



## E6 Hinge

### Position control

### Constant torque



Rivit srl via Marconi 20 - 40064 - Ozzano dell'Emilia (BO)  
Per info 051 4171115 - luca.chiarelli@rivit.it

- Holds in every position
- No adjustment required
- Long cycle life

#### Material and Finish

Large: Zinc alloy, black paint  
Medium: Aluminum alloy, black paint

#### Performance Details

Cycle performance: 20,000 cycles within  $\pm 20\%$  of static torque specification

#### Radial load:

Large:

Maximum static load: 200 N (45 lbf)

Average ultimate load:

11000 N (2470 lbf)

Medium:

Maximum static load: 155 N (35 lbf)

Average ultimate load:

3000 N (675 lbf)

#### Axial load:

Large:

Maximum static load: 200 N (45 lbf)

Average ultimate load:

2800 N (630 lbf)

Medium:

Maximum static load: 155 N (35 lbf)

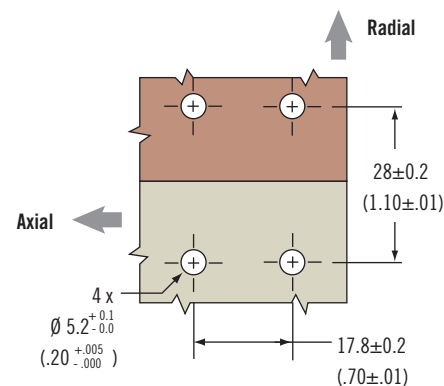
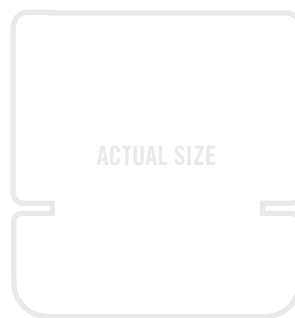
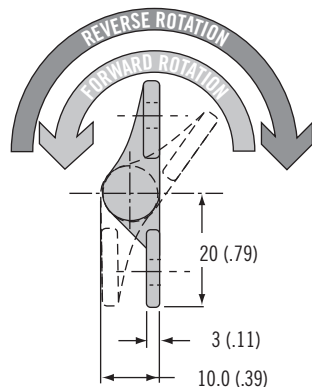
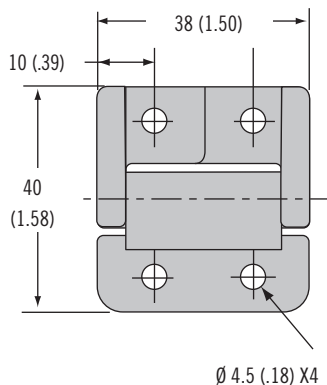
Average ultimate load:

1600 N (360 lbf)

#### Part Number

See table

#### Medium



#### Symmetric

| Part Number  | Symmetric Torque N·m (in·lbf) |
|--------------|-------------------------------|
| E6-10-200-50 | Free operating                |
| E6-10-208-50 | 0.9 (8)                       |
| E6-10-212-50 | 1.4 (12)                      |
| E6-10-216-50 | 1.8 (16)                      |
| E6-10-220-50 | 2.3 (20)                      |

#### Asymmetric

| Part Number   | Forward Torque N·m (in·lbf) | Reverse torque N·m (in·lbf) |
|---------------|-----------------------------|-----------------------------|
| E6-10-212F-50 | 1.4 (12)                    | 0.8 (7.2)                   |
| E6-10-216F-50 | 1.8 (16)                    | 1.1 (9.6)                   |
| E6-10-220F-50 | 2.3 (20)                    | 1.4 (12)                    |
| E6-10-224F-50 | 2.7 (24)                    | 1.6 (14.4)                  |
| E6-10-212R-50 | 0.8 (7.2)                   | 1.4 (12)                    |
| E6-10-216R-50 | 1.1 (9.6)                   | 1.8 (16)                    |
| E6-10-220R-50 | 1.4 (12)                    | 2.3 (20)                    |
| E6-10-224R-50 | 1.6 (14.4)                  | 2.7 (24)                    |

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



[www.southco.com/E6](http://www.southco.com/E6)

