) |
| M5 | 10-32 | 8.8 | .346 | MCL1032 | 12 (.469) |
| M6 | 1/4-20 | 10.5 | .413 | MCL1420 | 13.5 (.531) |

** For B dimensions see specifications table for that specific thread size.*

# Retractable Captive Screws 4-40 and M3 Thread

## Specifications

| Installation Type | Panel Thickness Min. | Panel Thickness Max | Total Float | A | B | Knob Height H1 | Knob Height H2 | Screw Projection P1 | Screw Projection P2 | Part Number (See callout to select items in parenthesis) |
|---|---|---|---|---|---|---|---|---|---|---|
| Press-in | 0.9 (.036) | — | 0.8 (.031) | — | — | 11.6 (.46) | 8.4 (.33) | 0.8 (.03) | 4.0 (.16) | ( )CP-( )( )0-1-( )( ) |
| | | | | | | | | 2.5 (.10) | 5.5 (.22) | ( )CP-( )( )1-1-( )( ) |
| | | | | | | | | 4.0 (.16) | 7.1 (.28) | ( )CP-( )( )2-1-( )( ) |
| | | | | | | | | 5.6 (.22) | 8.6 (.35) | ( )CP-( )( )3-1-( )( ) |
| PC Board | 1.6 (.063) | — | 0.8 (.031) | — | — | 11.6 (.46) | 8.4 (.33) | 0.8 (.03) | 4.0 (.16) | ( )CB-( )( )0-1-( )( ) |
| | | | | | | | | 2.5 (.10) | 5.5 (.22) | ( )CB-( )( )1-1-( )( ) |
| | | | | | | | | 4.0 (.16) | 7.1 (.28) | ( )CB-( )( )2-1-( )( ) |
| | | | | | | | | 5.6 (.22) | 8.6 (.35) | ( )CB-( )( )3-1-( )( ) |
| Flare-in | 0.8 (.031) | 1.5 (.058) | 0.8 (.031) | 1.0 (.041) | 0.4 (.015) | 11.4 (.45) | 8.1 (.32) | 0.8 (.03) | 4.0 (.16) | ( )CF-( )( )0-1-( )( ) |
| | 1.5 (.059) | 2.5 (.066) | | 1.8 (.070) | 0.4 (.015) | | | 1.5 (.06) | 4.7 (.19) | ( )CF-( )( )0-2-( )( ) |
| | 2.5 (.100) | 4.0 (.156) | | 2.6 (.104) | 0.8 (.031) | | | 2.5 (.10) | 5.7 (.22) | ( )CF-( )( )0-3-( )( ) |
| | 4 (.157) | 5.6 (.219) | | 4.2 (.166) | 2.4 (.093) | | | 4.0 (.16) | 7.1 (.28) | ( )CF-( )( )0-5-( )( ) |
| | 5.6 (.220) | 7.1 (.281) | | 5.8 (.299) | 4.0 (.156) | | | 5.6 (.22) | 8.8 (.35) | ( )CF-( )( )0-7-( )( ) |
| | 0.8 (.031) | 1.5 (.058) | | 1.0 (.041) | 0.4 (.015) | | | 2.5 (.10) | 5.7 (.22) | ( )CF-( )( )1-1-( )( ) |
| | | | | | | | | 4.0 (.16) | 7.1 (.28) | ( )CF-( )( )2-1-( )( ) |
| | | | | | | | | 5.6 (.22) | 8.8 (.35) | ( )CF-( )( )3-1-( )( ) |
| | 1.5 (.059) | 2.5 (.099) | | 1.8 (.070) | 0.4 (.015) | | | 2.5 (.10) | 5.7 (.22) | ( )CF-( )( )1-2-( )( ) |
| | | | | | | | | 4.0 (.16) | 7.1 (.28) | ( )CF-( )( )2-2-( )( ) |
| | | | | | | | | 5.6 (.22) | 8.8 (.35) | ( )CF-( )( )3-3-( )( ) |
| Floating | -- | 0.8 (.031) | 2.1 (.082) | 2.6 (.104) | 2.0 (.080) | 11.9 (.47) | 8.6 (.34) | 1.9 (.07) | 5.1 (.20) | ( )CL-( )( )0-0-( )( ) |
| | | | | | | | | 3.4 (.13) | 6.6 (.26) | ( )CL-( )( )1-0-( )( ) |
| | | | | | | | | 5.0 (.19) | 8.2 (.32) | ( )CL-( )( )2-0-( )( ) |
| | 0.8 (.031) | 1.6 (.063) | | 3.4 (.132) | 2.8 (.111) | | | 1.9 (.07) | 5.1 (.20) | ( )CL-( )( )0-1-( )( ) |
| | | | | | | | | 3.4 (.13) | 6.6 (.26) | ( )CL-( )( )1-1-( )( ) |
| | | | | | | | | 5.0 (.19) | 8.2 (.32) | ( )CL-( )( )2-1-( )( ) |
| | 1.6 (.063) | 2.4 (.094) | | 4.2 (.164) | 3.6 (.143) | | | 3.4 (.13) | 6.6 (.26) | ( )CL-( )( )0-2-( )( ) |
| | | | | | | | | 5.0 (.19) | 8.2 (.32) | ( )CL-( )( )1-2-( )( ) |

See page 3 for panel preparation details.

