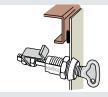
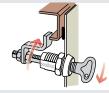


Overview



*First 90<sup>o</sup> 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 NEMA4 / 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:



Black powder coated

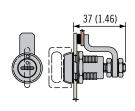
Silver powder coated

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

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

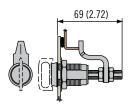
A series of basic housing styles of the *VISE ACTION®* compression latch have been developed to meet specific door configuration and mounting requirements - for depth, thickness, strength, grip dimension, and surface protrusion.

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



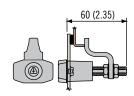
### Small

 Optimum compression for use in confined space applications



#### Large

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

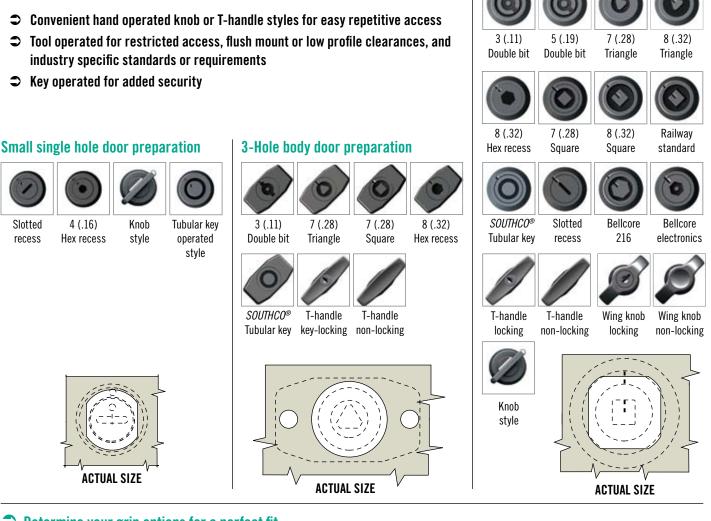


### **3-Hole Mount**

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



CLIC



### Determine your grip options for a perfect fit

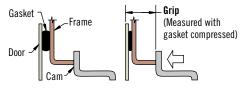
Choose from a wide range of head styles to fit your application and

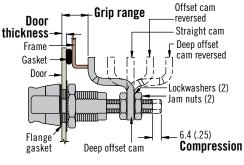
industry requirements

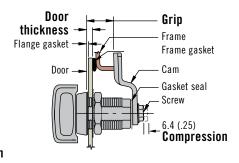
Grip dimension is an important consideration in compression latch applications involving gaskets for environmental or RFI sealing.

### For gasketed doors:

ONNECT - CREATE - INNOVAT







Large single hole body door preparation

### Adjustable cam designs

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

### Fixed cam designs

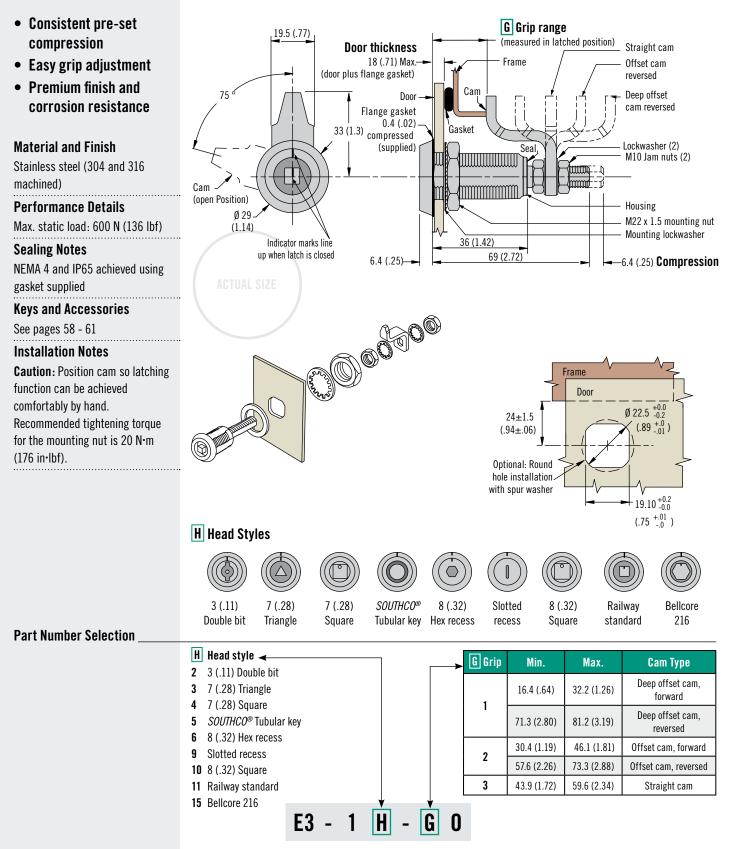
- Precise fit and minimum internal protrusion
- Wide cam selection for accurate grip dimension

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Dimensions in millimeters (inch) unless otherwise stated



Large · Machined stainless steel housing · Tool operated · Adjustable grip



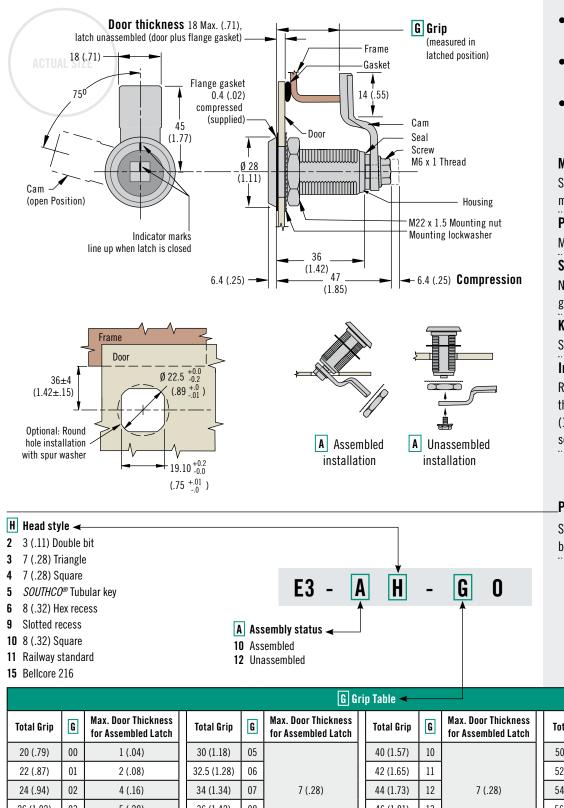


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INFO CLIC

Large · Machined stainless steel housing · Tool operated · Fixed grip





- Consistent pre-set compression
- Premium finish and corrosion resistance
- Reduced internal protrusion

