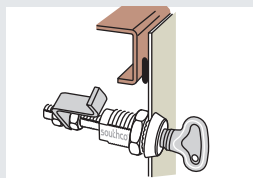
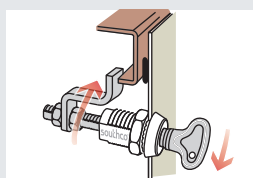


## E3 VISE ACTION® Compression Latch

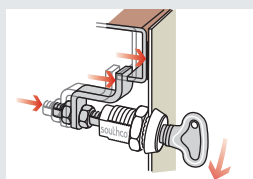
### Overview



First 90° turn:  
Cam rotates behind frame



The door is now **latched**  
against opening



Then as you complete the  
half-turn motion, the shaft  
and cam compress to pull the  
door snugly against the frame  
or gasket into the  
**locked position**

### Versatility and simplicity in action

Every **SOUTHCO® VISE ACTION®** Series latch solution starts with the single-turn latching and compressing action that is built into each model. At the heart of it all is our **VISE ACTION®** design that has proven itself in millions of installations.

#### Product features

- Suitable for a wide range of load configurations
- Excellent corrosion resistance
- Durable and reliable operation
- Multiple size, material and access configurations
- Compression achieved with minimal manual torque
- Suitable for NEMA 4 / IP65 applications

#### ➤ Match material and finish options for style and functionality requirements

Variety of materials and finishes to complement your application.

Die-cast zinc latch bodies standard finishes:



Chrome plated



Black powder  
coated



Silver powder  
coated

Stainless steel latch bodies are made by metal injection molding or precise machining.

Aluminum latch bodies standard finishes:



Black powder  
coated



Silver powder  
coated



Black hard  
anodized

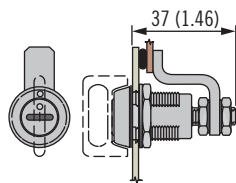


Clear powder  
coated

#### ➤ Select one of these three housing styles to fit your access requirements

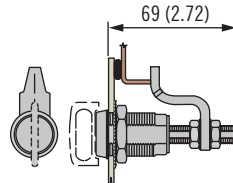
A series of basic housing styles of the **VISE ACTION®** compression latch have been developed to meet specific door configuration and mounting requirements - for depth, thickness, strength, grip dimension, and surface protrusion.

- Right and left hand actuation
- Optional pre-assembled cam for quick installation
- Wide choice of accessories



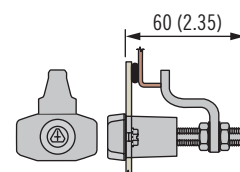
##### 13.5mm Size

- Optimum compression for use in confined space applications



##### 19.1mm Size

- Largest choice of head styles
- Maximum grip range in door to frame spacing
- Minimal protrusion style available



##### 3-Hole Mount

- Simplified round-hole mounting
- Suitable for thick, soft or weak panels

Other options available. For complete details on variety, part numbers, installation and specification, go to



[www.southco.com](http://www.southco.com)

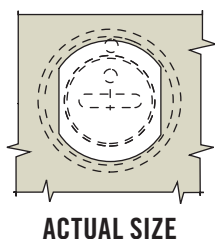
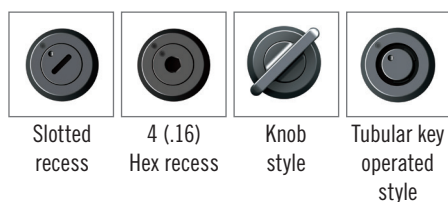
Dimensions in millimeters (inch) unless otherwise stated

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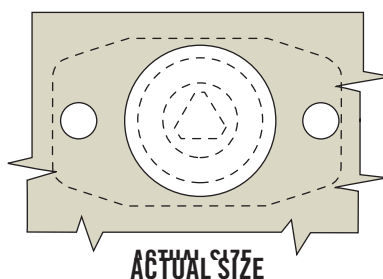
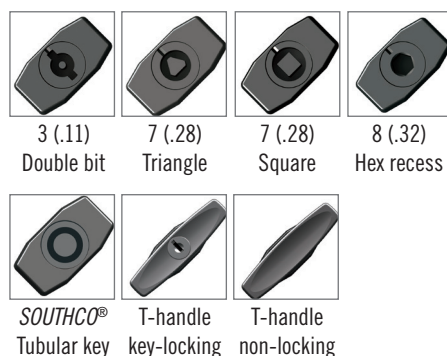
## ➔ Choose from a wide range of head styles to fit your application and industry requirements

- ➔ Convenient hand operated knob or T-handle styles for easy repetitive access
- ➔ Tool operated for restricted access, flush mount or low profile clearances, and industry specific standards or requirements
- ➔ Key operated for added security

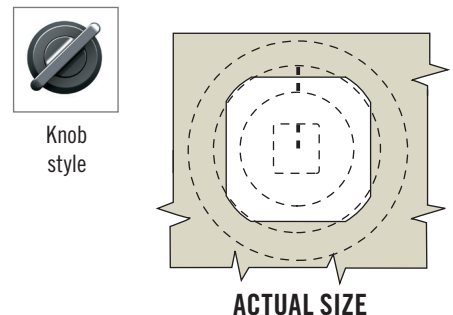
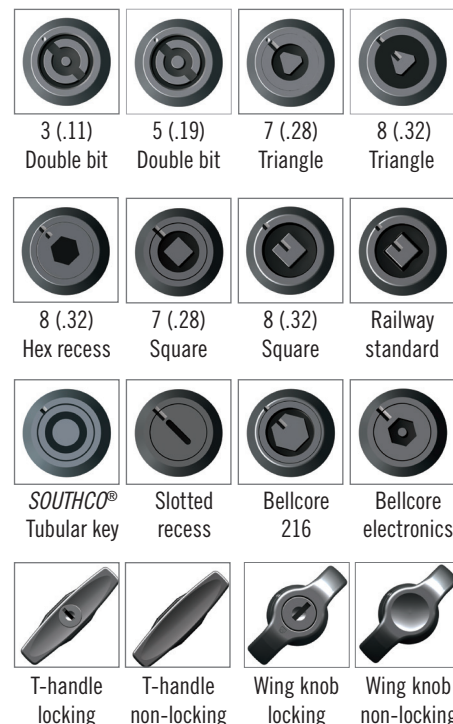
### 13.5mm single hole door preparation



### 3-Hole body door preparation



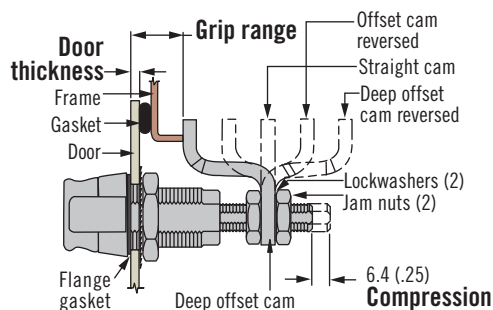
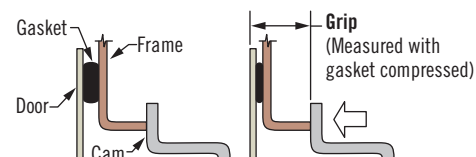
### 19.1mm single hole body door preparation



## ➔ Determine your grip options for a perfect fit

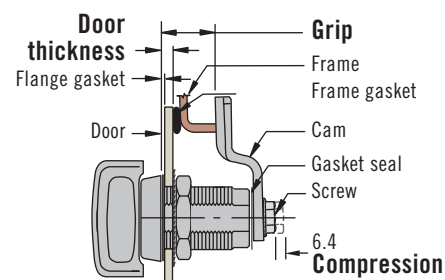
Grip dimension is an important consideration in compression latch applications involving gaskets for environmental or RFI sealing.

### For gasketed doors:



### Adjustable cam designs

- Maximum flexibility in tolerance or gasket compression
- Cam choice to suit a broad range of grip dimensions



### Fixed cam designs

- Precise fit and minimum internal protrusion
- Wide cam selection for accurate grip dimension



# E3 VISE ACTION® Compression Latch

Machined stainless steel housing · Tool operated

Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment
- Premium finish and corrosion resistance
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel (304 and 316 machined)

## Performance Details

Maximum static load:  
600 N (136 lbf)

## Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

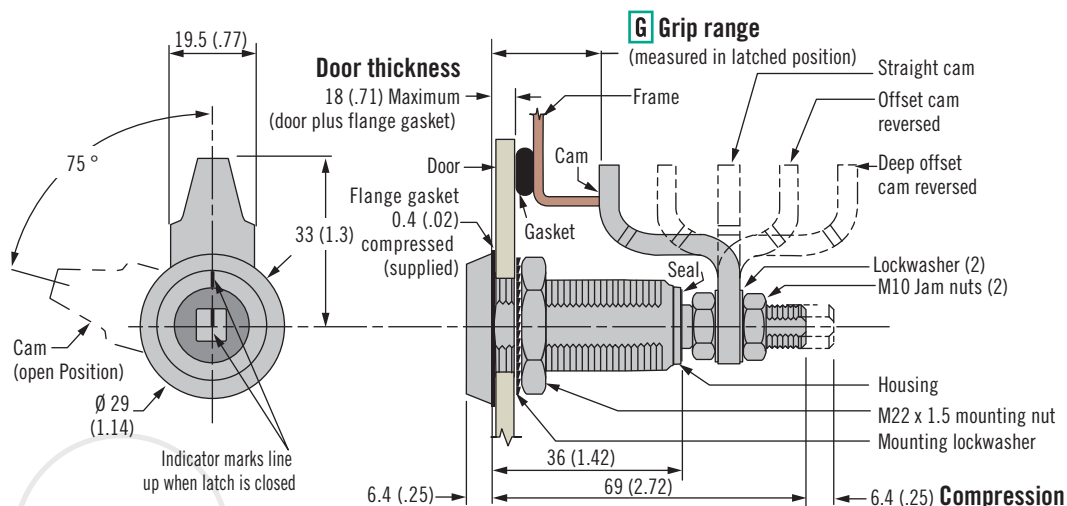
## Keys and Accessories

See page 90

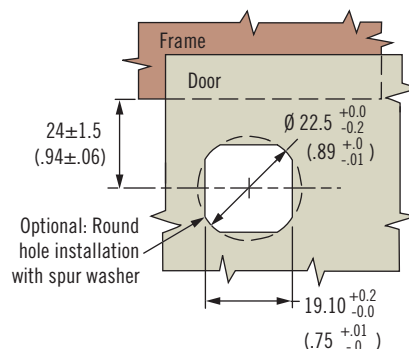
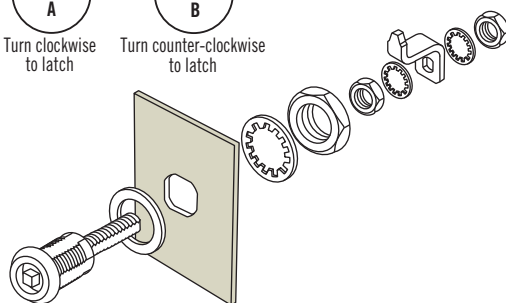
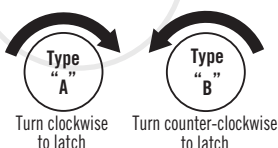
## Installation Notes

**Caution:** Position cam so latching function can be achieved comfortably by hand.

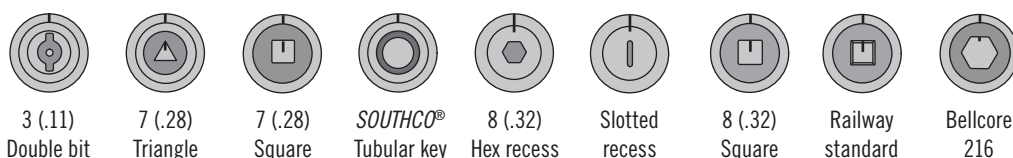
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).



## R Rotation



## H Head Styles



## Part Number Selection

See table

| H Head Style                         |                     |
|--------------------------------------|---------------------|
| 2 3 (.11) Double bit                 | 9 Slotted recess    |
| 3 7 (.28) Triangle                   | 10 8 (.32) Square   |
| 4 7 (.28) Square                     | 11 Railway standard |
| 5 SOUTHCO® Tubular key               | 15 Bellcore 216     |
| 6 8 (.32) Hex recess                 |                     |
| R Rotation                           |                     |
| 1 Type A clockwise to latch          |                     |
| 22 Type B counter-clockwise to latch |                     |

E3 - R H - G O

| G Grip | Minimum     | Maximum     | Cam Type                  |
|--------|-------------|-------------|---------------------------|
| 1      | 16.4 (.64)  | 32.2 (1.26) | Deep offset cam, forward  |
|        | 71.3 (2.80) | 81.2 (3.19) | Deep offset cam, reversed |
| 2      | 30.4 (1.19) | 46.1 (1.81) | Offset cam, forward       |
|        | 57.6 (2.26) | 73.3 (2.88) | Offset cam, reversed      |
| 3      | 43.9 (1.72) | 59.6 (2.34) | Straight cam              |

Other options available. For complete details on variety, part numbers, installation and specification, go to



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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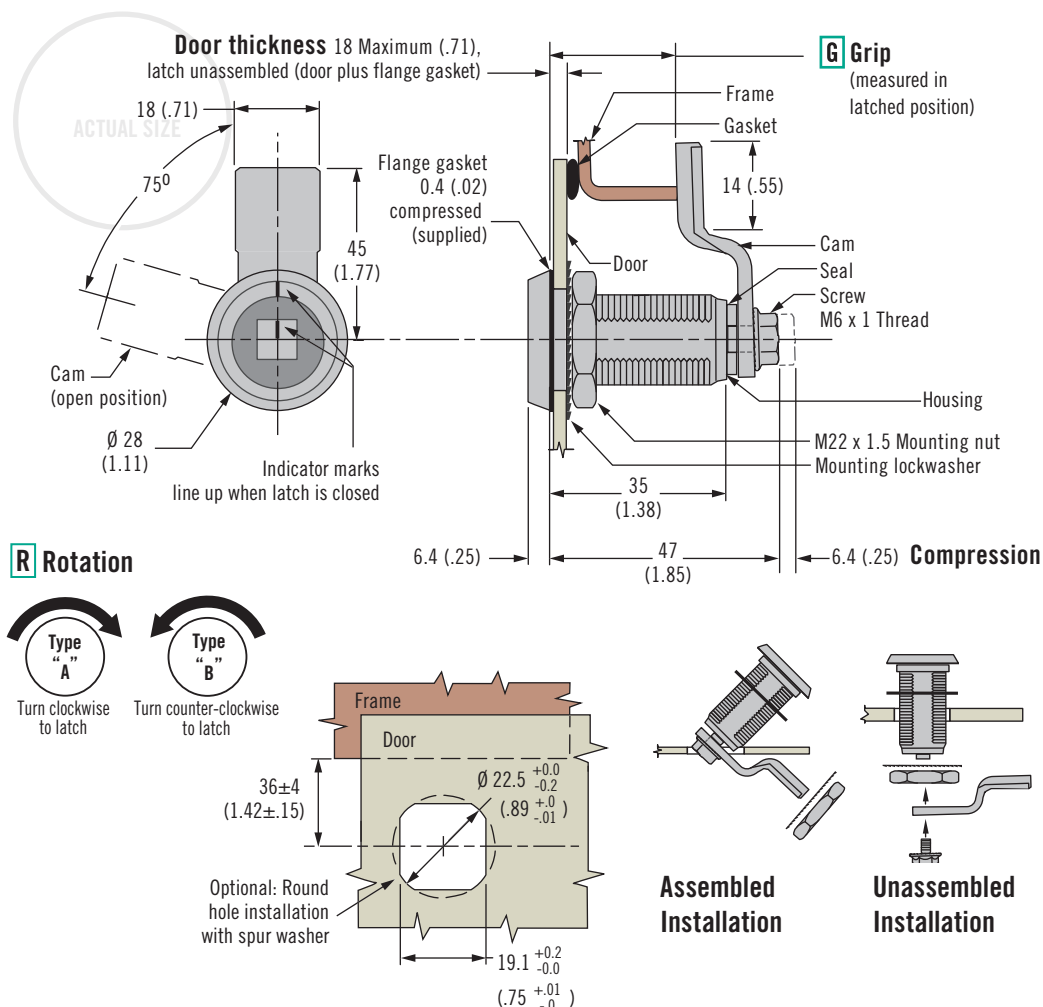
# E3 VISE ACTION® Compression Latch

Machined stainless steel housing · Tool operated

Fixed grip · 19.1mm size



79



- Consistent pre-set compression
- Premium finish and corrosion resistance
- Reduced internal protrusion
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel (304 and 316 machined)

## Performance Details

Maximum static load:  
450 N (100 lbf)

## Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

## Keys and Accessories

See page 90

## Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw is 10 N·m (88 in·lbf)

## Part Number Selection

See table

Select grip from table, if your grip is between two options choose smaller.