## Part Number Callout

| Series Code | |
|---|---|
| MC | Aluminum Knob |
| TC | Plastic Knob |

| Captivation Code | |
|---|---|
| P | Press-in |
| F | Flare-in |
| L | Floating |
| B | PC Board |

—

| Thread Code | |
|---|---|
| 04 | 4-40 |
| 06 | 6-32 |
| 08 | 8-32 |
| 10 | 10-32 |
| 14 | 1/4-20 |
| M3 | 3m |
| 35 | 3.5mm |
| M4 | 4mm |
| M5 | 5mm |
| M6 | 6mm |

| Drive Recess Code | |
|---|---|
| P | Phillips |
| S | Slotted |
| T | Six-lobe |
| C | Combo Slot Phillips |
| E | Combo Six-lobe/Slot |

| Screw Length Code |
|---|
| See Specification Chart |

—

| Ferrule Length Code |
|---|
| See Specification Chart |

—

| Texture Code | |
|---|---|
| A | 1/2 Knurl |
| S | Smooth |
| K | Full Knurl |
| D | Diamond |
| H | 1/2 Diamond |

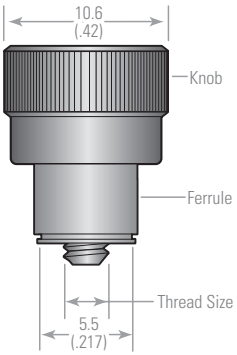
| Finish Code | |
|---|---|
| N | Natural |
| B | Black |

### Example Part Number: MCP-04C1-1-AN

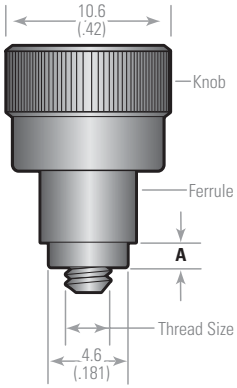
Also available with custom lengths, materials and sizes. Consult factory for details

## General Dimensions

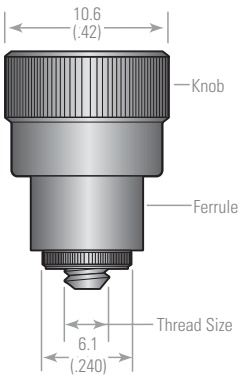
### Press-in



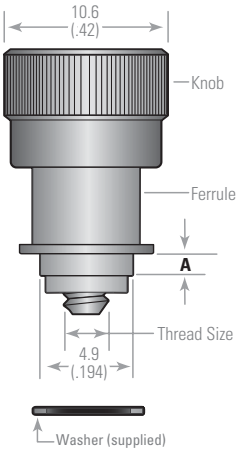

### Flare-in




### PC Board

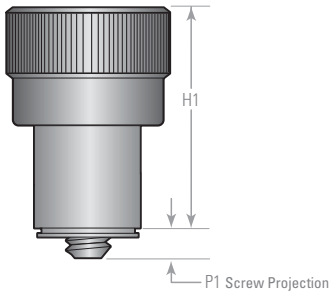



### Floating

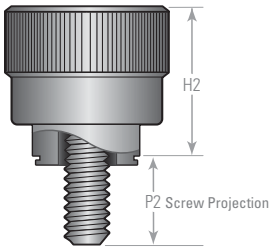



## Knob Height and Screw Projections

### Unfastened




### Fastened




## Material and Finish

### MC SERIES

**Press-in**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

**Flare-in**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

**PC Board**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

**Floating**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel
**Washer:** 300 Series Stainless Steel

### TC SERIES

**Press-in**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

**Flare-in**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

**PC Board**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

**Floating**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel
**Washer:** 300 Series Stainless Steel

# Retractable Captive Screws 6-32 and 3.5mm Thread

## Installation Types

| Installation Type | Panel Thickness Min. | Panel Thickness Max | Total Float | A | B | Knob Height H1 | Knob Height H2 | Screw Projection P1 | Screw Projection P2 | Part Number (See callout to select items in parenthesis) |
|---|---|---|---|---|---|---|---|---|---|---|
| Press-in | 0.9 (.036) | — | 0.8 (.031) | — | — | 16 (.63) | 11.2 (.44) | 0.5 (.02) | 5.3 (.21) | ( )CP-( )( )0-1-( )( ) |
| | | | | | | | | 2.1 (.09) | 6.9 (.27) | ( )CP-( )( )1-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 8.5 (.33) | ( )CP-( )( )2-1-( )( ) |
| | | | | | | | | 5.3 (.21) | 10.1 (.40) | ( )CP-( )( )3-1-( )( ) |
| PC Board | 1.6 (.063) | — | 0.8 (.031) | — | — | 16 (.63) | 11.2 (.44) | 0.5 (.02) | 5.3 (.21) | ( )CB-( )( )0-1-( )( ) |
| | | | | | | | | 2.1 (.09) | 6.9 (.27) | ( )CB-( )( )1-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 8.5 (.33) | ( )CB-( )( )2-1-( )( ) |
| | | | | | | | | 5.3 (.21) | 10.1 (.40) | ( )CB-( )( )3-1-( )( ) |
| Flare-in | 1.5 (.058) | 3.2 (.125) | 0.8 (.031) | 1.8 (.070) | 0.4 (.015) | 15.2 (.60) | 10.2 (.40) | 1.1 (.04) | 6.1 (.24) | ( )CF-( )( )0-2-( )( ) |
| | 3.2 (.126) | 4.8 (.187) | | 3.4 (.135) | 1.6 (.062) | | | 2.7 (.11) | 7.6 (.30) | ( )CF-( )( )0-4-( )( ) |
| | 4.8 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )0-6-( )( ) |
| | 6.3 (.251) | 7.9 (.312) | | 6.6 (.260) | 4.8 (.189) | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )0-8-( )( ) |
| | 1.5 (.058) | 3.2 (.125) | | 1.8 (.070) | 0.4 (.016) | | | 2.7 (.11) | 7.6 (.30) | ( )CF-( )( )1-2-( )( ) |
| | | | | | | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )2-2-( )( ) |
| | | | | | | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )3-2-( )( ) |
| | 3.2 (.125) | 4.8 (.189) | | 3.4 (.135) | 1.6 (.062) | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )1-4-( )( ) |
| | | | | | | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )2-4-( )( ) |
| | 4.7 (.188) | 6.4 (.250) | | 5 (.197) | 2.8 (.11) | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )1-6-( )( ) |
| Floating | — | 0.8 (.031) | 2.2 (.09) | 2.9 (.113) | 2.1 (.084) | 15.5 (.61) | 10.7 (.42) | 2.4 (.09) | 7.2 (.28) | ( )CL-( )( )0-0-( )( ) |
| | | | | | | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )1-0-( )( ) |
| | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )2-0-( )( ) |
| | 0.8 (.031) | 1.6 (.063) | | 3.7 (.144) | 2.9 (.115) | | | 2.4 (.09) | 7.2 (.28) | ( )CL-( )( )0-1-( )( ) |
| | | | | | | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )1-1-( )( ) |
| | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )2-1-( )( ) |
| | 1.6 (.063) | 2.4 (.094) | | 4.5 (.176) | 3.7 (.147) | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )0-2-( )( ) |
| | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )1-2-( )( ) |

