Hager door closers offer architects, contractors, and building owners a superior product with proven reliability. In fact, our 5100, 5200, and 5300 Series Grade 1 models are the only closers in the industry that are both BHMA certified and backed by a lifetime warranty. That makes them a no-risk choice for virtually any building type.

With Hager, you get a door closer that’s packaged with everything needed for quick installation, regardless of the application. Hager door closers are tri-packed for mounting three ways: parallel arm, regular arm, and top jamb. They are non-handed, packaged with a parallel arm bracket and thru-bolts at no extra charge, and adjustable for various door sizes.
Hager 5100 Series Grade 1 door closer is constructed of cast iron, which makes it ideal for heavy duty, high use and abusive environments. Hager door closers are the only closers in the industry that are both BHMA certified and backed by a lifetime warranty.

Tempered springs made of double heat treated steel for durability

Standard tri-pack of parallel, regular, and top jamb arm offered for versatility

Adjustment values are staked to prevent accidental removal
Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high-use environments.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position on the door

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager door closers are supplied standard with a tri-pack for mounting any of the three types of applications. The package includes regular, parallel, and top jamb arm mounts.

**DOOR CLOSER SIZING CHART**

**Exterior (and Vestibule) Door Width**

<table>
<thead>
<tr>
<th>Minimum Door Width (24”)</th>
<th>24” (610 mm)</th>
<th>30” (762 mm)</th>
<th>36” (914 mm)</th>
<th>42” (1067 mm)</th>
<th>48” (1219 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Arm &amp; Top Jamb</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
<td>Size 6</td>
<td></td>
</tr>
<tr>
<td>Parallel Arm</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
<td></td>
<td></td>
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</tbody>
</table>

**Interior Door Width**

<table>
<thead>
<tr>
<th>Minimum Door Width (24”)</th>
<th>24” (610 mm)</th>
<th>30” (762 mm)</th>
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</thead>
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<td>Size 1</td>
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<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
<td>Size 6</td>
<td></td>
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<td>Parallel Arm</td>
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<td>Size 2</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
<td></td>
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</tbody>
</table>
DOOR HANDING
Hager Companies’ surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING
The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer’s closers are tested to the same standards. The door closer sizing chart on page 4 shows the closer size required to fit your door size and application.

MEETING ADA REQUIREMENTS
Doors and doorways that are non-labeled and part of an accessible route shall comply with Section 404 of the ANSI 117.1 standard.

Door closers shall be adjusted so that from the open position of 90°, the time required to move the door to an open position of 12° shall be 5 seconds minimum.

The maximum force for pushing open or pulling open an interior hinged door (other than a fire door) is five pounds.

FIRE DOORS
Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT
All Hager Companies’ door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.

SWEEP AND LATCHING SPEEDS
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 2° to 10° of the closed position. The latching speed valve controls the speed of the door from approximately 2° to 10° to full closing.

BACKCHECK
Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

DELAYED ACTION
The delayed action feature is available for all 5100 Series applications. The closing time between 90° and 70° shall be a minimum of 20 seconds, but is adjustable to be even slower.

ADJUSTABLE SPRING FEATURE
The 5100 Series closer offers an adjustable spring feature for sizing. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

USE OF DOOR STOPS
It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a closer with backcheck is used.

HOW TO SELECT THE PROPER CLOSER
1. Size and Weight of Door
   5100 Series closers are non-sized so that closing force can be adjusted in the field to accommodate various door sizes, weights, and applications.
2. Interior Application
   Where possible, the standard regular arm application should be used as it is the most efficient in terms of power and control.
3. Exterior Application
   Exterior doors require greater closing forces because of draft and wind conditions. Therefore, where possible, use an extra heavy duty arm for these applications.
4. Degree of Opening
   The closer should permit the door to open far enough to allow for easy traffic flow. The selection of the proper arm and position on the door are very important.
5. Function
   Closers can be equipped with special arms that can serve many functions such as hold open, positive stop, or hold open stop when necessary.
6. Abusive Environment
   Closers can be equipped with extra heavy duty arms that can withstand vandalism and extreme use.
DOOR CONTROLS

HOW TO ORDER

5100 PAR 1-6 ALM HD FC RH SX1G DLY

Mount
PAR - Parallel Arm Mount
MLT - Multi-Mount

Product Group
5100 - Cast Iron, Grade 1

Finish
ALM - Sprayed Aluminum
BRZ - Sprayed Bronze
DBZ - Sprayed Dark Bronze
GOL - Sprayed Gold
US3 - Bright Brass
US26 - Bright Chrome
US26D - Satin Chrome

Size
1-6 Adjustable

Covers
FC - Full Cover
MC - Metal Cover

Arm Options
HD - Extra Heavy Duty Arm
HO - Hold Open Arm
HDHO - Extra Heavy Duty Hold Open Arm
LA - Long Arm
HDHOS - Extra Heavy Duty Hold Open Stop Arm
HDHOSC - Extra Heavy Duty Hold Open Cushion Stop Arm
HDS - Extra Heavy Duty Stop Arm
HDCS - Extra Heavy Duty Cushion Stop Arm

Fastener Options
SX1G - Sex Bolts for 1-3/8” Door
SX1N - Sex Bolts for 1-3/4” Door
SX2 - Sex Bolts for 2” Door
SX2D - Sex Bolts for 2-1/4” Door

Handing
RH - Right Hand
LH - Left Hand
(specify when ordering 5108)

Miscellaneous
DLY - Delayed Action

Example of how to order: 5100P14ALMHDHOCS
5100 SERIES APPLICATIONS

Regular Arm Mount (Pull Side)
Opening: Templating allows up to 120°
Hold Open: Hold Open points from 90° up to 120° with Hold Open arm
Frame Face: 1-1/4" (32 mm) minimum
Ceiling Clearance: 1-1/4" (32 mm) minimum
Top Rail: • Less than 3-3/4" (95 mm) requires drop plate, 5109
          • Drop plate requires 2" (51 mm) minimum
Top Rail Clearance: 4" (102 mm) from the top of door

Top Jamb Mount (Push Side)
Opening: Templating allows up to 120°
Hold Open: Hold Open points 85° up to 120° with Hold Open arm
Frame Face: Less than 3-1/2" (89 mm) requires drop plate, 5115
Ceiling Clearance: Drop plate requires 4" (102 mm) minimum
Top Rail: Requires 1-3/8" (35 mm) minimum
Top Rail Clearance: 1-1/2" (38 mm) from the top of the door

Parallel Arm Mount (Push Side)
Opening: Templating allows up to 180°
Hold Open: Hold Open points from 90° up to 180° with Hold Open arm
Top Rail: • Standard hollow metal 5/8” frame stop
          • Less than 5-1/2” (140 mm) from the stop requires drop plate, 5110
          • Drop plate requires 2” (51 mm) minimum from the stop
Top Rail Clearance: 6-1/4” (159 mm) from the top of door
DOOR CONTROLS

5100 Series
Grade 1
Heavy Duty Surface Door Closer
Ideal for schools, hospitals, and other high-use environments

- Lifetime warranty
- Standard package contains 5101 closer body, 5102 closer cover, 5103 main arm assembly, 5104 standard screw pack, 5909 parallel arm bracket, and 5940 SNB screw pack for 1-3/4” (44 mm) doors

Certifications:
- BHMA Certified ANSI A156.4, adjustable sizes 1-6
- ADA Compliant ANSI A117.1 Accessibility Code
- UL/cUL Listed for up to 3 hours
- UL10C Positive Pressure Rated
- UL10B Neutral Pressure Rated

Materials: Cast iron
Cover:
- Full plastic cover - Standard
- Plated metal cover - Optional
Springs:
- One piece seamless steel spring tube
- Double heat treated steel, tempered springs
Valves:
- Adjustable latching and sweep speed valves
- Adjustable backcheck valve - Standard
- Delayed action valve - Optional
- Staked valves - Standard
Handing:
- Non-handed
Arms & Brackets:
- Tri-Pack: Regular, Parallel Arm, Top Jamb Mount - Standard
Door Thickness:
- 1-3/4” (44 mm) - Standard
- 1-3/8” - 2-1/4” (36 mm - 57 mm) thick door - Optional
Fasteners:
- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts
Finishes:
- ALM, BRZ, DBZ, GOL, US3, US26, US26D
- Rust inhibiting primer - Standard
Notes:
- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle
5100 SERIES ARMS

