Door Controls

Hager Companies offers a comprehensive line of door control products designed and manufactured to meet a wide range of applications and uses. From humble beginnings in 1849 as a forger of wheel rims and hardware for Conestoga wagons, today Hager offers surface mounted and commercial grade closers, electromagnetic holders and overhead door holders and stops in our door controls product line. Hager door closers provide architects, contractors, and building owners a superior product with proven reliability. That makes them a no-risk choice for virtually any building type. Because these heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high use environments they have been installed in these locations all over the globe.

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, self-drilling screws and thru-bolts at no extra charge, and adjustable for various door sizes.

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.

Table of Contents

General Information 2

5100 Series 5
How to Order 6
Applications 7
Grade 1 Heavy Duty Surface Door Closer 8
Arms 9
Accessories 10

5200 Series 13
How to Order 14
Applications 15
Grade 1 Heavy Duty Surface Door Closer 16
Arms 17
Accessories 18

5300 Series 21
How to Order 22
Applications 23
Grade 1 Heavy Duty Surface Door Closer 24
Arms 25
Accessories 26

5400 Series 29
How to Order 30
Applications 31
Grade 2 Standard Surface Door Closer 32
Arms 33
Accessories 33

Electromagnetic Holders 35
Performance Data 36
Grade 1 Heavy Duty Commercial 37
Accessories 39

Overhead Door Holders and Stops 41
Methods of Installation 42
How to Order 43
6000 Series Grade 2 Standard Duty 45
6000 Series Accessories 46
7000 Series Grade 1 Heavy Duty 47
7000 Series Accessories 48

GENERAL INFORMATION

Surface door closers are easy to install, with only a few holes for the body, the arm and the bracket, 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.

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 height dimension of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the push side of the door. The forearm is mounted by a parallel arm bracket to the soffit of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. The efficiency of the closer may be reduced by the mounting applications.

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 push side of the door. 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

Minimum Door Width (24”)

	24″ (610 mm)	30″ (762 mm)	36″ (914 mm)	42″ (1067 mm)	48″ (1219 mm)
Regular Arm & Top Jamb	Size 3	Size 4	Size 5	Size 6	
Parallel Arm	Size 3	Size 4	Size 5	-	

Interior Door Width

Minimum Door Width (24”)

	24″ (610 mm)	30″ (762 mm)	34″ (865 mm)	38″ (965 mm)	48″ (1219 mm)	54″ (1372 mm)	60″ (1524 mm)
Regular Arm & Top Jamb	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	
Parallel Arm	Size 1	Size 2	Size 3	Size 4	Size 5	-	

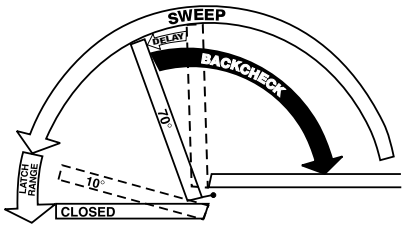
GENERAL INFORMATION

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 Requirments
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. To maximize hinge life and assist in achieving ADA compliance, Hager recommends the use of anti-friction or ball bearing hinges with our door closer products.

Fire Doors
Fire doors shall have the minimum opening force allowable by the appropriate authority having jurisdiction.



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 the 5100, 5200 and 5300 Series closers. 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, 5200 and 5300 Series closers offer an adjustable spring feature for sizes 1-6. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

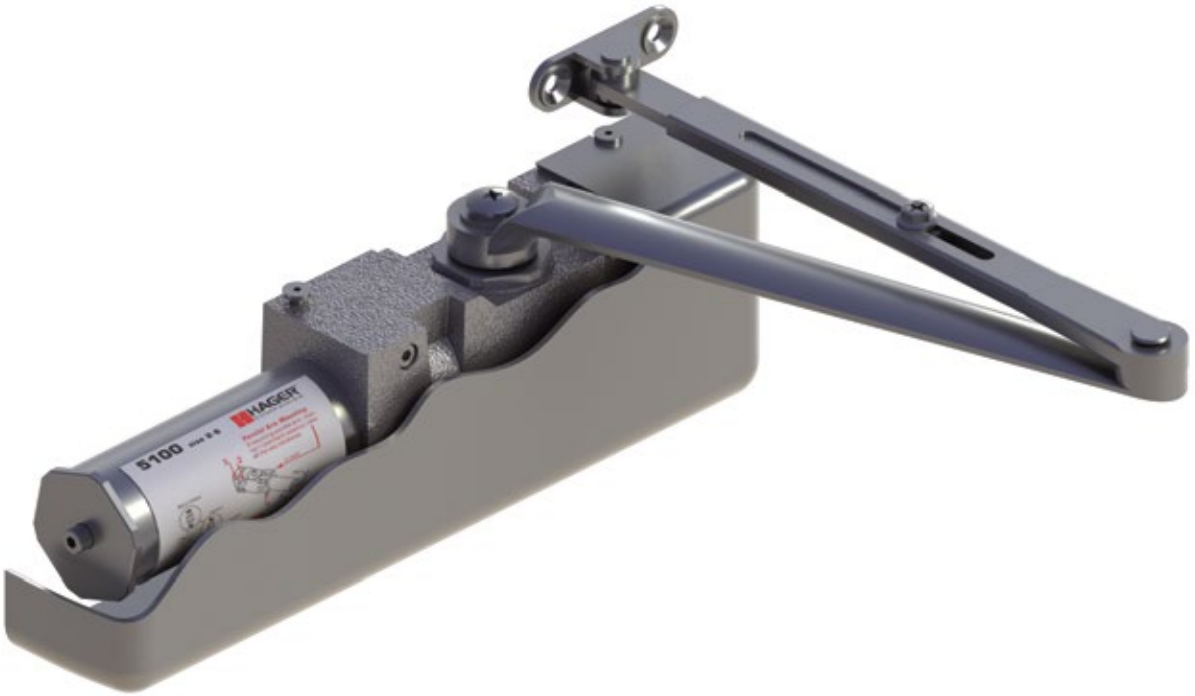
Use of Door Stops
It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a closer with backcheck is used.