### **Material and Finish** Stainless steel (304 and 316 machined) **Performance Details** Max. static load: 450 N (102 lbf)

**Sealing Notes** NEMA 4 and IP65 achieved using gasket supplied

### Keys and Accessories

See pages 58 - 61

### **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

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

	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		40 (1.57)	10		50 (1.97)	15	
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	7 (.28)	44 (1.73)	12	7 (.28)	54 (2.13)	17	7 (.28)
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	

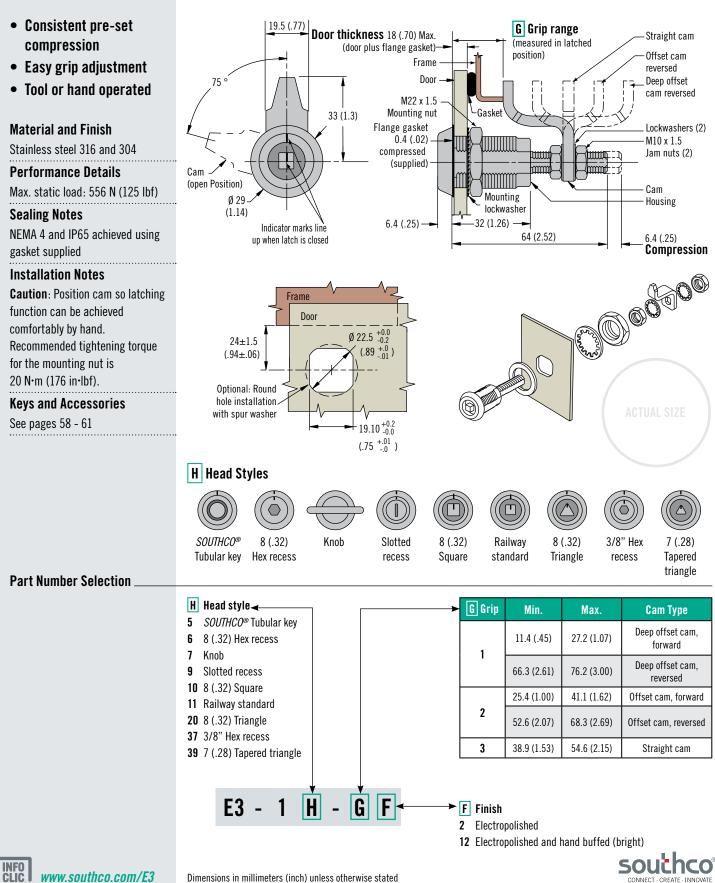








Large · Metal injection molding stainless steel housing · Adjustable grip

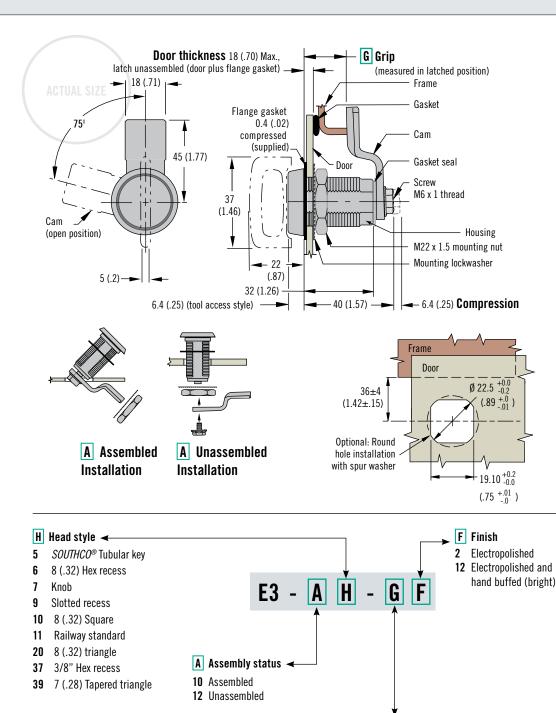


42

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CONNECT - CREATE - INNOVATE

# **E3** *VISE ACTION®* Compression Latch Large · Metal injection molding stainless steel housing· Fixed grip



- Consistent pre-set compression
- Tool or hand operated
- Reduced internal protrusion

### **Material and Finish**

Stainless steel 316 and 304

#### **Performance Details**

Max. static load: 445 N (100 lbf)

Sealing Notes

NEMA 4 / 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 in 10 N·m (88 in·lbf)

**Keys and Accessories** 

See pages 58 - 61

### Part Number Selection

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

	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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	