5103
Main Arm
- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount

5106
Extra Heavy Duty Arm
- Non-handed parallel arm
- Forged steel

5107
Hold Open Arm
- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction Hold Open
- For use with 5909 bracket for parallel arm mount

5108
Extra Heavy Duty Hold Open Arm
- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides Hold Open function
- Adjustable at the shoe
- Friction hold open
- Not for use on fire rated doors

5125
Extra Heavy Duty Stop Arm
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe

5954
Extra Heavy Duty Hold Open Cushion Stop Arm
- Contains 5961 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe

5955
Extra Heavy Duty Cushion Stop Arm
- Contains 5125 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe

5961
Extra Heavy Duty Hold Open Stop Arm
- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe
DOOR CONTROLS

5100 SERIES ACCESSORIES

5101 Closer Body Only
- Full rack and pinion operation
- Precision machined heat treated steel piston
- Triple heat treated steel spindle

5102 Plastic Cover
- High impact non-corrosive full cover
- Cover projects 2-1/4" (57 mm) from door face
- Secured by two machine screws

5109 Drop Plate – Regular Arm Mount
- Required for hinge side mount when top rail is less than 3-3/4" (95 mm)
- Plate requires 2" (51 mm) minimum top rail

5110 Drop Plate – Parallel Arm Mount
- Required for parallel arm mount when top rail is less than 5-1/2" (140 mm), measured from the stop to the reveal
- Plate requires 2-1/2" (6 mm) minimum top rail

5111 Extra Heavy Duty Parallel Arm Support Bracket
- For use with stop arms when reveal is less than 3-1/16" (78 mm)
- Provides anchor for fifth screw

5112 Long Rod and Shoe
- Non-handed
- Cast steel
- Use for top jamb application
- Use for door reveals greater than 3” (76 mm) and up to 5” (127 mm)

5113 Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2” (13 mm) blade stop for aluminum frames

5114 Drop Plate - Low Clearance
- For use when ceiling clearance prevents normal top jamb mounting
- For use when overhead door holder prevents normal top jamb mounting

5115 Drop Plate - Top Jamb Mount
- Required for top jamb when frame face is less than 3-1/2” (89 mm)
- Plate requires 1-3/4” (44 mm) minimum frame face
- For use with plastic cover

5116 Parallel Arm Bracket
- Supplied standard
- Supplied with standard hold open closer
- Can be used to convert regular or top jamb arm to parallel arm application

5117 Extra Clearance Parallel Arm Bracket
- Allows for up to 2” (51 mm) of clearance to mount additional hardware such as overhead door stops and holders
- Provides needed clearance not achieved with standard soffit plate

5118 Spring Cushion
- Non-handed
- Mounts to soffit shoe of 5125, 5961, 5906, and 5907 arms
- For use with extra heavy duty Hold Open and stop arms for abusive applications
DOOR CONTROLS

5100 SERIES ACCESSORIES (CONTINUED)

5962
Metal Cover
• Cast zinc
• Cover projects 2-1/4” (56 mm) from door face
• Secured by two machine screws
• NEW metal cover painted

5100 SERIES SCREW PACKS

5104
Screw Pack - Standard
• Self-drilling wood screws
• Self-drilling machine screws

5940
SNB Screw Pack - Standard
• Sex nuts and bolts for 1-3/4” (44 mm) doors
• Machine screws
• For use with 5100 Series closer only

5941
SNB Screw Pack - Optional
• Sex nuts and bolts for 1-3/8” (35 mm) doors
• Machine screws
• For use with 5100 Series closer only

5942
SNB Screw Pack - Optional
• Sex nuts and bolts for 2” (51 mm) doors
• Machine screws
• For use with 5100 Series closer only

5943
SNB Screw Pack - Optional
• Sex nuts and bolts for 2-1/4” (56 mm) doors
• Machine screws
• For use with 5100 Series closer only
Hager 5200 Series Grade 1 door closer is ideal for schools, hospitals, and other high abuse and high traffic environments. It is constructed of an aluminum alloy and provides smooth door control. The 5200 Series door closer is easy to install and maintain—keeping your building safe and secure.

Tempered springs made of double heat treated steel for durability

Slim line design provides a smaller footprint

Standard tri-pack of parallel, regular, and top jamb arm offered for versatility
Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high abuse and high traffic environments.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame. Not only are surface mounted door closers easier to install, they offer advantages with regard to adjustments that may need to be made because of variations in usage or environmental conditions.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager Companies’ door closers are supplied standard with a tri-pack for mounting any of the three types of applications.

**REGULAR ARM**
The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

**PARALLEL ARM**
The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. This mounting application will, however, reduce the power-efficiency of the closer.

**TOP JAMB**
This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.

### DOOR CLOSER SIZING CHART

**Exterior (and Vestibule) Door Width**

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**Interior Door Width**

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<td>Size 3</td>
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<td></td>
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DOOR HANDING
Hager Companies’ surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING
The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer’s closers are tested on the same basis. The chart on the previous page shows the closer size required to fit your door size and application.

MEETING ADA REQUIREMENTS
Doors and doorways that are non-labeled and part of an accessible route shall comply with Section 404 of the ANSI 117.1 standard.

Door closers shall be adjusted so that from the open position of 90°, the time required to move the door to an open position of 12° shall be 5 seconds minimum.

The maximum force for pushing open or pulling open an interior hinged door (other than a fire door) is five pounds.

FIRE DOORS
Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT
All Hager Companies’ door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.

SWEEP AND LATCHING SPEEDS
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 10° to 2° of the closed position. The latching speed valve controls the speed of the door from approximately 10° to 2° to full closing.

DELAYED ACTION
The delayed action feature is available for all 5200 Series applications. The closing time between 90° and 70° shall be a minimum of 20 seconds, but is adjustable to be even slower.

ADJUSTABLE SPRING FEATURE
The 5200 Series closer offers an adjustable spring feature for sizing. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

USE OF DOOR STOPS
It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a holder arm or closer with backcheck is used.

HOW TO SELECT THE PROPER CLOSER
1. Size and Weight of Door
   5200 Series closers are non-sized so that closing force can be adjusted in the field to accommodate various door sizes, weights, and applications.

2. Interior Application
   Where possible, the standard regular arm application should be used as it is the most efficient in terms of power and control.

2. Exterior Application
   Exterior doors require greater closing forces because of draft and wind conditions. Therefore, where possible, use an extra heavy duty arm for these applications.

4. Degree of Opening
   The closer should permit the door to open far enough to allow for easy traffic flow. The selection of the proper arm and position on the door are very important.

5. Function
   Closers can be equipped with special arms that can serve many functions such as hold open, positive stop, or hold open stop when necessary.