## H Head style

- 3 (.11) Double bit
- 7 (.28) Triangle
- 7 (.28) Square
- SOUTHCO® Tubular key
- 8 (.32) Hex recess
- Slotted recess
- 8 (.32) Square
- Railway standard
- Bellcore 216

## R Rotation

- Type A clockwise to latch - Latch assembled
- Type A clockwise to latch - Latch unassembled
- Type B counter-clockwise to latch - Latch assembled
- Type B counter-clockwise to latch - Latch unassembled

E3 - R H - G O

## G Grip Table

| Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch |
|------------|----|-----------------------------------------|------------|----|-----------------------------------------|------------|----|-----------------------------------------|------------|----|-----------------------------------------|
| 20 (.79)   | 00 | 1 (.04)                                 | 30 (1.18)  | 05 | 7 (.28)                                 | 40 (1.57)  | 10 | 7 (.28)                                 | 50 (1.97)  | 15 | 7 (.28)                                 |
| 22 (.87)   | 01 | 2 (.08)                                 | 32 (1.26)  | 06 |                                         | 42 (1.65)  | 11 |                                         | 52 (2.05)  | 16 |                                         |
| 24 (.94)   | 02 | 4 (.16)                                 | 34 (1.34)  | 07 |                                         | 44 (1.73)  | 12 |                                         | 54 (2.13)  | 17 |                                         |
| 26 (1.02)  | 03 | 5 (.20)                                 | 36 (1.42)  | 08 |                                         | 46 (1.81)  | 13 |                                         | 56 (2.20)  | 18 |                                         |
| 28 (1.10)  | 04 | 6 (.24)                                 | 38 (1.50)  | 09 |                                         | 48 (1.89)  | 14 |                                         | 58 (2.28)  | 19 |                                         |



# E3 VISE ACTION® Compression Latch

Metal injection molding stainless steel housing · Tool or hand operated  
Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel 316 and 304

## Performance Details

Maximum static load:  
556 N (125 lbf)

## Sealing Notes

NEMA 4 and IP65 enabled using  
gasket supplied

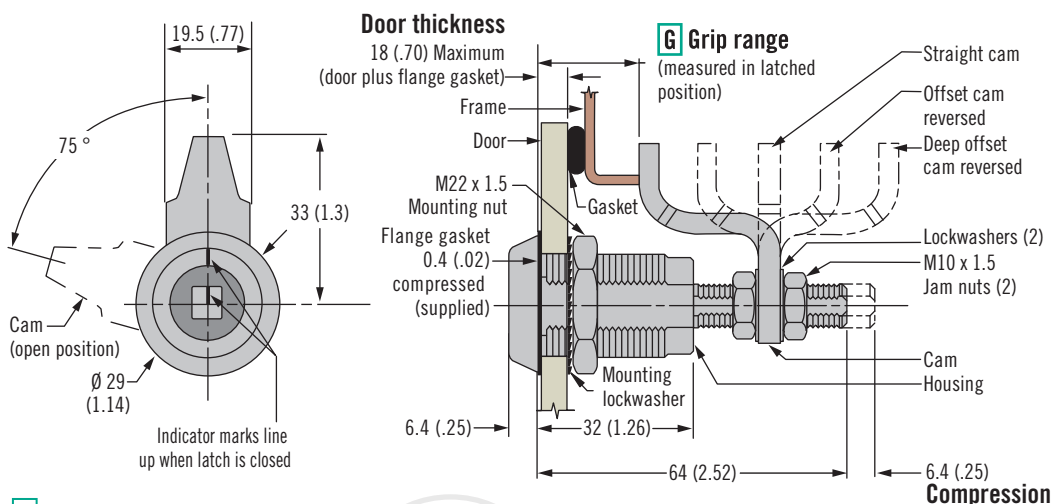
## Installation Notes

**Caution:** Position cam so latching  
function can be achieved  
comfortably by hand.

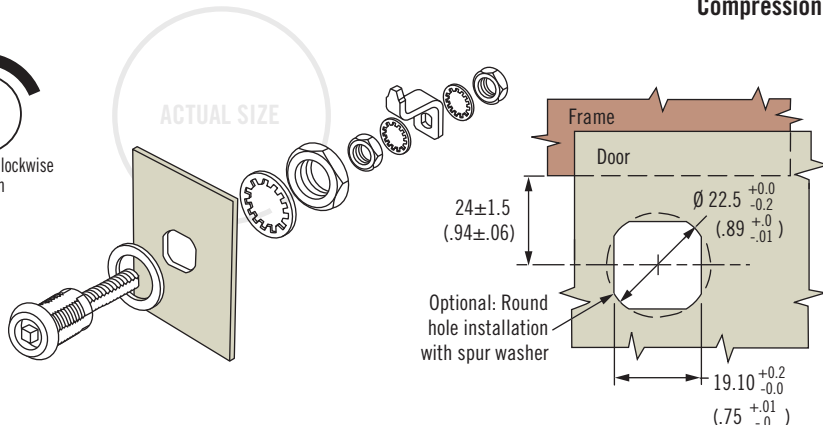
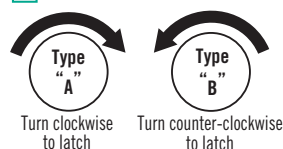
Recommended tightening torque  
for the mounting nut is  
20 N·m (176 in·lbf).

## Keys and Accessories

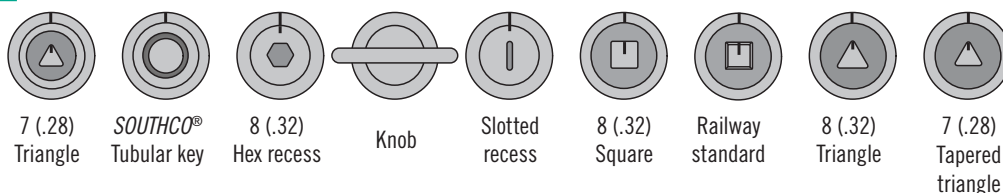
See page 90



## R Rotation



## H Head Styles



## Part Number Selection

See table

| E3 - R H - G F                       |                             |                             |                                             |
|--------------------------------------|-----------------------------|-----------------------------|---------------------------------------------|
| R Rotation                           | H Head style                | G Grip                      | F Finish                                    |
| 1 Type A clockwise to latch          | 3 7 (.28) Triangle          | 1 11.4 (.45) - 27.2 (1.07)  | 2 Electropolished                           |
| 22 Type B counter-clockwise to latch | 5 SOUTHCO® Tubular key      | 2 66.3 (2.61) - 76.2 (3.00) | 12 Electropolished and hand buffed (bright) |
|                                      | 6 8 (.32) Hex recess        |                             |                                             |
|                                      | 7 Knob                      |                             |                                             |
|                                      | 9 Slotted recess            |                             |                                             |
|                                      | 10 8 (.32) Square           |                             |                                             |
|                                      | 11 Railway standard         |                             |                                             |
|                                      | 20 8 (.32) Triangle         |                             |                                             |
|                                      | 39 7 (.28) Tapered triangle |                             |                                             |

| G Grip | Minimum     | Maximum     | Cam Type                  |
|--------|-------------|-------------|---------------------------|
| 1      | 11.4 (.45)  | 27.2 (1.07) | Deep offset cam, forward  |
|        | 66.3 (2.61) | 76.2 (3.00) | Deep offset cam, reversed |
| 2      | 25.4 (1.00) | 41.1 (1.62) | Offset cam, forward       |
|        | 52.6 (2.07) | 68.3 (2.69) | Offset cam, reversed      |
| 3      | 38.9 (1.53) | 54.6 (2.15) | Straight cam              |

Other options available. For complete details  
on variety, part numbers, installation and  
specification, go to



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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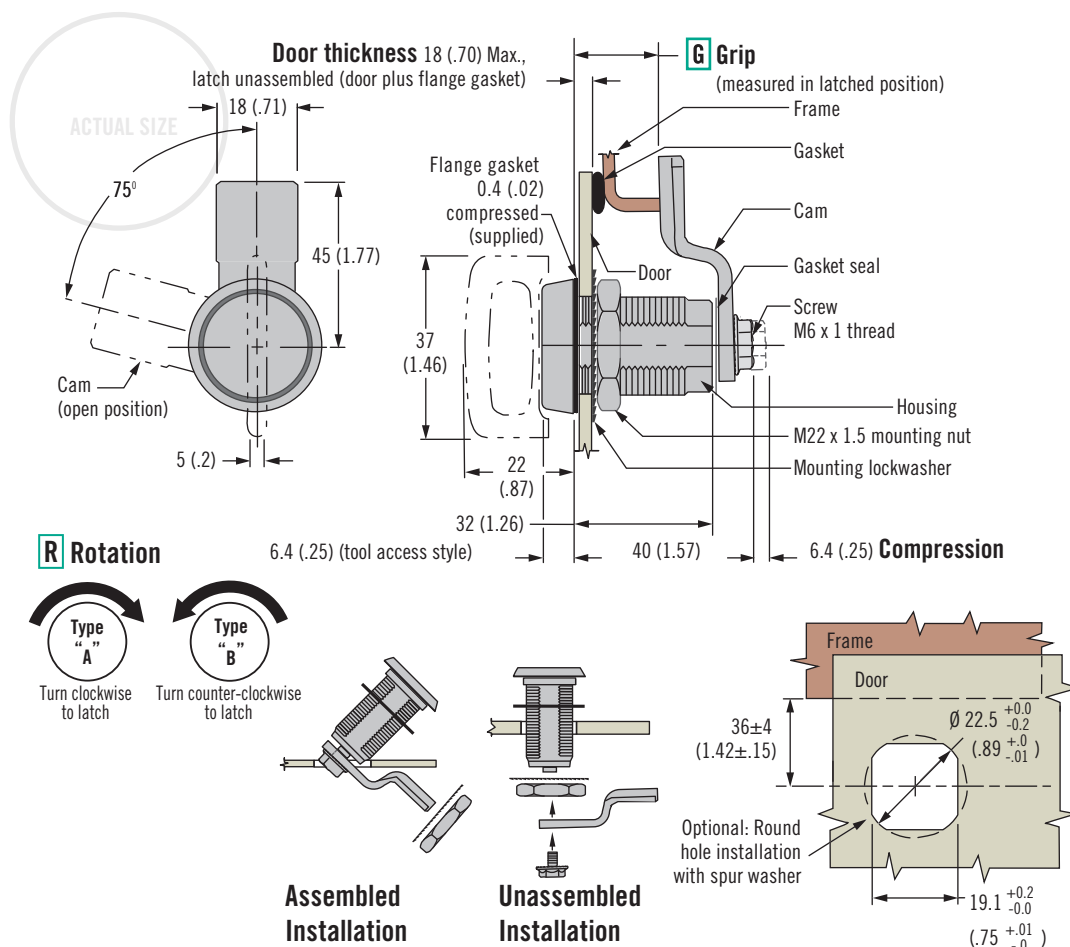
# E3 VISE ACTION® Compression Latch

Metal injection molding stainless steel housing · Tool or hand operated

Fixed grip · 19.1mm size



81



## H Head style

- |                        |                             |
|------------------------|-----------------------------|
| 3 7 (.28) Triangle     | 11 Railway standard         |
| 5 SOUTHCO® Tubular key | 20 8 (.32) triangle         |
| 6 8 (.32) Hex recess   | 39 7 (.28) Tapered triangle |
| 7 Knob                 |                             |
| 9 Slotted recess       |                             |
| 10 8 (.32) Square      |                             |

## R Rotation

- |                                                          |
|----------------------------------------------------------|
| 10 Type A clockwise to latch - Latch assembled           |
| 12 Type A clockwise to latch - Latch unassembled         |
| 27 Type B counter-clockwise to latch - Latch assembled   |
| 29 Type B counter-clockwise to latch - Latch unassembled |

## F Finish

- |                                             |
|---------------------------------------------|
| 2 Electropolished                           |
| 12 Electropolished and hand buffed (bright) |

E3 - R H - G F

## G Grip Table

| Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch |
|------------|----|-----------------------------------------|------------|----|-----------------------------------------|------------|----|-----------------------------------------|------------|----|-----------------------------------------|
| 15 (.59)   | 00 | Use unassembled                         | 25 (.98)   | 05 | 5 (.20)                                 | 35 (1.38)  | 10 | 7 (.28)                                 | 45 (1.77)  | 15 | 7 (.28)                                 |
| 17 (.67)   | 01 | Use unassembled                         | 27 (1.06)  | 06 | 6 (.24)                                 | 37 (1.46)  | 11 |                                         | 47 (1.85)  | 16 |                                         |
| 19 (.75)   | 02 | 1 (.04)                                 | 29 (1.14)  | 07 | 7 (.28)                                 | 39 (1.53)  | 12 |                                         | 49 (1.93)  | 17 |                                         |
| 21 (.83)   | 03 | 2 (.08)                                 | 31 (1.22)  | 08 |                                         | 41 (1.61)  | 13 |                                         | 51 (2.01)  | 18 |                                         |
| 23 (.91)   | 04 | 4 (.16)                                 | 33 (1.30)  | 09 |                                         | 43 (1.69)  | 14 |                                         | 53 (2.09)  | 19 |                                         |

- Consistent pre-set compression
- Tool or hand operated
- Reduced internal protrusion
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel 316 and 304

## Performance Details

Maximum static load:  
450 N (100 lbf)

## Sealing Notes

NEMA 4 / IP65 enabled using gasket supplied

## Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

## Keys and Accessories

See page 90

## Part Number Selection

See table

Select grip from table, if your grip is between two options choose smaller.



# E3 VISE ACTION® Compression Latch

Cast 316 stainless steel housing · Hand operated

Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment
- Premium finish and corrosion resistance
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel

## Performance Details

Maximum static load:  
600 N (136 lbf)

## Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

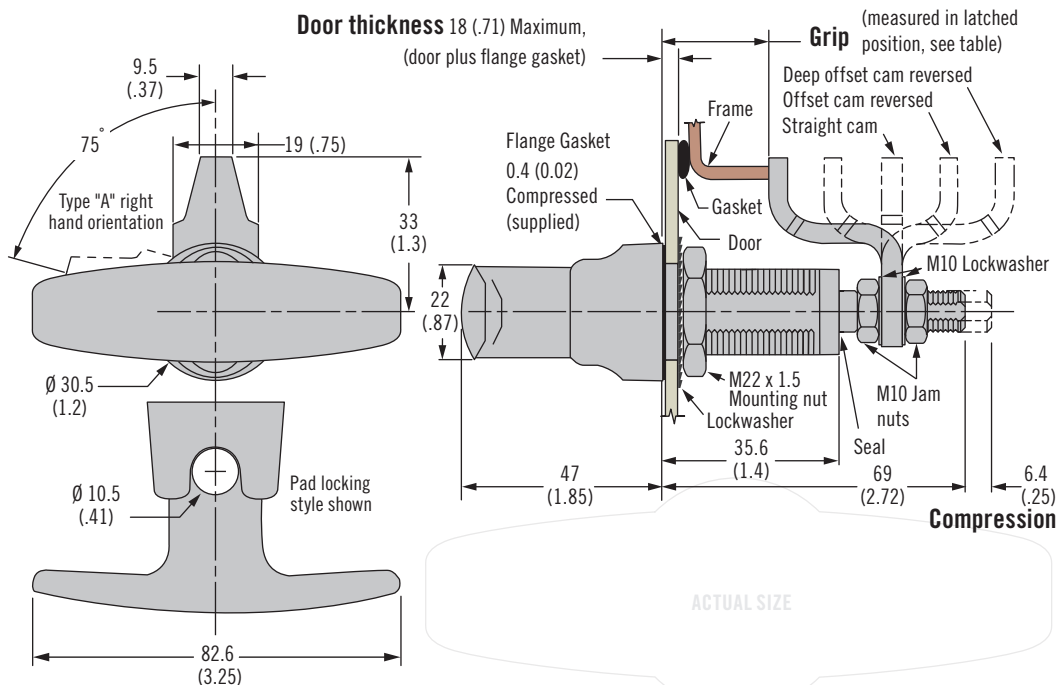
## Installation Notes

**Caution:** Position cam so latching function can be achieved comfortably by hand.  
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

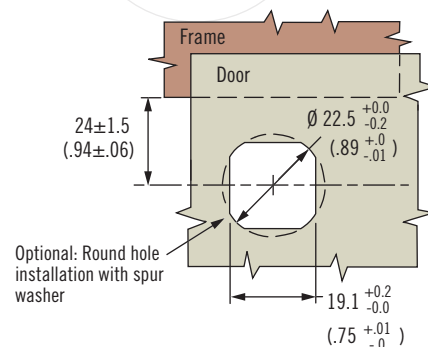
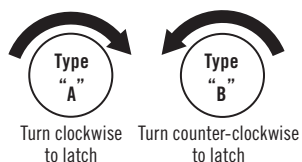
## Part Number Selection

See table

Order latch and cam separately



## R Rotation



## Latch Part Number (no cam)

| Cam Part Number Table (order separately from latch) |              |                           |              |
|-----------------------------------------------------|--------------|---------------------------|--------------|
| Minimum Grip                                        | Maximum Grip | Cam Type                  | Part Number  |
| 16.4 (.64)                                          | 32.2 (1.26)  | Deep offset cam, forward  | E3-28-201-24 |
| 71.3 (2.80)                                         | 81.2 (3.19)  | Deep offset cam, reversed |              |
| 30.4 (1.19)                                         | 46.1 (1.81)  | Offset cam, forward       | E3-28-202-24 |
| 57.6 (2.26)                                         | 73.3 (2.88)  | Offset cam, reversed      |              |
| 43.9 (1.72)                                         | 59.6 (2.34)  | Straight cam              | E3-28-203-24 |

**E3 - R H - 012**

- R** Rotation
- 1 Type A clockwise to latch
- 22 Type B counter-clockwise to latch

- H** Head Style
- 1 Non-locking
- 60 Padlocking

Other options available. For complete details on variety, part numbers, installation and specification, go to