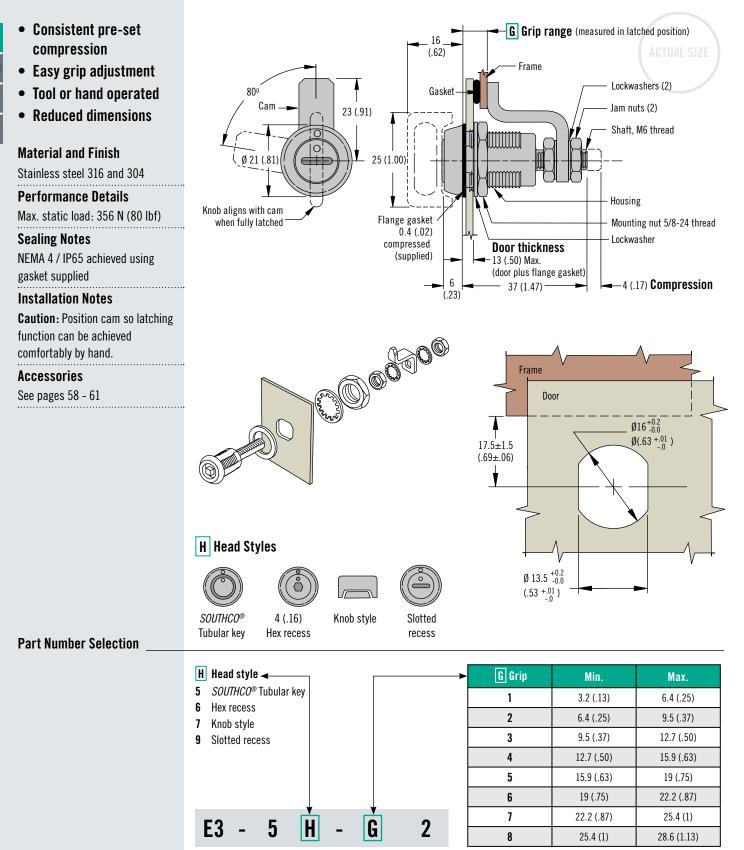








Small · Metal injection molding stainless steel housing · Adjustable grip



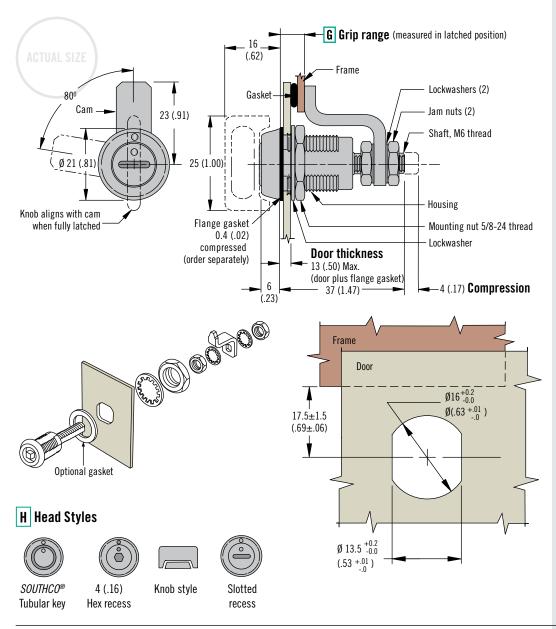


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Small · Zinc and plated steel · Adjustable grip



### Consistent pre-set compression

- Easy grip adjustment
- Tool or hand operated
- Reduced dimensions

### **Material and Finish**

Zinc alloy, powder coated and steel, zinc plated

### **Performance Details**

Max. static load: 330 N (75 lbf)

**Sealing Notes** 

NEMA 4 / IP65 sealing is achieved 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 pages 58 - 61

#### U u od otvl

Н	Head style 👞 📖					
5	<i>SOUTHCO®</i> Tubular k	ley				
6	Hex recess					
7	Knob style					
9	Slotted recess					
		¥				
	E3 - 5	H	-	G	F	
_						

F Finish 🗲 1 Chrome plated

- 5 Black powder coated
- Silver powder coated
- 7



👝 🔓 Grip	Min.	Max.
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)

### Part Number Selection





### **E3** *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Tool operated · Adjustable grip

000 6-9 14

## • Consistent pre-set compression

- Easy grip adjustment
- Tool operated for security

### **Material and Finish**

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

### **Performance Details**

Max. static load: 450 N (100 lbf)

### **Sealing Notes**

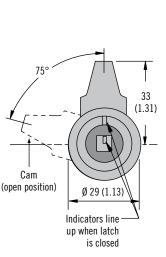
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

### **Installation Notes**

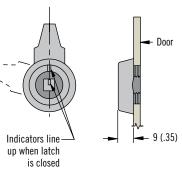
**Caution:** Position cam so latching function can be achieved comfortably by hand. Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf).

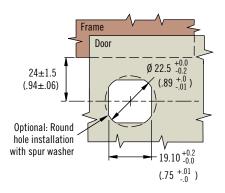
### Keys and Accessories

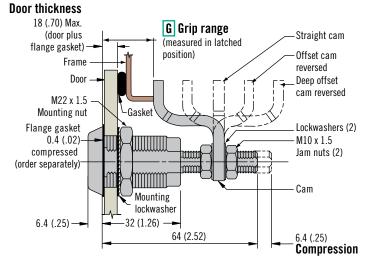
See pages 58 - 61



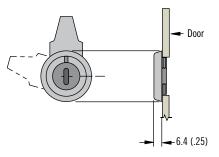
Railway Standard - Bellcore 216

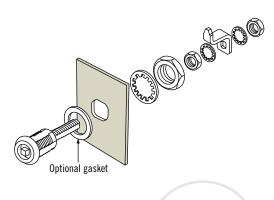






All Other Head Styles (slotted recess shown)





ACTUAL SIZE



INFO CLIC

### H Head Styles (other head styles available)

Triangle

Railway

standard



3 (.11)

Double bit

8 (.32) Square

driver





Square

Bellcore

216



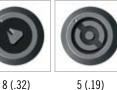
SOUTHCO® 8 (.32) Hex Tubular key recess

Triangle





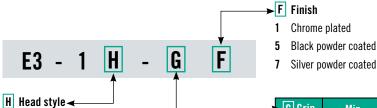
Bellcore electronics



Double bit



Part Number Selection



- 2 3 (.11) Double bit
- 3 7 (.28) Triangle
- 4 7 (.28) Square
- 5 SOUTHCO® Tubular key
- 6 8 (.32) Hex recess
- 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