6. Abusive Environment
   Closers can be equipped with extra heavy duty arms that can withstand vandalism and extreme use.
### HOW TO ORDER

<table>
<thead>
<tr>
<th>5200</th>
<th>PAR</th>
<th>1-6</th>
<th>BRZ</th>
<th>HD</th>
<th>SLC</th>
<th>LH</th>
<th>SX2</th>
<th>DLY</th>
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<tbody>
<tr>
<td><strong>Mount</strong></td>
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<td>HD - Extra Heavy Duty Arm</td>
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<td>HO - Hold Open Arm</td>
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<tr>
<td>HDHO - Extra Heavy Duty Hold Open Arm</td>
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<tr>
<td>LA - Long Arm</td>
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<tr>
<td>HDHOS - Extra Heavy Duty Hold Open Stop Arm</td>
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<td>HDHOCS - Extra Heavy Duty Hold Open Cushion Stop Arm</td>
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<td>HDS - Extra Heavy Duty Stop Arm</td>
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<td>HDCS - Extra Heavy Duty Cushion Stop Arm</td>
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<td>SLC - Slim Line Cover</td>
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<td>FC - Full Cover</td>
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<td>MC - Metal Cover</td>
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<td>PC - Pinion Cap</td>
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<td>RH - Right Hand</td>
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<td><strong>Fastener Options</strong></td>
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<td>SX1G - Sex Bolts for 1-3/8” Door</td>
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<td>SX1N - Sex Bolts for 1-3/4” Door</td>
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<td>SX2 - Sex Bolts for 2” Door</td>
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<td>SX2D - Sex Bolts for 2-1/4” Door</td>
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<td><strong>Miscellaneous</strong></td>
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<td>DLY - Delayed Action</td>
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5200 SERIES APPLICATIONS

Regular Arm Mount (Pull Side)
Opening: Templating allows up to 180°
Hold Open: Hold Open points 90° up to 180° with Hold Open arm
Frame Face: 1-3/8” (35 mm)
Ceiling Clearance: • 1-3/4” (45 mm) minimum
• 1-5/8” (41 mm) minimum for Hold Open arm
Top Rail: • 2-1/2” (64 mm) minimum without drop plate
• 1-5/8” (38 mm) minimum with drop plate, 5918
Top Rail Clearance: 3-1/2” (89 mm) minimum

Top Jamb Mount (Push Side)
Opening: Templating allows up to 180°
Hold Open: Hold Open points 90° up to 180° with Hold Open
Frame Face: • 1-7/8” (48 mm) minimum
• 1-1/8” (29 mm) minimum with drop plate, 5918
Ceiling Clearance: • 2-3/4” (70 mm) minimum
• 1-5/8” (41 mm) minimum with drop plate, 5918
Top Rail: 2” (51 mm) minimum
Top Rail Clearance: • 2-1/4” (57 mm) minimum
• 2-1/2” (64 mm) minimum for hold-open
• 3-3/8” (86 mm) minimum with drop plate, 5918
• 3-5/8” (92 mm) minimum for Hold Open with drop plate

Parallel Arm Mount (Push Side)
Opening: Templating allows up to 180°
Hold Open: Hold Open points 90° up to 180° with Hold Open
Top Rail: • Standard hollow metal 5/8” frame stop
• 5-3/8” (137 mm) minimum
Top Rail Clearance: 6-1/4” (159 mm) minimum
5200 Series
Grade 1
Heavy Duty Surface Door Closer
Ideal for schools, hospitals, and other high-use environments

- Lifetime warranty
- Standard package contains 5201 closer body, 5202 closer cover, 5203 main arm assembly, 5204 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4" (44 mm) door and 5919 pinion cap

Certifications:
- BHMA Certified ANSI A156.4, adjustable sizes 1-6
- ADA Compliant ANSI A117.1 Accessibility Code
- UL/cUL Listed for up to 3 hours
- UL10C Positive Pressure Rated
- UL10B Neutral Pressure Rated

Materials:
- Aluminum alloy

Cover:
- Full plastic cover - Standard
- Full size plated metal cover - Optional
- Slim line plastic cover - Optional

Springs:
- Double heat treated steel, tempered springs

Valves:
- Adjustable latching and sweep speed valves
- Adjustable backcheck valve - Standard
- Delayed action valve - Optional
- Staked valves - Standard

Handing:
- Non-handed

Arms & Brackets:
- Tri-Pack: Regular, Parallel Arm, and Top Jamb Mount - Standard
- 15% power adjustment in standard arm for regular and top jamb mount

Door Thickness:
- 1-3/4" (44 mm)
- 1-3/8" - 2-1/4" (36 mm - 57 mm) - Optional

Fasteners:
- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts

Finishes:
- ALM, BRZ, DBZ, GOL, US3, US26, US26D
- Rust inhibiting primer - Standard

Notes:
- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle
5200 SERIES ARMS

5203 Main Arm
- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount

5207 Hold Open Arm
- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction Hold Open
- For use with 5914 bracket for parallel arm mount

5911 Extra Heavy Duty Arm
- Non-handed parallel arm
- Forged steel

5912 Extra Heavy Duty Hold Open Arm
- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides Hold Open function
- Adjustable at the shoe
- Friction Hold Open

5906 Extra Heavy Duty Hold Open Stop Arm
- Non-handed parallel arm
- Forged steel
- Hold Open function
- Auxiliary stop in soffit shoe
- Plunger Hold Open

5907 Extra Heavy Duty Stop Arm
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe

5956 Extra Heavy Duty Hold Open Cushion Stop Arm
- Contains 5906 arm and 5950 spring cushion arm
- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe

5957 Extra Heavy Duty Cushion Stop Arm
- Contains 5907 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe
DOOR CONTROLS

5200 SERIES ACCESSORIES

5201 Closer Body Only
- Full rack and pinion operation
- Precision machined, heat treated steel pistons
- Triple heat treated steel spindle

5202 Full Plastic Cover
- High impact non-corrosive full cover
- Cover projects 2-3/16” (56 mm) from door face
- Secured by 2 machine screws

5900 Parallel Arm Bracket
- Supplied standard with multimount closers
- Can be used to convert regular or top jamb arms to parallel arm application

5908 Long Rod and Shoe
- Non-handed
- Cast steel
- Use for top jamb application
- Use for reveals greater than 4” (102 mm) and up to 8” (203 mm)

5913 Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2” (13 mm) blade stop for aluminum frames

5914 Hold Open Parallel Arm Bracket
- Supplied with all standard hold open closers
- Can be used to convert regular arm or top jamb arm hold open arms to parallel arm

5918 Drop Plate – Top Jamb, Narrow Top Rail
- For use with slim line cover
- For use when a narrow top rail prevents mounting directly to door surface
- For use when low ceiling clearance prevents normal top jamb mounting

5919 Pinion Cap
- High-impact, non-corrosive
- Fits over the pinion and extends 9/16” (14 mm)
- For use with slim line cover

5920 Slim Line Plastic Cover
- High-impact non-corrosive
- Cover projects 2-3/16” (56 mm) from the door face
- Secured by 2 machine screws
- Available in plastic only

5921 Drop Plate – Narrow Top Rail
- For use with a full cover
- For use when a narrow top rail prevents mounting directly to door surface

5922 Drop Plate - Top Jamb, Parallel Arm
- For use with parallel arm mount and no cover or slim line cover
- For use when low ceiling clearance prevents normal top jamb mounting; with full cover
- For use when an overhead door holder prevents normal top jamb mounting
5200 SERIES ACCESSORIES (CONTINUED)

5923
Drop Plate - Parallel Arm
- For use with a full cover
- For use with a parallel arm when narrow top rail prevents mounting directly to the door surface

5932
Metal Cover
- Cast zinc
- Cover projects 2-1/4" (57 mm) from door face
- Secured by two machine screws
- Not offered as slim line

5936
Extra Clearance Parallel Arm Bracket
- Allows for up to 2" (51 mm) of clearance to mount additional hardware such as overhead door stops and holders
- Provides needed clearance not achieved with a standard soffit plate

5950
Spring Cushion
- Non-handed
- Mounts to soffit shoe of 5125, 5961, 5906, 5907
- For use with extra heavy duty hold open and stop arms for abusive applications

5200 SERIES SCREW PACKS

5204
Screw Pack - Standard
- Self-drilling wood screws
- Self-drilling machine screws

5902
SNB Screw Pack - Standard
- Sex nuts and bolts for 1-3/4" (44 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5903
SNB Screw Pack - Optional
- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5904
SNB Screw Pack - Optional
- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5905
SNB Screw Pack - Optional
- Sex nuts and bolts for 2-1/4" (56 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only
Hager 5300 Series Grade 1 door closer is ideal for schools, hospitals, and other high abuse and high traffic environments. It is constructed of an aluminum alloy and provides smooth door control. The 5300 Series door closer is easy to install and maintain--keeping your building safe and secure.

The closer covers (furnished standard) add the finishing touch to the concealment of the closer.

Standard tri-pack of parallel, regular, and top jamb arm offered for versatility.

