STANLEY



CO-50 and 30 Series

Overhead Concealed Door Closers



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CO-50 General Information



CO-50 Series Single Acting Closers

STANLEY Closers CO-50 Series combines high-quality materials and advanced manufacturing techniques for outstanding quality, performance, and value. Easy field configuration and customization options make CO-50 Series closers a versatile choice for a wide range of applications.

CO-50 Installation Options

The CO-50 Series offers an enhanced menu of installation options to simplify customization and configuration in advance or in the field. Available for either concealed in door or concealed in frame installation, and with hold-open and non-handed options, CO-50 Series closers are easily adaptable to varied applications and door specifications.





Concealed in Door Installation CO-53 & CO-54 Models

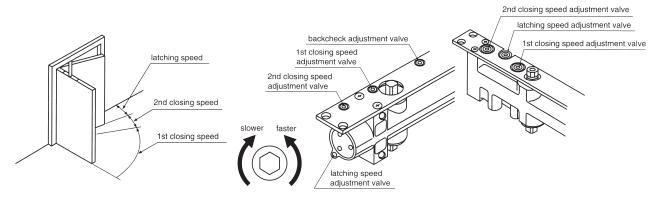
Concealed in Frame Installation CO-55 & CO-56 Models

CO-50: Exceptional Materials And Performance

Made from R-14 die cast aluminum, the cylinder body of each CO-50 Series closer provides superior durability and performance. The R-14 alloy provides wear characteristics similar to that of cast iron, including enhanced wear resistance from contact with the piston during the opening and closing cycle, but also holds the cylinder body dimensionally stable under extreme internal hydraulic pressures.

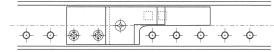
CO-50: Full Hydraulic Controls

Full hydraulic controls offer complete adjustability. The versatile hydraulic mechanism allows maximum control over door closing speed for both first and second closing (see illustration below), ensuring a smooth and independent operation. The heavy duty CO-55 and CO-56 closers also include latching speed control and a new adjustable hydraulic backcheck function.



CO-50: Mechanical Backcheck Function

All CO-50 Series models* now come with a standard mechanical backcheck function, in which the force and weight of the door are controlled to prevent door damage and injury. Even in extreme environmental conditions or when the door is opened forcefully, the backcheck cushions and absorbs external force to moderate the door's function. Although particularly important in public buildings, hospitals, and schools, mechanical backcheck protects users and property in every application.



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*Note: CO-55 and CO-56 closers include a hydraulic backcheck function, making mechanical backcheck functions unnecessary in those models.

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CO-50 Series Track Types

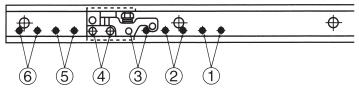
CO-50 Adjustable Door Stop/Hold Open/ Backcheck Angle & Hold Open Force

Adjustment of door stop/hold open/backcheck angle

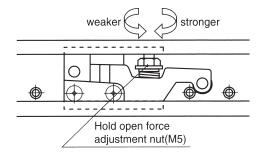
Adjust the door stop, hold open, and backcheck angles by positioning the stopper/stop metal fitting (hold open device), and mechanical backcheck device at 1-6 as shown in the illustration at left.

Adjustment of hold open force

To adjust hold open force, rotate the hold open force adjustment nut.



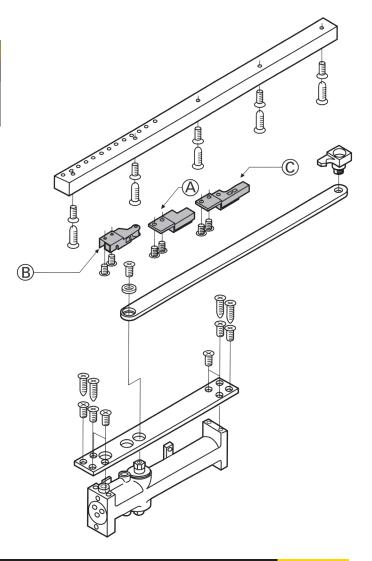
Positioning of stopper/stop metal fitting/backcheck device



Track Accessory Options

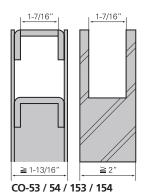
| Description | | | | | | |
|-----------------------------------|---|---|--|--|--|--|
| A | В | С | | | | |
| Stopper (for "without hold open") | Stop Metal Fitting (for "with hold open") | Backcheck Device (for "mechanical backcheck") | | | | |

- In models CO-53, CO-54, CO-55, and CO-56, stopper A is equipped for "without hold open type."
- In models CO-153, CO-154, CO-155, and CO-156, stop metal fitting B is equipped for "with hold open type."
- In models CO-53BC and CO-54BC, backcheck device C is equipped for "with mechanical backcheck type."