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

Dimensions in millimeters (inch) unless otherwise stated







### E3 VISE ACTION® Compression Latch Large · Zinc and plated steel · Hand operated · Adjustable grip

- Consistent pre-set compression
- Easy grip adjustment
- Hand operated

### **Material and Finish**

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

**Performance Details** Max. static load: 450 N (100 lbf)

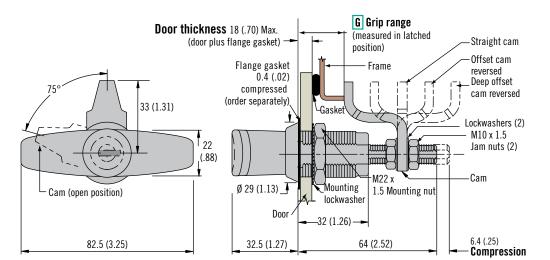
### **Sealing Notes**

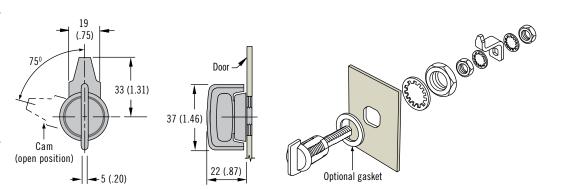
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

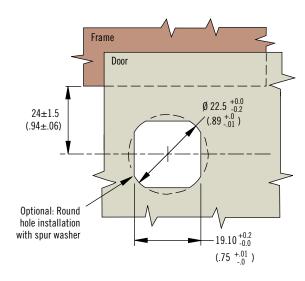
### **Installation Notes**

**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** Key CH751 page 58 Washers and sleeve nut see page 60













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### H Head Styles





Standard knob

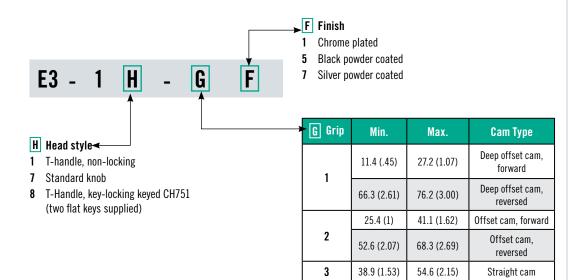
T-handle, key-locking







Part Number Selection









### **E3** *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Tool operated · Fixed grip

- Consistent pre-set compression
- Quick install
- Reduced internal protrusion

### **Material and Finish**

Zinc alloy, powder coated or chrome plated and steel plated

### **Performance Details**

Max. static load: 300 N (67 lbf)

### **Sealing Notes**

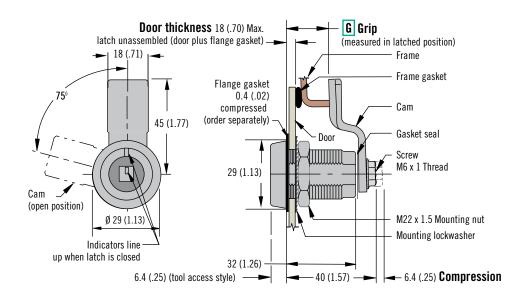
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

### **Installation Notes**

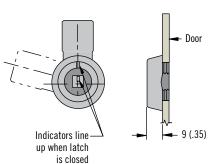
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

### **Keys and Accessories**

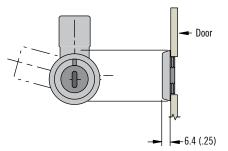
See pages 58 - 61

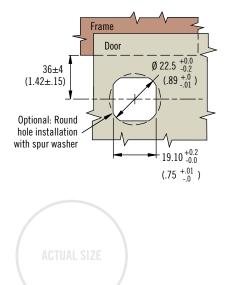


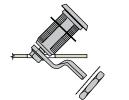
### Railway Standard - Bellcore 216



All Other Head Styles (slotted recess shown)







A Assembled Installation

A Unassembled Installation



INFO CLIC

### H Head Styles











8 (.32) Square driver

Railway standard

Bellcore 216

Bellcore electronics

SOUTHCO®

Tubular key



8 (.32)

Hex recess recess 5 (.19)

Double bit

Slotted

Part Number Selection ► F Finish ዘ Head style 🗲 2 3 (.11) Double bit 1 Chrome plated 3 7 (.28) Triangle 5 Black powder coated 4 7 (.28) Square 7 Silver powder coated SOUTHCO® Tubular key 5 6 8 (.32) Hex recess 9 Slotted recess 10 8 (.32) Square driver G A H F **E3** 11 Railway standard 15 Bellcore 216 **16** Bellcore electronics 20 8 (.32) Triangle 48 5 (.19) Double bit 🗛 Assembly status 🔫 10 Assembled 12 Unassembled

	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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	





### **E3** *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Hand operated · Fixed grip

- Consistent pre-set compression
- Quick install
- Reduced internal protrusion

### **Material and Finish**

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

**Performance Details** 

Max. static load: 300 N (67 lbf)

### **Sealing Notes**

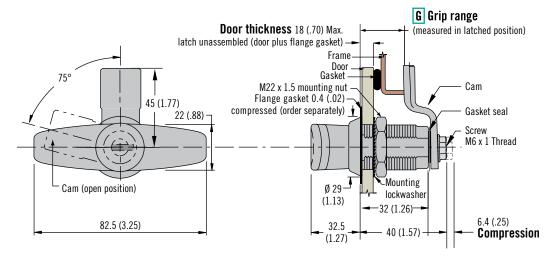
NEMA 4 / IP65 sealing is achieved by using optional flange gasket. Flange gasket part number: E5-17