Adjustment values are staked to prevent accidental removal.
Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high-use environments.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame. Not only are surface mounted door closers easier to install, they offer advantages with regard to adjustments that may need to be made because of variations in usage or environmental conditions.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager Companies’ door closers are supplied standard with a tri-pack for mounting any of the three types of applications.

**REGULAR ARM**
The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

**PARALLEL ARM**
The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. This mounting application will, however, reduce the power-efficiency of the closer.

**TOP JAMB**
This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.

**DOOR CLOSER SIZING CHART**

**Exterior (and Vestibule) Door Width**

<table>
<thead>
<tr>
<th>Minimum Door Width (24”)</th>
<th>24” (610 mm)</th>
<th>30” (762 mm)</th>
<th>36” (914 mm)</th>
<th>42” (1067 mm)</th>
<th>48” (1219 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Arm &amp; Top Jamb</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
<td>Size 6</td>
<td></td>
</tr>
<tr>
<td>Parallel Arm</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
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</tbody>
</table>

**Interior Door Width**

<table>
<thead>
<tr>
<th>Minimum Door Width (24”)</th>
<th>24” (610 mm)</th>
<th>30” (762 mm)</th>
<th>34” (865 mm)</th>
<th>38” (965 mm)</th>
<th>48” (1219 mm)</th>
<th>54” (1372 mm)</th>
<th>60” (1524 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Arm &amp; Top Jamb</td>
<td>Size 1</td>
<td>Size 2</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
<td>Size 6</td>
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<tr>
<td>Parallel Arm</td>
<td>Size 1</td>
<td>Size 2</td>
<td>Size 3</td>
<td>Size 4</td>
<td>Size 5</td>
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</table>
DOOR HANDBING
Hager Companies’ surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING
The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer’s closers are tested on the same basis. The chart on the previous page shows the closer size required to fit your door size and application.

MEETING ADA REQUIREMENTS
Doors and doorways that are non-labeled and part of an accessible route shall comply with Section 404 of the ANSI 117.1 standard.

Door closers shall be adjusted so that from the open position of 90°, the time required to move the door to an open position of 12° shall be 5 seconds minimum.

The maximum force for pushing open or pulling open an interior hinged door (other than a fire door) is five pounds.

FIRE DOORS
Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT
All Hager Companies’ door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.

SWEEP AND LATCHING SPEEDS
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 10° to 2° of the closed position. The latching speed valve controls the speed of the door from approximately 10° to 2° to full closing.

BACKCHECK
Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

DELAYED ACTION
The delayed action feature is available for all 5300 Series applications. The closing time between 90° and 70° shall be a minimum of 20 seconds, but is adjustable to be even slower.

ADJUSTABLE SPRING FEATURE
The 5300 Series closer offers an adjustable spring feature for sizing. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

USE OF DOOR STOPS
It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a holder arm or closer with backcheck is used.

HOW TO SELECT THE PROPER CLOSER
1. Size and Weight of Door
   5300 Series closers are non-sized so that closing force can be adjusted in the field to accommodate various door sizes, weights, and applications.

2. Interior Application
   Where possible, the standard regular arm application should be used as it is the most efficient in terms of power and control.

3. Exterior Application
   Exterior doors require greater closing forces because of draft and wind conditions. Therefore, where possible, use an extra heavy duty arm for these applications.

4. Degree of Opening
   The closer should permit the door to open far enough to allow for easy traffic flow. The selection of the proper arm and position on the door are very important.

5. Function
   Closers can be equipped with special arms that can serve many functions such as hold open, positive stop, or hold open stop when necessary.

6. Abusive Environment
   Closers can be equipped with extra heavy duty arms that can withstand vandalism and extreme use.
DOOR CONTROLS

HOW TO ORDER

**Product Group**
5300 - Aluminum, Grade 1

**Mount**
PAR - Parallel Arm Mount
MLT - Multi-Mount

**Size**
1-6 Adjustable

**Finish**
ALM - Sprayed Aluminum
BRZ - Sprayed Bronze
DBZ - Sprayed Dark Bronze
GOL - Sprayed Gold

**Arm Options**
HD - Extra Heavy Duty Arm
HO - Hold Open Arm
HDHO - Extra Heavy Duty Hold Open Arm
LA - Long Arm
HDHOS - Extra Heavy Duty Hold Open Stop Arm
HDHOC5 - Extra Heavy Duty Hold Open Cushion Stop Arm
HDS - Extra Heavy Duty Stop Arm
HDCS - Extra Heavy Duty Cushion Stop Arm

**Covers**
FC - Full Cover
PC - Pinion Cap

**Handing**
RH - Right Hand
LH - Left Hand

**Fastener Options**
SX1G - Sex Bolts for 1-3/8” Door
SX1N - Sex Bolts for 1-3/4” Door
SX2 - Sex Bolts for 2” Door
SX2D - Sex Bolts for 2-1/4” Door

**Miscellaneous**
DLY - Delayed Action

Example of how to order: 5300P14ALMHDHOCS
5300 SERIES APPLICATIONS

**Regular Arm Mount (Pull Side)**
- **Opening:** Templating allows up to 180°
- **Hold Open:** Hold Open points 90° up to 180° with Hold Open arm
- **Frame Face:** 1-3/8” (35 mm) minimum
- **Ceiling Clearance:**
  - 1-5/8” (41 mm) minimum
  - 1-5/8” (41 mm) minimum for Hold Open arm
- **Top Rail:** 2-1/2” (64 mm) minimum with drop plate, 5915
- **Top Rail Clearance:**
  - 4-1/4” (108 mm) minimum from the top of the door

**Top Jamb Mount (Push Side)**
- **Opening:** Templating allows up to 180°
- **Hold Open:** Hold Open points 90° up to 180° with Hold Open
- **Frame Face:** 1-3/4” (45 mm) minimum
- **Ceiling Clearance:**
  - 2-3/4” (70 mm) minimum
  - 1-3/4” (44 mm) minimum with drop plate, 5918
- **Top Rail:**
  - 1-7/8” (48 mm) minimum
  - 2-1/8” (54 mm) minimum with drop plate, 5917
  - 2-1/4” (57 mm) minimum for Hold Open with drop plate, 5917
  - 3-5/8” (92 mm) minimum with drop plate, 5915

**Parallel Arm Mount (Push Side)**
- **Opening:** Templating allows up to 180°
- **Hold Open:** Hold Open points 90° up to 180° with Hold Open
- **Top Rail:**
  - Standard hollow metal 5/8” frame stop
  - 4-3/4” (121 mm) minimum
  - 4” (102 mm) minimum with Hold Open
  - 3-1/8” (79 mm) minimum with plate
  - 2-1/8” (54 mm) minimum with Hold Open and plate
- **Top Rail Clearance:**
  - 5-3/4” (146 mm) minimum from the top of the door
DOOR CONTROLS

5300 Series
Grade 1
Heavy Duty Surface Door Closer
Ideal for schools, hospitals, and other high-use environments

• Lifetime warranty
• Standard package contains 5301 closer body, 5302 closer cover, 5303 main arm assembly, 5304 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4” (44 mm) door and 5901 pinion cap

Certifications:
• BHMA Certified ANSI A156.4, adjustable sizes 1-6
• ADA Compliant ANSI A117.1 Accessibility Code
• UL/cUL Listed for up to 3 hours
• UL10C Positive Pressure Rated
• UL10B Neutral Pressure Rated

Materials: Aluminum alloy
Cover: Full plastic cover and pinion cap
Springs: Double heat treated steel, tempered springs
Valves:
• Adjustable latching and sweep speed valves
• Adjustable backcheck valve - Standard
• Delayed action valve - Optional
• Staked valves - Standard

Handing: Non-handed
Arms & Brackets:
• Tri-Pack: Regular, Parallel Arm, and Top Jamb Mount - Standard
• 15% power adjustment in standard arm for regular and top jamb mount
Door Thickness:
• 1-3/4” (44 mm)
• 1-3/8” - 2-1/4” (36 mm - 57 mm) Optional

Fasteners:
• Self-reaming, self-tapping wood and machine screws
• Sex nuts and bolts