See page 3 for panel preparation details.

## Part Number Callout

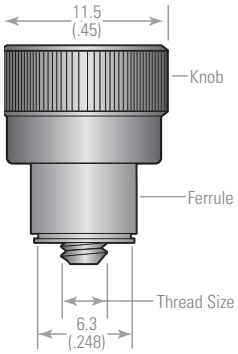
| Series Code | | Captivation Code | | — | Thread Code | | Drive Recess Code | | Screw Length Code | — | Ferrule Length Code | — | Texture Code | | Finish Code | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MC | Aluminum Knob | P | Press-in | | 04 | 4-40 | P | Phillips | See Specification Chart | | See Specification Chart | | A | 1/2 Knurl | N | Natural |
| TC | Plastic Knob | F | Flare-in | | 06 | 6-32 | S | Slotted | | | | | S | Smooth | B | Black |
| | | L | Floating | | 08 | 8-32 | T | Six-lobe | | | | | K | Full Knurl | | |
| | | B | PC Board | | 10 | 10-32 | C | Combo Slot Phillips | | | | | D | Diamond | | |
| | | | | | 14 | 1/4-20 | | | | | | | H | 1/2 Diamond | | |
| | | | | | M3 | 3m | E | Combo Six-lobe/Slot | | | | | | | | |
| | | | | | 35 | 3.5mm | | | | | | | | | | |
| | | | | | M4 | 4mm | | | | | | | | | | |
| | | | | | M5 | 5mm | | | | | | | | | | |
| | | | | | M6 | 6mm | | | | | | | | | | |

**Example Part Number: MCP-06P1-1-AB**

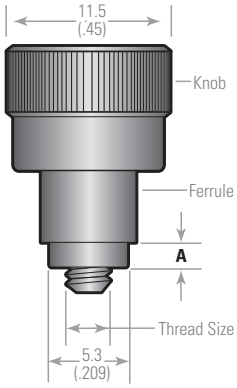
Also available with custom lengths, materials and sizes. Consult factory for details

## General Dimensions

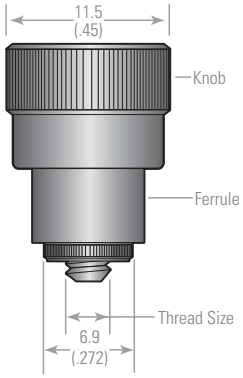
### Press-in



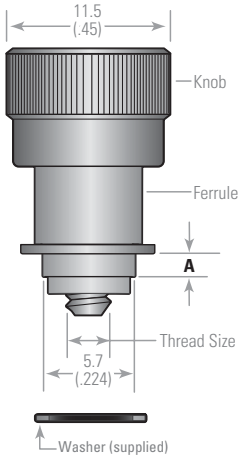

### Flare-in




### PC Board

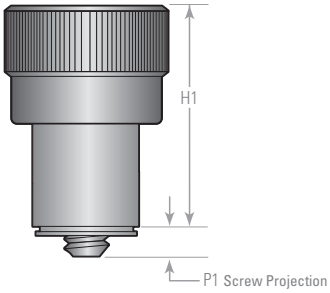



### Floating

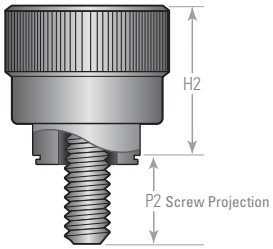



## Knob Height and Screw Projections

### Unfastened




### Fastened




## Material and Finish

| MC SERIES | | | |
|---|---|---|---|
| **Press-in**<br>**Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer<br>**Spring:** 300 Series Stainless Steel | **Flare-in**<br>**Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel | **PC Board**<br>**Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel | **Floating**<br>**Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel<br>**Washer:** 300 Series Stainless Steel |
| **TC SERIES** | | | |
| **Press-in**<br>**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer<br>**Spring:** 300 Series Stainless Steel | **Flare-in**<br>**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel | **PC Board**<br>**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer<br>**Spring:** 300 Series Stainless Steel | **Floating**<br>**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel<br>**Washer:** 300 Series Stainless Steel |

