M3 Compression System

Remote compression latch

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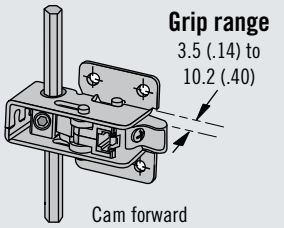
- **Consistent compression driven by rotational rod**
- **Adjustable grip**
- **Meets NEMA 4 / IP66 and EMI standards**
- **Can be driven by hand, tool or key-locking actuators**

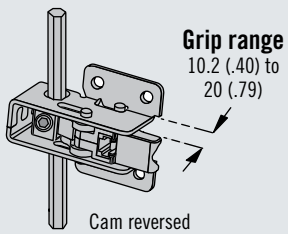
Material and Finish

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

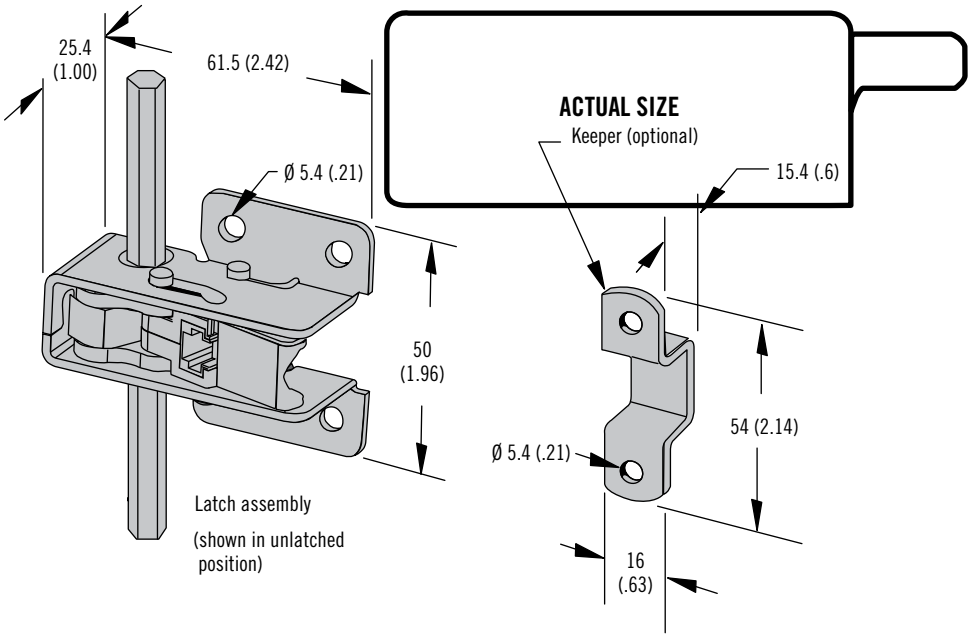
Do not exceed 20 (.79) grip range with cam reversed