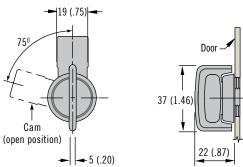
### **Installation Notes**

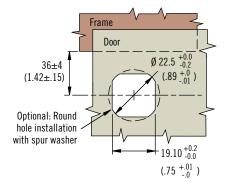
Recommended tightening torque for the mounting nut is 20 N·m (176 in·lbf), and for the mounting screw in 10 N·m (88 in·lbf)

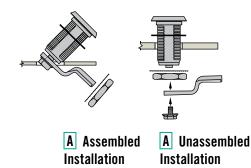
### Keys and Accessories

Key CH751 page 58 Washers and sleeve nut see page 60



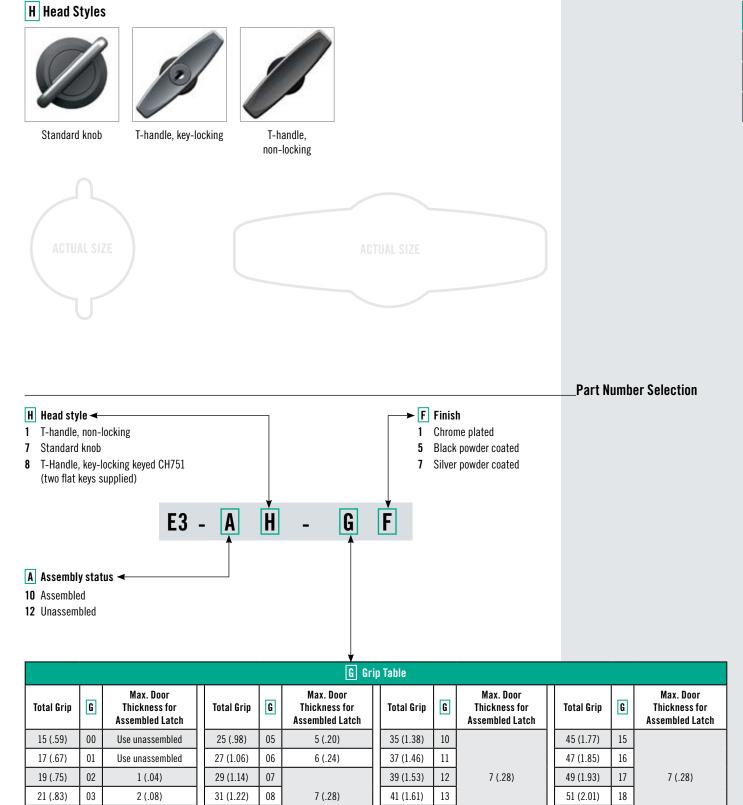








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4 (.16)

33 (1.30)

09

14

43 (1.69)



19

53 (2.09)



### **E3** *VISE ACTION®* Compression Latch Large · Zinc and plated steel · Wing knob · Adjustable grip

- ریب ۵۵۵ هم
- Consistent pre-set compression
- Easy grip adjustment
- Multiple key codes

### **Material and Finish**

Zinc alloy, powder coated and steel, zinc plated

Performance Details Max. static load: 450 N (100 lbf)

### **Sealing Notes**

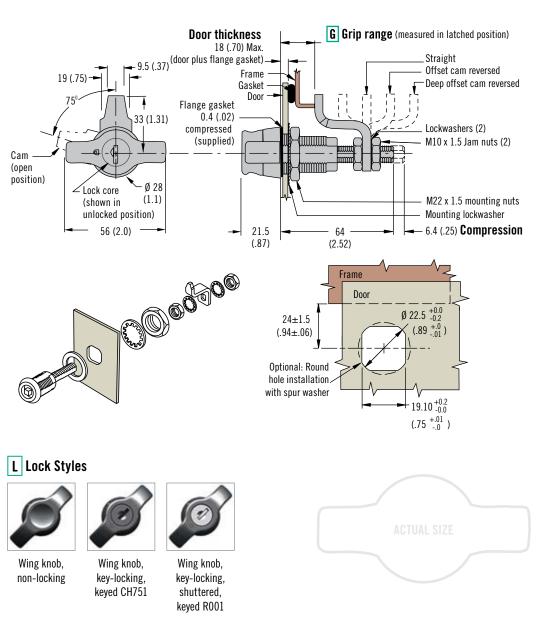
NEMA 4 / IP65 sealing is achieved by using gasket supplied.

### **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**

Key CH751 page 58 Key R001 page 58 Washers and sleeve nut see page 60



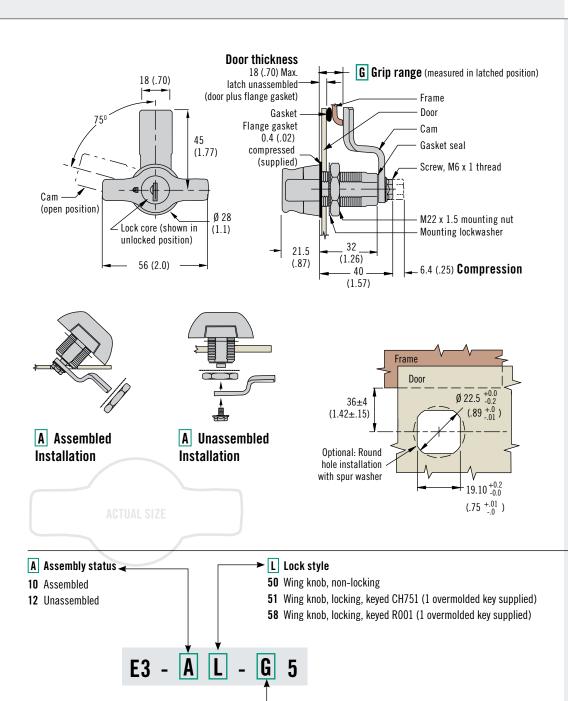
### Part Number Selection

<ul> <li>L Lock style </li> <li>50 Wing knob, non-locking</li> <li>51 Wing knob, key-locking, keyed CH751 (1 overmolded key supplied)</li> <li>58 Wing knob, key-locking, keyed R001 (1 overmolded key supplied)</li> </ul>	
E3 - 1	L - G 5