How to Select the Proper Closer
1. **Size and Weight of Door:** 5100, 5200 and 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.

5100 Series

5100 Series Closers are heavy duty door closers constructed of cast iron to be installed on exterior and interior doors that are subject to high use and potential abuse. They are designed and engineered for reliability and superior performance. The commercial applications ideal for these closers include schools, medical facilities, institutions and hospitals as well as office buildings and any entrance door with high foot traffic.

5100 Series Closers have a full rack and pinion operation, with a heat treated steel piston and triple heat treated steel spindle. The closers are non-handed to permit installation on doors of either hand. The sizing is adjustable from size 1 through size 6. These design features make this closer the ideal choice for doors with a maximum weight of 330 lbs.



5100 SERIES - HOW TO ORDER

5100 **PAR** **1-6** **ALM** **HD** **FC** **RH** **SX1G** **DLY**

Product Group
5100 - Cast Iron, Grade 1

Mount
MLT - Multi-Mount
PAR - Parallel Arm Mount
TRK -Track Arm Mount

Size
1-6 Adjustable

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

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
HDHOCS -	Extra Heavy Duty Hold Open Cushion Stop Arm
HDS -	Extra Heavy Duty Stop Arm
HDCS -	Extra Heavy Duty Cushion Stop Arm
HOTA -	Hold Open/Stop Track Arm
NHOTA -	Non Hold Open Stop Track Arm
DEHOTA -	Double Egress HO Stop Track Arm
DENHOTA -	Double Egress Non-HO Stop Track Arm

Covers
FC - Full Cover
MC - Metal Cover

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

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

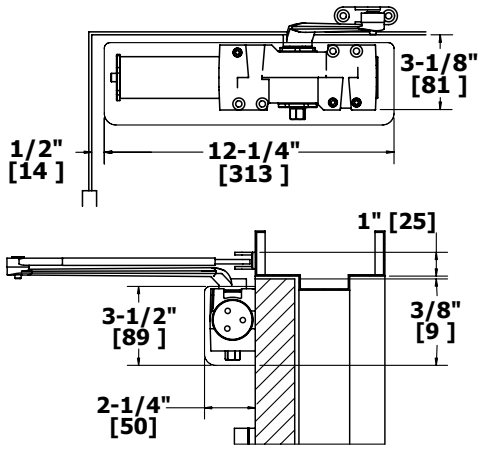
Example of how to order: 5100P14ALMHDHOCS

*Extended lead times for flat black finish and minimum order quantities may apply.

5100 SERIES - APPLICATIONS

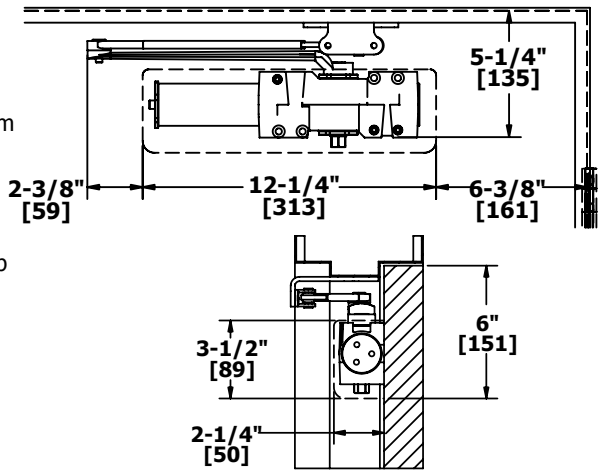
REGULAR ARM MOUNT (PULL SIDE)

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



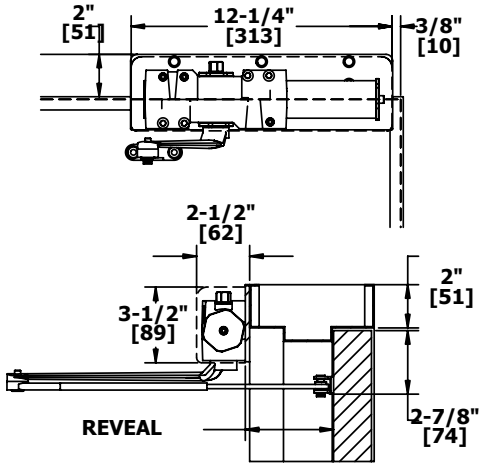
PARALLEL ARM MOUNT (PUSH SIDE)