Finishes:
• ALM, BRZ, DBZ, GOL
• Rust inhibiting primer - Standard

Notes:
• Full rack and pinion operation
• Precision machined, heat treated steel piston
• Triple heat treated steel spindle
5300 SERIES ARMS

5303 Main Arm
• Non-handed
• Forged steel
• Mounts regular, top jamb, or parallel arm mount
• For use with 5900 bracket for parallel arm mount

5307 Hold Open Arm
• Non-handed
• Forged steel
• Mounts pull side or top jamb with shallow reveal
• Friction Hold Open
• For use with 5914 bracket for parallel arm mount

5912 Extra Heavy Duty Hold Open Arm
• Handed parallel arm (specify handing when ordering)
• Forged steel
• Provides Hold Open function
• Adjustable at the shoe
• Friction Hold Open

5906 Extra Heavy Duty Hold Open Stop Arm
• Non-handed parallel arm
• Forged steel
• Hold Open function
• Auxiliary stop in soffit shoe
• Plunger Hold Open

5907 Extra Heavy Duty Stop Arm
• Non-handed parallel arm
• For use in abusive environments
• Auxiliary stop in soffit shoe

5911 Extra Heavy Duty Arm
• Non-handed parallel arm
• Forged steel
• For use in abusive environments

5956 Extra Heavy Duty Hold Open Cushion Stop Arm
• Contains 5906 arm and 5950 spring cushion arm
• Non-handed parallel arm
• Forged steel
• Plunger Hold Open
• Hold Open function
• Auxiliary stop in soffit shoe

5957 Extra Heavy Duty Cushion Stop Arm
• Contains 5907 arm and 5950 spring cushion
• Non-handed parallel arm
• Forged steel
• Auxiliary stop in soffit shoe
**DOOR CONTROLS**

**5300 SERIES ACCESSORIES**

**5301 Closer Body Only**
- Full rack and pinion operation
- Precision machined, heat treated steel pistons
- Triple heat treated steel spindle

**5302 Full Plastic Cover**
- High impact non-corrosive full cover - Standard
- Cover projects 2-3/16” (56 mm) from door face
- Secured by 2 machine screws
- Available in plastic only

**5900 Parallel Arm Bracket**
- Supplied standard with multimount closers
- Can be used to convert regular or top jamb arms to parallel arm application

**5901 Pinion Cap**
- Supplied standard
- High-impact, non-corrosive
- Fits over the pinion and extends 1” (25 mm)

**5908 Long Rod and Shoe**
- Non-handed
- Cast steel
- Use for top jamb application
- Use for reveals greater than 4” (102 mm) and up to 8” (203 mm)

**5913 Blade Stop Spacer**
- Required to lower parallel arm shoe to clear 1/2” (13 mm) blade stop for aluminum frames

**5936 Extra Clearance Parallel Arm Bracket**
- Allows for up to 2” (13 mm) of clearance to mount additional hardware such as overhead door stops and holders
- Provides needed clearance not achieved with a standard soffit plate

**5950 Spring Cushion**
- Non-handed
- Mounts to soffit shoe of 5125, 5961, 5906, 5907
- For use with extra heavy duty hold open and stop arms for abusive applications
5300 SERIES ACCESSORIES (CONTINUED)

5914  Hold Open Parallel Arm Bracket
- Supplied with all standard Hold Open closers
- Used to convert 5307 Hold Open arms to parallel arm

5915  Drop Plate – Narrow Rail Overhead Holder
- For use when an overhead door holder prevents normal top jamb mounting
- For use when a narrow rail prevents the closer from being mounted directly to the door
- For use with parallel arm and cover
- For use when low ceiling clearance prevents normal top jamb mounting
- Includes screw pack

5916  Drop Plate – Narrow Rail Parallel Arm
- For use when a narrow rail prevents the closer from being mounted directly to the door
- For use with parallel arm and full plastic cover
- Includes screw pack

5917  Drop Plate – Top Jamb, Low Clearance
- For use when ceiling clearance is between 1-3/4” (44 mm) and 2-5/8” (67 mm)
- For use when an overhead door holder prevents normal top jamb mounting
- For use with no cover

5300 SERIES SCREW PACKS

5304  Screw Pack - Standard
- Self-drilling wood screws
- Self-drilling machine screws

5902  SNB Screw Pack - Standard
- Sex nuts and bolts for 1-3/4” (44 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5903  SNB Screw Pack - Optional
- Sex nuts and bolts for 1-3/8” (35 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5904  SNB Screw Pack - Optional
- Sex nuts and bolts for 2” (51 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5905  SNB Screw Pack - Optional
- Sex nuts and bolts for 2-1/4” (56 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only
Hager 5400 Series Grade 2 door closer is ideal for light duty, commercial applications such as store fronts, churches, and hotels. It is constructed of an aluminum alloy and has been tested for strength and abuse. The 5400 Series door closer is ideal for low frequency openings and has a five-year warranty.

Made of aluminum alloy - the proven choice for office buildings and store fronts

Standard tri-pack of parallel, regular, and top jamb arm offered for versatility

Adjustment values are staked to prevent accidental removal
Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Standard duty Grade 2 door closers are ideal for less abusive commercial applications such as office buildings and store fronts.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame. Not only are surface mounted door closers easier to install, they offer advantages with regard to adjustments that may need to be made because of variations in usage or environmental conditions.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager Companies’ door closers are supplied standard with a tri-pack for mounting any of the three types of applications.

**DOOR CLOSER SIZING CHART**

<table>
<thead>
<tr>
<th>Exterior (and Vestibule) Door Width</th>
<th>Minimum Door Width (24&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24&quot; (610 mm)</td>
</tr>
<tr>
<td>Regular Arm &amp; Top Jamb</td>
<td>Size 3</td>
</tr>
<tr>
<td>Parallel Arm</td>
<td>Size 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interior Door Width</th>
<th>Minimum Door Width (24&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24&quot; (610 mm)</td>
</tr>
<tr>
<td>Regular Arm &amp; Top Jamb</td>
<td>-</td>
</tr>
<tr>
<td>Parallel Arm</td>
<td>-</td>
</tr>
</tbody>
</table>

**REGULAR ARM**
The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

**PARALLEL ARM**
The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. This mounting application will, however, reduce the power-efficiency of the closer.

**TOP JAMB**
This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.
DOOR HANDLING
Hager Companies’ surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING
The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer’s closers are tested on the same basis. The chart on the previous page shows the closer size required to fit your door size and application.

FIRE DOORS
Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT
All Hager Companies’ door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.

SWEEP AND LATCHING SPEEDS
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 10° to 2° of the closed position. The latching speed valve controls the speed of the door from approximately 10° to 2° to full closing.

BACKCHECK: OPTIONAL FOR 5400 SERIES
Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

USE OF DOOR STOPS
It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a holder arm or closer with backcheck is used.
HOW TO ORDER

5400  PAR  02  ALM  0  0  0  SX1G  BCK

- Mount
  PAR - Parallel Arm Mount
  MLT - Multi-Mount

- Product Group
  5400 - Aluminum, Grade 2

- Finish
  ALM - Sprayed Aluminum
  BRZ - Sprayed Bronze
  DBZ - Sprayed Dark Bronze
  GOL - Sprayed Gold

- Covers
  0 - No Cover

- Size
  02 - 2 Fixed (5400)
  03 - 3 Fixed (5400)
  04 - 4 Fixed (5400)
  05 - 5 Fixed (5400)

- Handing
  0 - Non-Handed

- Arm Options
  0 - Standard Arm

- Fastener Options
  SX1G - Sex Bolts for 1-3/8” Door
  SX1N - Sex Bolts for 1-3/4” Door
  SX2 - Sex Bolts for 2” Door
  SX2D - Sex Bolts for 2-1/4” Door

- Miscellaneous
  BCK - Backcheck (5400 Option)

Example of how to order: 5400M02ALM0PC
5400 SERIES APPLICATIONS

Regular Arm Mount
Opening: Templating allows up to 180°
Frame Face: 1-1/2” (38 mm) minimum
Ceiling Clearance: 1-3/4” (44 mm) minimum
Top Rail: 2-1/4” (57 mm) minimum
Top Rail Clearance: 3-1/2” (89 mm) minimum