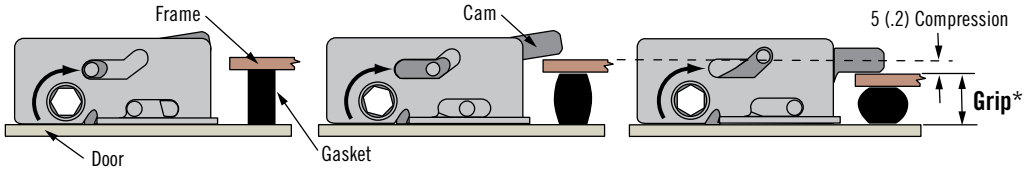
Part Number

Remote compression latch and optional keeper only see table

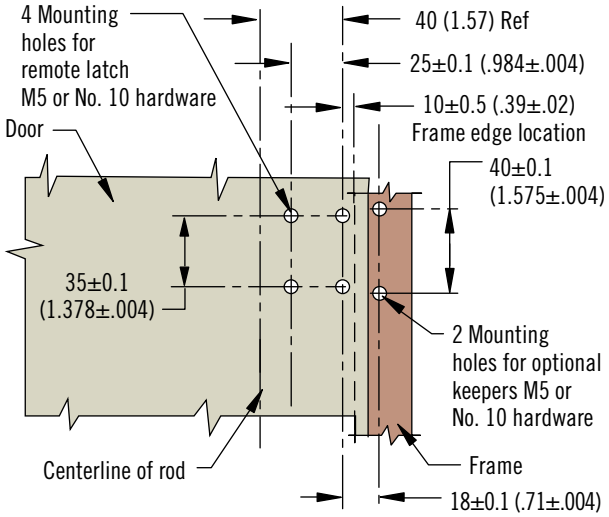
The complete system consists of:
Remote compression latch and / or optional keeper (see page 246)
Actuator (see pages 247 - 250)
Rods (see page 251)

Order each component separately

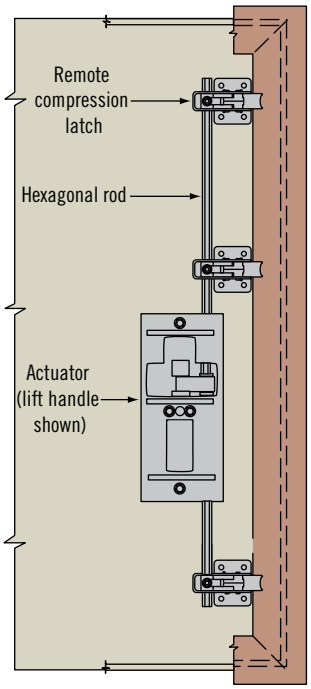




* Measure your **Grip** from the latch mounting surface to the inside frame surface, with gasket compressed



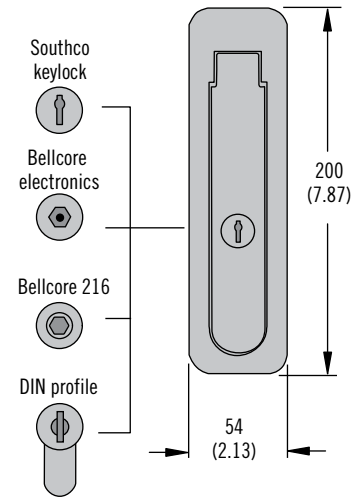
Inside view

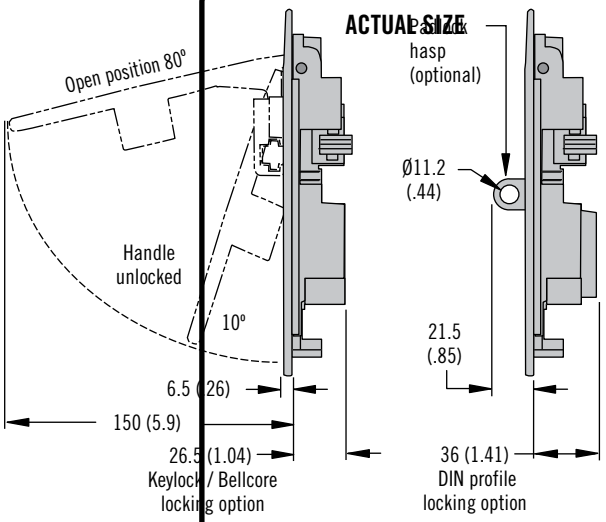


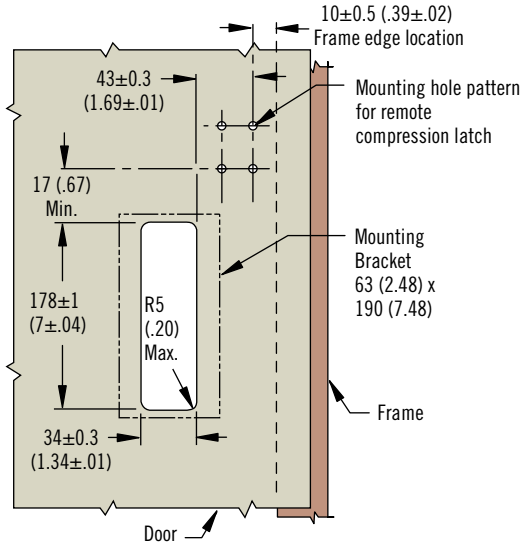
Part Number	
Remote compression latch	M3-50
Keeper (optional) use for grip ranges 15 - 30 (.59 - 1.18)	M3-51

