



M3 Compression System

Remote compression latch

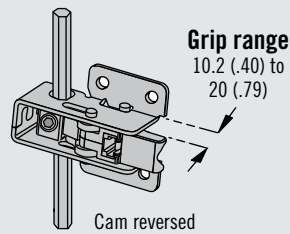
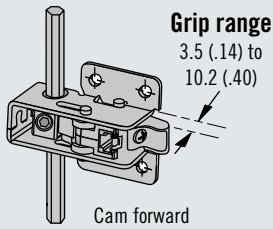
- Consistent compression driven by rotational rod
- Adjustable grip
- Meets NEMA 4 / IP66 and EMI standards
- Can be driven by hand, tool or key-locking actuators

Material and Finish

Zinc alloy and steel, zinc plated

Performance Details

Max. static load:
890 N (200 lbf) per latch
Average ultimate load:
1335 N (300 lbf)



Notes

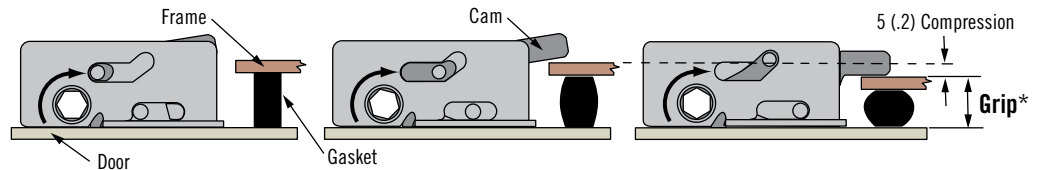
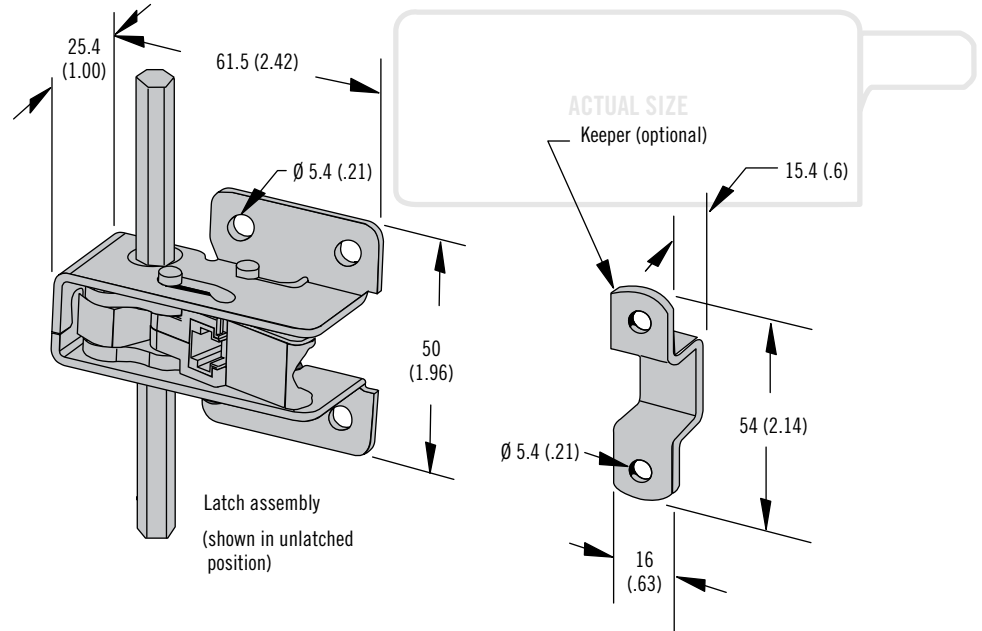
Do not exceed 20 (.79) grip range with cam reversed