Parallel Arm Mount
Opening: Templating allows up to 180°
Top Rail: • 5/8” (16 mm) frame stop
• 4-3/4” (121 mm) minimum
Top Rail Clearance: 5-3/4” (146 mm) minimum

Top Jamb Mount
Opening: Templating allows up to 180°
Frame Face: 1-3/4” (45 mm) minimum
Ceiling Clearance: 2-3/4” (70 mm) minimum
Top Rail: 1-7/8” (48 mm) minimum
Top Rail Clearance: 2-1/8” (54 mm) minimum
DOOR CONTROLS

5400 Series
Grade 2
Standard Duty Surface Door Closer
Ideal for light duty commercial applications

• Five-year warranty
• Standard package contains 5401 closer body, 5901 pinion cap, 5403 main arm assembly, 5404 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4” (44 mm) door

Certifications:
• BHMA Certified ANSI A156.4, Sizes 2, 3, 4, 5 - Must specify
• UL/cUL Listed for up to 3 hours
• UL10C Positive Pressure Rated
• UL10B Neutral Pressure Rated

Materials:
Aluminum alloy
Cover:
Pinion cap
Springs:
Double heat treated steel, tempered springs
Valves:
• Adjustable latching and sweep speed valves
• Adjustable backcheck valve - Optional
• Staked valves - Standard

Handing:
Non-handed
Arms & Brackets:
• Tri-Pack: Regular, Parallel, and Top Jamb Arm Mount - Standard
• 15% power adjustment in standard arm for regular and top jamb mount

Door Thickness:
• 1-3/4” (44 mm) - Standard
• 1-3/8” - 2-1/4” (36 mm - 57 mm) - Optional

Fasteners:
• Self-reaming, self-tapping wood and machine screws
• Sex nuts and bolts

Finishes:
• ALM, BRZ, DBZ, GOL
• Rust inhibiting primer - Standard

Notes:
• Precision machined, heat treated steel piston
• Triple heat treated steel spindle
5400 SERIES ARMS

5403 Main Arm
- Non-handed
- Punched steel
- Mounts regular, parallel arm, or top jam mount
- For use with 5900 bracket for parallel arm mount

5400 SERIES ACCESSORIES

5401 Closer Body Only
- Full rack and pinion operation
- Triple heat treated steel spindle

5900 Parallel Arm Bracket
- Supplied standard with multimount closers
- Can be used to convert regular or top jamb arms to parallel arm application

5901 Pinion Cap
- Supplied standard
- High-impact, non-corrosive
- Fits over the pinion and extends 1” (25 mm)

5913 Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2” (13 mm) blade stop for aluminum frames

5400 SERIES SCREW PACKS

5404 Screw Pack - Standard
- Self-drilling wood screws
- Self-drilling machine screws

5902 SNB Screw Pack - Standard
- Sex nuts and bolts for 1-3/4” (44 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5903 SNB Screw Pack - Optional
- Sex nuts and bolts for 1-3/8” (35 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5904 SNB Screw Pack - Optional
- Sex nuts and bolts for 2” (51 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only

5905 SNB Screw Pack - Optional
- Sex nuts and bolts for 2-1/4” (56 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only
Hager electromagnetic door holders are designed for virtually any remote door release application and are ideal for holding doors open until released by a remote or switching device. They are primarily used to hold fire and smoke barrier doors open.

Dual voltage inputs for ease of installation

High holding force to keep the door secure

Very low current draw for energy efficiency
DOOR CONTROLS

ELECTROMAGNETIC DOOR HOLDERS

Performance Data

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
<th>DC/mA</th>
<th>AC/mA</th>
<th>TERMINALS</th>
<th>LB.</th>
<th>KG.</th>
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<tbody>
<tr>
<td>1224</td>
<td>12V</td>
<td>40</td>
<td>38</td>
<td>C&amp;L</td>
<td>30</td>
<td>13.6</td>
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<tr>
<td></td>
<td>24V</td>
<td>40</td>
<td>36</td>
<td>C&amp;H</td>
<td>30</td>
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<td>24V</td>
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<td>19</td>
<td>C&amp;L</td>
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<td>15</td>
<td></td>
<td>C&amp;H</td>
<td>22</td>
<td>9.8</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
<th>DC/mA</th>
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<th>TERMINALS</th>
<th>LB.</th>
<th>KG.</th>
</tr>
</thead>
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<tr>
<td>24120</td>
<td>120V</td>
<td>100</td>
<td></td>
<td>C&amp;L</td>
<td>110</td>
<td>49.8</td>
</tr>
</tbody>
</table>

*High Holding Force/Special Applications:
To obtain the performance values in the above table, apply high listed voltage to low voltage terminals (C&L).

NOTE: This configuration can only be applied to models 1224 and 24120.

EXTENSION ROD/ADJUSTABLE EXTENSION ROD

Dual Voltage (Rear View Shown)

To calculate extension rod length needed, use the formula below based on style holder being used.

Flush mount: Measure distance from door to wall when held at desired opening. Subtract 3” (76 mm) to obtain extension rod length needed.

Recessed mount: Measure distance from door to wall when held at desired opening. Subtract 2-3/8” (60 mm) to obtain extension rod length needed.

Surface mount: Measure distance from door to wall when held at desired opening. Subtract 4-5/8” (117 mm) to obtain extension rod length needed.

See example below using flush mount.
HOW TO ORDER ELECTROMAGNETIC DOOR HOLDERS

380

Product Group
380 - Electromagnetic Door Holder

F

Voltage
120024 - 12/24V
240120 - 24/120V
240220 - 24/220V

120024

LS

Finish
300 - Plated Brass
LS - Powder Chrome
L2 - Powder Dark Bronze

Mount
F - Flush
G - Floor, Single Door
H - Floor, Double Door
R - Recessed
S - Surface

HOW TO ORDER ACCESSORIES

381

Product Group
381 - Accessory

E

Size (Extension Rods)
5 = 1/2”
1 = 1”
15 = 1-1/2”
2 = 2”
3 = 3”
4 = 4”

5

LS

Finish
300 - Plated Brass
LS - Powder Chrome
L2 - Powder Dark Bronze

Specifier
A - Adjustable Extension Rod
B - Surface Back Box
C - Catch Disc
D - Drilling Fixture
E - Extension Rod
H - Mounting Hardware
S - Catch Plate Assembly
W - Extension Wrenches
DOOR CONTROLS

380 Series
Grade 1
Heavy Duty Commercial, Institutional Electromagnetic Door Holder
Ideal for hospitals, hotels, schools, and other commercial buildings

• One-year warranty
• Designed for use with self-closing fire and smoke barrier doors
• Low current draw
• Fail safe: when electrical current is interrupted, doors release to close automatically

Certifications:  
• UL/ULC listed  
• Meets ANSI 156.15 for C00011  
• California State Fire Marshall listed (CSFM)  
• City of New York MEA approved  
• Factory Mutual

Materials:  Zinc alloy
Voltages:  Standard dual voltage AC or DC inputs of 12&24V, 24&120V, 24&220V models
Holding Force:  Typical holding force of 25-40 pounds; performance value can be increased to 110 pounds on special applications
Mount:  Single or double coil floor, surface, flush, and recessed mount
Total Projection:  
• Recessed mount: 2-11/32" (60 mm)  
• Flush mount: 3-1/16" (78 mm)  
• Surface mount: 4-5/8" (117 mm)  
• Floor mount (single door): 5" (127 mm)  
• Floor mount (double door): 9-5/8" (244 mm)
Fasteners:  Hardware package, mounting bracket
Finishes:  US3, LS, L2
Notes:  
• Optional aluminum extension and misalignment rods available  
• Drill fixture available  
• Replacement catch disc and catch plate assemblies available  
• Adhesive template included
380 SERIES HOLDERS

**380F**
Flush Mount

**380G**
Floor Mount (Single Door)

**380H**
Floor Mount (Double Door)

**380R**
Recessed Mount

**380S**
Surface Mount

---

**REV. DESCRIPTION DATE**

**MATERIAL**

**FINISH**

**DRAWN**

**ENG. APPR.**

**Q.A.**

---

THREE PLACE DECIMAL: 0.004" DO NOT SCALE DRAWING

ANGULAR: MACH: 1  BEND: 1

TOLERANCES:

SCALE: 1:4

WEIGHT: 1.01

WEIGHT: 0.79

WEIGHT: 0.87

---

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THREE PLACE DECIMAL: 0.004" DO NOT SCALE DRAWING

TWO PLACE DECIMAL: 0.01"

FRACTIONAL: 0.015"

TOLERANCES:

DRAWN

ENG. APPR.