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

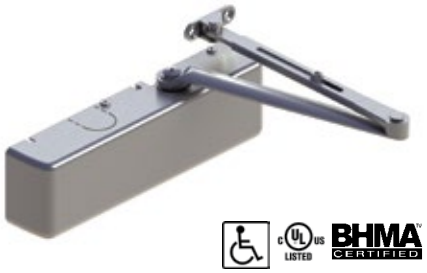


TOP JAMB MOUNT (PUSH SIDE)

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



5100 SERIES - GRADE 1 HEAVY DUTY SURFACE DOOR CLOSER



WARRANTY

Lifetime warranty - 330 lbs. maximum door weight

FEATURES

- Ideal for schools, hospitals, and other high-use environments
- 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

Certification:

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

Covers:

- Full plastic cover - Standard
- Plated metal cover - Optional

Closer Body:

- Cast iron
- The recommended temperature for prolonged use is between -40º F (-42º C) & 150º F (66º C)

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

SPECIFICATIONS

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

Notes:

- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle
- Special templates available upon request by contacting Hager Companies Customer Service

FINISHES

- ALM, BLK, BRZ, DBZ, GOL
- Rust inhibiting primer - Standard

5100 SERIES - ARMS

5103
Main Arm
- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount
- Add 5909 bracket for parallel arm 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 function
- Add 5909 bracket for parallel arm mount

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

Track Arm
- Non-handed
- Extruded aluminum track
- Steel arm

5123
Pull Side Stop Arm
- Non-handed
- Cold rolled steel
- Rubber stop

5124
Pull Side Stop Hold Open Arm
- Non-handed
- Cold rolled steel
- Rubber stop
- 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
- Non-handed parallel arm
- Forged steel
- Screw-type hold open function
- Contains 5961 arm and 5950 spring cushion
- Not for use on fire-rated doors

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

5961
Extra Heavy Duty Hold Open Stop Arm
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe
- Screw-type hold open function
- Not for use on fire-rated doors

Functions:

Non Hold Open Stop Arms
- 2-659-0145 - ALM
- 2-659-0324 - BLK
- 2-659-0144 - BRZ
- 2-659-0143 - DBZ
- 2-659-0142 - GOL

Hold Open Stop Arms
- 2-659-0137 - ALM
- 2-659-0325 - BLK
- 2-659-0136 - BRZ
- 2-659-0135 - DBZ
- 2-659-0134 - GOL

Double Egress Non Hold Open Stop Arms
- 2-659-0203 - ALM
- 2-659-0326 - BLK
- 2-659-0204 - BRZ
- 2-659-0205 - DBZ
- 2-659-0206 - GOL

Double Egress Hold Open Stop Arms
- 2-659-0207 - ALM
- 2-659-0327 - BLK
- 2-659-0208 - BRZ
- 2-659-0209 - DBZ
- 2-659-0210 - GOL

5100 SERIES - ACCESSORIES

5101
Closer Body Only
- Cast iron
- Heat treated steel spindle and piston
- Full rack and pinion operation

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

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

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" (64 mm) minimum top rail
- Includes screw pack

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
- Use for door reveals greater than 3" (76 mm) and up to 5" (127 mm)
- Cast steel
- Use for top jamb application

5113
Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop of aluminum frames
- Includes screw pack

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
- Includes screw pack

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

5909
Parallel Arm Bracket
- Can be used to convert regular or top jamb arm to parallel arm application
- Includes screw pack

5935
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
- Includes screw pack

5950
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

5962
Metal Cover
- Cover projects 2-1/4" (56 mm) from door face
- Cast zinc
- Secured by two machine screws

5100 SERIES - SCREW PACKS FOR 5100 SERIES ONLY

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

5941
SNB Screw Pack - Optional
- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws

5942
SNB Screw Pack - Optional
- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws

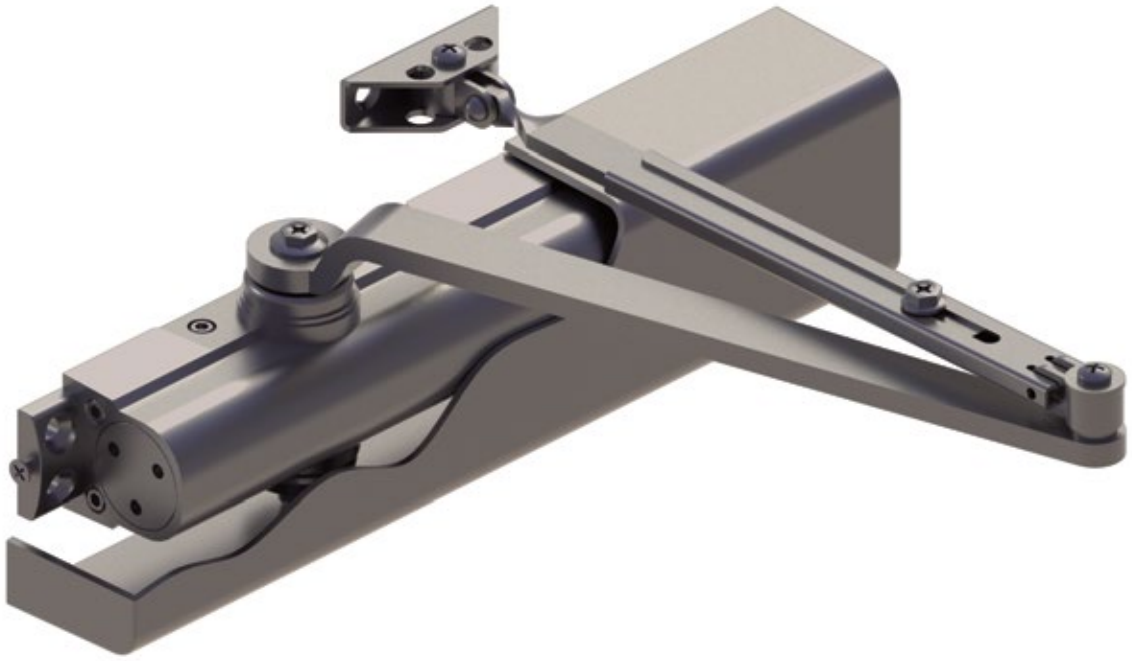
5943
SNB Screw Pack - Optional
- Sex nuts and bolts for 2-1/4" (56 mm) doors
- Machine screws