Part Number

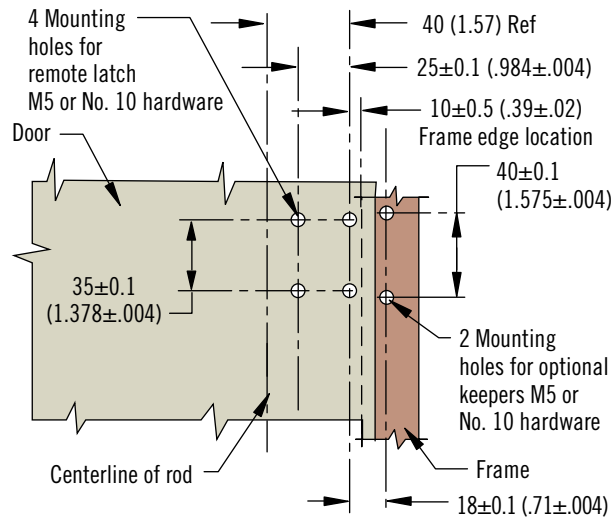
Remote compression latch and optional keeper only see table

The complete system consists of:
Remote compression latch and / or optional keeper (see page 246)
Actuator (see pages 247 - 250)
Rods (see page 251)

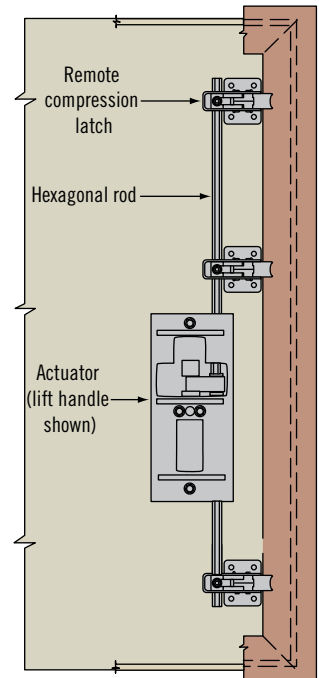
Order each component separately



* Measure your Grip from the latch mounting surface to the inside frame surface, with gasket compressed



Inside view



Part Number	
Remote compression latch	M3-50
Keeper (optional) use for grip ranges 15 - 30 (.59 - 1.18)	M3-51

Dimensions in millimeters (inch) unless otherwise stated

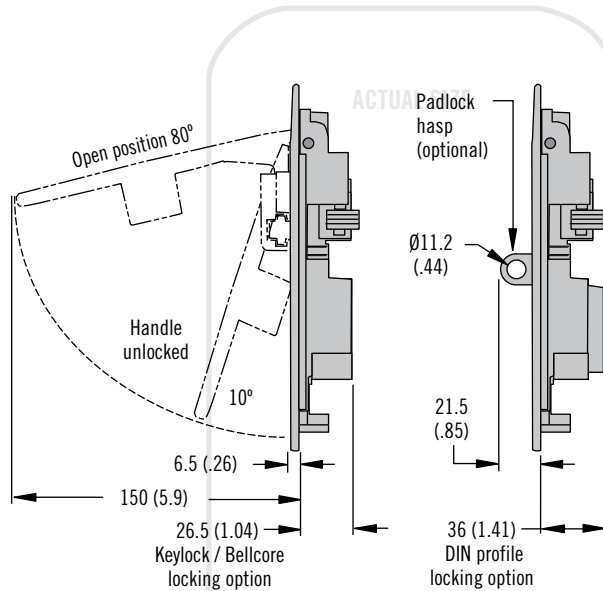
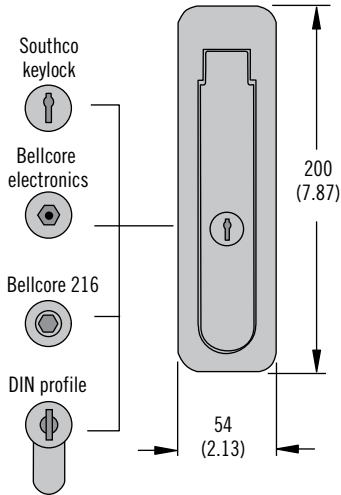
M3 Compression System