Q.A.

---

REV. DESCRIPTION DATE FOR THE LATEST 1-800-325-9995 ENGINEERING AT CALL HAGER WITHOUT NOTICE. CHANGES MAKE DESIGN THE RIGHT TO HAGER RESERVES
DOOR CONTROLS

380 SERIES ACCESSORIES

381A  
Adjustable Extension Rod  
Available extension lengths 1-1/2” (38 mm), 2” (51 mm), 4” (102 mm)

381B  
Surface Back Box  
2-25/32” x 4-7/8” x 1-1/2” (71 mm x 124 mm x 38 mm)  
Supplied with 380G, 380H, 380S

381C  
Catch Disc  
Replacement for the 381S catch plate assembly

381D  
Drilling Fixture  
Attach to the door for quick and accurate hole locations

381E  
Extension Rod  
Available extension lengths 1/2” (13 mm), 1” (25 mm), 1-1/2” (38 mm), 2” (51 mm), 3” (76 mm), 4” (102 mm)

381H  
Mounting Hardware Package  
Includes screws, nuts, concrete anchors, and drill bit

381S  
Catch Plate Assembly  
Swivel design allows catch disc to move in all directions to assist with slight misalignment issues

381W  
Extension Wrenches  
Used to tighten extension rods to catch plate assembly
Hager overhead door holders and stops are utilized to control and protect door assemblies. By providing a high quality product with an adjustable arm to simplify installation, Hager Companies continues to be a door hardware industry leader.

Adjustable arm to accommodate various door sizes and door applications

Secure connection with simple adjustment capabilities

Heavy duty, carbon steel, shock absorbing spring for smooth operation

Streamlined channel design fits wide range of doors
Hager Companies offers a variety of door hardware products to accommodate virtually all door openings. Overhead door holders and stops are designed to meet the requirements of many door applications. Hager overhead door holders and stops are compatible with a variety of door closers and are ideal for meeting the demands of high traffic areas.

Overhead door holders and stops are mounted at the top of the door, which eliminates tripping hazards and vandalism that are typical of floor or wall mounted stops. These products absorb the abusive shock with a heavy duty spring along with evenly distributing the load and impact along the track of the unit.

It is recommended to utilize overhead door stops and holders on doors furnished with door closers, as closers are not intended to stop the door and should not be expected to perform the functions of a door stop.

**ADJUSTABLE ARMS**
For inventory and installation simplification of overhead door holders and stops, Hager has developed an adjustable arm to combine door ranges into only two sizes.

**METHODS OF INSTALLATION**

**Concealed Mounted**
The installation of concealed overhead door holders and stops requires that the jamb bracket be mortised flush with the bottom of the jamb. The arm and channel must be mortised into the door so the arm is flush with the top of the door. Concealing the overhead door holders and stops in the top of the door creates a more attractive architectural look.

**Single Acting Door**
A cutout made for the arm on the stop side of the single acting door.

**Double Acting Door**
Double acting doors require a cutout for the arm on both sides of the door.

**Surface Mounted**
Surface mounted overhead door holder and stop installation requires the jamb bracket be surface mounted on the stop of the frame. The channel is also surface mounted on the face of the door. Hollow metal doors and jambs must be reinforced to provide necessary strength for the holder specified.
HOLLOW METAL FRAMES MUST BE PROPERLY REINFORCED WITH 3/16" (5 MM) THICK PLATES/CHANNELS THAT ARE AT LEAST 12" (305 MM) LONG. HOLLOW METAL DOORS MUST BE PROPERLY REINFORCED WITH 3/16" (5 MM) PLATES THAT ARE AT LEAST 2-1/2" (64 MM) WIDE OVER THE LENGTH OF THE DEVICE. TEMPLATES AND INSTALLATION INSTRUCTIONS ARE AVAILABLE ONLINE AT WWW.HAGERCO.COM.

HAGER’S DEFINITION OF “FRAME OPENING”

The “frame opening” is defined as the actual width of the frame, from soffit to soffit, not the width of the door.

<table>
<thead>
<tr>
<th>Door Sizes - Medium Duty</th>
<th>Door Sizes - Heavy Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Frame Opening</td>
</tr>
<tr>
<td>6000 SZ1</td>
<td>18&quot;-33&quot;</td>
</tr>
<tr>
<td>6000 SZ2</td>
<td>33&quot;-51&quot;</td>
</tr>
</tbody>
</table>

SELECTING DEGREE OF HOLD OPEN OR STOP

Overhead door holders and stops are designed to function effectively from 85° to 110°. The recommended minimum degree of hold open would be set at 95° to put the door lever, pull, and panic hardware beyond the flow of traffic.

When selecting the degree of hold open for doors opening against a wall or back to back, there is approximately 5° to 7° of spring engagement beyond the hold open or initial stop point, this is the dead stop.

For dead stop templating, the degree of opening should be set 5° to 7° less than the point of required dead stop to accommodate the full compression of the shock absorber.

HOW TO ORDER

60 | 15 | CON | SZ1 | US26D | SX1G

Component Type
- 15 - Friction
- 16 - Stop Only
- 17 - Hold Open

Mount
- CON - Concealed
- SRF - Surface

Size
- SZ1 - Size 1
- SZ2 - Size 2

Finish
- US3 - Bright Brass
- US10B - Satin Bronze
- US26D - Satin Chrome
- US32D - Satin Stainless

Fastener Options
- SX1G - Sexbolts for 1-3/8" (mm) door
- SX1N - Sexbolts for 1-3/4" (mm) door
- SX2 - Sexbolts for 2" (mm) door
- SX2D - Sexbolts for 2-1/4" (mm) door

REV. DESCRIPTION ECO NO. DATE

1:64 SCALE

TOLERANCES:
- FRACTIONAL: 0.015"
- ANGULAR: MACH: 1  BEND: 1
- TWO PLACE DECIMAL: 0.01"
- THREE PLACE DECIMAL: 0.004"

DO NOT SCALE DRAWING

RESERVES THE RIGHT TO MAKE DESIGN CHANGES WITHOUT NOTICE. CALL HAGER ENGINEERING AT 1-800-325-9995 FOR THE LATEST REVISION DATE OF TEMPLATE.
## FUNCTIONS

### 16 - Stop Only

<table>
<thead>
<tr>
<th></th>
<th>Heavy Duty</th>
<th>Medium Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concealed Mounted:</td>
<td>ANSI C01541</td>
<td>ANSI C01542</td>
</tr>
<tr>
<td>Surface Mounted:</td>
<td>ANSI C02541</td>
<td>ANSI C02542</td>
</tr>
</tbody>
</table>

The stop only function provides a reliable method of door control. A shock absorbing spring stops the door. It is UL Listed for fire rated components.

### UL Classification

The stop-only models are classified by Underwriters Laboratories (UL) as Miscellaneous Fire Door Accessories. This classification applies to the use on either hollow metal fire doors or wood fire doors of any rating. The accessories have been investigated to determine that when properly installed with accordance to the manufacturer’s instructions, they do not adversely affect the fire rating of the fire door or fire door frames.

### 17 - Hold Open

<table>
<thead>
<tr>
<th></th>
<th>Heavy Duty</th>
<th>Medium Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concealed Mounted:</td>
<td>ANSI C01511</td>
<td>ANSI C01512</td>
</tr>
<tr>
<td>Surface Mounted:</td>
<td>ANSI C02511</td>
<td>ANSI C02512</td>
</tr>
</tbody>
</table>

The hold open function provides a selective hold open function with easy to adjust tension. It may be turned on or off and includes the stop only function. It is not for use on fire rated openings.