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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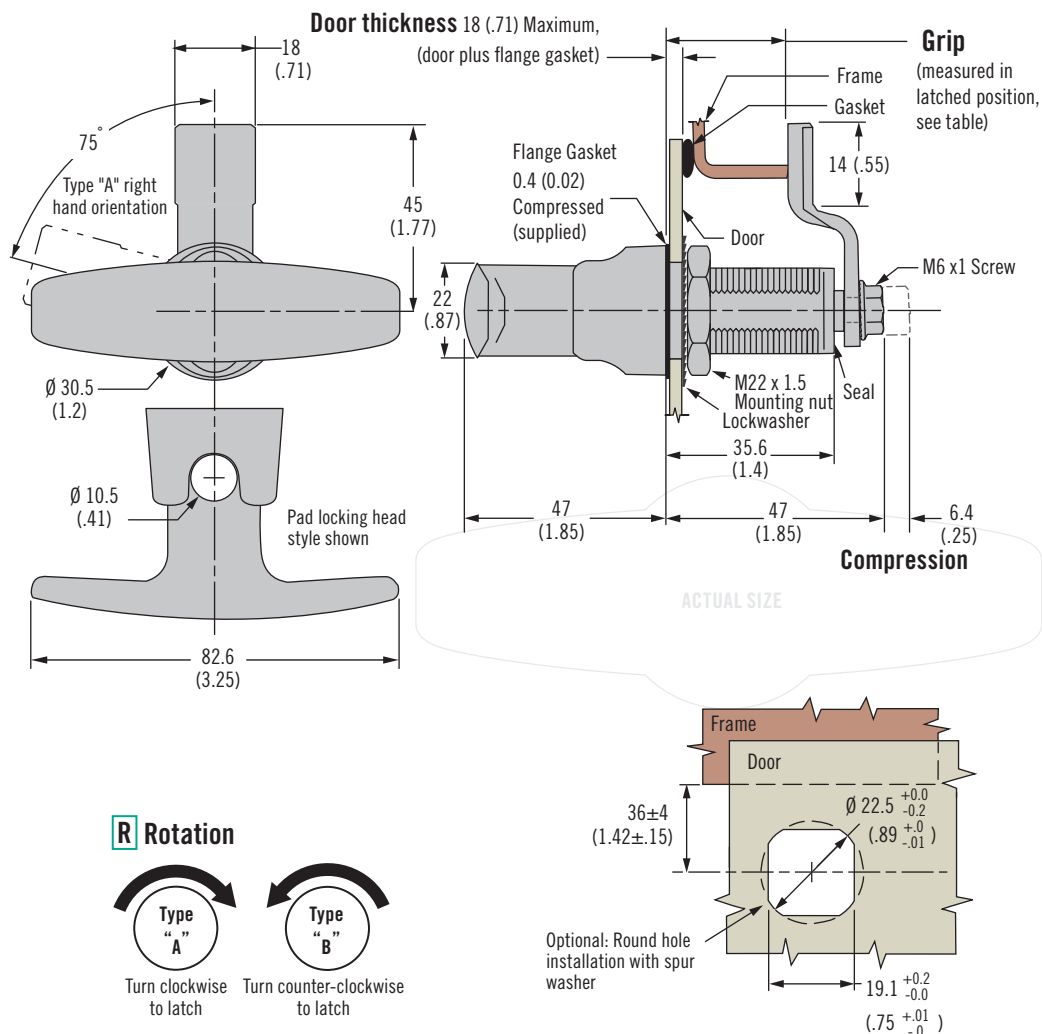
# E3 VISE ACTION® Compression Latch

Cast 316 stainless steel housing · Hand operated

Fixed grip · 19.1mm size



81B



Latch Part Number (no cam)

**E3 - R H - UU12**

**R Rotation**

12 Type A clockwise to latch

29 Type B counter-clockwise to latch

**H Head Style**

1 Non-locking

60 Padlocking

Cam Part Number Table (order separately from latch)

| Grip      | Part Number | Grip      | Part Number | Grip      | Part Number | Grip      | Part Number |
|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| 20 (.79)  | E5-1200-24  | 30 (1.18) | E5-1205-24  | 40 (1.57) | E5-1210-24  | 50 (1.97) | E5-1215-24  |
| 22 (.87)  | E5-1201-24  | 32 (1.26) | E5-1206-24  | 42 (1.65) | E5-1211-24  | 52 (2.05) | E5-1216-24  |
| 24 (.94)  | E5-1202-24  | 34 (1.34) | E5-1207-24  | 44 (1.73) | E5-1212-24  | 54 (2.13) | E5-1217-24  |
| 26 (1.02) | E5-1203-24  | 36 (1.42) | E5-1208-24  | 46 (1.81) | E5-1213-24  | 56 (2.20) | E5-1218-24  |
| 28 (1.10) | E5-1204-24  | 38 (1.50) | E5-1209-24  | 48 (1.89) | E5-1214-24  | 58 (2.28) | E5-1219-24  |

- Consistent pre-set compression
- Reduced internal protrusion
- Premium finish and corrosion resistance
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel

## Performance Details

Maximum static load:

450 N (100 lbf)

## Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

## Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for mounting screw 10 N·m (88 in·lbf).

## Part Number Selection

See table

Order latch and cam separately

Select grip from table, if your grip is between two options choose smaller.

Other options available. For complete details on variety, part numbers, installation and specification, go to



[www.southco.com/E3](http://www.southco.com/E3)



## E3 VISE ACTION® Compression Latch

Metal injection molding stainless steel housing · Tool or hand operated  
Adjustable grip · 13.5mm size

- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- Reduced dimensions
- EN 45545-3 E60 Compliant

### Material and Finish

Stainless steel 316 and 304

### Performance Details

Maximum static load: 356 N (80 lbf)

### Sealing Notes

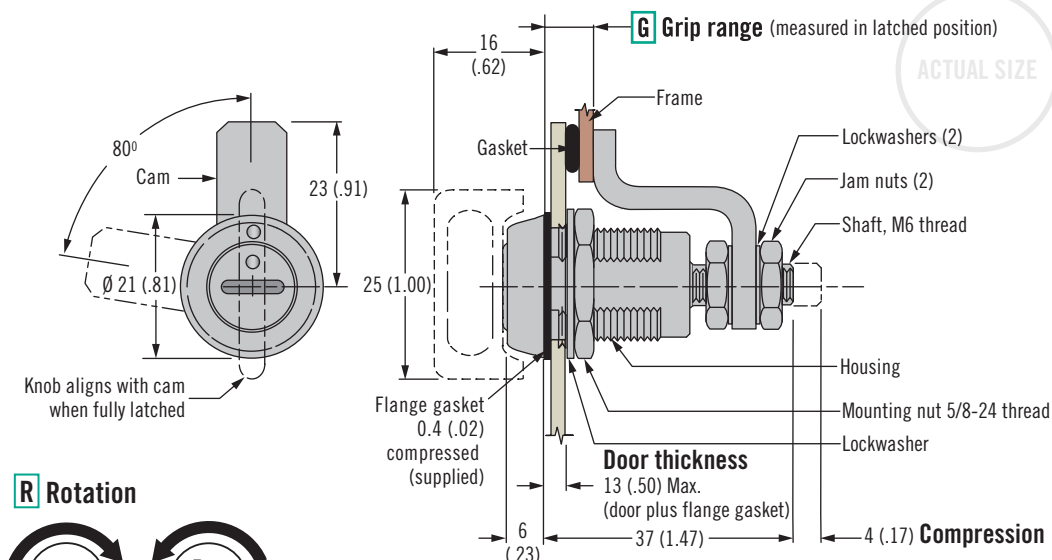
NEMA 4 / IP65 enabled using gasket supplied

### Installation Notes

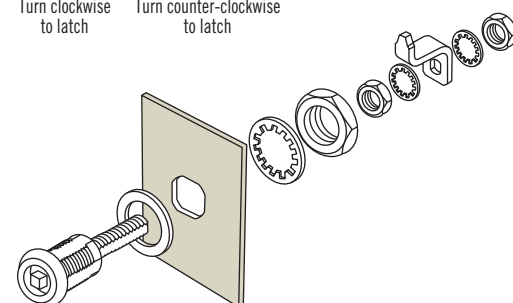
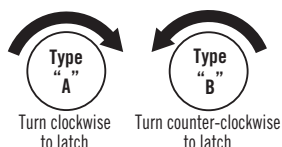
**Caution:** Position cam so latching function can be achieved comfortably by hand.

### Accessories

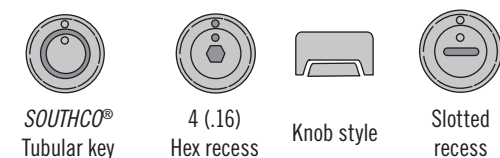
See page 90



### R Rotation



### H Head Styles



### Part Number Selection

See table

### H Head style

- 5 SOUTHCO® Tubular key
- 6 Hex recess
- 7 Knob style
- 9 Slotted

### R Rotation

- 5 Type A clockwise to latch
- 24 Type B counter-clockwise to latch

### F Finish

- 2 Electropolished
- 12 Electropolished and hand buffed (bright)

**E3 - R H - G F**

| G Grip | Minimum    | Maximum     |
|--------|------------|-------------|
| 1      | 3.2 (.13)  | 6.4 (.25)   |
| 2      | 6.4 (.25)  | 9.5 (.37)   |
| 3      | 9.5 (.37)  | 12.7 (.50)  |
| 4      | 12.7 (.50) | 15.9 (.63)  |
| 5      | 15.9 (.63) | 19 (.75)    |
| 6      | 19 (.75)   | 22.2 (.87)  |
| 7      | 22.2 (.87) | 25.4 (1)    |
| 8      | 25.4 (1)   | 28.6 (1.13) |

Other options available. For complete details on variety, part numbers, installation and specification, go to



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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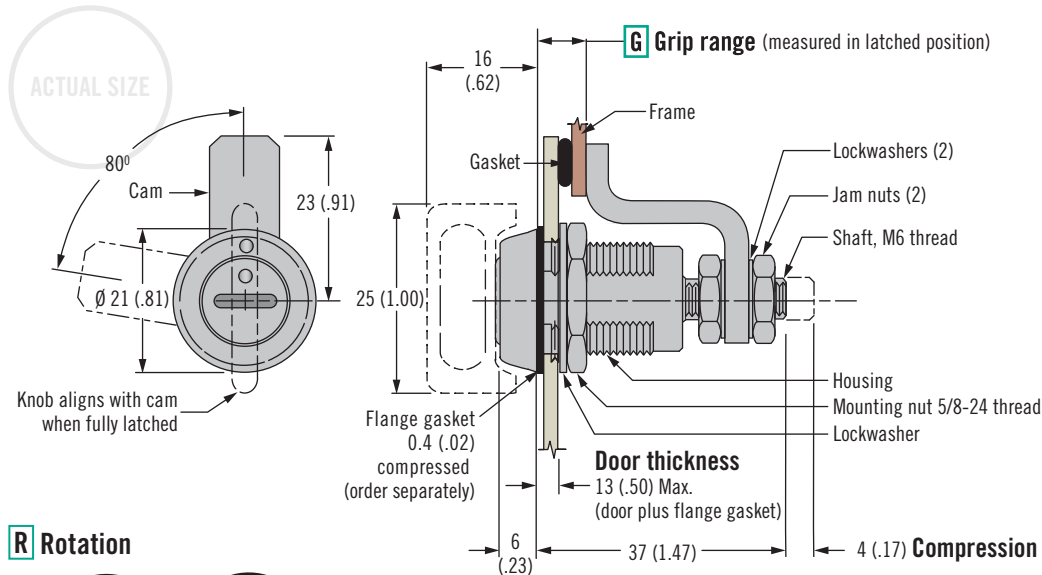
# E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated

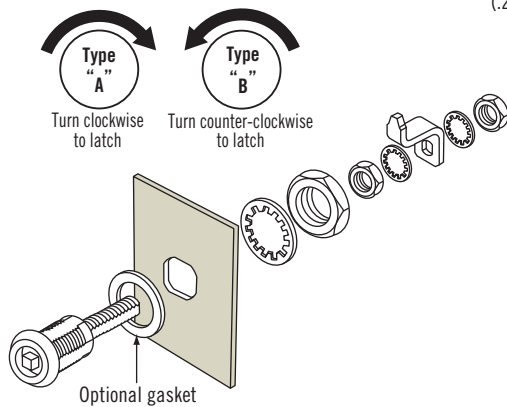
Adjustable grip · 13.5mm size



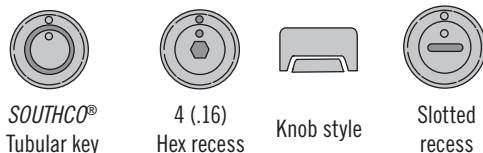
83



## R Rotation



## H Head Styles



## H Head style

- 5 SOUTHCO® Tubular key
- 6 Hex recess
- 7 Knob style
- 9 Slotted recess

**E3 - R H - G F**

## R Rotation

- 5 Type A clockwise to latch
- 24 Type B counter-clockwise to latch

## F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

| G Grip | Minimum    | Maximum     |
|--------|------------|-------------|
| 1      | 3.2 (.13)  | 6.4 (.25)   |
| 2      | 6.4 (.25)  | 9.5 (.37)   |
| 3      | 9.5 (.37)  | 12.7 (.50)  |
| 4      | 12.7 (.50) | 15.9 (.63)  |
| 5      | 15.9 (.63) | 19 (.75)    |
| 6      | 19 (.75)   | 22.2 (.87)  |
| 7      | 22.2 (.87) | 25.4 (1)    |
| 8      | 25.4 (1)   | 28.6 (1.13) |

- Consistent pre-set compression
- Easy grip adjustment
- Tool or hand operated
- Reduced dimensions
- EN 45545-3 E10 Compliant

## Material and Finish

Zinc alloy, powder coated and steel, zinc plated

## Performance Details

Maximum static load: 330 N (75 lbf)

## Sealing Notes

NEMA 4 / IP65 sealing is enabled by using optional flange gasket.

Flange gasket part number: E3-0-30268-02

## Installation Notes

**Caution:** Position cam so latching function can be achieved comfortably by hand.

## Accessories

See page 90

## Part Number Selection

See table

Zinc and plated steel · Tool or hand operated

Adjustable grip · 19.1mm size

- ## Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

## Performance Details

Maximum static load:  
450 N (100 lbf)

## Sealing Notes

NEMA 4 / IP65 sealing is enabled by using optional flange gasket.

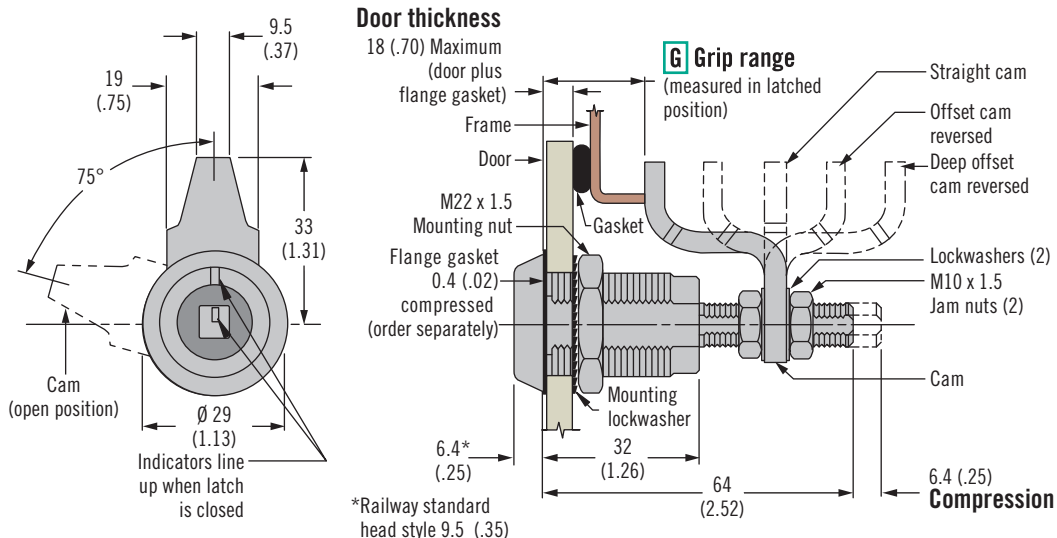
Flange gasket part number: E5-17

## Installation Notes

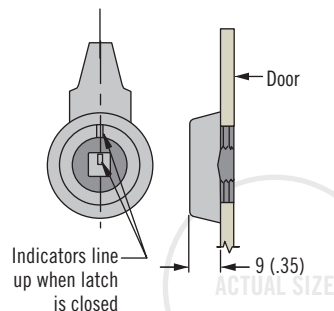
**Caution:** Position cam so latching function can be achieved comfortably by hand. Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

## Keys and Accessories

See page 90

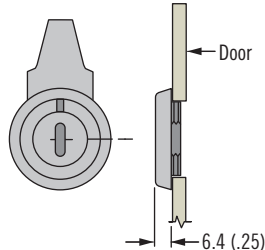


## Railway Standard - Bellcore 216

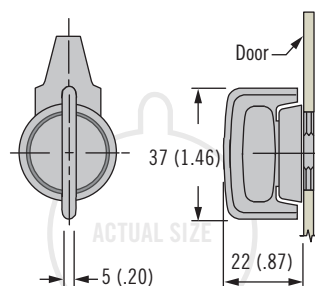


### Other Tool Head Styles

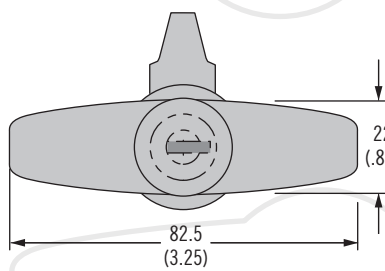
(slotted recess shown)