Actuators · Lift handle



Lift Handle

Locking options



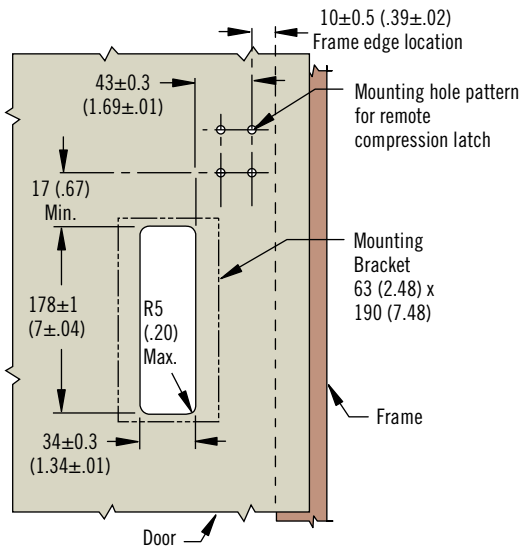
- Suitable for left and right side latching
- Meets NEMA 4/ IP66, GR487 and EMI standards
- Ejecting handle

Material and Finish

Zinc alloy black powder coated and steel, zinc plated

Sealing Notes

NEMA 4 / IP66 achieved using gasket supplied



Part Number Selection

Actuator only

The complete system consists of:
 Remote compression latch and / or optional keeper (see page 246)
 Actuator (see pages 247 - 250)
 Rods (see page 251)
 Order each component separately

P Padlock option
 0 Non padlock
 1 Padlockable

D Door thickness range
 10 1.5 - 3 (.06 - .12)
 11 3 - 4.5 (.12 - .18)
 25 24 - 25.5 (.94 - 1.0)

L Lock style
 10 Key-locking keyed alike CH751 (two keys supplied)
 11 DIN profile supplied keyed alike 347876 (three keys supplied)
 16 Bellcore 216
 17 Bellcore electronics

M3 - 40 - L P - D



M3 Compression System

Actuators · Push-button handle

- Suitable for left and right side latching

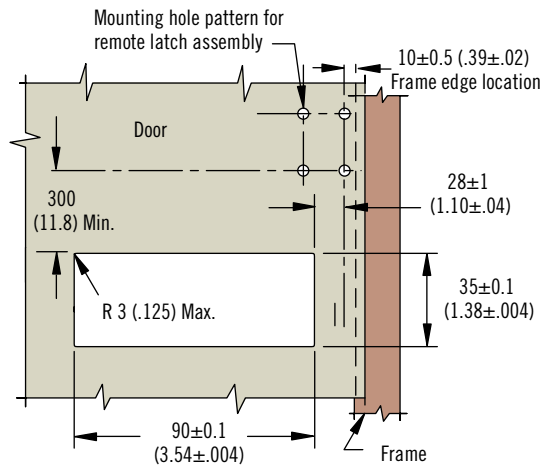
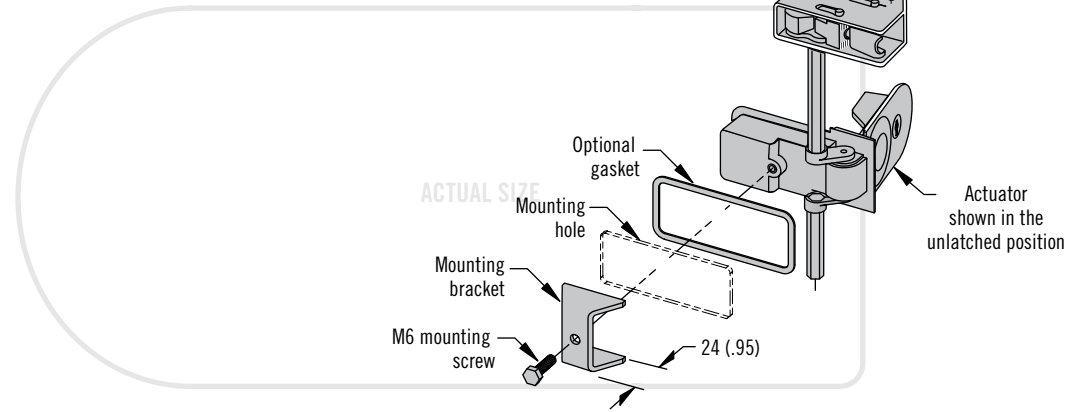
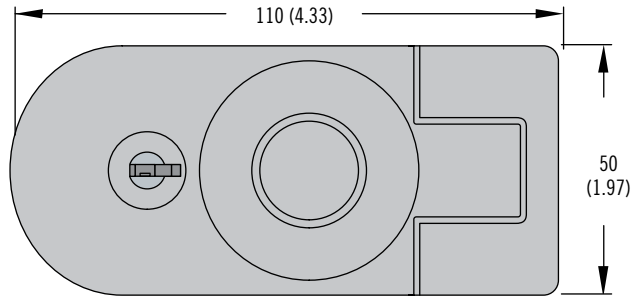
Material and Finish