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



Large  $\cdot$  Zinc and plated steel  $\cdot$  Wing knob  $\cdot$  Fixed grip



- Consistent pre-set compression
- Minimal internal
   protrusion
- Multiple key codes

### **Material and Finish**

Zinc alloy, powder coated and steel, zinc plated

#### **Performance Details**

Max. static load: 300 N (67 lbf)

Sealing Notes

NEMA 4 / IP65 sealing is achieved by 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**

Key CH751 page 58 Key R001 page 58 Washers and sleeve nut see page 60

### Part Number Selection

					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		45 (1.77)	15	
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		39 (1.53)	12	7 (.28)	49 (1.93)	17	7 (.28)
21 (.83)	03	2 (.08)	31 (1.22)	08	7 (.28)	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	

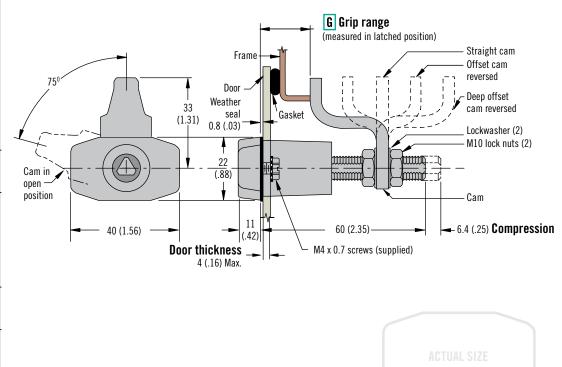


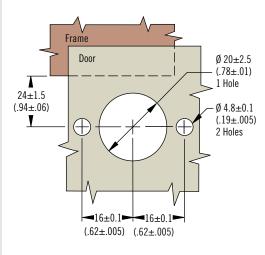






Large  $\cdot$  Zinc and plated steel  $\cdot$  Tool & hand operated Three hole mount  $\cdot$  Adjustable grip





### H Head Styles



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## • Consistent pre-set compression

Easy grip adjustment

### **Material and Finish**

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

### Performance Details

Max. static load: 450 N (100 lbf)

### **Installation Notes**

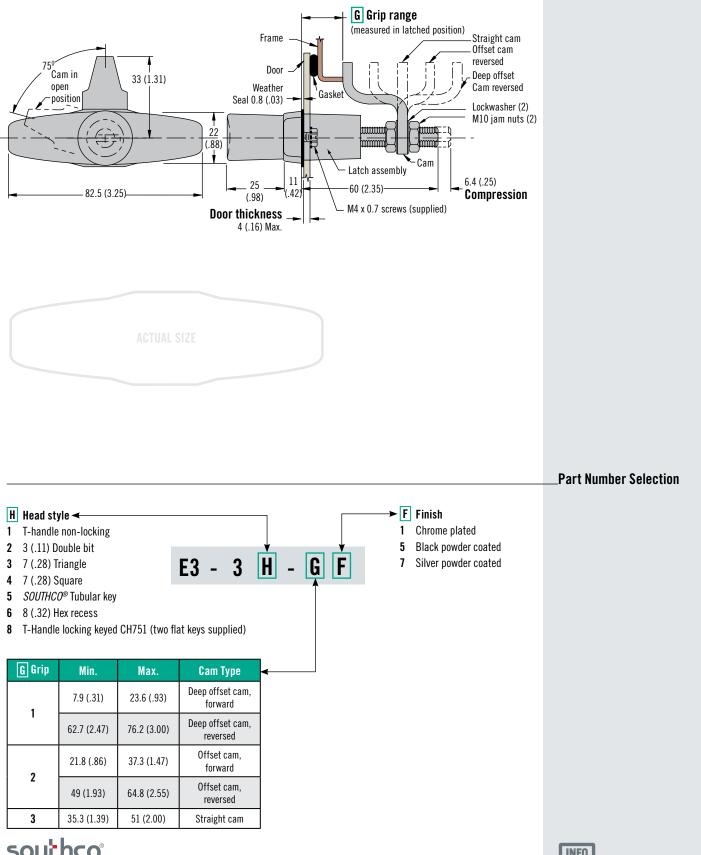
For door thickness greater than 4 (.16) calculate screw length using the following formula: Door thickness + 6 (.24)

### **Keys and Accessories**

Pages 58 - 61



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### **E3** *VISE ACTION®* Compression Latch Accessories Keys

**Material and Finish** Keys - Steel **Key Styles** 50 (1.97) For latches with SOUTHCO® Steel, zinc plated  $\cap$ Tubular key head styles Part Number 39 (1.54) 2 3 (.11) Double bit Steel tubular key (order separately) Small E3 latches: E3-26-819-15 Ø 11.5 (0.45) Large E3 latches: E3-5-15 3 7 (.28) Triangle 4 7 (.28) Square Keys - Zinc or Nylon **Material and Finish** 55 (2.2) Zinc alloy or nylon 7 8 (.32) Triangle 56 (2.2) H Head style 🗲 8 8 (.32) Square recess 2 3 (.11) Double bit **3** 7 (.28) Triangle 4 7 (.28) Square **9** 5 (.19) Double bit 7 8 (.32) Triangle 8 8 (.32) Square recess 5 (.19) Double bit 10 8 (.32) Square male 9 (nylon only) F Finish **10** 8 (.32) Square male Plated zinc 1 11 Bellcore electronics (zinc only) 2 Natural zinc **11** Bellcore electronics 3 Nylon black **12** Bellcore 216 12 Bellcore 216 (zinc only) 24 6(.24) Square recess (nylon only) 24 6 (.24) Square recess F H **E**3

### **Part Number**

INFO CLIC

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

www.southco.com/E3

#### Overmolded Keys Key CH751



Key R001



Flat Keys Key CH751

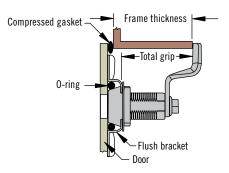




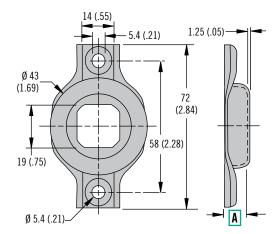
## **E3** *VISE ACTION®* Compression Latch Accessories

Fixed bracket for flush mounting





А	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	*9.3 E3-77-252-24 304 Stainless steel							
* For use	* For use with Railway standard or Bellcore 216 style only							



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.