5946
Tork Security Screw Pack - Optional
- Tamper resistant torx screws with pins
- Sex nuts and bolts for 1-3/4" (44 mm) doors

5200 Series

5200 Series Closers are engineered and designed to offer the ideal combination of appearance and reliability. The 5200 Series Closers are constructed of aluminum alloy to be installed on exterior and interior doors. They are designed and engineered for reliability and superior performance. The commercial applications ideal for these closers include schools, medical facilities, institutions and hospitals as well as office buildings and any entrance door with high foot traffic.

5200 Series Closers have a full rack and pinion operation, with a heat treated steel piston and triple heat treated steel spindle. The closers are non-handed to permit installation on doors of either hand. The sizing is adjustable from size 1 through size 6. These design features make this closer the ideal choice for doors with a maximum weight of 250 lbs.



5200 SERIES - HOW TO ORDER

5200 PAR 1-6 DBZ HD SLC LH SX2 DLY

Mount
MLT - Multi-Mount
PAR - Parallel Arm Mount
TRK -Track Arm Mount

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

Covers
SLC - Slim Line Cover
FC - Full Cover
MC - Metal Cover
PC - Pinion Cap

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

Size
1-6 Adjustable

Handing Options
RH - Right Hand
LH - Left Hand
(Specify when ordering 5912)

Miscellaneous
DLY - Delayed Action

Product Group
5200 - Slim Body Aluminum, Grade 1

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
HDHOCS - Extra Heavy Duty Hold Open Cushion Stop Arm
HDS - Extra Heavy Duty Stop Arm
HDCS - Extra Heavy Duty Cushion Stop Arm
HOTA - Hold Open/Stop Track Arm
NHOTA - Non Hold Open Stop Track Arm
DEHOTA - Double Egress HO Stop Track Arm
DENHOTA - Double Egress Non-HO Stop Track Arm

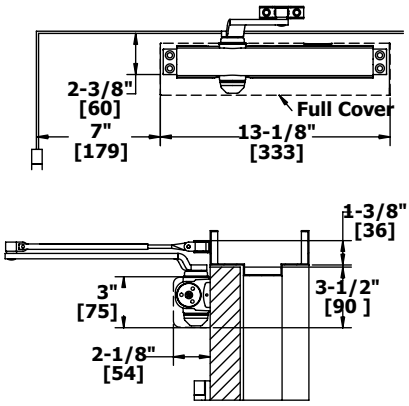
Example of how to order: 5200P25ALMHDHOCS

*Extended lead times for flat black finish and minimum order quantities may apply.

5200 SERIES - APPLICATIONS

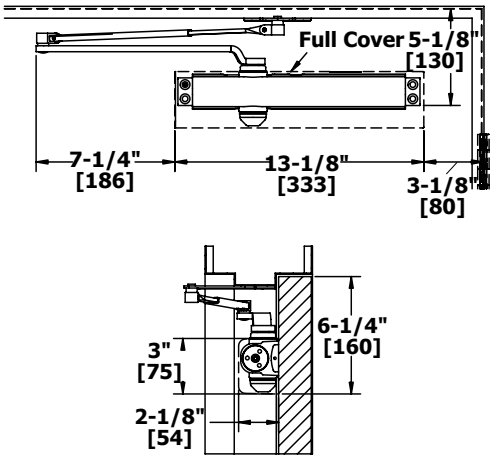
REGULAR ARM MOUNT (PULL SIDE)

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



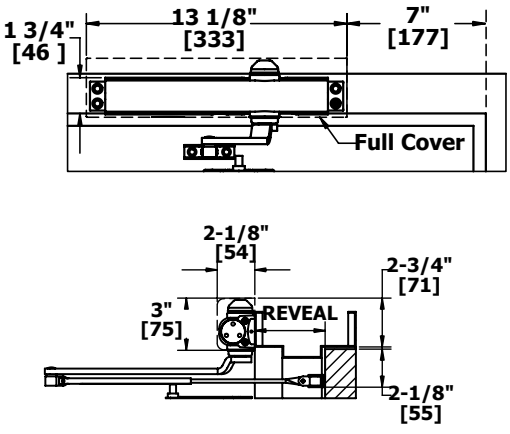
PARALLEL ARM MOUNT (PUSH SIDE)