Dimensions in millimeters (inch) unless otherwise stated

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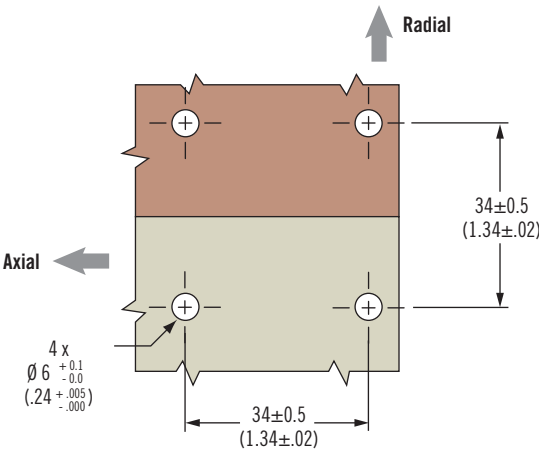
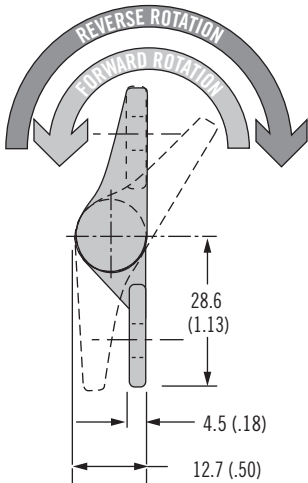
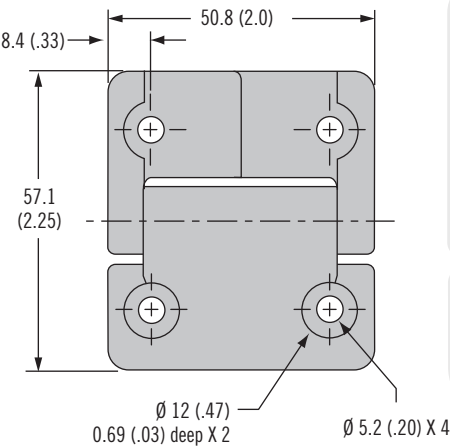
# E6 Hinge

Position control  
Constant torque



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## Large



## Symmetric

| Part Number  | Symmetric Torque N·m (in·lbf) |
|--------------|-------------------------------|
| E6-10-400-50 | Free operating                |
| E6-10-416-50 | 1.8 (16)                      |
| E6-10-420-50 | 2.3 (20)                      |
| E6-10-430-50 | 3.4 (30)                      |

## Asymmetric

| Part Number   | Forward Torque N·m (in·lbf) | Reverse Torque N·m (in·lbf) |
|---------------|-----------------------------|-----------------------------|
| E6-10-420F-50 | 2.3 (20)                    | 1.4 (12)                    |
| E6-10-430F-50 | 3.4 (30)                    | 2.0 (18)                    |
| E6-10-440F-50 | 4.5 (40)                    | 2.7 (24)                    |
| E6-10-420R-50 | 1.4 (12)                    | 2.3 (20)                    |
| E6-10-430R-50 | 2.0 (18)                    | 3.4 (30)                    |
| E6-10-440R-50 | 2.7 (24)                    | 4.5 (40)                    |

- Holds in every position
- No adjustment required
- Long cycle life

## Material and Finish

Large: Zinc alloy, black paint  
Medium: Aluminum alloy, black paint

## Performance Details

Cycle performance: 20,000 cycles within  $\pm 20\%$  of static torque specification

### Radial load:

#### Large:

Maximum static load: 200 N (45 lbf)

Average ultimate load:

11000 N (2470 lbf)

#### Medium:

Maximum static load: 155 N (35 lbf)

Average ultimate load:

3000 N (675 lbf)

### Axial load:

#### Large:

Maximum static load: 200 N (45 lbf)

Average ultimate load:

2800 N (630 lbf)

#### Medium:

Maximum static load: 155 N (35 lbf)

Average ultimate load:

1600 N (360 lbf)

## Part Number

See table

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



[www.southco.com/E6](http://www.southco.com/E6)



# E6 Hinge

## Position Control

## Constant Torque



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- Holds in every position
- No adjustment required
- Long cycle life

### Material and Finish

Aluminum alloy, black powder coat

### Performance Details

Cycle performance

20,000 Cycles, see product drawing for details

Radial load:

Max. static load: 200 N (45 lbf)

Average ultimate load:

2200 N (500 lbf)

Axial load:

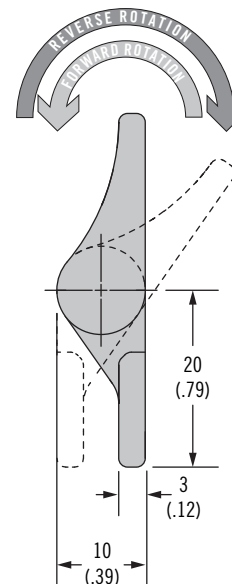
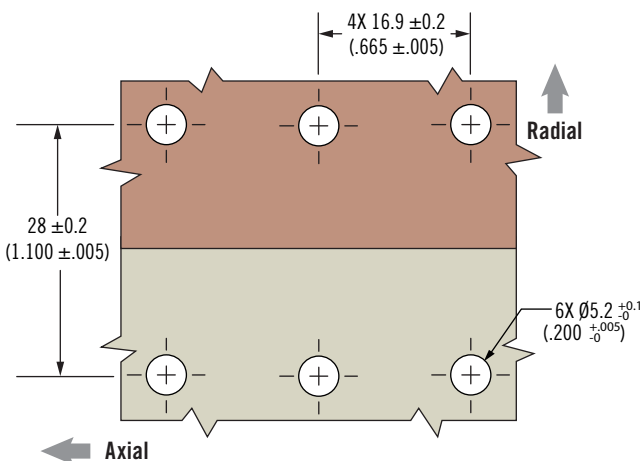
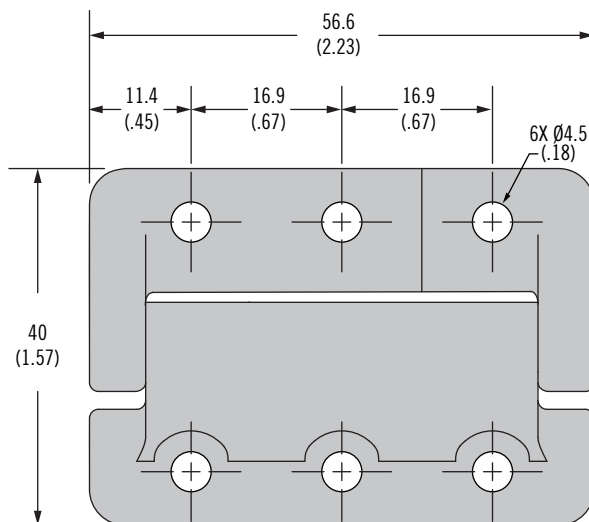
Max. static load: 200 N (45 lbf)

Average ultimate load:

1450 N (325 lbf)

### Part Number

See table



ACTUAL SIZE

### Symmetric

| Part Number   | Symmetric Torque N·m (in·lbf) |
|---------------|-------------------------------|
| E6-10E-200-50 | Free operating                |
| E6-10E-208-50 | 0.9 (8)                       |
| E6-10E-212-50 | 1.4 (12)                      |
| E6-10E-216-50 | 1.8 (16)                      |
| E6-10E-220-50 | 2.3 (20)                      |
| E6-10E-224-50 | 2.7(24)                       |
| E6-10E-230-50 | 3.4 (30)                      |

### Asymmetric

| Part Number    | Forward Torque N·m (in·lbf) | Reverse Torque N·m (in·lbf) |
|----------------|-----------------------------|-----------------------------|
| E6-10E-212F-50 | 1.4 (12)                    | 0.8 (7.2)                   |
| E6-10E-216F-50 | 1.8 (16)                    | 1.1 (9.6)                   |
| E6-10E-220F-50 | 2.3 (20)                    | 1.4 (12)                    |
| E6-10E-224F-50 | 2.7 (24)                    | 1.6 (14)                    |
| E6-10E-230F-50 | 3.4 (30)                    | 2.0 (18)                    |
| E6-10E-240F-50 | 4.5 (40)                    | 2.7 (24)                    |
| E6-10E-212R-50 | 0.8 (7.2)                   | 1.4 (12)                    |
| E6-10E-216R-50 | 1.1 (9.6)                   | 1.8 (16)                    |
| E6-10E-220R-50 | 1.4 (12)                    | 2.3 (20)                    |
| E6-10E-224R-50 | 1.6 (14)                    | 2.7 (24)                    |
| E6-10E-230R-50 | 2.0 (18)                    | 3.4 (30)                    |
| E6-10E-240R-50 | 2.7 (24)                    | 4.5 (40)                    |

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



[www.southco.com/E6](http://www.southco.com/E6)