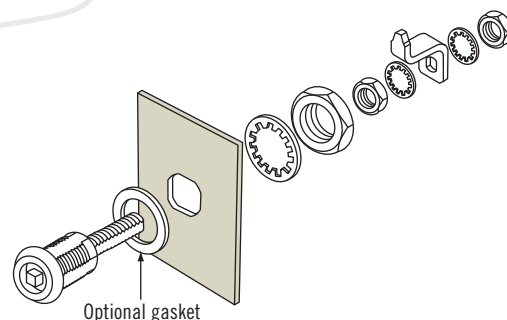
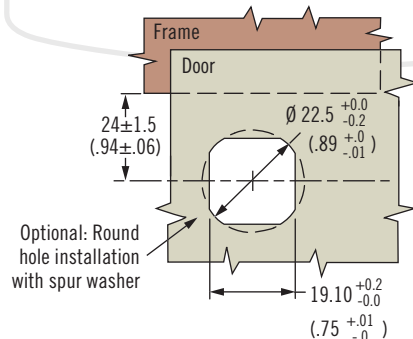
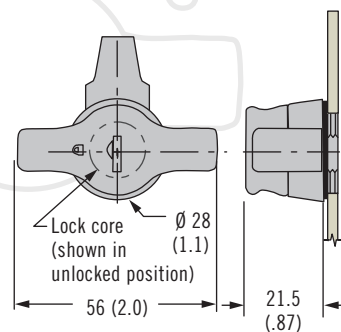
### Knob Style



### T-Handle Style



### Wing Knob Style



*Other options available. For complete details on variety, part numbers, installation and specification, go to*

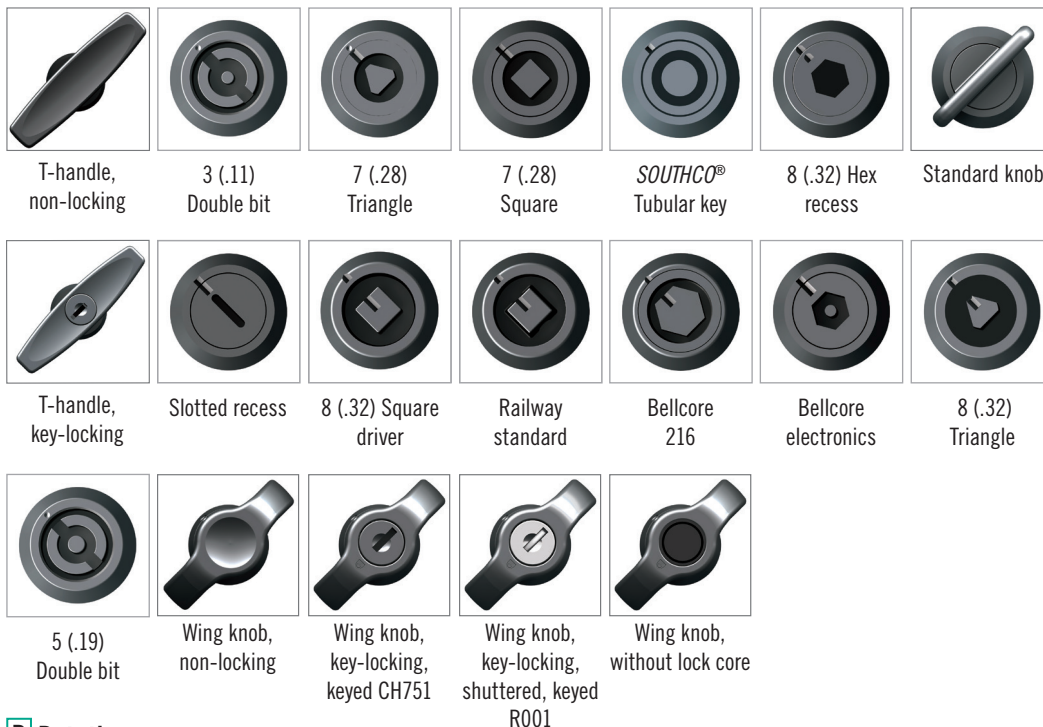


[www.southco.com/E3](http://www.southco.com/E3)

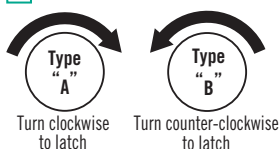
Dimensions in millimeters (inch) unless otherwise stated

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## H Head Styles (other head styles available)



## R Rotation



## Part Number Selection

See table

**E3 - R H - G F**

### R Rotation

- 1 Type A clockwise to latch
- 22 Type B counter-clockwise to latch

### H Head style

- 1 T-handle, non-locking
- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 5 SOUTHCO® Tubular key
- 6 8 (.32) Hex recess
- 7 Standard knob
- 8 T-Handle, key-locking keyed CH751 (two flat keys supplied)
- 9 Slotted recess
- 10 8 (.32) Square driver
- 11 Railway standard
- 15 Bellcore 216
- 16 Bellcore electronics
- 20 8 (.32) Triangle
- 48 5 (.19) Double bit
- 50 Wing knob, non-locking
- 51 Wing knob, key-locking, keyed CH751 (1 overmolded key supplied)
- 58 Wing knob, key-locking, keyed R001 (1 overmolded key supplied)
- 59 Wing knob (no lock)

### F

- Finish
- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

| G Grip | Minimum     | Maximum     | Cam Type                  |
|--------|-------------|-------------|---------------------------|
| 1      | 11.4 (.45)  | 27.2 (1.07) | Deep offset cam, forward  |
|        | 66.3 (2.61) | 76.2 (3.00) | Deep offset cam, reversed |
| 2      | 25.4 (1)    | 41.1 (1.62) | Offset cam, forward       |
|        | 52.6 (2.07) | 68.3 (2.69) | Offset cam, reversed      |
| 3      | 38.9 (1.53) | 54.6 (2.15) | Straight cam              |



## E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated

Fixed grip · 19.1mm size

- Consistent pre-set compression
- Quick install
- Reduced internal protrusion
- EN 45545-3 E10 Compliant

### Material and Finish

Zinc alloy, powder coated or chrome plated and steel plated

### Performance Details

Maximum static load: 300 N (67 lbf)

### Sealing Notes

NEMA 4 / IP65 sealing is enabled by using optional flange gasket.

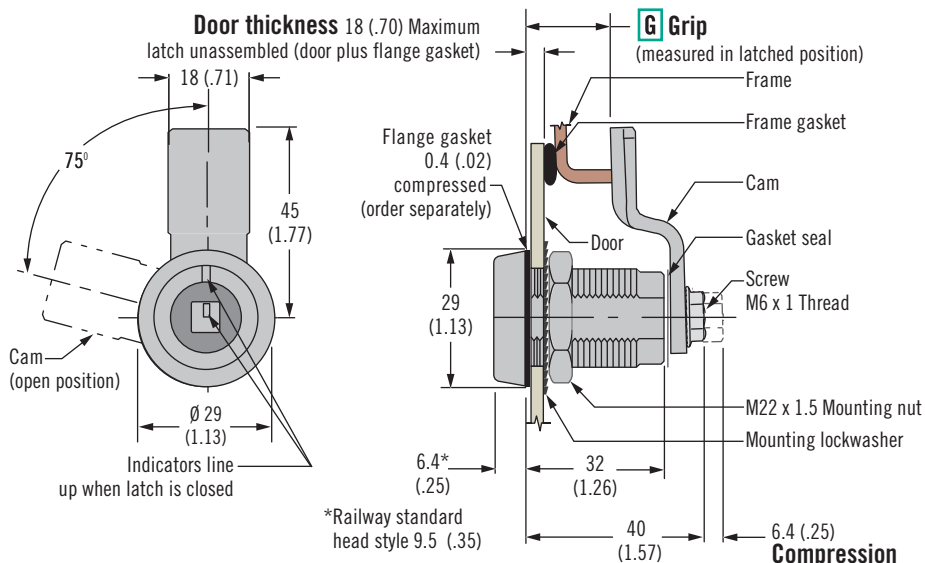
Flange gasket part number: E5-17

### Installation Notes

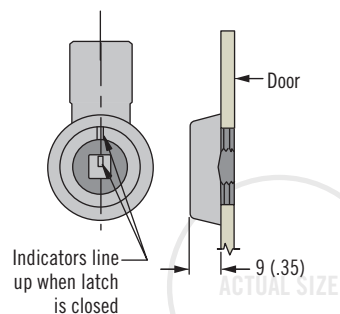
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

### Keys and Accessories

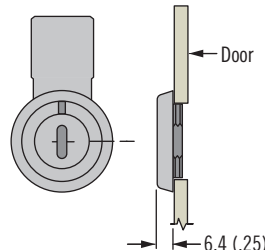
See page 90



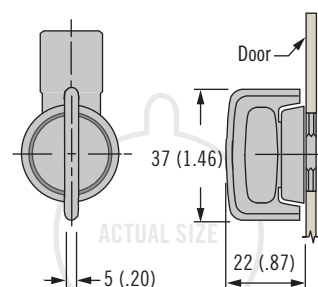
### Railway Standard - Bellcore 216



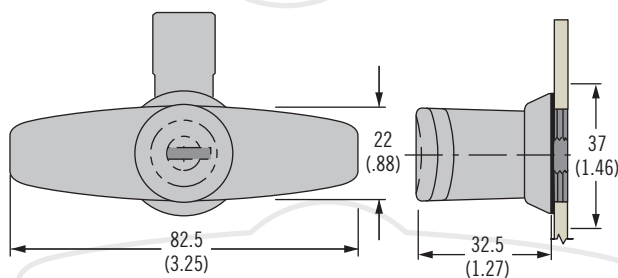
### Other Tool Head Styles (slotted recess shown)



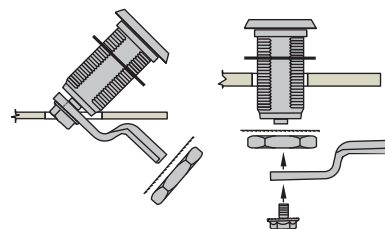
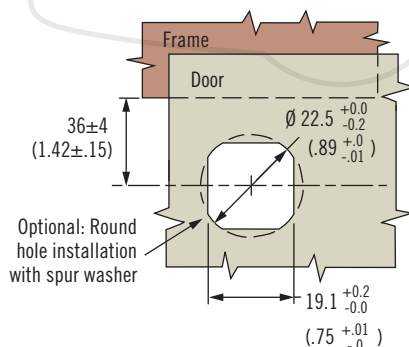
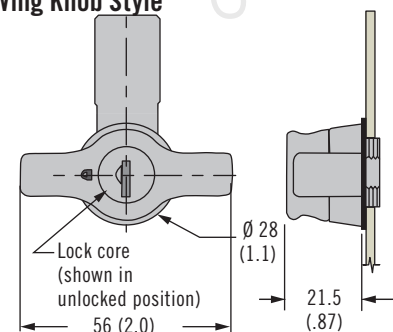
### Knob Style



### T-Handle Style



### Wing Knob Style



Other options available. For complete details on variety, part numbers, installation and specification, go to

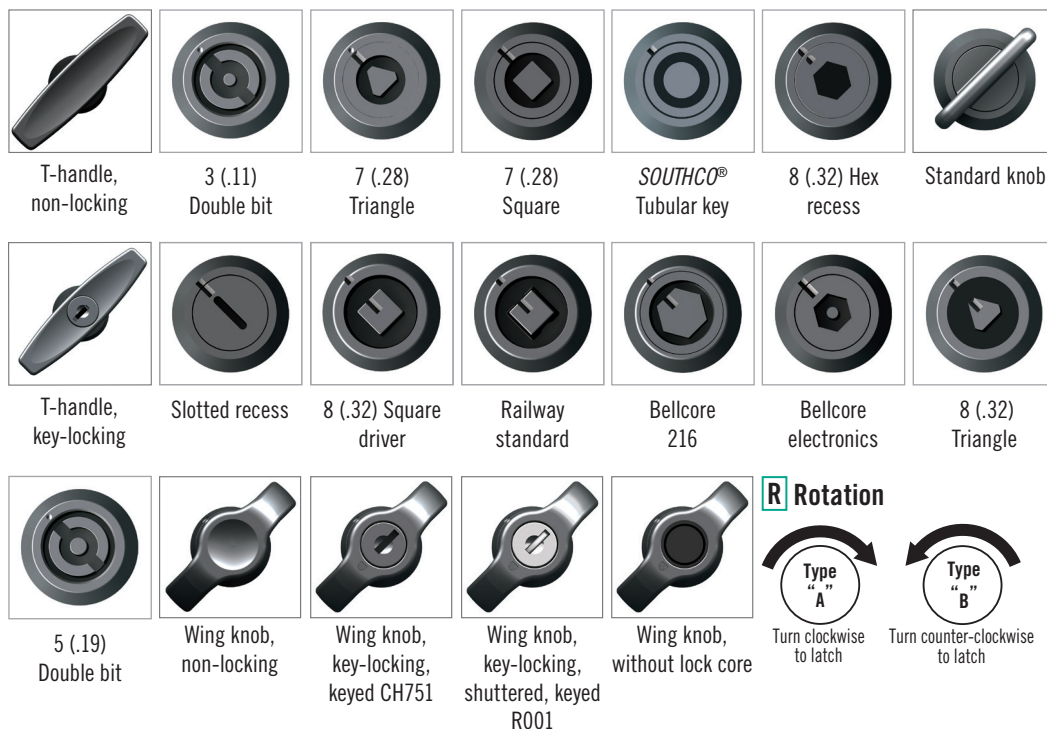


[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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## H Head Styles (other head styles available)



**Part Number Selection**  
See table

**E3 - R H - G F**

### R Rotation

- 10 Type A clockwise to latch - Latch assembled
- 12 Type A clockwise to latch - Latch unassembled
- 27 Type B counter-clockwise to latch - Latch assembled
- 29 Type B counter-clockwise to latch - Latch unassembled

### F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

### H Head style

- 1 T-handle, non-locking
- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 5 *SOUTHCO*® Tubular key
- 6 8 (.32) Hex recess
- 7 Standard knob
- 8 T-Handle, key-locking keyed CH751 (two flat keys supplied)
- 9 Slotted recess
- 10 8 (.32) Square driver
- 11 Railway standard
- 15 Bellcore 216
- 16 Bellcore electronics
- 20 8 (.32) Triangle
- 48 5 (.19) Double bit
- 50 Wing knob, non-locking
- 51 Wing knob, locking, keyed CH751 (1 overmolded key supplied)
- 58 Wing knob, locking, keyed R001 (1 overmolded key supplied)
- 59 Wing knob (no lock)

### G Grip Table

| Total Grip | G  | Maximum Door Thickness for Assembled Latch | Total Grip | G  | Maximum Door Thickness for Assembled Latch |
|------------|----|--------------------------------------------|------------|----|--------------------------------------------|
| 15 (.59)   | 00 | Use unassembled                            | 35 (1.38)  | 10 | 7 (.28)                                    |
| 17 (.67)   | 01 | Use unassembled                            | 37 (1.46)  | 11 |                                            |
| 19 (.75)   | 02 | 1 (.04)                                    | 39 (1.53)  | 12 |                                            |
| 21 (.83)   | 03 | 2 (.08)                                    | 41 (1.61)  | 13 |                                            |
| 23 (.91)   | 04 | 4 (.16)                                    | 43 (1.69)  | 14 |                                            |
| 25 (.98)   | 05 | 5 (.20)                                    | 45 (1.77)  | 15 | 7 (.28)                                    |
| 27 (1.06)  | 06 | 6 (.24)                                    | 47 (1.85)  | 16 |                                            |
| 29 (1.14)  | 07 | 7 (.28)                                    | 49 (1.93)  | 17 |                                            |
| 31 (1.22)  | 08 |                                            | 51 (2.01)  | 18 |                                            |
| 33 (1.30)  | 09 |                                            | 53 (2.09)  | 19 |                                            |



# E3 VISE ACTION® Compression Latch

Zinc and plated steel · Tool or hand operated

Three hole mount · Adjustable grip · 19.1mm size

- Consistent pre-set compression
- Easy grip adjustment

## Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

## Performance Details

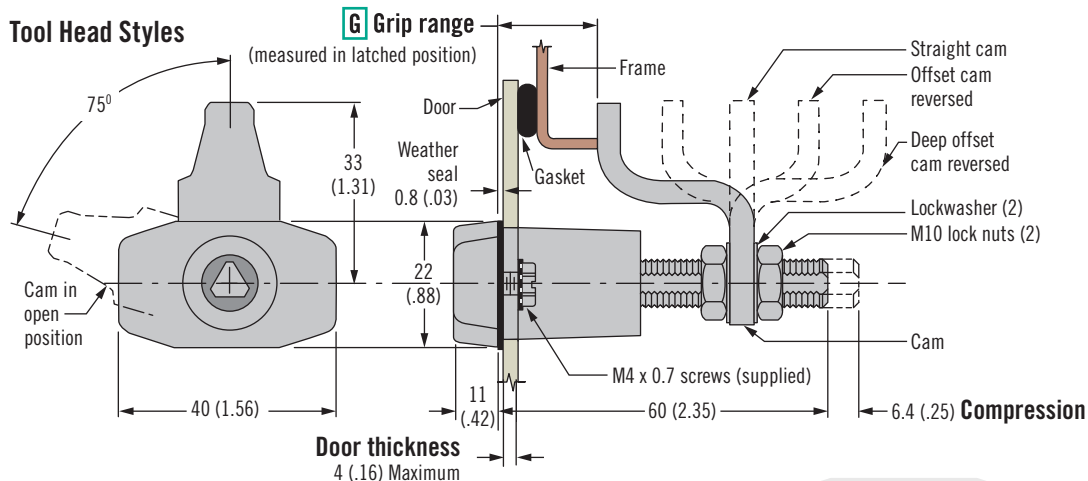
Maximum static load:  
450 N (100 lbf)