Zinc alloy black powder coated and steel, zinc plated

Sealing Notes

NEMA 4 / IP66 achieved using optional gaskets (ordered separately)

Push-Button Handle



Part Number

Actuator and sealing gasket only see table

The complete system consists of: Remote compression latch and / or optional keeper (see page 246) Actuator (see pages 247 - 250) Rods (see page 251)

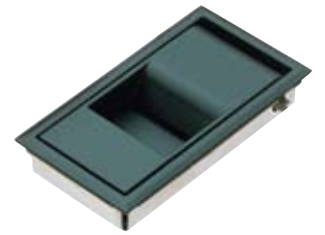
Order each component separately

Actuator	Door Thickness Range	Part Number
Push-button handle	0 - 5 (0 - .20)	M3-90
	5 - 10 (.20 - .39)	M3-92
Push-button handle with key-lock	0 - 5 (0 - .20)	M3-91
	5 - 10 (.20 - .39)	M3-93

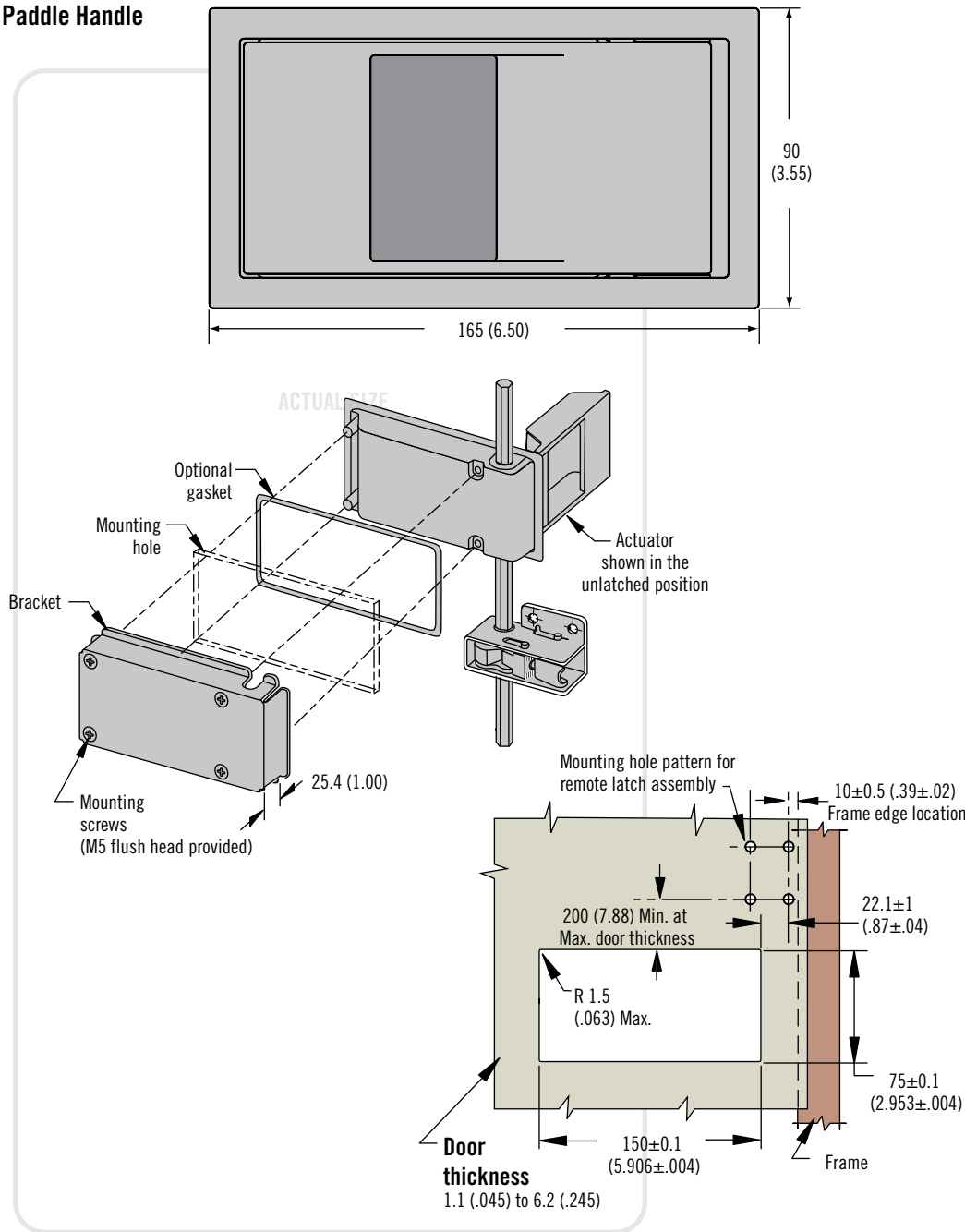
Sealing Gasket Part Number
C5-82

M3 Compression System

Actuators · Paddle handle



Paddle Handle



- Suitable for left and right side latching

Material and Finish

Zinc alloy black powder coated and steel, zinc plated