Dimensions in millimeters (inch) unless otherwise stated

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# E6 Hinge

Position control  
Constant torque



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- Holds in every position
- No adjustment required
- Long cycle life

## Material and Finish

Aluminum alloy, black powder coated

## Performance Details

Cycle performance: 20,000 cycles within  $\pm 20\%$  of static torque specification

Radial load:

Max. static load: 2,000 N (450 lbf)

Average ultimate load:

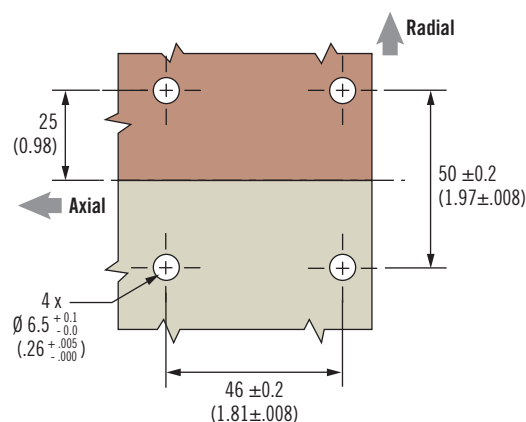
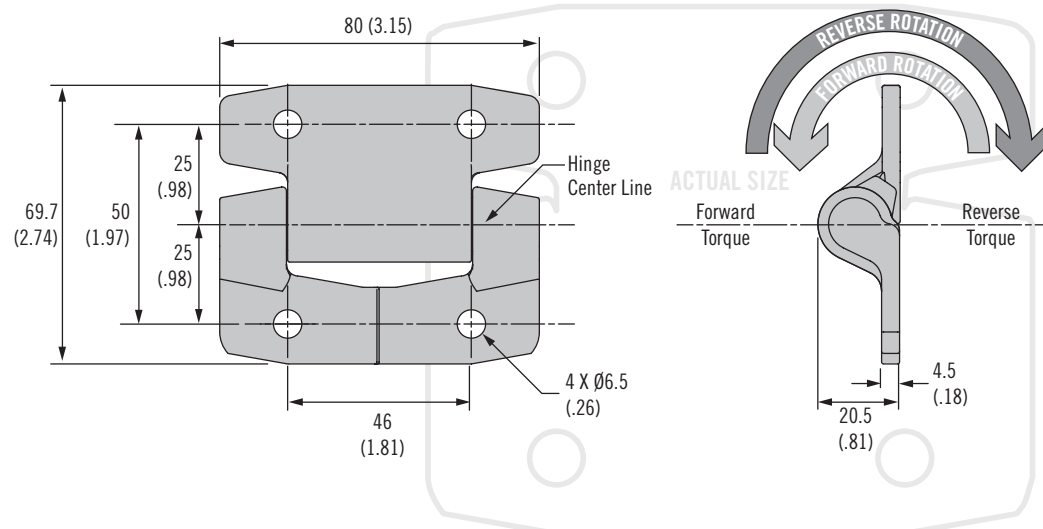
10,500 N (2,360 lbf)

Axial load:

Max. static load: 500 N (110 lbf)

Average ultimate load:

9,000 N (2,023 lbf)



## Part Number

See table

## Asymmetric

| Part Number    | Forward Torque<br>N·m (in·lbf) | Reverse Torque<br>N·m (in·lbf) |
|----------------|--------------------------------|--------------------------------|
| E6-10-620F-50  | 2.3 (20.0)                     | 1.7 (14.9)                     |
| E6-10-635F-50  | 3.9 (35.0)                     | 3.0 (26.7)                     |
| E6-10-650F-50  | 5.7 (50.0)                     | 4.0 (35.7)                     |
| E6-10-665F-50  | 7.3 (65.0)                     | 5.4 (47.5)                     |
| E6-10-680F-50  | 9.0 (80.0)                     | 6.7 (59.4)                     |
| E6-10-695F-50  | 10.7 (95.0)                    | 7.8 (68.9)                     |
| E6-10-6110F-50 | 12.4 (110.0)                   | 9.0 (79.8)                     |
| E6-10-620R-50  | 1.7 (14.9)                     | 2.3 (20.0)                     |
| E6-10-635R-50  | 3.0 (26.7)                     | 3.9 (35.0)                     |
| E6-10-650R-50  | 4.0 (35.7)                     | 5.7 (50.0)                     |
| E6-10-665R-50  | 5.4 (47.5)                     | 7.3 (65.0)                     |
| E6-10-680R-50  | 6.7 (59.4)                     | 9.0 (80.0)                     |
| E6-10-695R-50  | 7.8 (68.9)                     | 10.7 (95.0)                    |
| E6-10-6110R-50 | 9.0 (79.8)                     | 12.4 (110.0)                   |