# Retractable Captive Screws 8-32 and M4 Thread

## Installation Types

| Type | Installation Type | Panel Thickness Min. | Panel Thickness Max | Total Float | A | B | Knob Height H1 | Knob Height H2 | Screw Projection P1 | Screw Projection P2 | Part Number (See callout to select items in parenthesis) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-32 | Press-in | 0.9 (.036) | — | 0.8 (.031) | — | — | 16 (.63) | 11.2 (.44) | 0.5 (.02) | 5.3 (.21) | ( )CP-( )( )0-1-( )( ) |
| | | | | | | | | | 2.1 (.09) | 6.9 (.27) | ( )CP-( )( )1-1-( )( ) |
| | | | | | | | | | 3.7 (.15) | 8.5 (.33) | ( )CP-( )( )2-1-( )( ) |
| | | | | | | | | | 5.3 (.21) | 10.1 (.40) | ( )CP-( )( )3-1-( )( ) |
| | PC Board | 1.6 (.063) | — | 0.8 (.031) | — | — | 16 (.63) | 11.2 (.44) | 0.5 (.02) | 5.3 (.21) | ( )CB-( )( )0-1-( )( ) |
| | | | | | | | | | 2.1 (.09) | 6.9 (.27) | ( )CB-( )( )1-1-( )( ) |
| | | | | | | | | | 3.7 (.15) | 8.5 (.33) | ( )CB-( )( )2-1-( )( ) |
| | | | | | | | | | 5.3 (.21) | 10.1 (.40) | ( )CB-( )( )3-1-( )( ) |
| | Flare-in | 1.5 (.058) | 3.2 (.125) | 0.8 (.031) | 1.8 (.070) | 0.4 (.015) | 15.5 (.61) | 10.4 (.41) | 1.1 (.04) | 6.1 (.24) | ( )CF-( )( )0-2-( )( ) |
| | | 3.2 (.126) | 4.8 (.187) | | 3.4 (.135) | 1.6 (.062) | | | 2.7 (.11) | 7.6 (.30) | ( )CF-( )( )0-4-( )( ) |
| | | 4.8 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )0-6-( )( ) |
| | | 6.3 (.251) | 7.9 (.312) | | 6.6 (.260) | 4.8 (.189) | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )0-8-( )( ) |
| | | 1.5 (.058) | 3.2 (.125) | | 1.8 (.070) | 0.4 (.016) | | | 2.7 (.11) | 7.6 (.30) | ( )CF-( )( )1-2-( )( ) |
| | | | | | | | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )2-2-( )( ) |
| | | | | | | | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )3-2-( )( ) |
| | | 3.2 (.125) | 4.8 (.189) | | 3.4 (.135) | 1.6 (.062) | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )1-4-( )( ) |
| | | | | | | | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )2-4-( )( ) |
| | | 4.7 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )1-6-( )( ) |
| | Floating | — | 0.8 (.031) | 2.2 (.09) | 3.2 (.197) | 2.3 (.090) | 15.8 (.62) | 10.9 (.43) | 2.4 (.09) | 7.2 (.28) | ( )CL-( )( )0-0-( )( ) |
| | | | | | | | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )1-0-( )( ) |
| | | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )2-0-( )( ) |
| | | 0.8 (.031) | 1.6 (.063) | | 4.0 (.158) | 3.1 (.121) | | | 2.4 (.09) | 7.2 (.28) | ( )CL-( )( )0-1-( )( ) |
| | | | | | | | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )1-1-( )( ) |
| | | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )2-1-( )( ) |
| | | 1.6 (.063) | 2.4 (.094) | | 4.8 (.190) | 3.9 (.153) | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )0-2-( )( ) |
| | | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )1-2-( )( ) |

See page 3 for panel preparation details.

## Part Number Callout

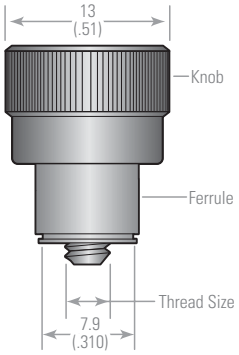
| Series Code | | Captivation Code | | — | Thread Code | | Drive Recess Code | | Screw Length Code | — | Ferrule Length Code | — | Texture Code | | Finish Code | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MC | Aluminum Knob | P | Press-in | | 04 | 4-40 | P | Phillips | See Specification Chart | | See Specification Chart | | A | 1/2 Knurl | N | Natural |
| TC | Plastic Knob | F | Flare-in | | 06 | 6-32 | S | Slotted | | | | | S | Smooth | B | Black |
| | | L | Floating | | 08 | 8-32 | T | Six-lobe | | | | | K | Full Knurl | | |
| | | B | PC Board | | 10 | 10-32 | C | Combo Slot Phillips | | | | | D | Diamond | | |
| | | | | | 14 | 1/4-20 | | | | | | | H | 1/2 Diamond | | |
| | | | | | M3 | 3m | E | Combo Six-lobe/Slot | | | | | | | | |
| | | | | | 35 | 3.5mm | | | | | | | | | | |
| | | | | | M4 | 4mm | | | | | | | | | | |
| | | | | | M5 | 5mm | | | | | | | | | | |
| | | | | | M6 | 6mm | | | | | | | | | | |

## Example Part Number: MCP-08C2-1-SN

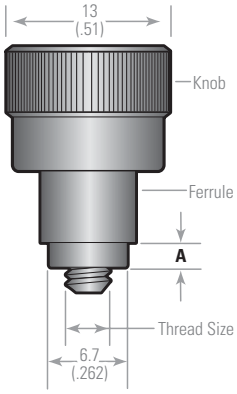
Also available with custom lengths, materials and sizes. Consult factory for details