### **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 40 -55) and sealing the mounting screw threads.

#### Notes

For use with large single hole mount tool operated E3 VISE ACTION® compression latches, see pages 40 - 43, 46 - 47 and 50 - 51

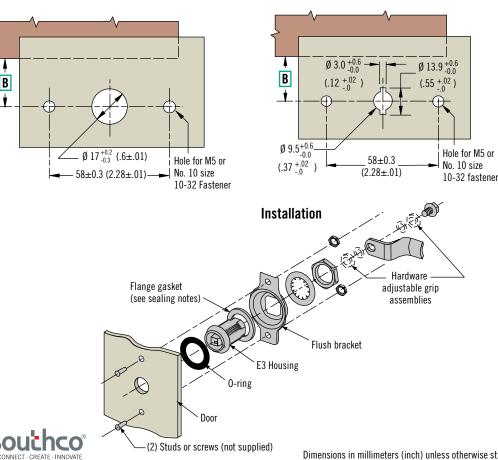


4

В

1

For **B** dimensions: Large adjustable grip  $24 \pm 1.5$  (.94±.06) Fixed grip  $36 \pm 4$  (1.42 $\pm$ .15)

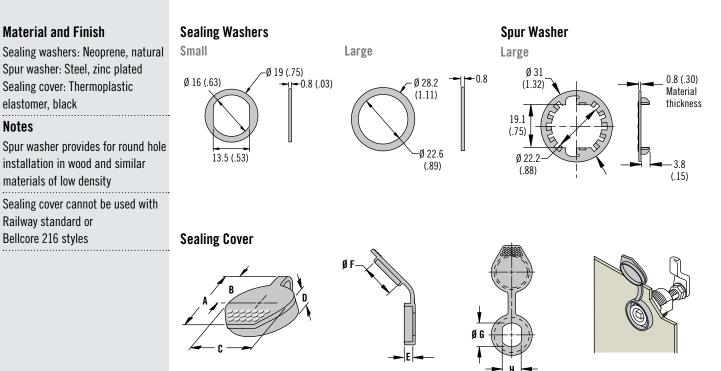






## **E3** *VISE ACTION®* Compression Latch Accessories

Sealing & spur washers · Sealing covers · Sleeve nut



Latch Ins	stallation Hole Size			Dimen	sions		
Ø G	Distance across flat H	A	В	Ø C	D	E	ØF
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

Zinc allov

Туре	Part Number	Adjustment Formula			
Sealing washer small	E3-0-30268-02	Add 0.4 (.02) to door thickness			
Sealing washer large E5-17		Add 0.4 (.02) to door thickness			
Spur washer large	90-6-875	Add 0.8 (.03) to door thickness			
Sealing cover small	90-1	Add 2.3 (.09) to door thickness			
Sealing cover large	90-3	Add 2.3 (.09) to door thickness			

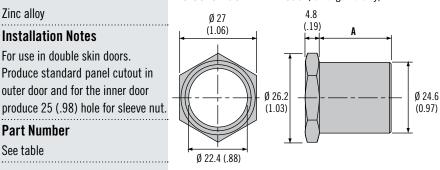
### **Material and Finish**

**Installation Notes** For use in double skin doors. Produce standard panel cutout in outer door and for the inner door

Part Number See table

INFO CLIC

### Sleeve Nut M22 Thread (for large E3 only)



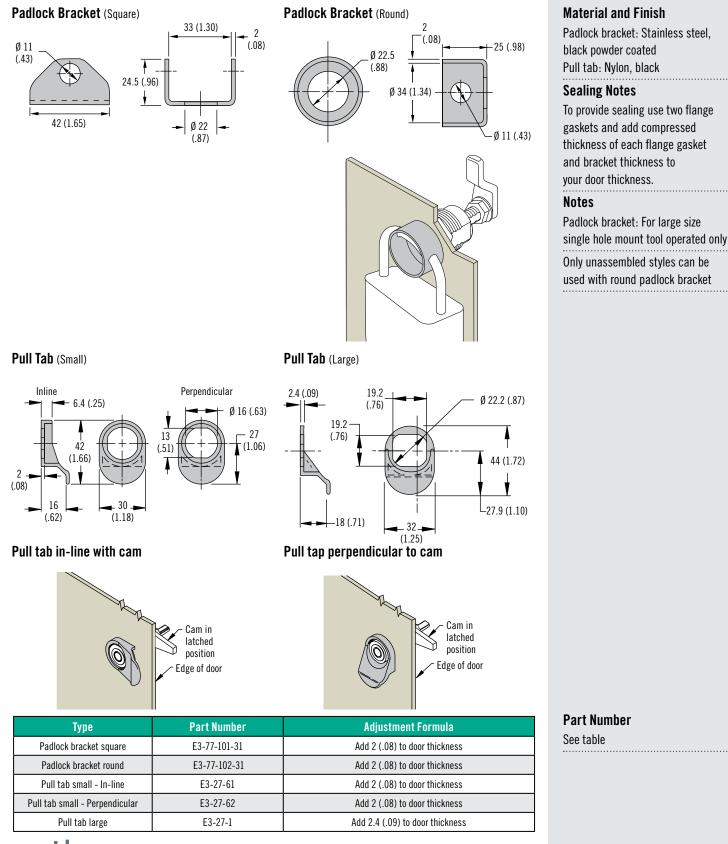
А	Part Number
12.7 (.50)	E3-34-263-36
25 (.98)	E3-34-264-36