## Symmetric

| Part Number   | Symmetric Torque N·m (in·lbf) |
|---------------|-------------------------------|
| E6-10-620S-50 | 2.3 (20.0)                    |
| E6-10-635S-50 | 3.9 (35.0)                    |
| E6-10-650S-50 | 5.7 (50.0)                    |
| E6-10-665S-50 | 7.3 (65.0)                    |
| E6-10-680S-50 | 9.0 (80.0)                    |

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



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Dimensions in millimeters (inch) unless otherwise stated

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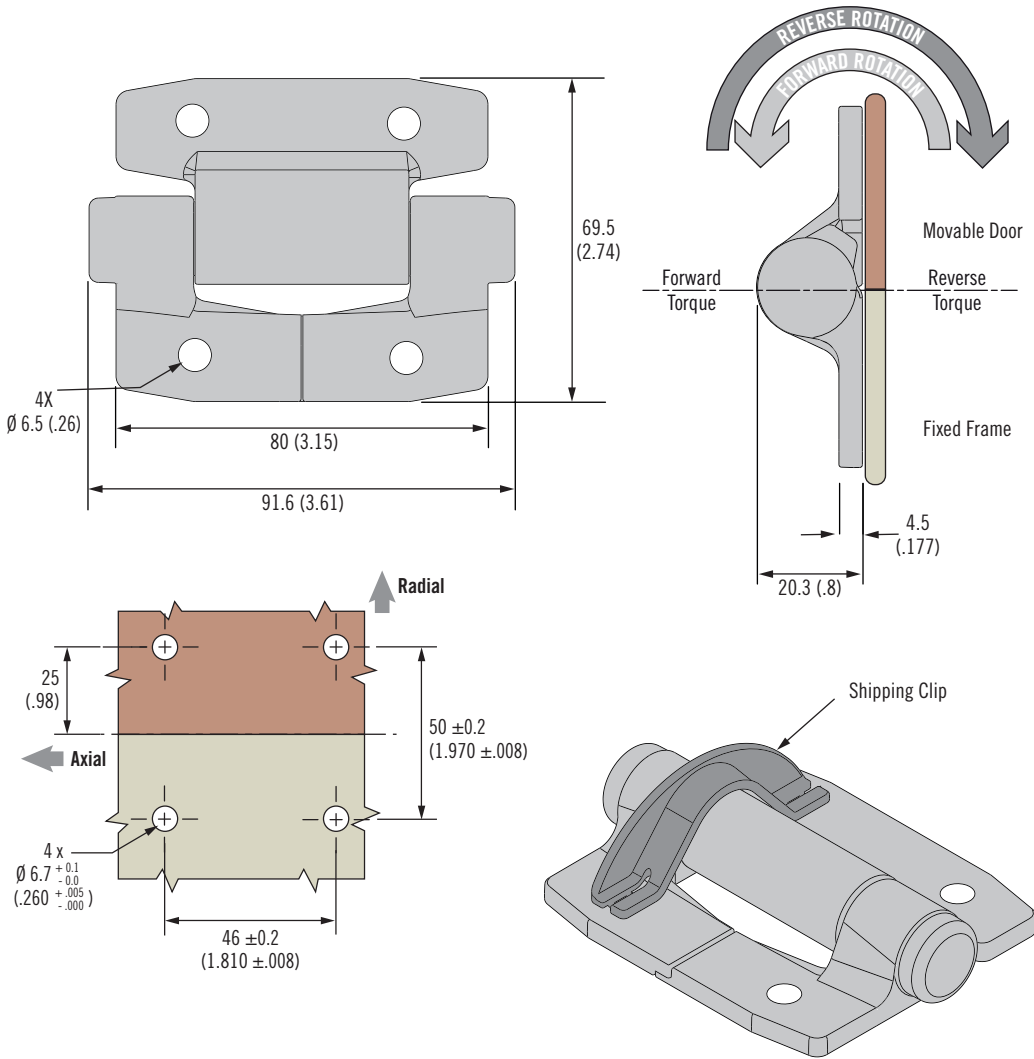
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# E6 Hinge

## Position Control Constant Torque One Way



328A



- Holds in every position
- No adjustment required
- Long cycle life
- Minimal resistance in free direction

### Material and Finish

Aluminum alloy, black powder coated

### Performance Details

Cycle performance: 20,000 Cycles, see trade drawing for details

Radial load:

Max. static load: 2000 N (450 lbf)

Average ultimate load: 3500 N (780 lbf)

Axial load:

Max. static load: 500 N (110 lbf)

Average ultimate load: 6000 N (1300 lbf)

### Installation Notes

Do not remove shipping clip until hinge is secured by first pair of screws. Discard or recycle shipping clip when removed.