## General Dimensions

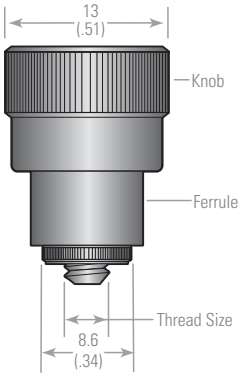
### Press-in



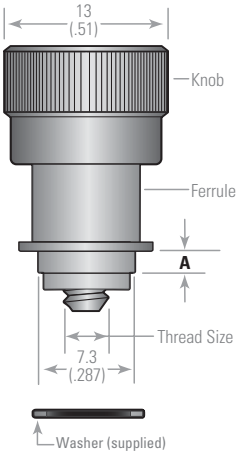

### Flare-in




### PC Board

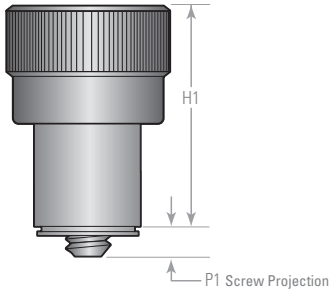



### Floating

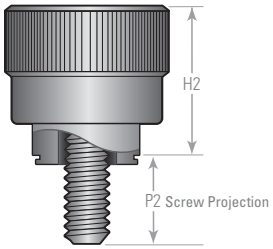



## Knob Height and Screw Projections

### Unfastened




### Fastened




## Material and Finish

### MC SERIES

**Press-in**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

**Flare-in**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

**PC Board**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

**Floating**
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel
**Washer:** 300 Series Stainless Steel

### TC SERIES

**Press-in**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

**Flare-in**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

**PC Board**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

**Floating**
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel
**Washer:** 300 Series Stainless Steel

# Retractable Captive Screws 10-32 and M5 Thread

## Installation Types

| Type | Panel Thickness Min. | Panel Thickness Max | Total Float | A | B | Knob Height H1 | Knob Height H2 | Screw Projection P1 | Screw Projection P2 | Part Number (See callout to select items in parenthesis) |
|---|---|---|---|---|---|---|---|---|---|---|
| Press-in | 0.9 (.036) | — | 0.8 (.031) | — | — | 16 (.63) | 11.2 (.44) | 0.5 (.02) | 5.3 (.21) | ( )CP-( )( )0-1-( )( ) |
| | | | | | | | | 2.1 (.09) | 6.9 (.27) | ( )CP-( )( )1-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 8.5 (.33) | ( )CP-( )( )2-1-( )( ) |
| | | | | | | | | 5.3 (.21) | 10.1 (.40) | ( )CP-( )( )3-1-( )( ) |
| PC Board | 1.6 (.063) | — | 0.8 (.031) | — | — | 16 (.63) | 11.2 (.44) | 0.5 (.02) | 5.3 (.21) | ( )CB-( )( )0-1-( )( ) |
| | | | | | | | | 2.1 (.09) | 6.9 (.27) | ( )CB-( )( )1-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 8.5 (.33) | ( )CB-( )( )2-1-( )( ) |
| | | | | | | | | 5.3 (.21) | 10.1 (.40) | ( )CB-( )( )3-1-( )( ) |
| Flare-in | 1.5 (.058) | 3.2 (.125) | 0.8 (.031) | 1.8 (.070) | 0.4 (.015) | 15.5 (.61) | 10.4 (.41) | 1.1 (.04) | 6.1 (.24) | ( )CF-( )( )0-2-( )( ) |
| | 3.2 (.126) | 4.8 (.187) | | 3.4 (.135) | 1.6 (.062) | | | 2.7 (.11) | 7.6 (.30) | ( )CF-( )( )0-4-( )( ) |
| | 4.8 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )0-6-( )( ) |
| | 6.3 (.251) | 7.9 (.312) | | 6.6 (.260) | 4.8 (.189) | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )0-8-( )( ) |
| | 1.5 (.058) | 3.2 (.125) | | 1.8 (.070) | 0.4 (.016) | | | 2.7 (.11) | 7.6 (.30) | ( )CF-( )( )1-2-( )( ) |
| | | | | | | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )2-2-( )( ) |
| | | | | | | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )3-2-( )( ) |
| | 3.2 (.125) | 4.8 (.189) | | 3.4 (.135) | 1.6 (.062) | | | 4.3 (.17) | 9.2 (.36) | ( )CF-( )( )1-4-( )( ) |
| | | | | | | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )2-4-( )( ) |
| | 4.7 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 5.9 (.23) | 10.8 (.43) | ( )CF-( )( )1-6-( )( ) |
| Floating | — | 0.8 (.031) | 2.2 (.09) | 3.2 (.127) | 2.3 (.090) | 15.8 (.62) | 10.9 (.43) | 2.4 (.09) | 7.2 (.28) | ( )CL-( )( )0-0-( )( ) |
| | | | | | | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )1-0-( )( ) |
| | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )2-0-( )( ) |
| | 0.8 (.031) | 1.6 (.063) | | 4.0 (.158) | 3.1 (.121) | | | 2.4 (.09) | 7.2 (.28) | ( )CL-( )( )0-1-( )( ) |
| | | | | | | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )1-1-( )( ) |
| | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )2-1-( )( ) |
| | 1.6 (.063) | 2.4 (.094) | | 4.8 (.190) | 3.9 (.153) | | | 4.0 (.16) | 8.8 (.35) | ( )CL-( )( )0-2-( )( ) |
| | | | | | | | | 5.6 (.22) | 10.4 (.41) | ( )CL-( )( )1-2-( )( ) |

See page 3 for panel preparation details.