Sealing Notes

NEMA 4 / IP66 achieved using gasket supplied



Actuator	Part Number
Paddle (includes bracket and screws)	M3-10
Paddle with key-lock (includes bracket and screws)	M3-17

Part Number

Actuator and gaskets only see table

The complete system consists of:
 Remote compression latch and / or optional keeper (see page 246)
 Actuator (see pages 247 - 250)
 Rods (see page 251)

Order each component separately

Gasket Type	Part Number
Environmental	M3-12
EMC	M3-13



M3 Compression System

Actuators · Door edge lever · Concealed

- Simple actuator for top or bottom of door

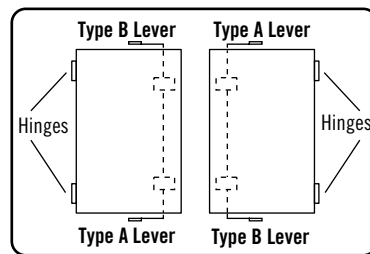
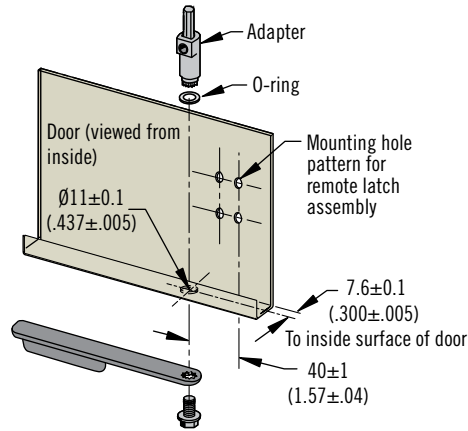
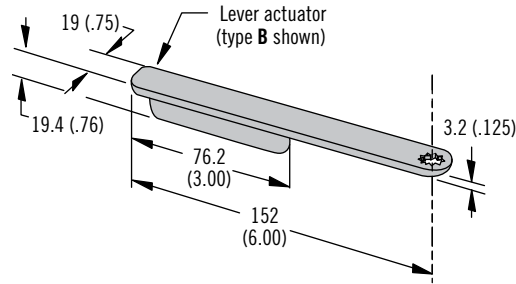
Material and Finish

Door edge lever: Zinc alloy black powder coated and steel, zinc plated
 Adaptor: Zinc alloy, chemical protective film
 Concealed: Zinc alloy, chemical protective film