### Part Number

See table

| Part Number     | Forward Torque<br>N·m (in·lbf) | Reverse Torque<br>N·m (in·lbf) |
|-----------------|--------------------------------|--------------------------------|
| E6-10-620F0-50  | 2.3 (20)                       | Free                           |
| E6-10-635F0-50  | 3.9 (35)                       | Free                           |
| E6-10-650F0-50  | 5.7 (50)                       | Free                           |
| E6-10-665F0-50  | 7.3 (65)                       | Free                           |
| E6-10-680F0-50  | 9.0 (80)                       | Free                           |
| E6-10-695F0-50  | 10.7 (95)                      | Free                           |
| E6-10-6110F0-50 | 12.4 (110)                     | Free                           |
| E6-10-620R0-50  | Free                           | 2.3 (20)                       |
| E6-10-635R0-50  | Free                           | 3.9 (35)                       |
| E6-10-650R0-50  | Free                           | 5.7 (50)                       |
| E6-10-665R0-50  | Free                           | 7.3 (65)                       |
| E6-10-680R0-50  | Free                           | 9.0 (80)                       |
| E6-10-695R0-50  | Free                           | 10.7 (95)                      |
| E6-10-6110R0-50 | Free                           | 12.4 (110)                     |



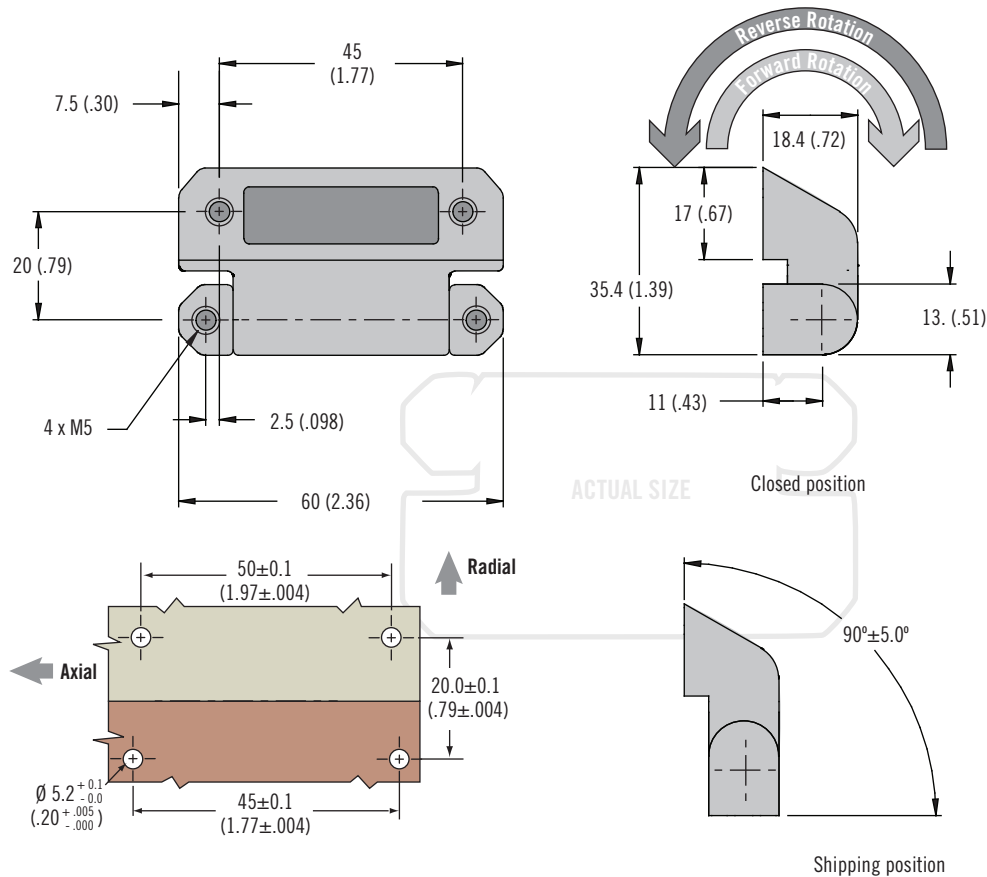
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## E6 Hinge