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)

M3 - 40 - L P - D

L **Lock style**
- **10** Key-locking keyed alike CH751 (two keys supplied)
- **11** DIN profile ~~supplied keyed alike 247876~~ (three keys supplied)
- **16** Bellcore 216
- **17** Bellcore electronics

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M3 Compression System

Actuators · Push-button handle

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- **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)

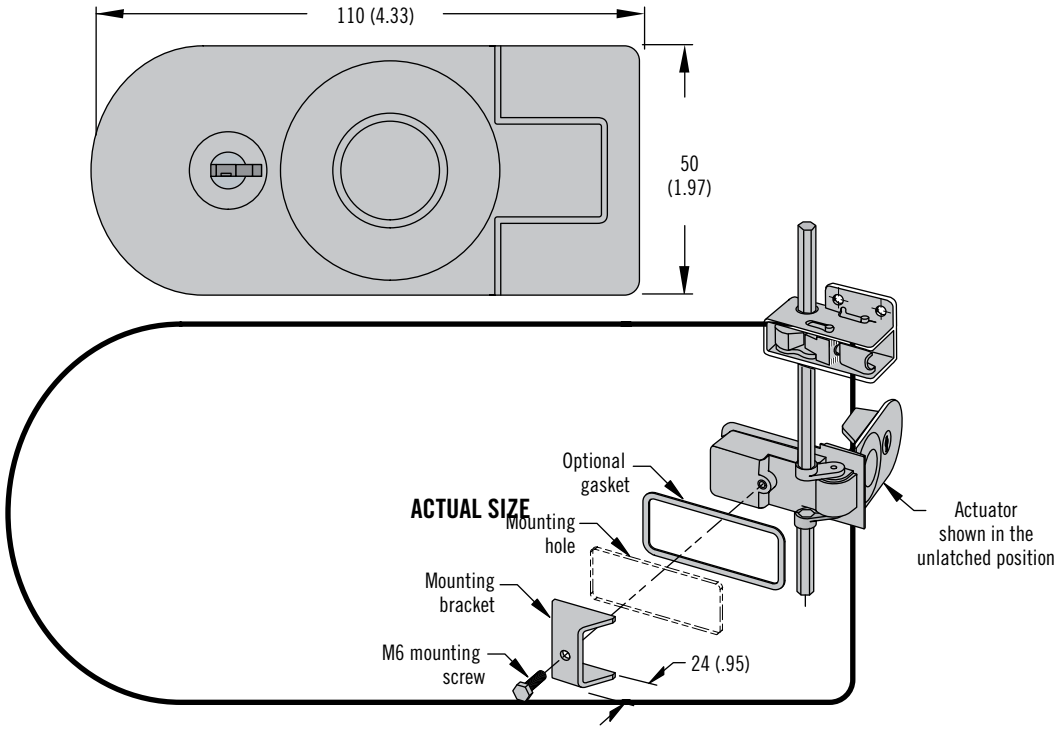
Part Number

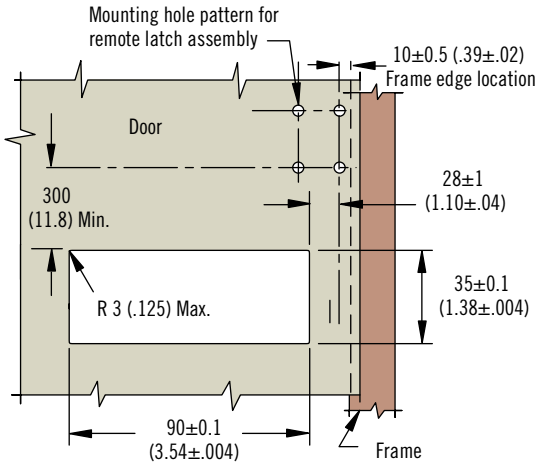
Actuator and sealing gasket only see table