## Installation Notes

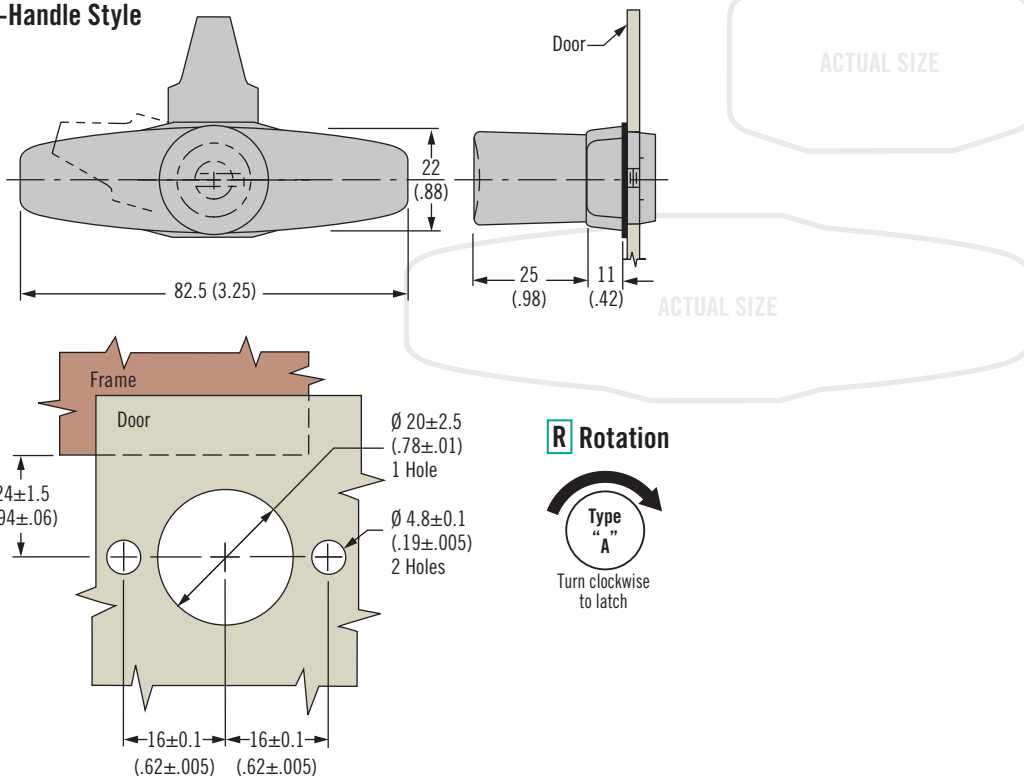
For door thickness greater than 4 (.16) calculate screw length using the following formula:  
Door thickness + 6 (.24)

## Keys and Accessories

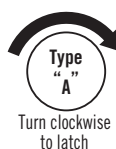
See page 90



## T-Handle Style



## R Rotation



## Part Number Selection

See table

| G Grip | Minimum     | Maximum     | Cam Type                  |
|--------|-------------|-------------|---------------------------|
| 1      | 7.9 (.31)   | 23.6 (.93)  | Deep offset cam, forward  |
|        | 62.7 (2.47) | 76.2 (3.00) | Deep offset cam, reversed |
| 2      | 21.8 (.86)  | 37.3 (1.47) | Offset cam, forward       |
|        | 49 (1.93)   | 64.8 (2.55) | Offset cam, reversed      |
| 3      | 35.3 (1.39) | 51 (2.00)   | Straight cam              |

## H Head style

- 1 T-handle non-locking
- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 5 SOUTHCO® Tubular key
- 6 8 (.32) Hex recess
- 8 T-Handle locking keyed CH751 (two flat keys supplied)

## F Finish

- 1 Chrome plated
- 5 Black powder coated
- 7 Silver powder coated

E3 - R H - G F

## R Rotation

- 3 Type A clockwise to latch



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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# E3 VISE ACTION® Compression Latch

Aluminum · Tool Operated · Adjustable grip  
19.1mm size

- **Light Weight**
- **Premium finish and corrosion resistance**
- **Easy grip adjustment**
- **EN 45545-3 E30 Compliant**

## Material and Finish

Aluminum, Anodized or Powder Coated.

Black hard anodized assembly -  
Stainless Steel cam and hardware  
All other finishes - Steel cam and hardware

## Performance Details

Maximum static load: 530 N (120 lbf)

Complies with DIN EN 61373  
vibration standard

## Sealing Notes

NEMA 4 and IP65 achieved using  
gasket supplied

## Installation Notes

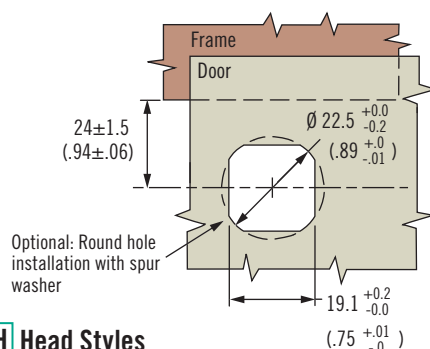
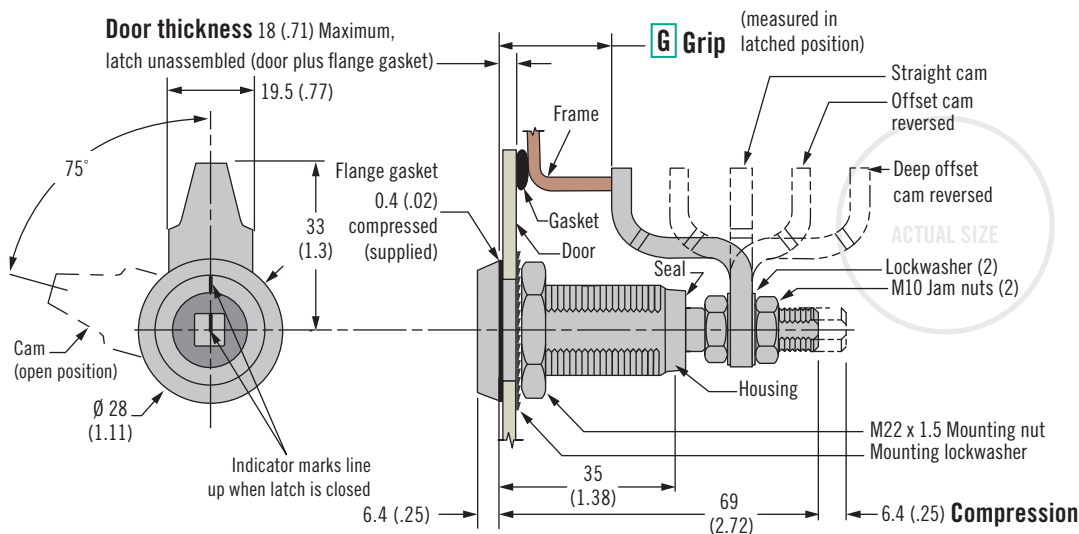
**Caution:** Position cam so latching  
function can be achieved  
comfortably by hand.

Recommended tightening torque for  
the mounting nut is 20 N·m  
(176 in·lbf)

Keys and accessories see page 90

## Part Number Selection

See table.



## H Head Styles



7 (.28)  
Triangle



7 (.28)  
Square



8 (.32)  
Hex recess



Slotted  
Recess



8 (.32)  
Square



Railway  
standard

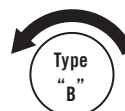


Bellcore  
216

## R Rotation



Turn clockwise  
to latch



Turn counter-clockwise  
to latch

## R Rotation

- 1 Type A clockwise to latch  
22 Type B counter-clockwise to latch

E3 - R H - G F

## F Finish

- 59 Black Hard Anodized  
06 Clear Powder Coat  
56 Black Powder Coat  
76 Silver Powder Coat

## H Head style

- 3 7 (.28) Triangle  
4 7 (.28) Square  
6 8 (.32) Hex recess  
9 Slotted Recess  
10 8 (.32) Square  
11 Railway standard  
15 Bellcore 216

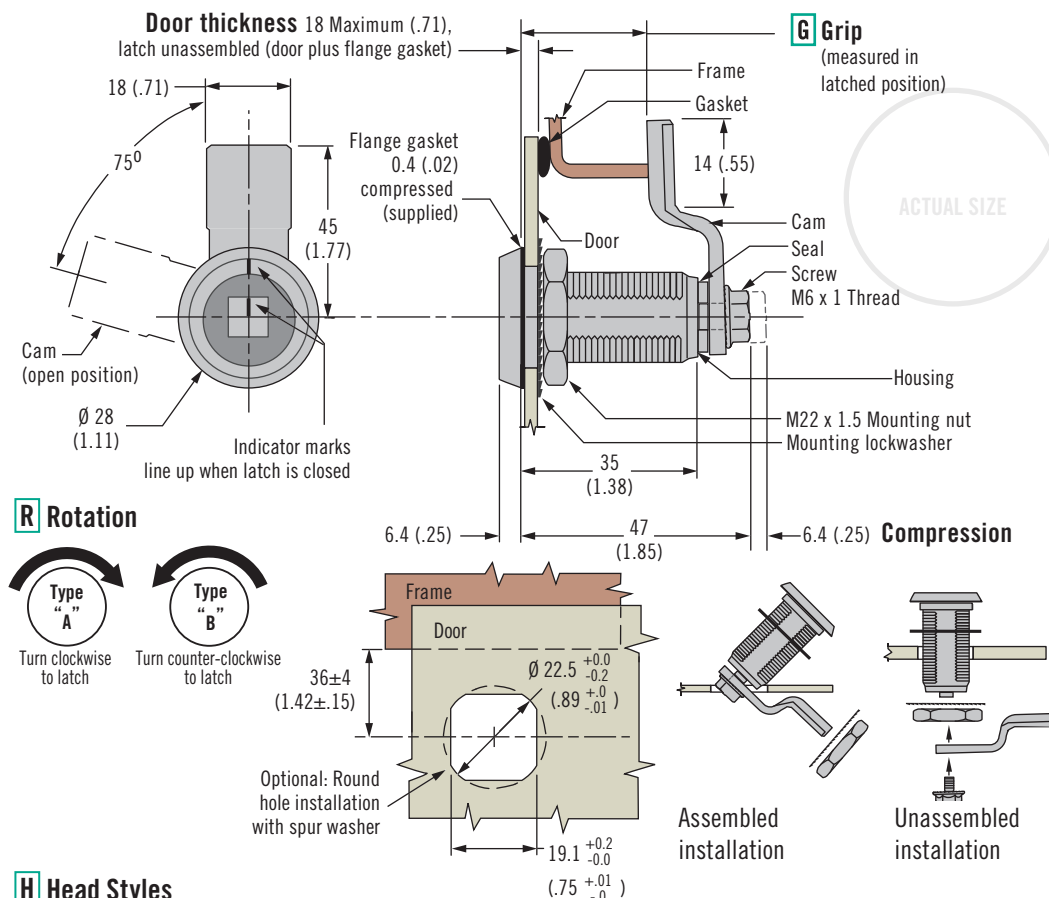
| G Grip | Minimum     | Maximum     | Cam Type                  |
|--------|-------------|-------------|---------------------------|
| 1      | 16.4 (.64)  | 32.2 (1.26) | Deep offset cam, forward  |
|        | 71.3 (2.80) | 81.2 (3.19) | Deep offset cam, reversed |
| 2      | 30.4 (1.19) | 46.1 (1.81) | Offset cam, forward       |
|        | 57.6 (2.26) | 73.3 (2.88) | Offset cam, reversed      |
| 3      | 43.9 (1.72) | 59.6 (2.34) | Straight cam              |

# E3 VISE ACTION® Compression Latch

Aluminum · Tool Operated · Fixed grip  
19.1mm size



89



## H Head Styles



7 (.28)  
Triangle



7 (.28)  
Square



8 (.32)  
Hex recess



8 (.32)  
Slotted Recess



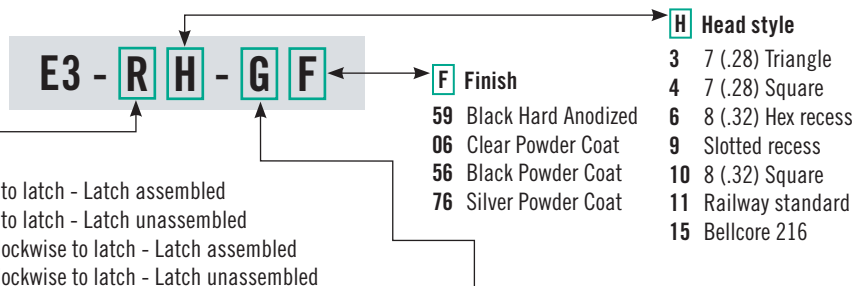
8 (.32)  
Square



8 (.32)  
Railway standard



8 (.32)  
Bellcore 216



## G Grip Table

| Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip  | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch | Total Grip | G  | Max. Door Thickness for Assembled Latch |
|------------|----|-----------------------------------------|-------------|----|-----------------------------------------|------------|----|-----------------------------------------|------------|----|-----------------------------------------|
| 20 (.79)   | 00 | 1 (.04)                                 | 30 (1.18)   | 05 | 7 (.28)                                 | 40 (1.57)  | 10 | 7 (.28)                                 | 50 (1.97)  | 15 | 7 (.28)                                 |
| 22 (.87)   | 01 | 2 (.08)                                 | 32.5 (1.28) | 06 |                                         | 42 (1.65)  | 11 |                                         | 52 (2.05)  | 16 |                                         |
| 24 (.94)   | 02 | 4 (.16)                                 | 34 (1.34)   | 07 |                                         | 44 (1.73)  | 12 |                                         | 54 (2.13)  | 17 |                                         |
| 26 (1.02)  | 03 | 5 (.20)                                 | 36 (1.42)   | 08 |                                         | 46 (1.81)  | 13 |                                         | 56 (2.20)  | 18 |                                         |
| 28 (1.10)  | 04 | 6 (.24)                                 | 38 (1.50)   | 09 |                                         | 48 (1.89)  | 14 |                                         | 58 (2.28)  | 19 |                                         |

- Light Weight
- Premium finish and corrosion resistance
- Reduced internal protrusion
- EN 45545-3 E30 Compliant

## Material and Finish

Aluminum, Anodized or Powder Coated.

Black hard anodized assembly - Stainless Steel cam and hardware  
All other finishes - Steel Cam and hardware

## Performance Details

Maximum static load: 450 N (102 lbf)

Complies with DIN EN 61373

vibration standard

(See [www.southco.com](http://www.southco.com) for details)

## Sealing Notes

NEMA 4 and IP65 achieved using gasket supplied

## Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw is 10 N·m (88 in·lbf)

Keys and accessories see page 90

## Part Number Selection

Select grip from table, if your grip is between two options choose smaller.