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



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



5200 SERIES - GRADE 1 HEAVY DUTY SURFACE DOOR CLOSER

WARRANTY | Lifetime warranty - 250 lbs. maximum door weight

FEATURES

- Ideal for schools, hospitals, and other high-use environments
- 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) doors

Certification:

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

Covers:

- Full plastic cover - Standard
- Full size plated metal cover - Optional

Closer Body:

- Aluminum alloy
- The recommended temperature for prolonged use is between -40º F (-42º C) & 150º F (66º C)

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

SPECIFICATIONS

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

Notes:

- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle
- Special templates available upon request by contacting Hager Companies Customer Service

FINISHES

- ALM, BLK, BRZ, DBZ, GOL
- Rust inhibiting primer - Standard

5200 SERIES - ARMS

5203
Main Arm
- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount
- Add 5900 bracket for parallel arm mount

5910
Hold Open Arm
- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction hold open function
- Add 5914 Rev1 bracket for parallel arm mount

5906
Extra Heavy Duty Hold Open Stop Arm
- Non-handed parallel arm
- Forged steel
- Plunger hold open function
- Auxiliary stop in soffit shoe
- For use with 5200 and 5300 Series closers

5907
Extra Heavy Duty Stop Arm
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe
- For use with 5200 and 5300 Series closers

Track Arm
- Non-handed
- Extruded aluminum track
- Steel arm

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

5912
Extra Heavy Duty Hold Open
- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides friction hold open function
- Adjustable at the shoe
- For use with 5200 and 5300 Series closers
- Not for use on fire-rated doors

5926
Pull Side Stop Arm
- Non-handed
- Forged steel
- Rubber Stop

5927
Pull Side Hold Open Stop Arm
- Non-handed
- Forged steel
- Rubber Stop
- Not for use on fire-rated doors

5956
Extra Heavy Duty Hold Open Cushion Stop Arm
- Non-handed parallel arm
- Forged steel
- Plunger hold open function
- Contains 5906 arm and 5950 spring cushion arm
- For use with 5200 and 5300 Series closers

5957
Extra Heavy Duty Cushion Stop Arm
- Non-handed parallel arm
- Forged steel
- Contains 5907 arm and 5950 spring cushion
- For use with 5200 and 5300 Series closers

Functions:

Non Hold Open Stop Arms
- 2-659-0141 - ALM
- 2-659-0328 - BLK
- 2-659-0140 - BRZ
- 2-659-0139 - DBZ
- 2-659-0138 - GOL

Hold Open Stop Arms
- 2-659-0350 - ALM
- 2-659-0329 - BLK
- 2-659-0351 - BRZ
- 2-659-0352 - DBZ
- 2-659-0353 - GOL

Double Egress Non Hold Open Stop Arms
- 2-659-0211 - ALM
- 2-659-0330 - BLK
- 2-659-0212 - BRZ
- 2-659-0213 - DBZ
- 2-659-0214 - GOL

Double Egress Hold Open Stop Arms
- 2-659-0215- ALM
- 2-659-0331 - BLK
- 2-659-0216 - BRZ
- 2-659-0217 - DBZ
- 2-659-0218 - GOL

5200 SERIES - ACCESSORIES

5201
Closer Body Only
- Aluminum alloy
- Heat treated steel spindle and piston
- Full rack and pinion operation

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

5900
Parallel Arm Bracket
- Can be used to convert regular or top jamb arms to parallel arm application
- For use with 5200, 5300 and 5400 Series arms

5908
Long Rod and Shoe
- Use for reveals greater than 4" (102 mm) and up to 8" (203 mm)
- Non-handed
- Cast steel
- Use for top jamb application
- For use with 5200, 5300 and 5400 Series arms
- Includes screw pack

5913
Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop of aluminum frames
- For use with 5200, 5300 and 5400 Series arms
- Includes screw pack

5914
Hold Open Parallel Arm Bracket
- Supplied with all standard hold open arms
- For use with 5200 and 5300 Series arms
- Includes screw pack

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
- Includes screw pack

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
- Cover projects 2-3/16" (56 mm) from the door face
- High-impact non-corrosive slim line cover
- Secured by two 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
- Includes screw pack

5922
Drop Plate - Top Jamb, Parallel Arm
- For use with 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
- Includes screw pack
- Plate requires 3" (76mm) minimum top rail

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
- Includes screw pack
- Plate requires 3" (76mm) minimum top rail.

5200 SERIES - ACCESSORIES

5932
Metal Cover
- Cover projects 2-1/4" (57 mm) from door face
- Cast zinc full cover
- 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 and 5907 arms
- For use with extra heavy duty hold open and stop arms for abusive applications

SCREW PACKS

5204
Screw Pack - Standard
- Self-drilling wood screws
- Self-drilling machine screws
- For 5200 Series closer

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

5300 Series

The 5300 Series Closers offer a compact design for a variety of applications. They are constructed of aluminum alloy to withstand the use and abuse you come to expect of Hager Companies Grade 1 products. The 5300 Series closers provide the flexibility needed to meet the many demands of both commercial and institutional applications, including the ADA barrier-free accessibility requirements. The sizing is adjustable from size 1 through size 6. These design features make this closer the ideal choice for doors with a maximum weight of 250 lbs.