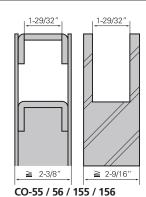


CO-50 Series Model Chart

| Model Nu | mber | | | | Door Thickness | | | | D. 1 | |
|-------------------------|----------------------|-----------------------|------------------------|------------------------|-----------------------|--------------------------|-----------------------|-----------------------|-------------------|--|
| | N N | Max | Max | Steel door | | Wooden door | | | | |
| Without hold open | With hold open | With back check | interior door width | exterior door width | Standard installation | Top jamb installation | Standard installation | Top jamb installation | Body thickness | |
| CO-53 | CO-153 | CO-53BC | 3′2″ 3′8″ | 2'6" | 1 2/4// | 1.1/2// | 2" | 1-11/16" | 1-13/32" | |
| CO-54 | CO-154 | CO-54BC | | 3'0" | 1-3/4" | 1-1/2" | | | | |
| CO-55 R | CO-155 R | _ | 4'0" | 4/0// | 3'6" | | | | | |
| CO-55 L | CO-155 L | _ | | 30 | 2.2/0// | 2.2/0// | 2.0/16// | 2 2/0// | 1 7/0// | |
| CO-56 R | CO-156 R | _ | 5'0" | 41011 | 2-3/8" 2-3/8" | 2-3/8" | 2-9/16" | 2-3/8" | 1-7/8" | |
| CO-56 L | CO-156 L | _ | | 5'0" 4'0" | | | | | | |



53BC / 54BC



CO-50 Series How To Order

| CO-50 Series Concealed Closers | | | | | | | |
|--|--------------|--------|--|--|--|--|--|
| Concealed In-Door Closers | | | | | | | |
| Application | CO-50 Series | Weight | | | | | |
| Concealed In-Door Size 3 | CO-53 | 5 lbs | | | | | |
| Concealed In-Door Size 4 | CO-54 | 5 lbs | | | | | |
| Concealed In-Door Size 3 with Hold Open | CO-153 | 5 lbs | | | | | |
| Concealed In-Door Size 4 with Hold Open | CO-154 | 5 lbs | | | | | |
| Overhead Concealed Closers (Handed) | | | | | | | |
| Application | CO-50 Series | Weight | | | | | |
| Overhead Concealed Size 5 | CO-55 | 12 lbs | | | | | |
| Overhead Concealed Size 6 | CO-56 | 12 lbs | | | | | |
| Overhead Concealed Size 5 with Hold Open | CO-155 | 12 lbs | | | | | |
| Overhead Concealed Size 6 with Hold Open | CO-156 | 12 lbs | | | | | |



30 Series General Information & How To Order

30 Series: Double Acting Concealed Door Closer

The 30 Series double acting concealed door closers use cast iron construction to ensure the highest performance and durability. Designed and manufactured with the highest quality standards, the 30 Series cast iron housing, high tensile camshaft, and ball bearing bottom pivot allow smoother opening and closing operation.

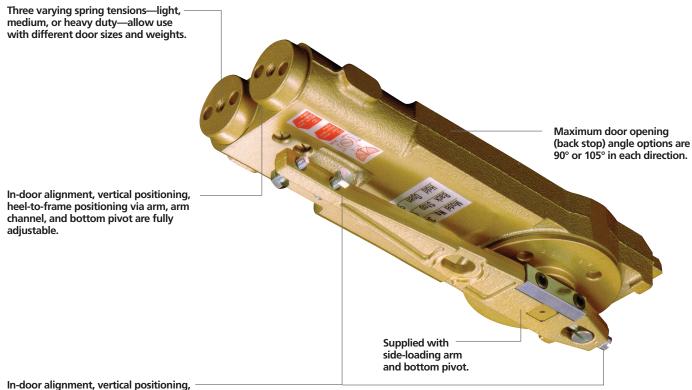
| CO-30 Series Concealed Closers | | | | | | | |
|---|-----------|--------------|----------|-----------|--------|--|--|
| Double Acting Overhead Concealed Closers (Side Loading) | | | | | | | |
| Application | | Door Opening | | 30 Series | Weight | | |
| Max Opening | Hold Open | Max Int. | Max Ext. | | | | |
| 105° | | 3'-0" | 2′-6″ | 30-215 | 10 lbs | | |
| 90° | | 3'-0" | 2′-6″ | 30-235 | 10 lbs | | |
| 105° | 105° | 3'-6" | 3'-0" | 30-30S | 10 lbs | | |
| 90° | | 3'-6" | 3'-0" | 30-315 | 10 lbs | | |
| 105° | 90° | 3'-6" | 3'-0" | 30-32S | 10 lbs | | |
| 105° | | | | 30-345 | 10 lbs | | |
| 105° | | | | 30-415 | 10 lbs | | |