# E3 VISE ACTION® Compression Latch

Machined stainless steel housing · Tool operated  
Adjustable grip · 19.1mm size · Compact

- Minimal panel intrusion
- Consistent pre-set compression
- Easy grip adjustment
- Premium finish and corrosion resistance
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel  
(304 and 316 machined)

## Performance Details

Maximum static load:  
600 N (136 lbf)

## Sealing Notes

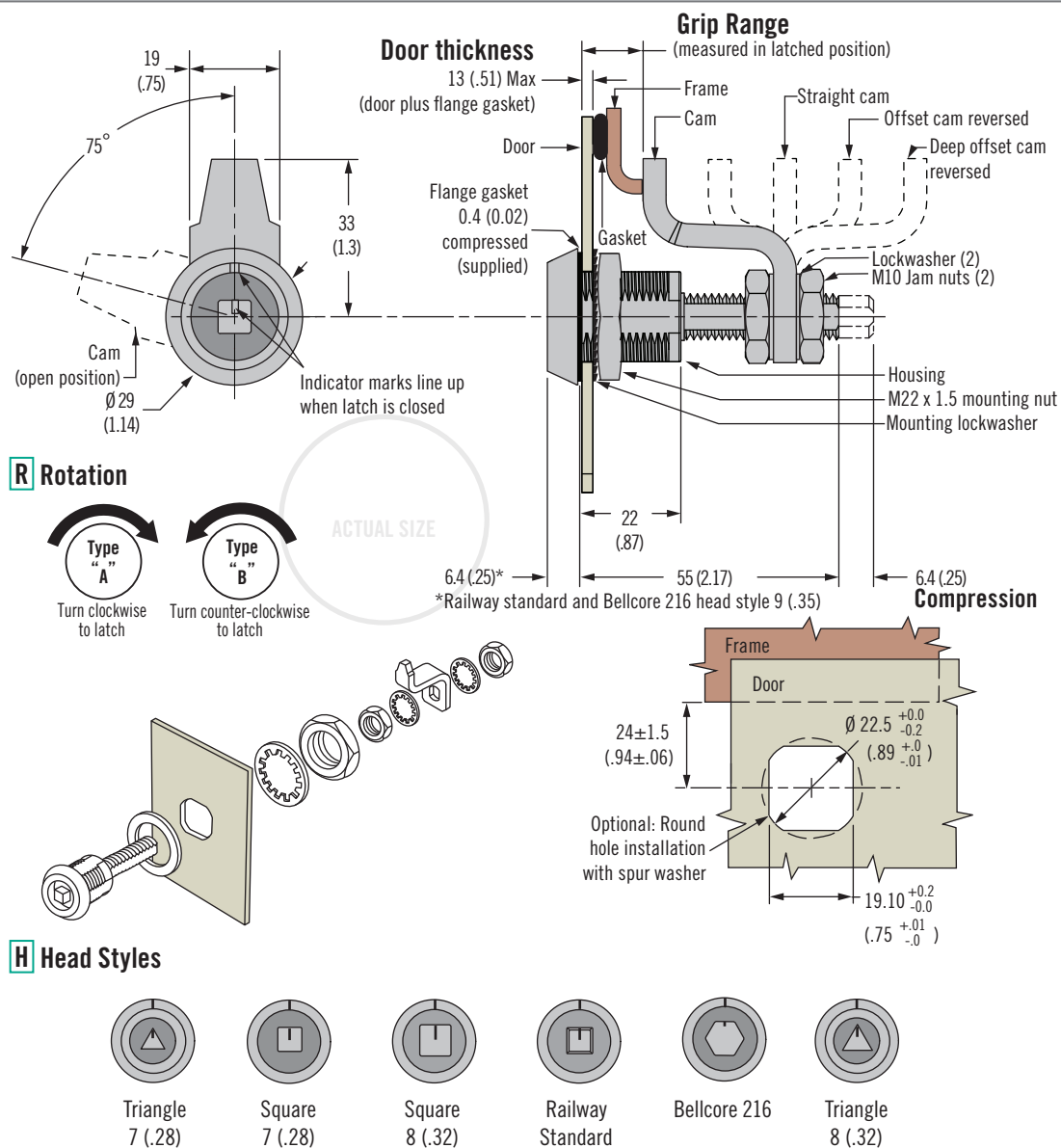
NEMA 4 and IP65 enabled using  
gasket supplied

## Keys and Accessories

See page 90

## Installation Notes

**Caution:** Position cam so latching  
function can be achieved  
comfortably by hand.  
Recommended tightening torque  
for the mounting nut is 20 N·m  
(176 in·lbf).



## Part Number Selection

See table

Order latch and cam separately

### Latch Part Number (no cam)

#### H Head Style

- 3 7 (.28) Triangle  
4 7 (.28) Square  
10 8 (.32) Square  
11 Railway standard  
15 Bellcore 216  
20 8 (.32) Triangle

**E3 - C R H - 00**

#### R Rotation

- 1 Type A clockwise to latch  
22 Type B counter-clockwise to latch

### Cam Part Number Table (order separately from latch)

| Minimum Grip | Maximum Grip | Cam Type                  | Part Number  |
|--------------|--------------|---------------------------|--------------|
| 3.3 (.13)    | 19 (.75)     | Deep offset cam, forward  | E3-28-201-24 |
| 58.6 (2.31)  | 67.5 (2.70)  | Deep offset cam, reversed |              |
| 17 (.67)     | 32.7 (1.29)  | Offset cam, forward       | E3-28-202-24 |
| 44.4 (1.75)  | 60.1 (2.37)  | Offset cam, reversed      |              |
| 30.7 (1.21)  | 46.4 (1.83)  | Straight cam              | E3-28-203-24 |

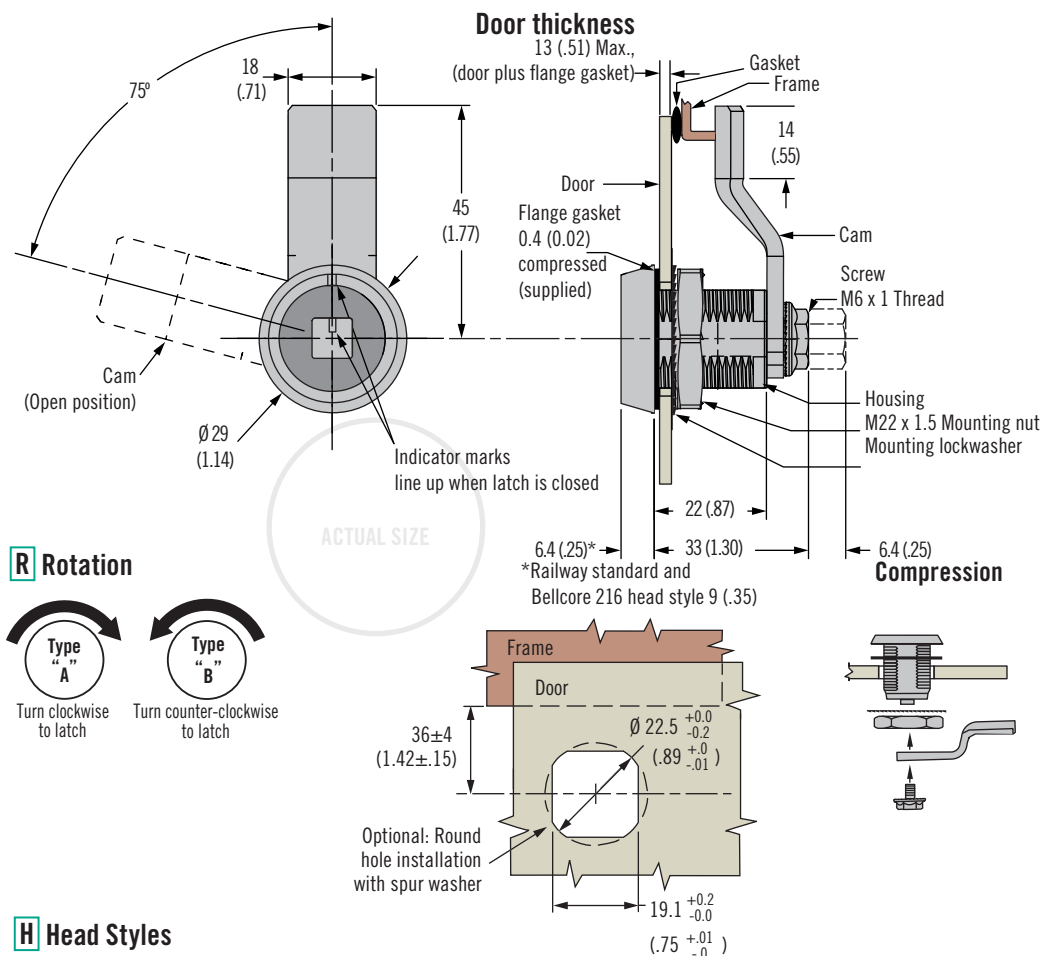
# E3 VISE ACTION® Compression Latch

Machined stainless steel housing · Tool operated

Fixed grip · 19.1mm size · Compact



89B



- Minimal panel intrusion
- Consistent pre-set compression
- Premium finish and corrosion resistance
- EN 45545-3 E60 Compliant

## Material and Finish

Stainless steel (304 and 316 machined)

## Performance Details

Maximum static load:  
450 N (100 lbf)

## Sealing Notes

NEMA 4 and IP65 enabled using gasket supplied

## Keys and Accessories

See page 90

## Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw is 10 N·m (88 in·lbf)

Latch Part Number (no cam)

**E3 - C R H - UUO**

### R Rotation

- 12 Type A clockwise to latch  
29 Type B counter-clockwise to latch

### H Head style

- 3 7 (.28) Triangle  
4 7 (.28) Square  
10 8 (.32) Square  
11 Railway standard  
15 Bellcore 216  
20 8 (.32) Triangle

## Cam Part Number (order separately from latch)

| Grip     | Part Number  | Grip     | Part Number  | Grip      | Part Number  | Grip      | Part Number  |
|----------|--------------|----------|--------------|-----------|--------------|-----------|--------------|
| 4 (.16)  | E3-28-700-24 | 14 (.55) | E3-28-705-24 | 24 (.94)  | E3-28-710-24 | 34 (1.34) | E3-28-715-24 |
| 6 (.31)  | E3-28-701-24 | 16 (.63) | E3-28-706-24 | 26 (1.02) | E3-28-711-24 | 36 (1.42) | E3-28-716-24 |
| 8 (.31)  | E3-28-702-24 | 18 (.71) | E3-28-707-24 | 28 (1.10) | E3-28-712-24 | 38 (1.50) | E3-28-717-24 |
| 10 (.39) | E3-28-703-24 | 20 (.79) | E3-28-708-24 | 30 (1.18) | E3-28-713-24 | 40 (1.57) | E3-28-718-24 |
| 12 (.47) | E3-28-704-24 | 22 (.87) | E3-28-709-24 | 32 (1.26) | E3-28-714-24 | 42 (1.65) | E3-28-719-24 |

## Part Number Selection

See table  
Order latch and cam separately.  
Select grip from Cam table if your grip is between two options choose the smaller grip



# E3 VISE ACTION® Compression Latch

Zinc and plated steel housing · Tool operated  
Adjustable grip · 19.1mm size · Compact

- Minimal panel intrusion
- Consistent pre-set compression
- Easy grip adjustment
- Tool operated for security
- EN 45545-3 E10 Compliant

## Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

## Performance Details

Maximum static load:  
450 N (100 lbf)

## Sealing Notes

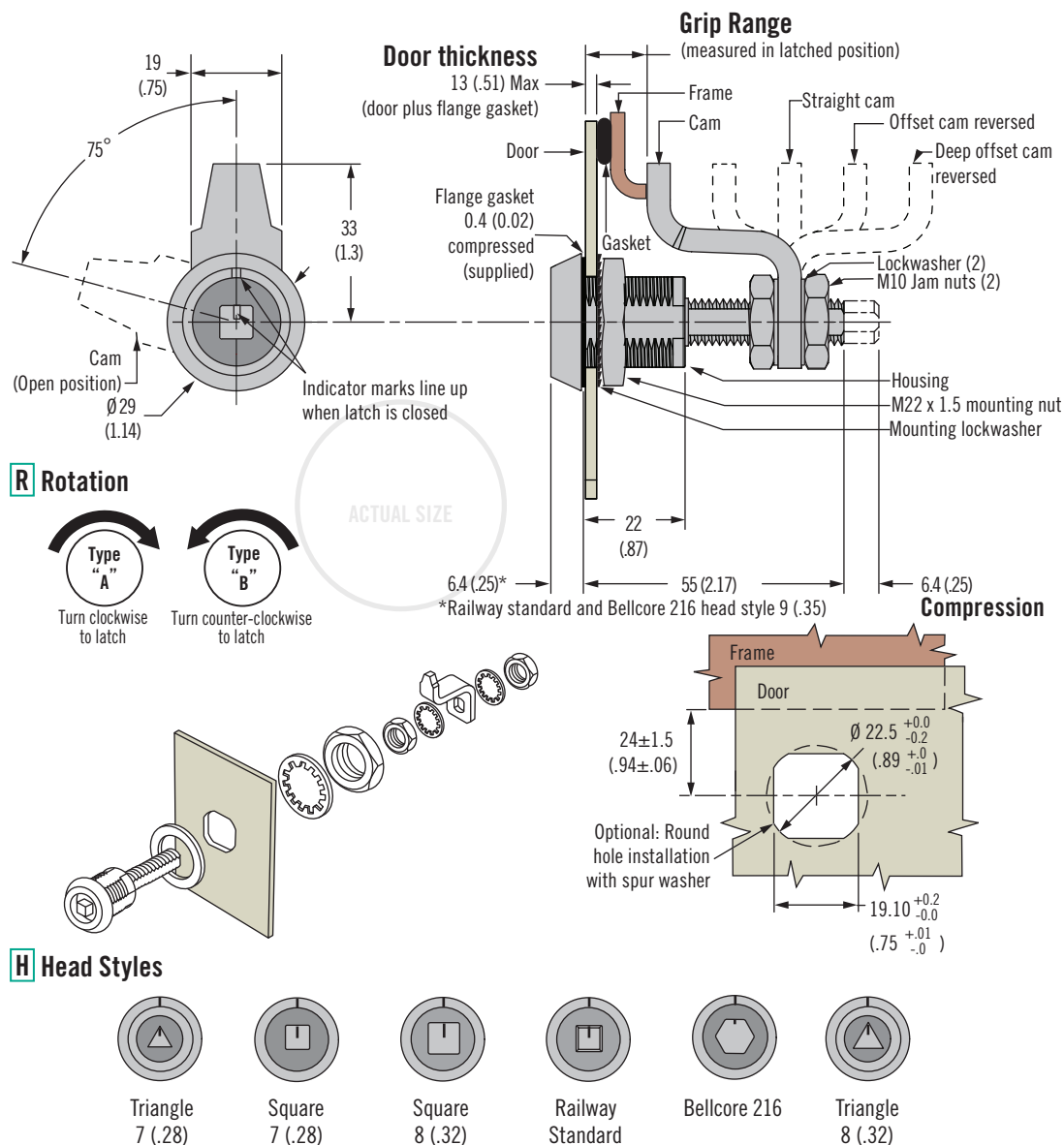
NEMA 4 and IP65 enabled using gasket supplied

## Keys and Accessories

See page 90

## Installation Notes

**Caution:** Position cam so latching function can be achieved comfortably by hand.  
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).



## Part Number Selection

See table

Order latch and cam separately

### Latch Part Number (no cam)

**E3 - C R H - O F**

#### R Rotation

- 1 Type A clockwise to latch  
22 Type B counter-clockwise to latch

#### H Head Style

- 3 7 (.28) Triangle  
4 7 (.28) Square  
10 8 (.32) Square  
11 Railway standard  
15 Bellcore 216  
20 8 (.32) Triangle

#### F Finish

- 1 Chrome plated  
5 Black powder coated  
7 Silver powder coated

### Cam Part Number Table (order separately from latch)

| Minimum Grip | Maximum Grip | Part Number               | Cam Type     |
|--------------|--------------|---------------------------|--------------|
| 3.3 (.13)    | 19 (.75)     | Deep offset cam, forward  | E3-28-201-12 |
| 58.6 (2.31)  | 67.5 (2.70)  | Deep offset cam, reversed |              |
| 17 (.67)     | 32.7 (1.29)  | Offset cam, forward       | E3-28-202-12 |
| 44.4 (1.75)  | 60.1 (2.37)  | Offset cam, reversed      |              |
| 30.7 (1.21)  | 46.4 (1.83)  | Straight cam              | E3-28-203-12 |



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

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# E3 VISE ACTION® Compression Latch

Zinc and plated steel housing. Tool operated

Fixed grip · 19.1mm size · Compact



89D

- Minimal panel intrusion
- Consistent pre-set compression
- Tool operated for security
- EN 45545-3 E10 Compliant

## Material and Finish

Zinc alloy, powder coated or chrome plated and steel, zinc plated

## Performance Details

Maximum static load:

300 N (67 lbf)

## Sealing Notes

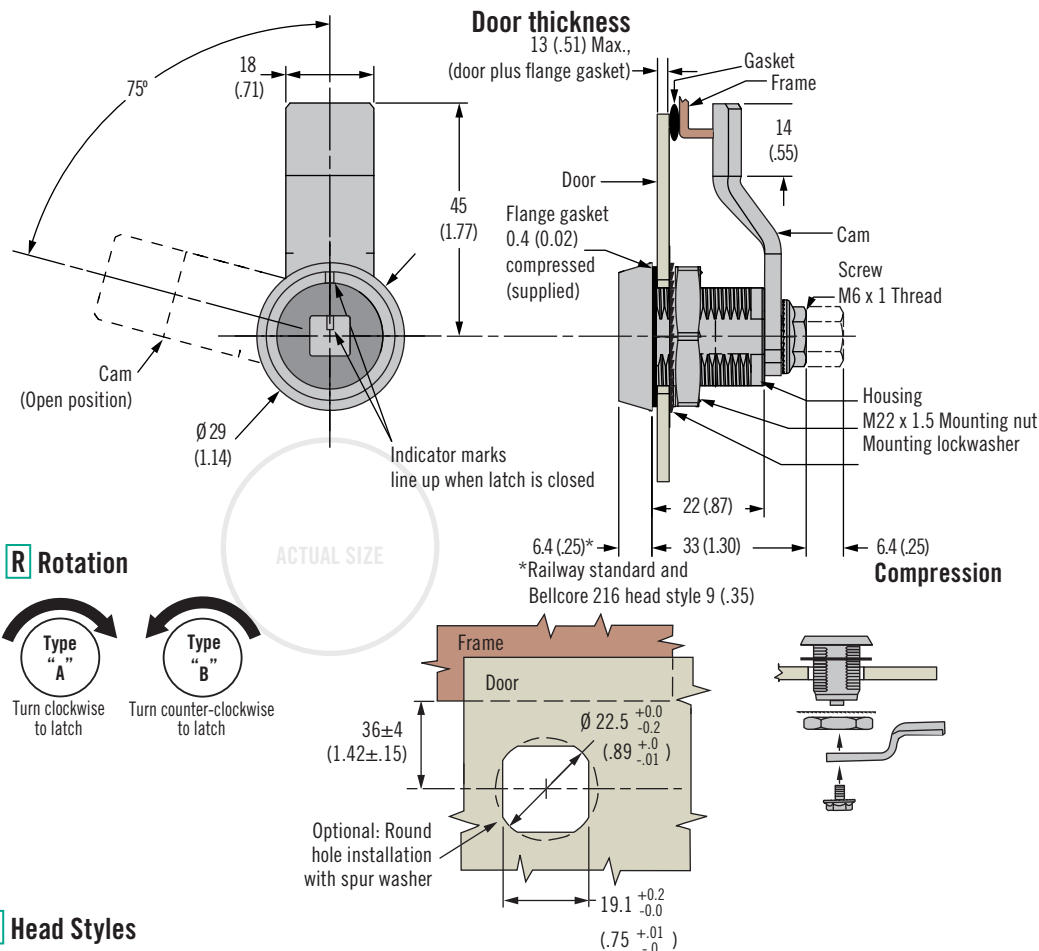
NEMA 4 and IP65 enabled using gasket supplied