## Part Number Callout

| Series Code | | Captivation Code | |
|---|---|---|---|
| MC | Aluminum Knob | P | Press-in |
| TC | Plastic Knob | F | Flare-in |
| | | L | Floating |
| | | B | PC Board |

—

| Thread Code | | Drive Recess Code | | Screw Length Code |
|---|---|---|---|---|
| 04 | 4-40 | P | Phillips | See Specification Chart |
| 06 | 6-32 | S | Slotted | |
| 08 | 8-32 | T | Six-lobe | |
| 10 | 10-32 | C | Combo Slot Phillips | |
| 14 | 1/4-20 | | | |
| M3 | 3m | E | Combo Six-lobe/Slot | |
| 35 | 3.5mm | | | |
| M4 | 4mm | | | |
| M5 | 5mm | | | |
| M6 | 6mm | | | |

—

| Ferrule Length Code |
|---|
| See Specification Chart |

—

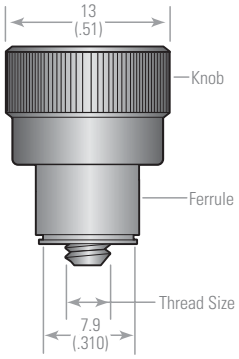
| Texture Code | | Finish Code | |
|---|---|---|---|
| A | 1/2 Knurl | N | Natural |
| S | Smooth | B | Black |
| K | Full Knurl | | |
| D | Diamond | | |
| H | 1/2 Diamond | | |

## Example Part Number: TCF-10S0-6-AN

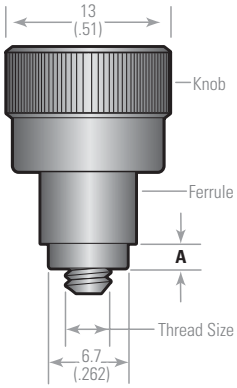
Also available with custom lengths, materials and sizes. Consult factory for details

## General Dimensions

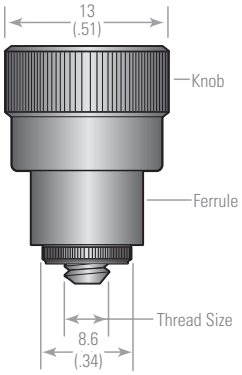
### Press-in



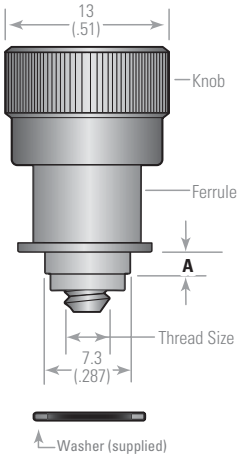

### Flare-in




### PC Board

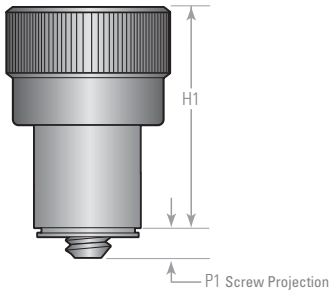



### Floating

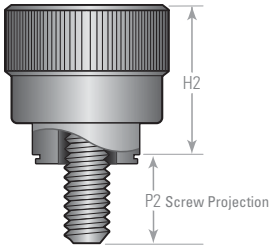



## Knob Height and Screw Projections

### Unfastened




### Fastened




## Material and Finish

### MC SERIES

| Press-in | Flare-in | PC Board | Floating |
|---|---|---|---|
| **Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer<br>**Spring:** 300 Series Stainless Steel | **Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel | **Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel | **Screw:** 410 Series Stainless Steel, Natural Finish<br>**Knob:** 6000 Series Aluminum<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel<br>**Washer:** 300 Series Stainless Steel |

### TC SERIES

| Press-in | Flare-in | PC Board | Floating |
|---|---|---|---|
| **Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer<br>**Spring:** 300 Series Stainless Steel | **Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel | **Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer<br>**Spring:** 300 Series Stainless Steel | **Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer<br>**Knob:** PC/ABS<br>**Ferrule:** 6000 Series Aluminum<br>**Spring:** 300 Series Stainless Steel<br>**Washer:** 300 Series Stainless Steel |