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

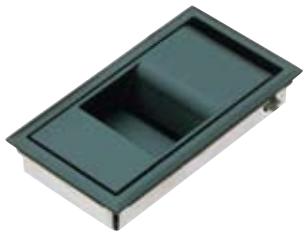
Push-Button Handle



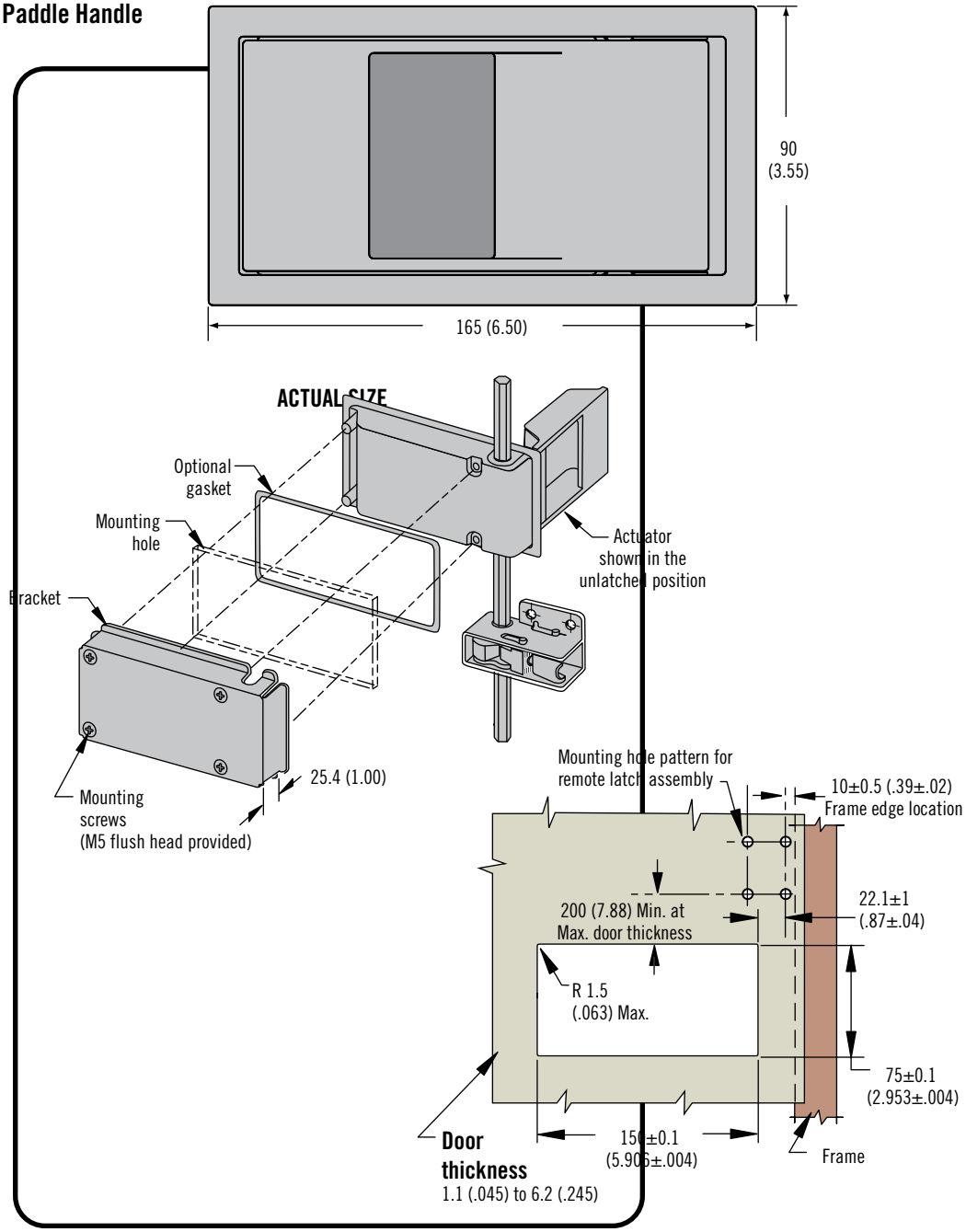


Actuator	Door Thickness Range	Part Number
Push-button handle	0 - 5 (0 - .20)	M3-90
	5 - 10 (.20 - .39)	M3-92
Push-button handle with key-lock	0 - 5 (0 - .20)	M3-91
	5 - 10 (.20 - .39)	M3-93