### Position control Constant torque



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### Symmetric

| Part Number   |               | Symmetric Torque<br>N·m (in·lbf) |
|---------------|---------------|----------------------------------|
| Black         | Satin Chrome  |                                  |
| E6-60-400-50  | E6-60-400-20  | Free operating                   |
| E6-60-412S-50 | E6-60-412S-20 | 1.36 N·m (12 in·lbf)             |
| E6-60-420S-50 | E6-60-420S-20 | 2.26 N·m (20 in·lbf)             |
| E6-60-428S-50 | E6-60-428S-20 | 3.16 N·m (28 in·lbf)             |
| E6-60-436S-50 | E6-60-436S-20 | 4.07 N·m (36 in·lbf)             |

### Asymmetric

| Part Number   |               | Forward Torque<br>N·m (in·lbf) | Reverse Torque<br>N·m (in·lbf) |
|---------------|---------------|--------------------------------|--------------------------------|
| Black         | Satin Chrome  |                                |                                |
| E6-60-420F-50 | E6-60-420F-20 | 2.3 (20)                       | 1.4 (12)                       |
| E6-60-428F-50 | E6-60-428F-20 | 3.2 (28)                       | 1.9 (16.8)                     |
| E6-60-436F-50 | E6-60-436F-20 | 4.1 (36)                       | 2.4 (21.6)                     |
| E6-60-444F-50 | E6-60-444F-20 | 5 (44)                         | 3 (26.4)                       |
| E6-60-420R-50 | E6-60-420R-20 | 1.4 (12)                       | 2.3 (20)                       |
| E6-60-428R-50 | E6-60-428R-20 | 1.9 (16.8)                     | 3.2 (28)                       |
| E6-60-436R-50 | E6-60-436R-20 | 2.4 (21.6)                     | 4.1 (36)                       |
| E6-60-444R-50 | E6-60-444R-20 | 3 (26.4)                       | 5 (44)                         |

- Holds in every position
- No adjustment required
- Long cycle life

### Material and Finish

Zinc alloy body with hardened steel internal components

### Performance Details

20,000 cycles within ±20% of static torque specification

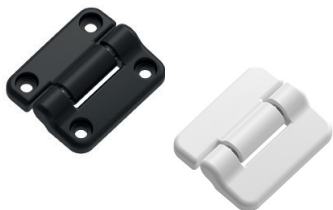
### Installation Notes

Screws not supplied

Calculate screw length using the following formula:  
Door thickness + 6 (.236)

### Part Number

See table



# E6 Hinge

Position control  
Constant torque · Plastic



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- Holds in every position
- No adjustment required
- Long cycle life
- Corrosion resistant
- Multiple mounting options
- Concealed mounting hardware

**Material and Finish**

40 Series: Nylon, black, stainless steel  
50 Series: Nylon, steel, anodized aluminum

**Performance Details**

Cycle performance  
20,000 cycles, see trade drawing for details

Radial load:

Max. static load: 200 N (45 lbf)

Average ultimate load:

1500 N (335 lbf)

Axial load:

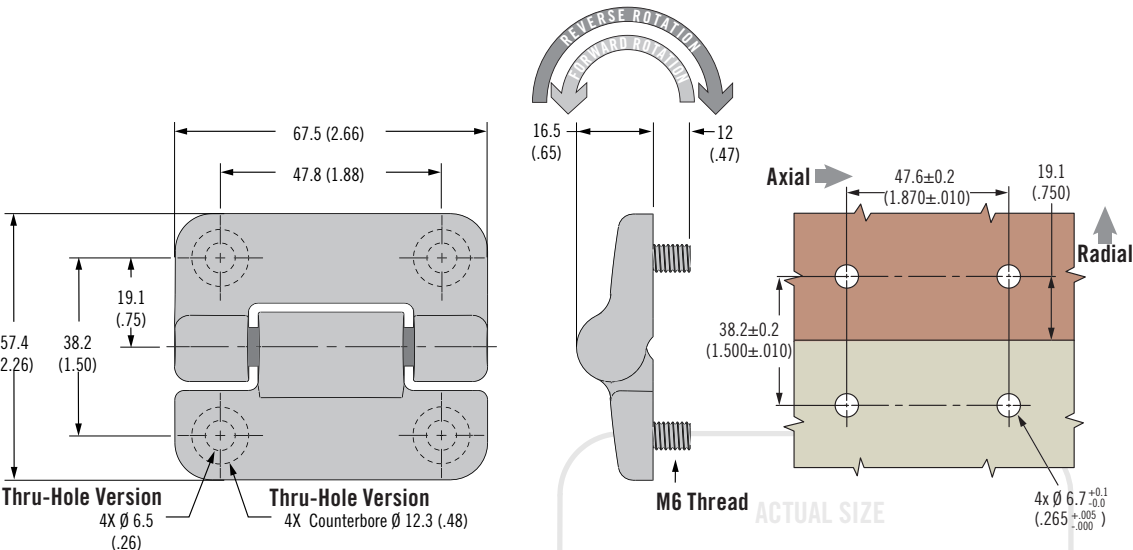
Max. static load: 200 N (45 lbf)

Average ultimate load:

2500 N (560 lbf)

**Part Number**

See table



**40 Series: Simplified torque mechanism providing a single, standard operating effort**

| Part Number        |                      |                               |
|--------------------|----------------------|-------------------------------|
| Thru-Hole Mounting | Thread Stud Mounting | Symmetric Torque N•m (in•lbf) |
| E6-40-537S-20      | E6-45-537S-20        | 4.18 (37)                     |

**50 Series: Constant torque mechanism providing customizable, precise operating efforts**

| Symmetric Torque Versions |                      |                                                     |
|---------------------------|----------------------|-----------------------------------------------------|
| Part Number               |                      | Static Torque (forward and reverse)<br>N•m (in•lbf) |
| Thru-Hole Mounting        | Thread Stud Mounting |                                                     |
| E6-50-535S-XX             | E6-55-535S-XX        | 3.95 (35)                                           |
| E6-50-530S-XX             | E6-55-530S-XX        | 3.39 (30)                                           |
| E6-50-525S-XX             | E6-55-525S-XX        | 2.82 (25)                                           |
| E6-50-520S-XX             | E6-55-520S-XX        | 2.26 (20)                                           |
| E6-50-515S-XX             | E6-55-515S-XX        | 1.69 (15)                                           |

| Asymmetric Torque Versions |                      |                                |                                |
|----------------------------|----------------------|--------------------------------|--------------------------------|
| Part Number                |                      | Forward Torque<br>N•m (in•lbf) | Reverse Torque<br>N•m (in•lbf) |
| Thru-Hole Mounting         | Thread Stud Mounting |                                |                                |
| E6-50-540F-XX              | E6-55-540F-XX        | 4.52 (40)                      | 3.16 (28)                      |
| E6-50-535F-XX              | E6-55-535F-XX        | 3.95 (35)                      | 2.77 (24.5)                    |
| E6-50-530F-XX              | E6-55-530F-XX        | 3.39 (30)                      | 2.37 (21)                      |
| E6-50-525F-XX              | E6-55-525F-XX        | 2.82 (25)                      | 1.98 (17.5)                    |
| E6-50-520F-XX              | E6-55-520F-XX        | 2.26 (20)                      | 1.58 (14)                      |
| E6-50-515F-XX              | E6-55-515F-XX        | 1.69 (15)                      | 1.19 (10.5)                    |
| E6-50-540R-XX              | E6-55-540R-XX        | 3.16 (28)                      | 4.52 (40)                      |
| E6-50-535R-XX              | E6-55-535R-XX        | 2.77 (24.5)                    | 3.95 (35)                      |
| E6-50-530R-XX              | E6-55-530R-XX        | 2.37 (21)                      | 3.39 (30)                      |
| E6-50-525R-XX              | E6-55-525R-XX        | 1.98 (17.5)                    | 2.82 (25)                      |
| E6-50-520R-XX              | E6-55-520R-XX        | 1.58 (14)                      | 2.26 (20)                      |
| E6-50-515R-XX              | E6-55-515R-XX        | 1.19 (10.5)                    | 1.69 (15)                      |

| XX | Color |
|----|-------|
| 20 | Black |
| 10 | White |

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



[www.southco.com/E6](http://www.southco.com/E6)

Dimensions in millimeters (inch) unless otherwise stated