5300 SERIES - HOW TO ORDER

5300 TRK 1-6 DBZ LA FC RH SX1G DLY

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

Product Group
- 5300 - Aluminum, Grade 1

Size
- 1-6 Adjustable

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

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
- HDHOCS - Extra Heavy Duty Hold Open Cushion Stop Arm
- HDS - Extra Heavy Duty Stop Arm
- HDCS - Extra Heavy Duty Cushion Stop Arm
- HOTA - Hold Open/Stop Track Arm
- NHOTA - Non Hold Open Stop Track Arm

Covers
- FC - Full Cover
- PC - Pinion Cap

Handing
- RH - Right Hand
- LH - Left Hand
- **(Specifying when ordering 5912)**

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

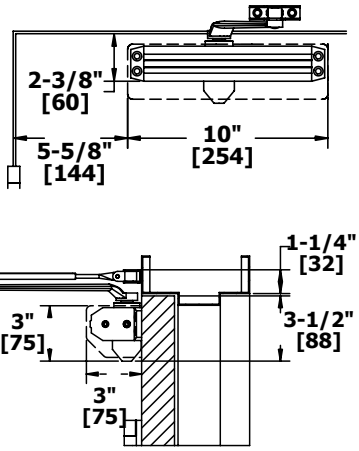
Example of how to order: 5300P14ALMHDHOCS

*Extended lead times for flat black finish and minimum order quantities may apply.

5300 SERIES - APPLICATIONS

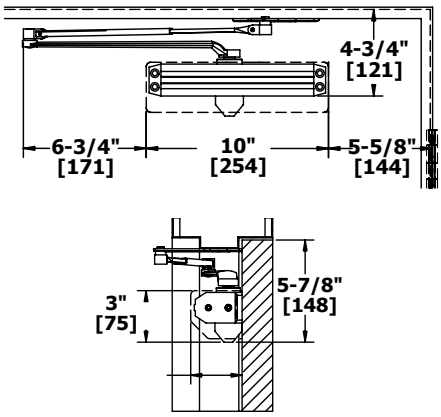
REGULAR ARM MOUNT (PULL SIDE)

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



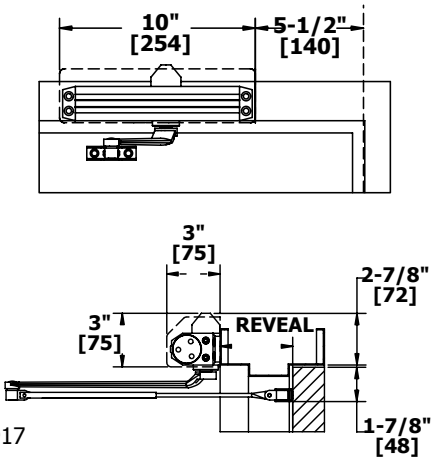
PARALLEL ARM MOUNT (PUSH SIDE)

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



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
Top Rail Clearance:	• 2-1/8" (54 mm) minimum • 2-3/4" (70 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



5300 SERIES - GRADE 1 HEAVY DUTY SURFACE DOOR CLOSER

WARRANTY

Lifetime warranty - 250 lbs. maximum door weight

FEATURES

- Ideal for schools, hospitals, and other high-use environments
- Standard package contains 5301 closer body, 5302 closer cover, 5902 pinion cap, 5303 main arm assembly, 5304 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4" (44 mm) door

Certification:

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

Covers: Full plastic cover and pinion cap - Standard

Closer Body:

- Aluminum alloy
- The recommended temperature for prolonged use is between -40º F (-42º C) & 150º F (66º C)

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

SPECIFICATIONS

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

Notes:

- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle
- Special templates available upon request by contacting Hager Companies Customer Service

FINISHES

- ALM, BLK, BRZ, DBZ, GOL
- Rust inhibiting primer - Standard

5300 SERIES - ARMS

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

5906
Extra Heavy Duty Hold Open Stop Arm
- Non-handed parallel arm
- Forged steel
- Plunger hold open function
- Auxiliary stop in soffit shoe
- For use with 5200 and 5300 Series closers
- Not for use on fire-rated doors

5907
Extra Heavy Duty Stop Arm
- Non-handed parallel arm
- For use in abusive environments
- Auxiliary stop in soffit shoe
- For use with 5200 and 5300 Series closers

5910
Hold Open Arm
- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction hold open function
- Add 5914 Rev1 bracket for parallel arm mount

Track Arm
- Non-handed
- Extruded aluminum track
- Steel arm

5911
Extra Heavy Duty Arm Assembly
- Non-handed parallel arm
- Forged steel
- For use with 5200 and 5300 Series closers

5912
Extra Heavy Duty Hold Open Arm Assembly
- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides friction hold open function
- Adjustable at the shoe
- For use with 5200 and 5300 Series closers
- Not for use on fire-rated doors

5926
Pull Side Stop Arm
- Non-handed
- Forged steel
- Rubber Stop

5927
Pull Side Hold Open Stop Arm
- Non-handed
- Forged steel
- Rubber Stop
- Not for use on fire-rated doors

5956
Extra Heavy Duty Hold Open Cushion Stop Arm
- Non-handed parallel arm
- Forged steel
- Contains 5906 arm and 5950 spring cushion arm
- Plunger hold open
- For use with 5200 and 5300 Series closers
- Not for use on fire-rated doors