Sealing Gasket Part Number
C5-82



Paddle Handle



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

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

- **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

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

M3 Compression System

Actuators · Door edge lever · Concealed

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- **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)

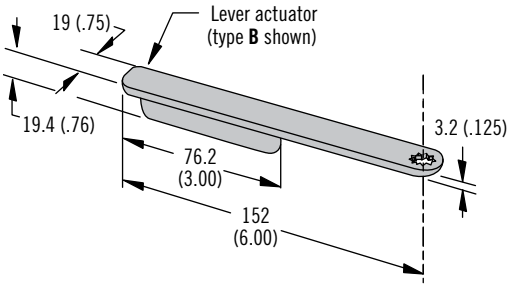
Part Number

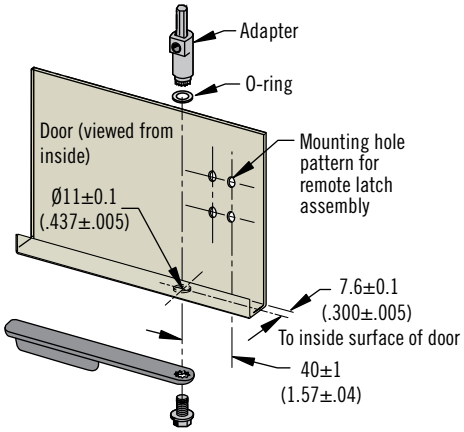
Actuator only see table

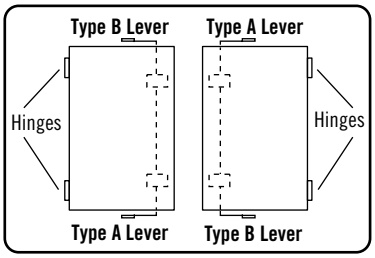
The complete system consists of:
Remote compression latch and / or optional keeper (see page 246)
Actuator (see pages 247 - 250)
Rods (see page 251)

Order each component separately

Door Edge Lever



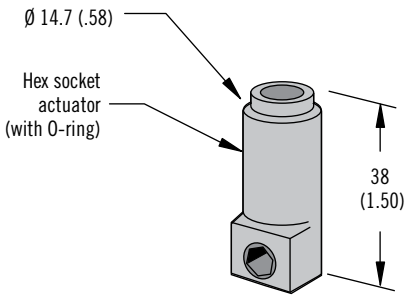


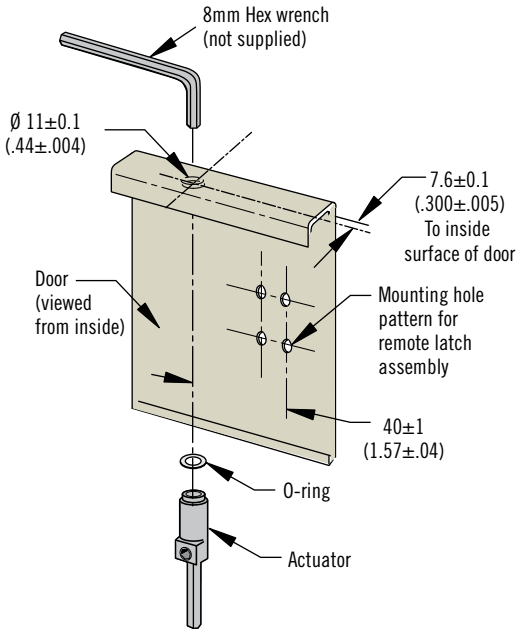


Viewed from outside

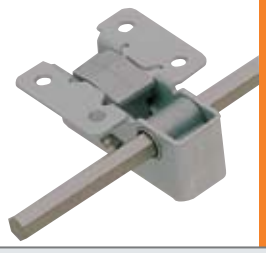
Actuator	Type	Part Number
Lever (includes adapter and O-ring)	A	M3-31
	B	M3-32

Concealed





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



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**
• Use center to center distance between farthest remote latches • Add 2 cm	• 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	• 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

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