## Keys and Accessories

See page 90

## Installation Notes

Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw is 10 N·m (88 in·lbf)



## H Head Styles



Triangle  
7 (.28)



Square  
7 (.28)



Square  
8 (.32)



Railway  
Standard



Bellcore 216



Triangle  
8 (.32)

Latch Part Number (no cam)

**E3 - C R H - UU F**

## R Rotation

- 12 Type A clockwise to latch  
29 Type B counter-clockwise to latch

## H Head style

- 3 7 (.28) Triangle  
4 7 (.28) Square  
10 8 (.32) Square

- 11 Railway standard  
15 Bellcore 216  
20 8 (.32) Triangle

## F Finish

- 1 Chrome plated  
5 Black powder coated  
7 Silver powder coated

## Cam Part Number (order separately from latch)

| Grip     | Part Number | Grip     | Part Number | Grip      | Part Number | Grip      | Part Number |
|----------|-------------|----------|-------------|-----------|-------------|-----------|-------------|
| 4 (.16)  | E5-2500     | 14 (.55) | E5-2505     | 24 (.94)  | E5-2510     | 34 (1.34) | E5-2515     |
| 6 (.31)  | E5-2501     | 16 (.63) | E5-2506     | 26 (1.02) | E5-2511     | 36 (1.42) | E5-2516     |
| 8 (.31)  | E5-2502     | 18 (.71) | E5-2507     | 28 (1.10) | E5-2512     | 38 (1.50) | E5-2517     |
| 10 (.39) | E5-2503     | 20 (.79) | E5-2508     | 30 (1.18) | E5-2513     | 40 (1.57) | E5-2518     |
| 12 (.47) | E5-2504     | 22 (.87) | E5-2509     | 32 (1.26) | E5-2514     | 42 (1.65) | E5-2519     |

## Part Number Selection

See table

Order latch and cam separately.

Select grip from Cam table if your grip is between two options choose the smaller grip



## E3 VISE ACTION® Compression Latch Accessories

### Keys

#### Material and Finish

Steel, zinc plated

#### Part Number

Steel tubular key (order separately)

13.5mm size E3 latches:

E3-26-819-15

19.1mm size E3 latches:

E3-5-15

#### Material and Finish

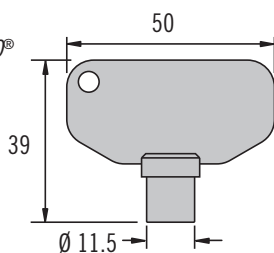
Zinc alloy or nylon

#### Notes

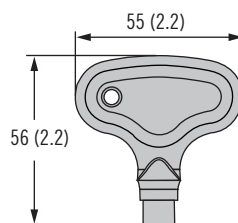
\*Does not work with 7mm tapered triangle

#### Keys - Steel

For latches with *SOUTHCO*®  
Tubular key head styles



#### Keys - Zinc or Nylon



#### H Head style

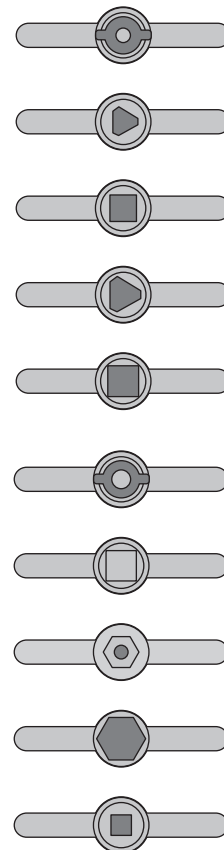
- 2 3 (.11) Double bit
- 3 7 (.28) Triangle\*
- 4 7 (.28) Square
- 7 8 (.32) Triangle
- 8 8 (.32) Square recess
- 9 5 (.19) Double bit
- 10 8 (.32) Square male (zinc only)
- 11 Bellcore electronics
- 12 Bellcore 216 (zinc only)
- 14 Railway Standard (zinc only)

#### F Finish

- 1 Plated zinc
- 2 Natural zinc
- 3 Nylon black

E3 - H - F

#### Key Styles



- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 7 8 (.32) Triangle
- 8 8 (.32) Square recess
- 9 5 (.19) Double bit
- 10 8 (.32) Square male
- 11 Bellcore electronics
- 12 Bellcore 216
- 14 Railway Standard

#### Part Number

Overmolded key CH751:

Single: PK-10-10-05

Pair: PK-10-01-05

Overmolded key R001:

Single: PK-10-10-05-KR001

Pair: PK-10-01-05-KR001

Flat key

Pair: PK-10-01

#### Overmolded Keys

Key CH751

PK-10-10-05

Key R001

PK-10-10-05-KR001



#### Flat Keys

Key CH751

PK-10-01



[www.southco.com/E3](http://www.southco.com/E3)

Dimensions in millimeters (inch) unless otherwise stated

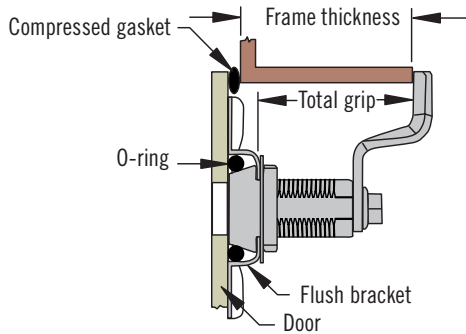
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# E3 VISE ACTION® Compression Latch Accessories

## Fixed bracket for flush mounting



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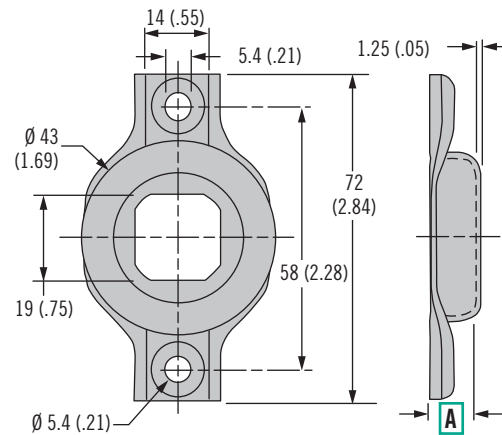
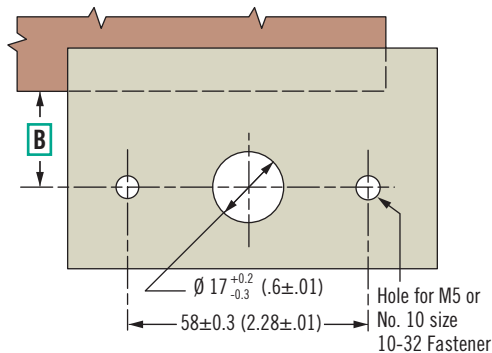
| A                                                          | Part Number  | Material            |
|------------------------------------------------------------|--------------|---------------------|
| 6.6                                                        | E3-77-251-12 | Galvanized steel    |
| *9.3                                                       | E3-77-252-12 | Galvanized steel    |
| 6.6                                                        | E3-77-251-24 | 304 Stainless steel |
| *9.3                                                       | E3-77-252-24 | 304 Stainless steel |
| * For use with Railway standard or Bellcore 216 style only |              |                     |

### Door preparation

For **B** dimensions:

Large adjustable grip  $24 \pm 1.5$  (.94 $\pm$ .06)

Fixed grip  $36 \pm 4$  (1.42 $\pm$ .15)

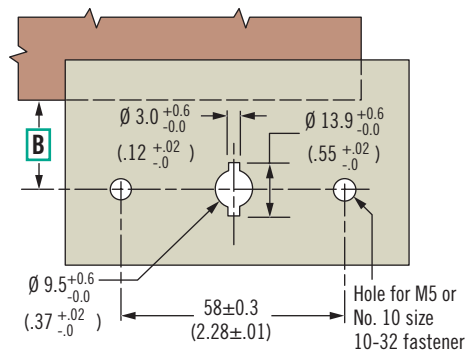


To calculate the **Total Grip**, use the following formula: **Frame Thickness + Compressed Gasket - A**.

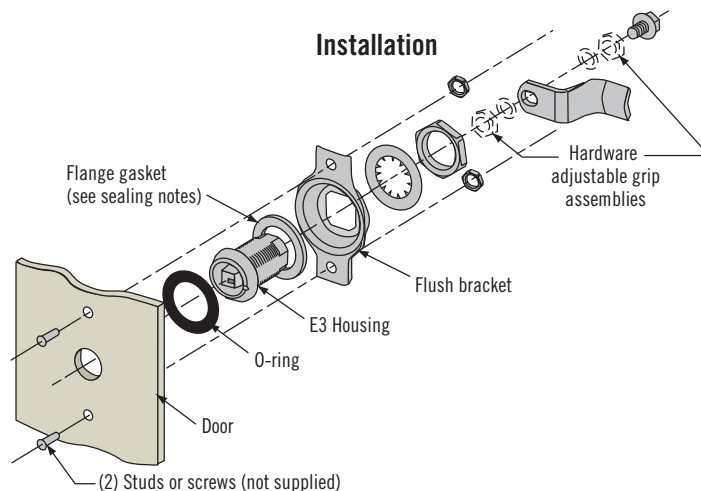
Use this **Total Grip** with the appropriate E3 tables in the **SOUTHCO® Handbook** to determine cam type.

### Double bit (key retained style)

Key can only be removed in the latch closed position.



### Installation



### Material and Finish

Stainless steel or galvanized steel with rubber o-ring

### Sealing Notes

Environmental sealing is achieved by using latch with flange gasket (optional or included with latch see pages 78-89) and sealing the mounting screw threads.

### Notes

For use with 19.1mm size single hole mount tool operated E3 VISE ACTION® compression latches, see pages 78-81, 84-87, 89



## E3 VISE ACTION® Compression Latch Accessories

Sealing & spur washers · Sealing covers · Sleeve nut

### Material and Finish

Sealing washers: Neoprene, natural

Spur washer: Steel, zinc plated

Sealing cover: Thermoplastic elastomer, black

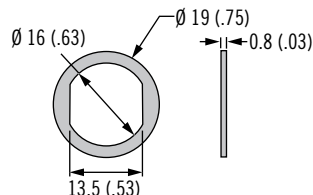
### Notes

Spur washer provides for round hole installation in wood and similar materials of low density

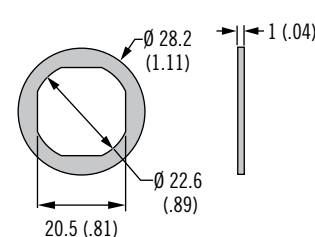
Sealing cover cannot be used with Railway standard or Bellcore 216 styles

### Sealing Washers

#### 13.5mm size

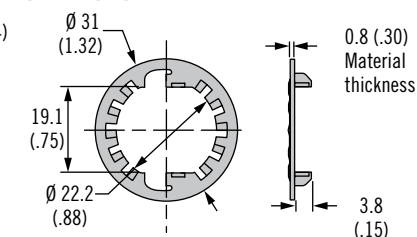


#### 19.1mm size

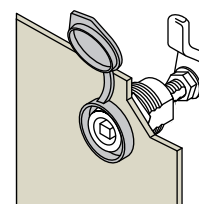
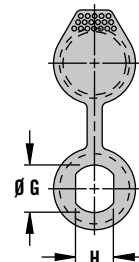
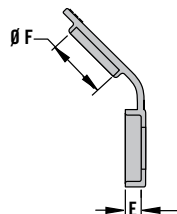
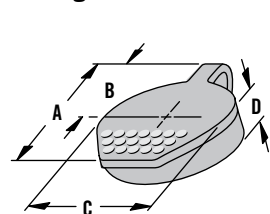


### Spur Washer

#### 19.1mm size



### Sealing Cover



| Latch Installation Hole Size |                        | Dimensions |           |           |            |           |             |
|------------------------------|------------------------|------------|-----------|-----------|------------|-----------|-------------|
| Ø G                          | Distance across flat H | A          | B         | Ø C       | D          | E         | Ø F         |
| 16 (.63)                     | 13.5 (.53)             | 40 (1.58)  | 20 (.85)  | 29 (1.13) | 10.5 (.42) | 6.1 (.24) | 22.3 (.88)  |
| 22.5 (.88)                   | 19.6 (.77)             | 47 (1.84)  | 28 (1.09) | 35 (1.38) | 11.7 (.46) | 6.9 (.27) | 28.7 (1.13) |

### Part Number

See table

| Type                       | Part Number   | Adjustment Formula              |
|----------------------------|---------------|---------------------------------|
| Sealing washer 13.5mm size | E3-0-30268-02 | Add 0.4 (.02) to door thickness |
| Sealing washer 19.1mm size | E5-17         | Add 0.4 (.02) to door thickness |
| Spur washer 19.1mm size    | 90-6-875      | Add 0.8 (.03) to door thickness |
| Sealing cover 13.5mm size  | 90-1          | Add 2.3 (.09) to door thickness |
| Sealing cover 19.1mm size  | 90-3          | Add 2.3 (.09) to door thickness |

### Material and Finish

Zinc alloy

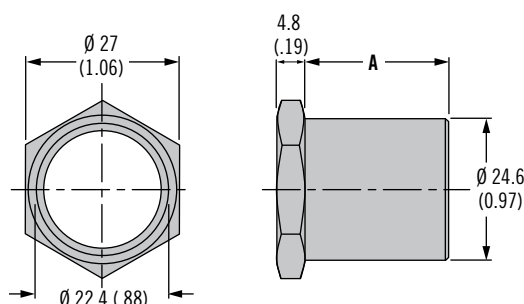
### Installation Notes

For use in double skin doors. Produce standard panel cutout in outer door and for the inner door produce 25 (.98) hole for sleeve nut.

### Part Number

See table

### Sleeve Nut M22 Thread (for 19.1mm size E3 only)



| A          | Part Number  |
|------------|--------------|
| 12.7 (.50) | E3-34-263-36 |
| 25 (.98)   | E3-34-264-36 |

Dimensions in millimeters (inch) unless otherwise stated

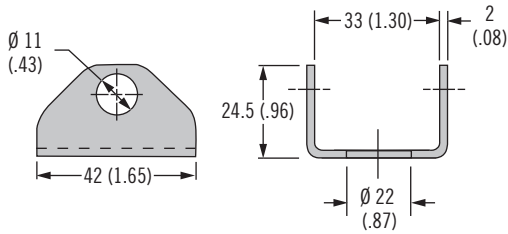
# E3 VISE ACTION® Compression Latch Accessories

## Padlock brackets · Finger pulls

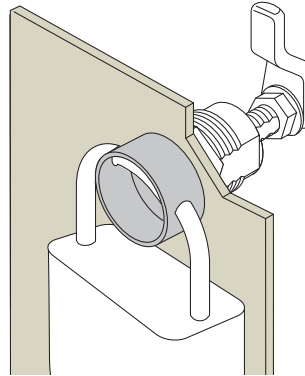
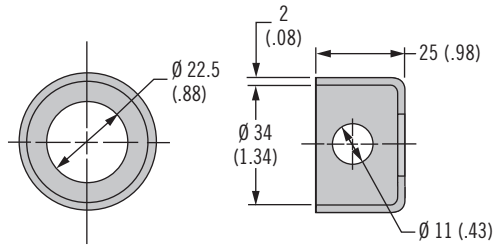


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### Padlock Bracket (Square)



### Padlock Bracket (Round)



### Material and Finish

Padlock bracket: Stainless steel,  
black powder coated  
Pull tab: Nylon, black

### Sealing Notes

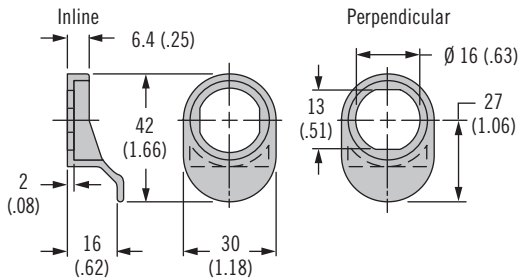
To provide sealing use two flange gaskets and add compressed thickness of each flange gasket and bracket thickness to your door thickness.