5957
Extra Heavy Duty Cushion Stop Arm
- Non-handed parallel arm
- Forged steel
- Contains 5907 arm and 5950 spring cushion
- For use with 5200 and 5300 Series closers

Functions:

Non Hold Open Stop Arms
- 2-659-0141 - ALM
- 2-659-0328 - BLK
- 2-659-0140 - BRZ
- 2-659-0139 - DBZ
- 2-659-0138 - GOL

Hold Open Stop Arms
- 2-659-0350 - ALM
- 2-659-0329 - BLK
- 2-659-0351 - BRZ
- 2-659-0352 - DBZ
- 2-659-0353 - GOL

5300 SERIES - ACCESSORIES

5301
Closer Body Only
- Aluminum alloy
- Heat treated steel spindle and piston
- Full rack and pinion operation

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

5900
Parallel Arm Bracket
- Used to convert regular or top jamb arms to parallel arm application
- For use with 5300 and 5400 Series closer arms
- Includes screw pack

5901
Pinion Cap
- High-impact, non-corrosive
- Supplied standard in 5300 and 5400 Series closers
- Fits over the pinion and extends 1" (25 mm)

5908
Long Rod and Shoe
- Use for reveals greater than 4" (102 mm) and up to 8" (203 mm)
- Non-handed
- Cast steel
- Use for top jamb application
- For use with 5300 and 5400 Series closer arms

5913
Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop of aluminum frames
- For use with 5300 and 5400 Series closer arms
- Includes screw pack

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
- Includes screw pack

5950
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

5914
Hold Open Parallel Arm Bracket
- Supplied with all standard hold open arms
- For use with 5200 and 5300 Series closers only
- Includes screw pack

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 no cover
- For use when low ceiling clearance prevents normal top jamb mounting
- Includes screw pack
- Plate requires 3" (76mm) minimum top rail

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
- Plate requires 3" (76mm) minimum top rail

5917
Drop Plate - Top Jamb, Low Clearance
- For use with no cover
- 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
- Includes screw pack

SCREW PACKS

5304
Screw Pack - Standard
- Self-drilling wood screws
- Self-drilling machine screws
- For 5300 Series closer only

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

5400 Series

5400 Series Closers are ideal for light duty commercial applications. 5400 Series Closers have a heat treated steel piston and triple heat treated steel spindle. The closers are non-handed to permit installation on doors of either hand. The sizing is adjustable from size 2 through size 5. The design features make this closer the ideal choice for doors with a maximum weight of 200 lbs.

5400 SERIES - HOW TO ORDER

5400 MLT 02 ALM 0 0 0 SX1G BCK

Product Group
5400 - Aluminum, Grade 2

Mount
MLT - Multi-Mount

Size
2-5 Adjustable

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

Arm Options
0- Standard Arm

Covers
0 - No Cover
P - Plastic Cover

Handing
0 - Non-Handed

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)

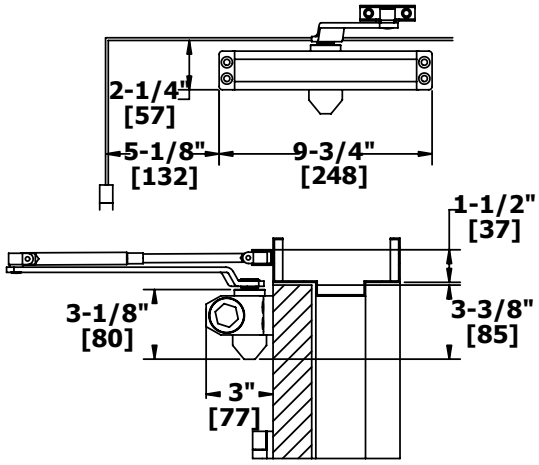
Example of how to order: 5400M25ALM0P

*Extended lead times for BRZ, GOL, and BLK finishes and minimum order quantities may apply.