### 15 - Friction

<table>
<thead>
<tr>
<th></th>
<th>Heavy Duty</th>
<th>Medium Duty</th>
</tr>
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<tbody>
<tr>
<td>Concealed Mounted:</td>
<td>ANSI C04531</td>
<td>ANSI C04532</td>
</tr>
<tr>
<td>Surface Mounted:</td>
<td>ANSI C05531</td>
<td>ANSI C05532</td>
</tr>
</tbody>
</table>

The multi-point friction hold open function mechanism is adjustable for resistance to door movement. It is not for use on fire rated openings.
6000 Series
Grade 2
Medium Duty Overhead Door Holder and Stop
For use on exterior and interior doors
Ideal for office buildings and other medium duty commercial applications

- Adjustable arm to combine door ranges into two sizes
- Five-year warranty
- Standard screw pack

Certifications:
- BHMA Certified ANSI A156.8 - 2005
- UL/cUL Listed for up to 3 hours (stop only)
- UL10C Positive Pressure Rated (stop only)
- UL10B Neutral Pressure Rated (stop only)

Mounting Style:
- Concealed (CON)
- Surface (SRF)

Doors:
- Single acting doors for concealed and surface mounted
- Double acting doors for concealed mounted only

Door Thickness:
- 1-3/4” (44 mm) thick door - Standard
- 1-3/8”- 2-1/4” (36 mm -57 mm) thick door - Optional

Functions:
- Stop Only (16)
- Hold Open (17)
- Friction (15)

Handing:
Non-handed

Openings:
Degree of opening is fully adjustable and can be adapted to changing needs between 85° to 110°

Materials:
- Steel
- Stainless steel

Finishes:
- US32D (for stainless steel)

Fasteners:
Standard screw packet included for wood or metal door and frame applications

Notes:
- Adjustable arms provide easy installation
- Slide track design
- Adjustable in the field
- Heavy shock absorber spring provides 5° to 7° compression before deadstop
- Special templating upon request

<table>
<thead>
<tr>
<th>Door Sizes</th>
<th>Frame Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>6000 SZ1</td>
<td>18”-33”</td>
</tr>
<tr>
<td>6000 SZ2</td>
<td>33”-51”</td>
</tr>
</tbody>
</table>
6000 SERIES ACCESSORIES

2-659-0101 | 2-659-0102 | 2-659-0103
Surface Mounted End Cap and Spring Replacement Kit
- Includes channel end caps and replacement spring
- 2-659-0101 is US26D, 2-659-0102 is US10B, 2-659-0103 is US3

2-659-0104
Concealed Mounted End Cap and Spring Replacement Kit
- Includes channel end caps and replacement spring

2-659-0105
Hold Open Replacement Kit
- Hold Open assembly

2-659-0106
Friction Replacement Kit
- Friction assembly

6000 SERIES SCREWPACKS

2-659-0098 | 2-659-0099 | 2-659-0100
Screwpack - Standard
- Includes machine screws, wood screws, sex nuts and bolts for 1-3/4” (44 mm) thick doors, arm set screws, and Allen wrench
- 2-659-0098 is US26D, 2-659-0099 is US10B, 2-659-0100 is US3

2-659-0101 | 2-659-0102 | 2-659-0103
Surface Mounted End Cap and Spring Replacement Kit
- Includes channel end caps and replacement spring
- 2-659-0101 is US26D, 2-659-0102 is US10B, 2-659-0103 is US3

2-659-0104
Concealed Mounted End Cap and Spring Replacement Kit
- Includes channel end caps and replacement spring

2-659-0105
Hold Open Replacement Kit
- Hold Open assembly

2-659-0106
Friction Replacement Kit
- Friction assembly

2-659-0107 | 2-659-0108 | 2-659-0109
SNB Screwpack - Optional
- Includes machine screws and sex nuts and bolts for 1-3/8” (35 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0107 is US26D, 2-659-0108 is US10B, 2-659-0109 is US3

2-659-0108 | 2-659-0111 | 2-659-0112
SNB Screwpack - Optional
- Includes machine screws and sex nuts and bolts for 2” (51 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0110 is US26D, 2-659-0111 is US10B, 2-659-0112 is US3

2-659-0111 | 2-659-0114 | 2-659-0115
SNB Screwpack - Optional
- Includes machine screws and sex nuts and bolts for 2-1/4” (57 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0113 is US26D, 2-659-0114 is US10B, 2-659-0115 is US3
7000 Series
Grade 1
Heavy Duty Overhead Door Holder and Stop
For use on exterior and interior doors
Ideal for hospitals, schools, and other high traffic environments

- Adjustable arm to combine door ranges into two sizes
- Five-year warranty
- Standard screw pack

Certifications:
- BHMA Certified ANSI A156.8 - 2005
- UL/cUL Listed for up to 3 hours (stop only)
- UL10C Positive Pressure Rated (stop only)
- UL10B Neutral Pressure Rated (stop only)

Mounting Style:
- Concealed (CON)
- Surface (SRF)

Doors:
- Single acting doors for concealed and surface mounted
- Double acting doors for concealed mounted only

Door Thickness:
- 1-3/4" (44 mm) thick door - Standard
- 1-3/8" - 2-1/4" (36 mm - 57 mm) thick door - Optional

Functions:
- Stop Only (16)
- Hold Open (17)
- Friction (15)

Handling:
- Non-handed

Openings:
- Degree of opening is fully adjustable and can be adapted to changing needs between 85° to 110°

Materials:
- Steel
- Stainless steel

Finishes:
- US32D (for stainless steel)

Fasteners:
- Standard screw packet included for wood or metal door and frame applications

Notes:
- Adjustable arms provide easy installation
- Slide track design
- Adjustable in the field
- Heavy shock absorber spring provides 5° to 7° compression before deadstop
- Special templating upon request

### Door Sizes

<table>
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<tr>
<th>Size</th>
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<tbody>
<tr>
<td>7000 SZ1</td>
<td>23&quot;-39&quot;</td>
</tr>
<tr>
<td>7000 SZ2</td>
<td>39&quot;-54&quot;</td>
</tr>
</tbody>
</table>
DOOR CONTROLS

7000 SERIES ACCESSORIES

2-659-0119 | 2-659-0120 | 2-659-0121
Surface Mounted End Cap and Spring Replacement Kit
• Includes channel end caps and replacement spring
• 2-659-0119 is US26D, 2-659-0120 is US10B, 2-659-0121 is US3

2-659-0122
Concealed Mounted End Cap and Spring Replacement Kit
• Includes channel end caps and replacement spring

2-659-0123
Hold Open Replacement Kit
• Hold Open assembly

2-659-0124
Friction Replacement Kit
• Friction assembly

7000 SERIES SCREWPACKS

2-659-0116 | 2-659-0117 | 2-659-0118
Screwpack - Standard
• Includes machine screws, wood screws, sex nuts and bolts for 1-3/4" (44 mm) thick doors, arm adjustment screws, and Allen wrench
• 2-659-0116 is US26D, 2-659-0117 is US10B, 2-659-0118 is US3

2-659-0125 | 2-659-0126 | 2-659-0127
SNB Screwpack - Optional
• Includes machine screws and sex nuts and bolts for 1-3/8" (35 mm) thick doors
• For use with surface mounted overhead door holders and stops
• 2-659-0125 is US26D, 2-659-0126 is US10B, 2-659-0127 is US3

2-659-0128 | 2-659-0129 | 2-659-0130
SNB Screwpack - Optional
• Includes machine screws and sex nuts and bolts for 2" (51 mm) thick doors
• For use with surface mounted overhead door holders and stops
• 2-659-0128 is US26D, 2-659-0129 is US10B, 2-659-0130 is US3

2-659-0131 | 2-659-0132 | 2-659-0133
SNB Screwpack - Optional
• Includes machine screws and sex nuts and bolts for 2-1/4" (57 mm) thick doors
• For use with surface mounted overhead door holders and stops
• 2-659-0131 is US26D, 2-659-0132 is US10B, 2-659-0133 is US3