# Retractable Captive Screws 1/4-20 and M6 Thread

## Installation Types

| Type | Panel Thickness Min. | Panel Thickness Max | Total Float | A | B | Knob Height H1 | Knob Height H2 | Screw Projection P1 | Screw Projection P2 | Part Number (See callout to select items in parenthesis) |
|---|---|---|---|---|---|---|---|---|---|---|
| Press-in | 0.9 (.036) | — | 0.8 (.031) | — | — | 19.8 (.78) | 13.5 (.53) | 0.7 (.03) | 7.1 (.28) | ( )CP-( )( )0-1-( )( ) |
| | | | | | | | | 2.3 (.09) | 8.6 (.34) | ( )CP-( )( )1-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 10.2 (.40) | ( )CP-( )( )2-1-( )( ) |
| | | | | | | | | 5.5 (.22) | 11.9 (.47) | ( )CP-( )( )3-1-( )( ) |
| PC Board | 1.6 (.063) | — | 0.8 (.031) | — | — | 19.8 (.78) | 13.5 (.53) | 0.7 (.03) | 7.1 (.28) | ( )CB-( )( )0-1-( )( ) |
| | | | | | | | | 2.3 (.09) | 8.6 (.34) | ( )CB-( )( )1-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 10.2 (.40) | ( )CB-( )( )2-1-( )( ) |
| | | | | | | | | 5.5 (.22) | 11.9 (.47) | ( )CB-( )( )3-1-( )( ) |
| Flare-in | 1.5 (.058) | 3.2 (.125) | 0.8 (.031) | 1.8 (.070) | 0.4 (.015) | 19.3 (.76) | 12.7 (.50) | 1.2 (.05) | 7.9 (.31) | ( )CF-( )( )0-2-( )( ) |
| | 3.2 (.126) | 4.8 (.187) | | 3.4 (.135) | 1.6 (.062) | | | 2.7 (.11) | 9.4 (.37) | ( )CF-( )( )0-4-( )( ) |
| | 4.8 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 4.3 (.17) | 10.9 (.43) | ( )CF-( )( )0-6-( )( ) |
| | 6.3 (.251) | 7.9 (.312) | | 6.6 (.260) | 4.8 (.189) | | | 6.1 (.24) | 12.7 (.50) | ( )CF-( )( )0-8-( )( ) |
| | 1.5 (.058) | 3.2 (.125) | | 1.8 (.070) | 0.4 (.016) | | | 2.7 (.11) | 9.4 (.37) | ( )CF-( )( )1-2-( )( ) |
| | | | | | | | | 4.3 (.17) | 10.9 (.43) | ( )CF-( )( )2-2-( )( ) |
| | | | | | | | | 6.1 (.24) | 12.7 (.50) | ( )CF-( )( )3-2-( )( ) |
| | 3.2 (.125) | 4.8 (.189) | | 3.4 (.135) | 1.6 (.062) | | | 4.3 (.17) | 10.9 (.43) | ( )CF-( )( )1-4-( )( ) |
| | | | | | | | | 6.1 (.24) | 12.7 (.50) | ( )CF-( )( )2-4-( )( ) |
| | 4.7 (.188) | 6.4 (.250) | | 5 (.197) | 3.2 (.125) | | | 6.1 (.24) | 12.7 (.50) | ( )CF-( )( )1-6-( )( ) |
| Floating | — | 0.8 (.031) | 2.2 (.09) | 3.2 (.127) | 2.5 (.097) | 19.8 (.78) | 13.2 (.52) | 2.3 (.09) | 8.8 (.35) | ( )CL-( )( )0-0-( )( ) |
| | | | | | | | | 3.7 (.15) | 10.4 (.41) | ( )CL-( )( )1-0-( )( ) |
| | | | | | | | | 5.5 (.22) | 12.2 (.48) | ( )CL-( )( )2-0-( )( ) |
| | 0.8 (.031) | 1.6 (.063) | | 4 (.158) | 3.3 (.128) | | | 2.3 (.09) | 8.8 (.35) | ( )CL-( )( )0-1-( )( ) |
| | | | | | | | | 3.7 (.15) | 10.4 (.41) | ( )CL-( )( )1-1-( )( ) |
| | | | | | | | | 5.5 (.22) | 12.2 (.48) | ( )CL-( )( )2-1-( )( ) |
| | 1.6 (.063) | 2.4 (.094) | | 4.8 (.190) | 4.1 (.160) | | | 3.7 (.15) | 10.4 (.41) | ( )CL-( )( )0-2-( )( ) |
| | | | | | | | | 5.5 (.22) | 12.2 (.48) | ( )CL-( )( )1-2-( )( ) |

See page 3 for panel preparation details.

## Part Number Callout

| Series Code | | Captivation Code | |
|---|---|---|---|
| MC | Aluminum Knob | P | Press-in |
| TC | Plastic Knob | F | Flare-in |
| | | L | Floating |
| | | B | PC Board |

—

| Thread Code | | Drive Recess Code | | Screw Length Code |
|---|---|---|---|---|
| 04 | 4-40 | P | Phillips | See Specification Chart |
| 06 | 6-32 | S | Slotted | |
| 08 | 8-32 | T | Six-lobe | |
| 10 | 10-32 | C | Combo Slot Phillips | |
| 14 | 1/4-20 | | | |
| M3 | 3m | E | Combo Six-lobe/Slot | |
| 35 | 3.5mm | | | |
| M4 | 4mm | | | |
| M5 | 5mm | | | |
| M6 | 6mm | | | |

—

| Ferrule Length Code |
|---|
| See Specification Chart |

—

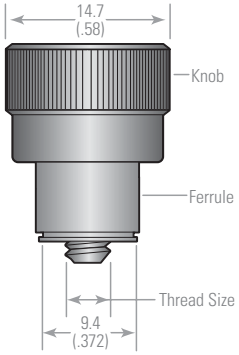
| Texture Code | | Finish Code | |
|---|---|---|---|
| A | 1/2 Knurl | N | Natural |
| S | Smooth | B | Black |
| K | Full Knurl | | |
| D | Diamond | | |
| H | 1/2 Diamond | | |

### Example Part Number: TCL-14P2-0-KN

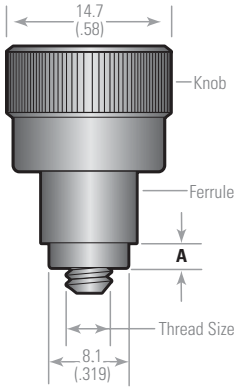
Also available with custom lengths, materials and sizes. Consult factory for details

## General Dimensions

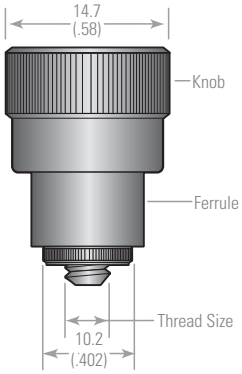
### Press-in



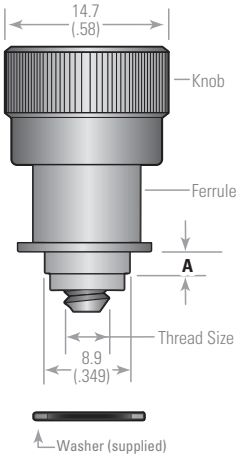

### Flare-in




### PC Board

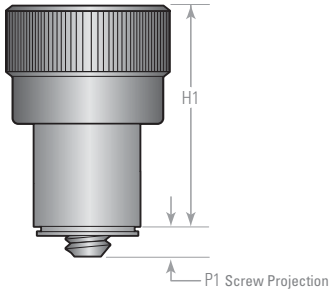



### Floating

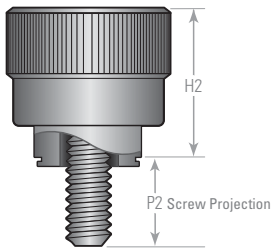



## Knob Height and Screw Projections

### Unfastened




### Fastened




## Material and Finish

### MC SERIES

#### Press-in
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

#### Flare-in
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

#### PC Board
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

#### Floating
**Screw:** 410 Series Stainless Steel, Natural Finish
**Knob:** 6000 Series Aluminum
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel
**Washer:** 300 Series Stainless Steel