### Notes

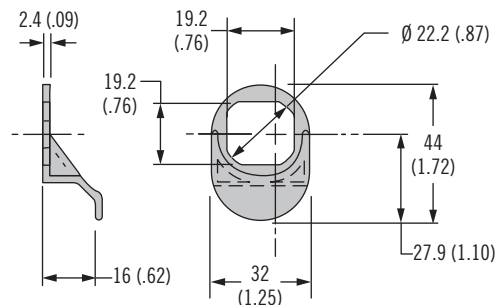
Padlock bracket: For 19.1mm size single hole mount tool operated only

Only unassembled styles can be used with round padlock bracket

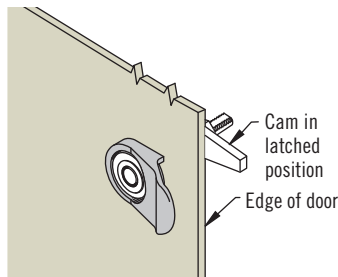
### Pull Tab (13.5mm size)



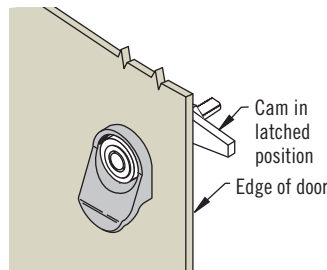
### Pull Tab (19.1mm size)



### Pull tab in-line with cam



### Pull tab perpendicular to cam



| Type                                 | Part Number  | Adjustment Formula              |
|--------------------------------------|--------------|---------------------------------|
| Padlock bracket square               | E3-77-101-31 | Add 2 (.08) to door thickness   |
| Padlock bracket round                | E3-77-102-31 | Add 2 (.08) to door thickness   |
| Pull tab 13.5mm size - In-line       | E3-27-61     | Add 2 (.08) to door thickness   |
| Pull tab 13.5mm size - Perpendicular | E3-27-62     | Add 2 (.08) to door thickness   |
| Pull tab 19.1mm size                 | E3-27-1      | Add 2.4 (.09) to door thickness |

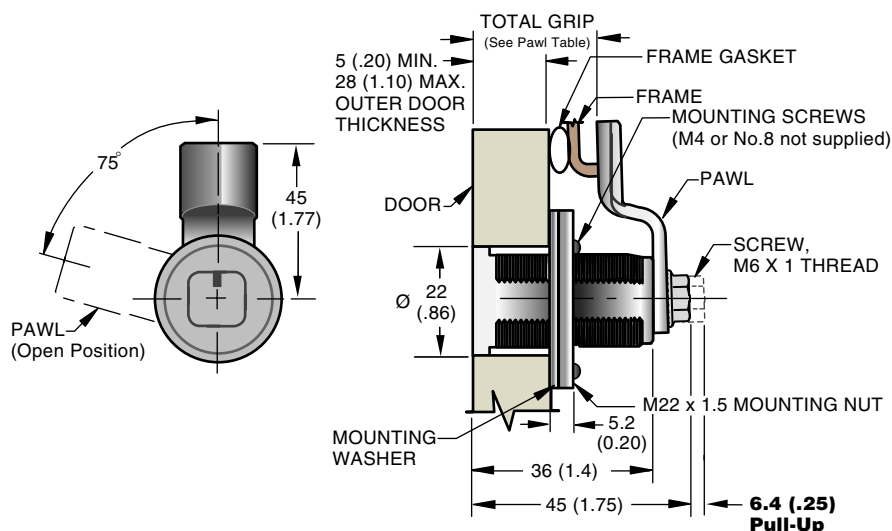
### Part Number

See table

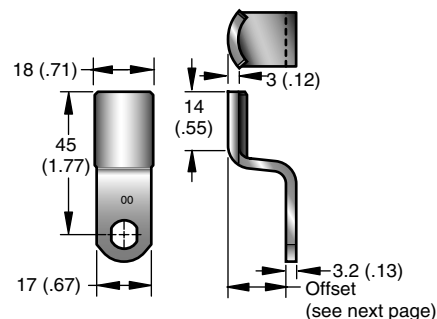
# Southco® Compression Latches

## Vise Action Series, Flush Design

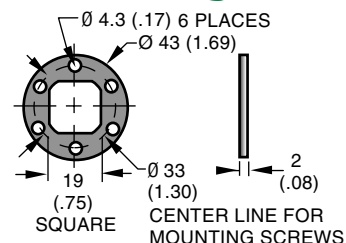
- **Single-hole mount, large size**
- **Latch provides completely flush outer surface**
- **Designed for use in thicker panels such as wood**
- **Seven tool- or key-operated access styles**



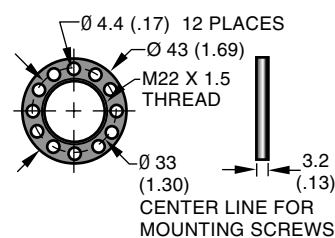
### Pawl Detail



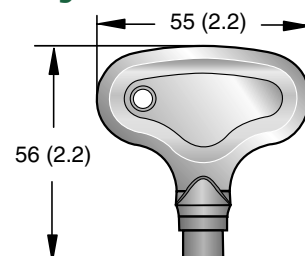
### Mounting Washer



### Mounting Nut



### Key (Order Separately)



### To determine the proper part number:

1. Choose a head style and finish (see table).
2. Determine the total grip by adding the following items together:
  - Outer door thickness
  - Compressed Frame Gasket
  - Frame thickness
3. Find your total grip in the pawl table. If your grip is between two choices, use the smaller one.
4. Use the 2 digit pawl type code that corresponds to your grip and outer door thickness to complete your latch assembly part number.

| Part Number | HEAD STYLE                           | 8 mm Hex Recess | 7 mm Triangle | 7 mm Square | 8 mm Square Driver | 10 mm Hex                                            | Railway Standard                                                    | 8 mm Triangle |
|-------------|--------------------------------------|-----------------|---------------|-------------|--------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------|
|             | Bright Chrome                        | —               | E3-143-XX1•   | E3-144-XX1• | E3-1410-XX1•       | E3-1418-XX1•                                         | E3-1411-XX1•                                                        | E3-1420-XX1•  |
|             | Black Powder Coated                  | E3-146-XX5      | E3-143-XX5•   | E3-144-XX5• | E3-1410-XX5•       | E3-1418-XX5•                                         | E3-1411-XX5•                                                        | E3-1420-XX5•  |
|             | Satin Silver Polyester Powder Coated | E3-146-XX7      | E3-143-XX7•   | E3-144-XX7• | E3-1410-XX7•       | E3-1418-XX7•                                         | E3-1411-XX7•                                                        | E3-1420-XX7•  |
|             | Keys                                 | —               | E3-3-1 •      | E3-4-1 •    | E3-8-1 •           | 10 mm (.375) Hex Recess (Not available from Southco) | RIC Standard (European Railway Standard) Not available from Southco | E3-7-1 •      |

Latches are individually packaged. For layer packaged latches (50 pieces minimum, sold in multiples of 50) add -13 to the part number.  
Example: E3-1410-XX1-13.

## PAWL TYPE NUMBERS

| Pawl Type | TOTAL GRIP   | Pawl Offset | Pawl Type | TOTAL GRIP   | Pawl Offset |
|-----------|--------------|-------------|-----------|--------------|-------------|
| XX=00 •   | 19<br>(.75)  | 18<br>(.71) | XX=10 •   | 39<br>(1.53) | 2<br>(.08)  |
| XX=01 •   | 21<br>(.83)  | 16<br>(.63) | XX=11 •   | 41<br>(1.61) | 4<br>(.16)  |
| XX=02 •   | 23<br>(.91)  | 14<br>(.55) | XX=12 •   | 43<br>(1.69) | 6<br>(.24)  |
| XX=03 •   | 25<br>(.98)  | 12<br>(.47) | XX=13 •   | 45<br>(1.77) | 8<br>(.31)  |
| XX=04 •   | 27<br>(1.06) | 10<br>(.39) | XX=14     | 47<br>(1.85) | 10<br>(.39) |
| XX=05 •   | 29<br>(1.14) | 8<br>(.31)  | XX=15     | 49<br>(1.93) | 12<br>(.47) |
| XX=06 •   | 31<br>(1.22) | 6<br>(.24)  | XX=16     | 51<br>(2.01) | 14<br>(.55) |
| XX=07 •   | 33<br>(1.30) | 4<br>(.16)  | XX=17     | 53<br>(2.09) | 16<br>(.63) |
| XX=08 •   | 35<br>(1.38) | 2<br>(.08)  | XX=18     | 55<br>(2.17) | 18<br>(.71) |
| XX=09 •   | 37<br>(1.46) | 0 (0)       | XX=19     | 57<br>(2.24) | 20<br>(.79) |



### Material and Finish

HOUSING and CAP: Die-cast zinc, bright chrome plated or powder coated, see table. RETAINER and SPRING: 302 Stainless steel, natural. O-RING: Buna-N rubber, natural. CAM and SLEEVE: 1075 Case hardened steel, zinc immersion coating. SHAFT and SCREW: Low carbon steel, zinc plate, chromate plus sealer. PIN: 1008 Steel, zinc plated plus chromate dip. MOUNTING WASHER, MOUNTING NUT and PAWL: 1010 steel, zinc plate, chromate plus sealer.

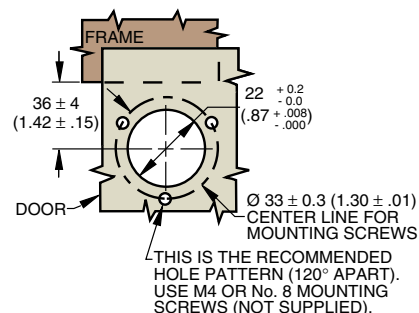
### Product Strength Guidelines

(To assist in your product selection; samples are available for your evaluation.)

Maximum static load: 300 N (79 lbs.)  
Average ultimate load: 700 N (157 lbs.)

These loads apply to latch assemblies only. Retention to the panel is subject to user method of installation and material.

### Panel Preparation



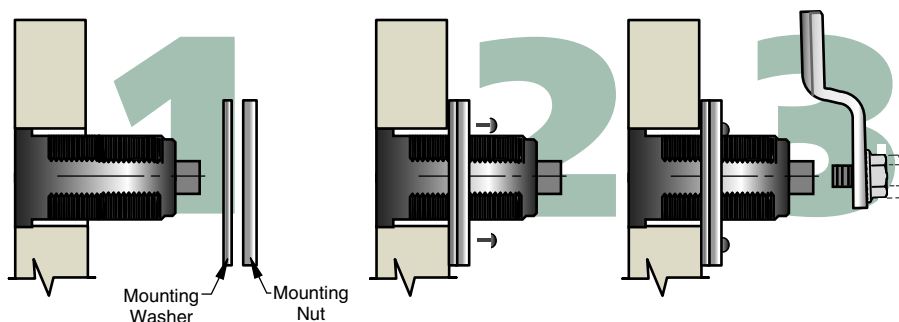
### Installation

1. Insert the latch through the rear of the door. Place the mounting washer then the mounting nut onto the latch.
2. Adjust mounting nut so that the head of the latch is flush with the outside of the door. The holes in the washer and the nut must be aligned. The latch must be aligned to the latching position. Southco recommends using a minimum of three mounting screws in a pattern as shown above.
3. Place pawl on latch shaft and tighten pawl mounting screw while holding the pawl with a 17 (.67) wrench.

Recommended tightening torque for the Pawl Mounting Screw is 10 N•m (88.5 in-lbs).

millimeter (inch)  
millimeter  
(inch)

Dimensions without tolerances are for reference only.



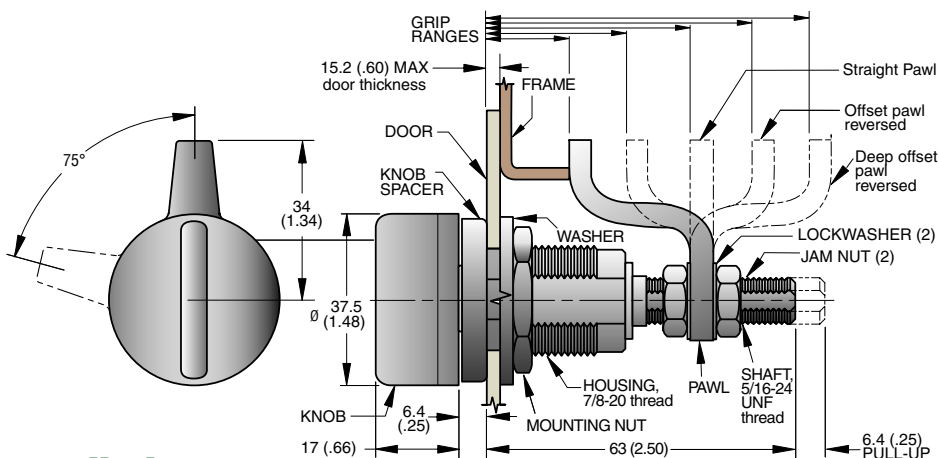
# Southco® Compression Latches

## Vise Action Series Knob Style

- Single-hole mount, large size
- Wider flange for mounting in non-metallic materials
- Knob provides quick, unrestricted access

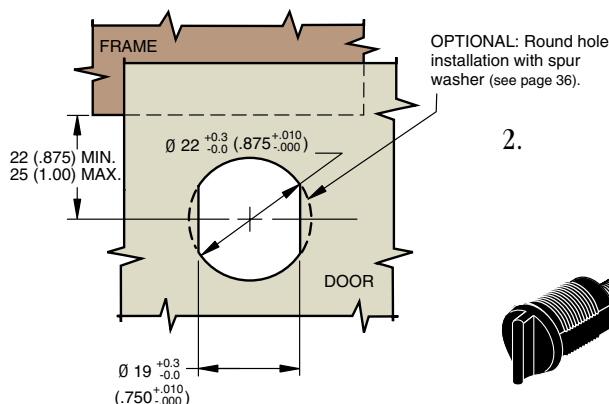


Accessory for this latch. See page 36.

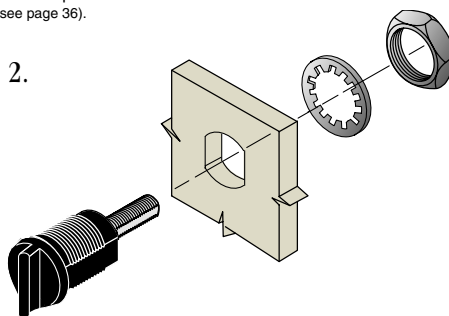


## Installation

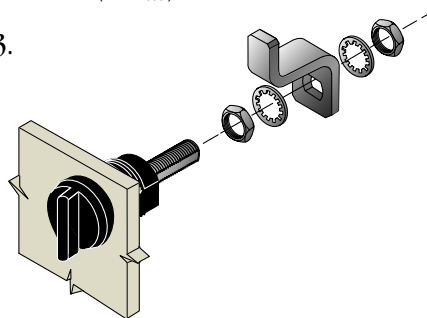
1.



2.

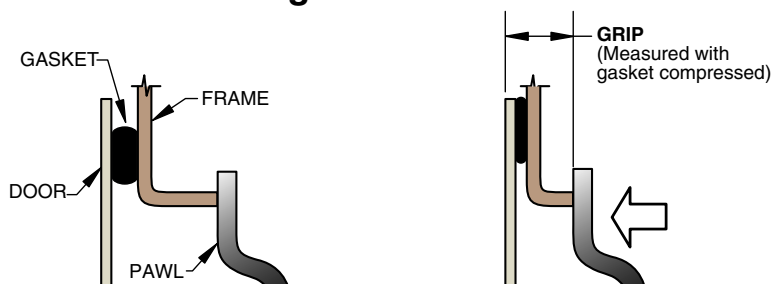


3.



4. **To adjust grip:** Measure your grip. Open door. Position pawl on shaft to your grip measurement (with pawl in latched position). Tighten jam nuts hard against lock-washers and pawl using two wrenches.

## For gasketed doors:



**CAUTION:** Set pawl position so that no more than 3.4 N•m (30 in.-lbs.) of torque is required to secure door.

## Material and Finish

**HOUSING:** Die cast zinc, black powder coated.

**SPRING:** 302 Stainless steel, natural.

**O-RING:** Buna-N rubber, black.

**PIN:** 1008 Steel, zinc plated plus chromate dip.

**WASHER and PAWL:** 1010 Steel, zinc plate, chromate plus sealer.

**CAM and SLEEVE:** 1075 Case hardened steel, zinc immersion coating.

**SHAFT:** Low carbon steel, zinc plate, chromate plus sealer.

**JAM NUTS:** Steel, zinc plate, chromate plus sealer.

**LOCKWASHERS:** Spring steel, zinc plate, chromate plus sealer.

**MOUNTING NUT:** Brass, zinc plate, chromate plus sealer.

**KNOB:** Glass filled nylon, black.

**KNOB SPACER:** Nylon, black.

**RETAINER:** Polycarbonate, black.

| GRIP RANGE  |             | PART NUMBERS     |
|-------------|-------------|------------------|
| MIN.        | MAX.        |                  |
| 10 (.39)    | 27 (1.06)   | E3-10-504-50 * • |
| 24 (.94)    | 40 (1.57)   | E3-10-505-50 * • |
| 36 (1.42)   | 52.5 (2.06) | E3-10-506-50 ‡ • |
| 49 (1.94)   | 65.5 (2.57) | E3-10-505-50 * • |
| 63.5 (2.50) | 79 (3.11)   | E3-10-504-50 * • |

Spur Washer listed on page, 36.

\* The same pawl (curved forward or reversed) is supplied for both short and long grips.

‡ For intermediate grip, straight pawl is supplied.

## Product Strength Guidelines

(To assist in your product selection; samples are available for your evaluation.)

Maximum static load: 445 N (100 lbs.)

Average ultimate load: 890 N (200 lbs.)

millimeter (inch)  
millimeter  
(inch)

Dimensions without tolerances are for reference only.