Notes

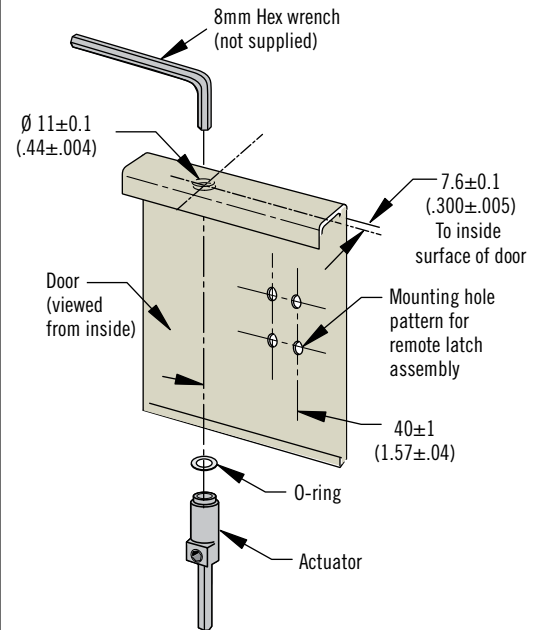
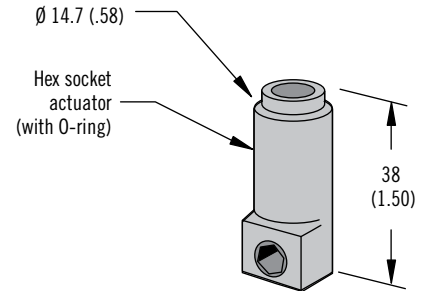
Concealed: Operated by 8mm hex wrench (not supplied)

Door Edge Lever



Viewed from outside

Concealed



Part Number

Actuator only see table

The complete system consists of:
 Remote compression latch and / or optional keeper (see page 246)
 Actuator (see pages 247 - 250)
 Rods (see page 251)

Order each component separately

Actuator	Type	Part Number
Lever (includes adapter and O-ring)	A	M3-31
	B	M3-32

Actuator	Part Number
Hex socket with O-ring seal	M3-30

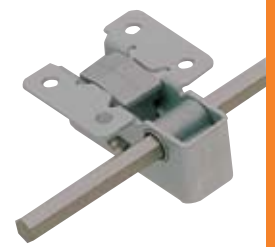
Dimensions in millimeters (inch) unless otherwise stated



www.southco.com/M3

M3 Compression System

Rods and Calculator



Hexagonal Rod

Hex Rod Length	Part Number	
Hex rods (length measured in centimeters)	125 cm	M3-125
	155 cm	M3-155
	185 cm	M3-185

Material and Finish

Stainless steel, natural

Notes

If you choose to use your own rods, they should have no more than 1 degree of twist in any meter length

Part Number

Rod only see table

The complete system consists of:
Remote compression latch and / or optional keeper (see page 246)
Actuator (see pages 247 - 250)
Rods (see page 251)

Order each component separately

To Determine Rod Length Per Actuator		
For Lift and Paddle Handle	For Push-Button Handle	For Door Edge Lever and 8 mm Hex Socket
<ul style="list-style-type: none"> Use center to center distance between farthest remote latches Add 2 cm 	<ul style="list-style-type: none"> 2 rods are required Use the distance from centerline of actuator to centerline of farthest latch assembly Top and bottom rods may be different length 	<ul style="list-style-type: none"> Use the distance between the door edge and the centerline of the farthest latch

Calculation Notes

Once you have completed the calculation please order the following parts:

- 1 x Actuator
- 1 or 2 rods to correct length
- Number of compression latches determined from calculation

Calculator

To determine the minimum number of remote compression latches you require along the door edge:

$$N = \frac{L \times R}{470}$$

N = Number of compression latches along door edge (rounded to the nearest whole number)
 L = Total length of gasketing material in millimeters
 R = Gasket compression rate in N / mm

Example: $\frac{5200 \text{ mm} \times 0.3 \text{ N / mm}}{470} = 3.28 = 3 \text{ latches}$

Remote compression latches should be evenly spaced along edge of door