### TC SERIES

#### Press-in
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

#### Flare-in
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel

#### PC Board
**Screw:** Hardened Carbon Steel, zinc plated Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** Low Carbon Steel, Heat Treated, Zinc Plated, Chromate Plus Sealer
**Spring:** 300 Series Stainless Steel

#### Floating
**Screw:** Hardened Carbon Steel, zinc plated, Chromate Plus Sealer
**Knob:** PC/ABS
**Ferrule:** 6000 Series Aluminum
**Spring:** 300 Series Stainless Steel
**Washer:** 300 Series Stainless Steel

## Q Series Quarter-Turn Fasteners

Quarter-turn fasteners quickly secure panels with simple turn to fastener.

- *Offered as a set with receptacle, stud and retainer or sold separately*
- *Available in both tool and head actuation styles*
- *Dozens of sizes, finishes, head styles and materials available*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 81 | – |
| 82 | – |
| 85 | – |

## MFL Series Speed Lead Fasteners & Receptacles

Unique, modified ACME square thread design allows for quick installation while dramatically improving misalignment.

- *Offered as a set with receptacle, stud and retainer or sold separately*
- *Available in multiple sizes, drive types, finishes and head styles - many receptacle types*
- *Ideal for repeatedly accessed applications*
- *Multiple mating receptacles and retainers also available*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 09 | – |
| 12 | – |
| 17 | – |

## Captive Plungers

Provide quick release for easy removal of components, racks and drawers.

- *Retractable pin allows for ease of locating into sliding components*
- *Available in press-in or thread-in installation styles*
- *Minimal retraction of knob ensures minimal effort of hand activation*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 56 | PTL2 |

## MF Series Flush Mount Panel Fasteners

Flush mount design offers ideal solution when there is minimal or virtually no space above the panel.

- *Tool access applications only*
- *Screw remains captive when disengaged*
- *Thread sizes #4 to 8-32 and M3 and M4*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| F5 | PF10 |

## MTS Series Snap-In Panel Fasteners

Quick and easy snap-in installation.

- *Minimal protrusion above panel*
- *Multiple ferrule material options, sizes and lengths to accomodate many applications*

## BCS Series Captive Screws

Polished, stainless steel screws offer a simple, basic captive solution.

- *Slotted drive (standard)*
- *Available in custom sizes, materials lengths and drive types*
- *Large knob for hand actuation*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 58 | – |

## MC Series Retractable Panel Fasteners

Spring-loaded fasteners offering the convenience of hand or tool tightening/removal.

- *Available in press-in, flare-in, floating and pc board installation styles*
- *Wide variety of drive recesses, knob texture and finishes*
- *Thread sizes #4 to 1/4 and M3 to M6*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 47 | PF11 |
| – | PF12 |
| – | PF13 |
| – | PF14 |

## MM Series Miniature Panel Fasteners

Low-head miniature fasteners *designed for installation in small "footprint" applications.*

- *Head design incorporates combination recesses and allows for finger or tool operation*
- *Available in press-in, flare-in or floating installation styles*
- *Thread sizes #4 to 1/4 and M3 to M6*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 52 | PFS2 |
| – | PFC2 |

## MP Series Low-Profile Panel Fasteners

Low-profile design offers minimal protrusion above the face of the panel.

- *Wide variety of drive recesses and finishes*
- *Available in press-in, flare-in or floating installation styles*
- *Thread sizes #4 to 1/4-20 and M3 to M6*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| – | PF30 |
| – | PF31 |
| – | PF32 |
| – | PF50 |
| – | PF60 |

# Inserts

## MSI Series Threaded Inserts

Offer a permanent steel thread that can be quickly installed into a wide variety of materials.

- *Exterior knurls offer secure grip withstanding torque and pull-out*
- *Smooth, tapered lead assists to guide screws*

| REPLACES | |
|---|---|
| SOUTHCO | PEM |
| 71 | – |
| 72 | – |

# Custom Hardware

Unlike most industry competitors, Matdan Corporation welcomes the opportunity to develop custom hardware. Whether you require special material, a unique length of a standard item, or need assistance in designing an entire captive assembly, Matdan is happy to assist!

QUALITY FASTENERS™

Matdan Corporation, founded in 1992, is a worldwide supplier of standard and specialty fasteners. Since our inception, we have emerged as a market leader in the fastener industry, specializing in captive fasteners, engineered specialty fasteners and related hardware. As a customer-driven solutions provider, we earn credibility and establish successful relationships by exceeding expectations for professional service, quality products and on-time delivery.

Headquartered in Cincinnati, Ohio, Matdan Corporation operates manufacturing facilities in the United States and China to better serve our customers worldwide. Matdan's extensive manufacturing capabilities include modelling, technical experience to design special fasteners and hardware for unique and specific applications.

Matdan Corporation wants to be your premier supplier of fasteners and hardware. Please contact us with your design requirements and allow us to provide an innovative solution for you today.



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