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## **E3** *VISE ACTION®* Compression Latch Accessories

Padlock brackets · Finger pulls





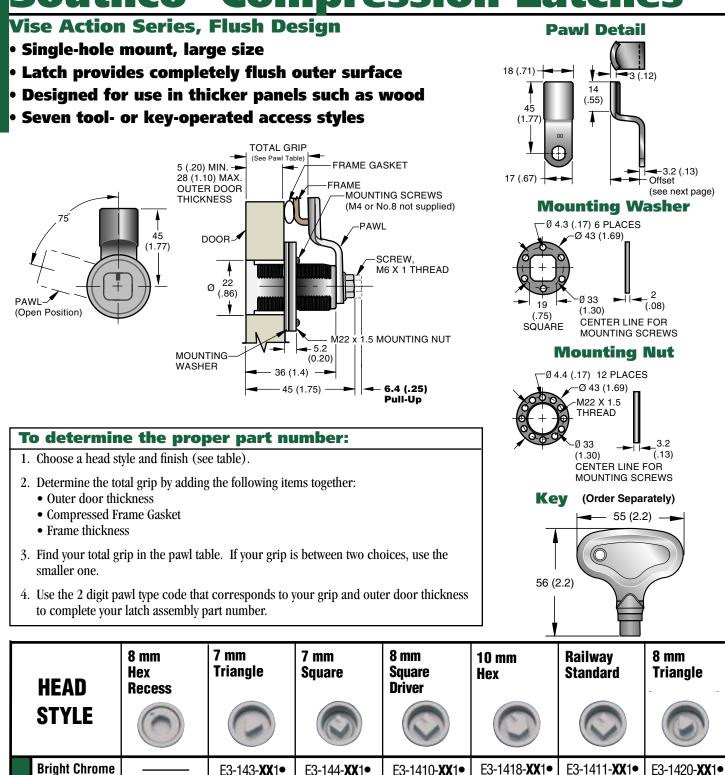




# Southco<sup>®</sup> Compression Latches

**Compression Latches** 

Fixed



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

• Products identified with this symbol are stocked subject to prior sale in one or more of our global locations. If unavailable from our facility nearest you, allow for shipping time from another facility.

E3-144-XX1•

E3-144-XX5•

E3-144-XX7•

E3-4-1 •

E3-1410-XX1•

E3-1410-XX5•

E3-1410-XX7•

E3-8-1 •

E3-143-XX1•

E3-143-XX5•

E3-143-XX7•

E3-3-1 •

**Black Powder** 

Coated

Satin Silver

Polvester **Powder Coated** 

Keys

Part Number

38

E3-146-XX5

E3-146-XX7

E3-1418-XX1•

E3-1418-XX5•

E3-1418-XX7•

10 mm (.375)

Hex Recess

(Not available

E3-1411-XX1•

E3-1411-XX5•

E3-1411-XX7•

**RIC Standard** 

(European Railway

Standard)

Not available

from Southco

southco

E3-1420-XX1•

E3-1420-XX5•

E3-1420-XX7•

E3-7-1 •

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



### **Material and Finish**

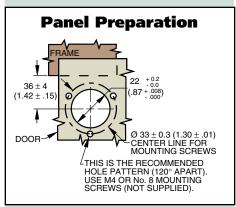
HOUSING and CAP: Die-cast zinc, bright chrome plated or powder coated, see table. **RETAINER and SPRING: 302 Stainless steel,** natural. O-RING: Buna-N rubber, natural. CAM and SLEEVE: 1075 Case hardened steel, zinc immersion coating. SHAFT and SCREW: Low carbon steel, zinc plate, chromate plus sealer.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



### 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

Mounting

Washer

Mounting

Nut

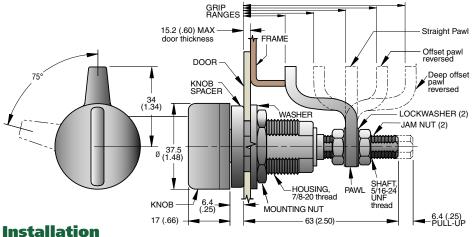
## **Southco<sup>®</sup>** Compression Latches

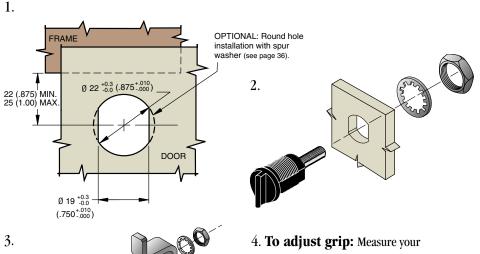
### **Vise Action Series Knob Style**

Single-hole mount, large size

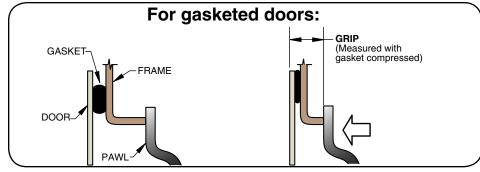
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- Wider flange for mounting in non-metallic materials
- Knob provides quick, unrestricted access





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.



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



Accessory for this latch. See page 36.

### **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 I	RANGE	PART NUMBERS	
MIN.	MAX.		
10 (.39)	27 (1.06)	E3-10-50 <b>4-5</b> 0 * •	
24 (.94)	40 (1.57)	E3-10-50 <b>5-5</b> 0 * •	
36 (1.42)	52.5 (2.06)	E3-10-50 <b>6-5</b> 0‡●	
49 (1.94)	65.5 (2.57)	E3-10-50 <b>5-5</b> 0 * •	
63.5 (2.50)	79 (3.11)	E3-10-50 <b>4-5</b> 0 * •	

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

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