| Spring Tension | | | | Light | Medium | Heavy |
|------------------|---------|----------|-------------|--------------|-----------|-----------|
| Max. Door Weight | | | | 154 lbs | 243 lbs | 375 lbs |
| Max. Door Width | | Internal | | 37.4 in | 41.3 in | 49.2 in |
| | | External | | 29.5 in | 35.4 in | 41.3 in |
| Installation | Hold Op | en | Max Opening | Model Number | | |
| Side Load | 105° | | 105° | 30 - 20S | 30 - 30S | 30 - 40S |
| | | | 105° | 31 - 215 | 30 - 315 | 30 - 415 |
| | 90° | | 90° | 30 - 225 | 30 - 325 | 30 - 42S |
| | | | 90° | 30 - 23S | 30 - 33\$ | 30 - 43\$ |
| | 105° | | 105° | 30 - 245 | 30 - 345 | 30 - 445 |

Each master carton consists of six complete door closers packed in individual carton. Opening the door wider than its 105° (90°) capacity will seriously damage the closer body.

30 Series Adjustments

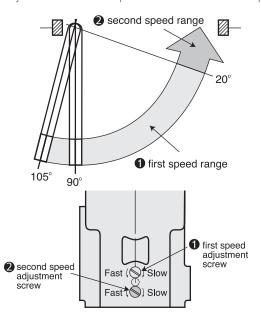
Compact body size fits in 4" x 1 3/4" openings.



In-door alignment, vertical positioning, heel-to-frame positioning via arm, arm channel, and bottom pivot are fully adjustable.

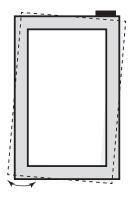
30 SERIES SPEED ADJUSTMENT

Turn adjustment screw 1 for desired first speed then turn adjustment screw 2 to produce a suitable second speed.



30 SERIES PARALLEL POSITION ADJUSTING DOOR

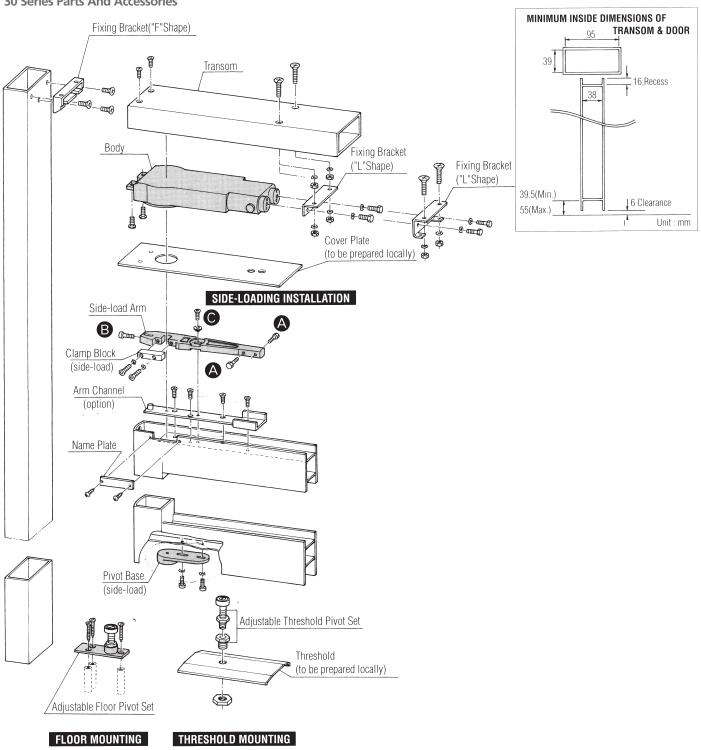
Clearance adjustable by screw B after loosening screw C.



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30 Series Adjustments

30 Series Parts And Accessories



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