5400 SERIES - APPLICATIONS

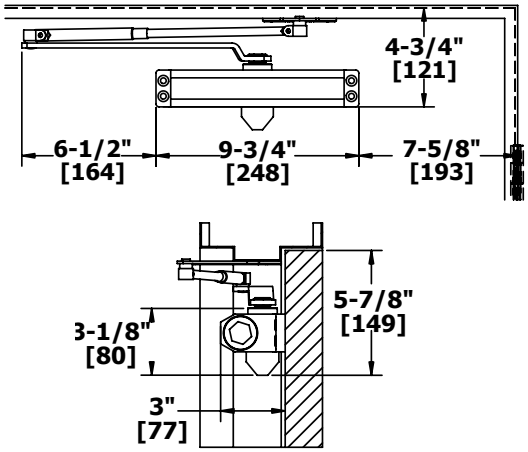
REGULAR ARM MOUNT

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



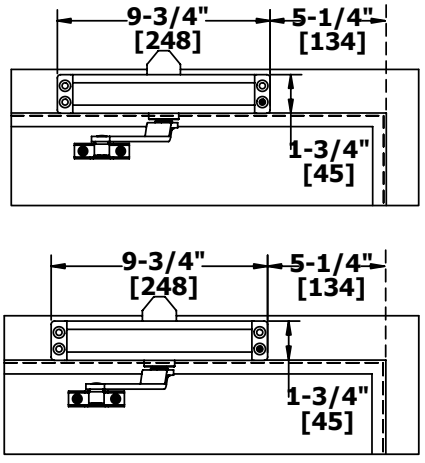
PARALLEL ARM MOUNT

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

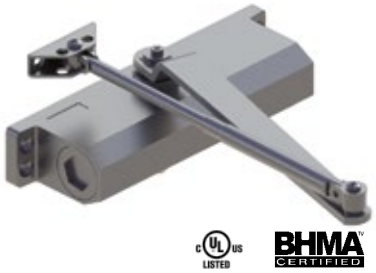
Opening:	Templating allows up to 180°
Frame Face:	1-3/4″ (45 mm) minimum
Ceiling Clearance:	2-3/4″ (70 mm) minimum
Top Rail:	1-7/8″ (48 mm) minimum
Top Rail Clearance:	2-1/8″ (54 mm) minimum



5400 SERIES - GRADE 2 STANDARD DUTY SURFACE DOOR CLOSER

WARRANTY

Five-year warranty - maximum 200 lb. door weight



FEATURES

- Ideal for light duty commercial applications
- 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

Certification:

- BHMA Certified ANSI A156.4, adjustable sizes 2-5
- UL/cUL Listed for up to 3 hours
- UL10C Positive Pressure Rated
- UL10B Neutral Pressure Rated

Covers: No Cover - Standard

Closer Body:

- Aluminum alloy
- The recommended temperature for prolonged use is between -40º F (-42º C) & 150º F (66º C)

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 Arm, and Top Jamb Mount - Standard
15% power adjustment in standard arm for regular and top jamb mount

SPECIFICATIONS

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

Notes: Precision machined, heat treated steel piston
Triple heat treated steel spindle
Special templates available upon request by contacting Hager Companies Customer Service

FINISHES

ALM, BLK*, BRZ*, DBZ*, GOL*
Rust inhibiting primer - Standard

* Extended lead times and MOQs apply.

SCREW PACKS

5403
Main Arm
- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount
- Add 5900 bracket for parallel arm mount

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

5900
Parallel Arm Bracket
- Used to convert regular or top jamb arms to parallel arm application
- Supplied standard closers
- For use with 5200, 5300 and 5400 Series closer arms
- Includes screw pack

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

5913
Blade Stop Spacer
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop of aluminum frames
- For use with 5300 and 5400 Series arms
- Includes screw pack

5404
Screw Pack - Standard
- Self-drilling wood screws
- Self-drilling machine screws
- For 5400 Series closer only

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

Electromagnetic Holders

Hager Companies offers a line of electromagnetic door holders with built-in protection and low residual magnetism so they release easily even in applications meeting ADA requirements with minimal spring force door closers. These features make the electromagnetic holders a great solution for both safety and convenience and are ideal solutions for applications in hotels, hospitals and nursing homes.

Hager electromagnetic holders are designed for virtually any remote door release application and are ideal for holding doors open until released by a fire alarm or switching device. When deactivated the electromagnetic holders help to control the spread of fire and smoke by the simultaneous release of doors from an open to a closed position. The electromagnetic holders can be utilized independently or with the smoke detector systems.

The electromagnetic holders include a door mounted armature and a floor or wall mounted electromagnet. The features of this hardware include: dual voltage capability, very low current draw for energy efficiency, silent operation and an adjustable catch plate.

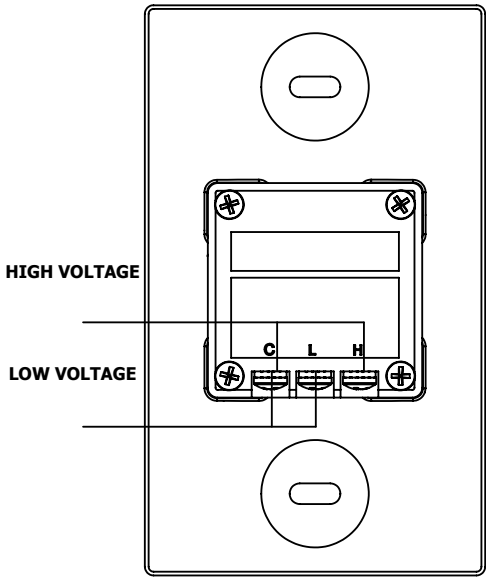
ELECTROMAGNETIC DOOR HOLDERS - PERFORMANCE DATA

OPTION	VOLTAGE	DC/mA	AC/mA	TERMINALS	LB.	KG.
1224	12V	40	38	C&L	30	13.6
	24V	40	36	C&H	30	13.6
24120	24V	20	19	C&L	40	18.1
	120V		20	C&H	35	15.8
24220	24V	20	19	C&L	20	9.0
	220V		15	C&H	22	9.8

OPTION	VOLTAGE	DC/mA	AC/mA	TERMINALS	LB.	KG.
1224	24V	85	81	C&L	75	34.0
24120	120V		100	C&L	110	49.8

*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.

DUAL VOLTAGE (REAR VIEW SHOWN)



EXTENSION ROD/ADJUSTABLE EXTENSION ROD

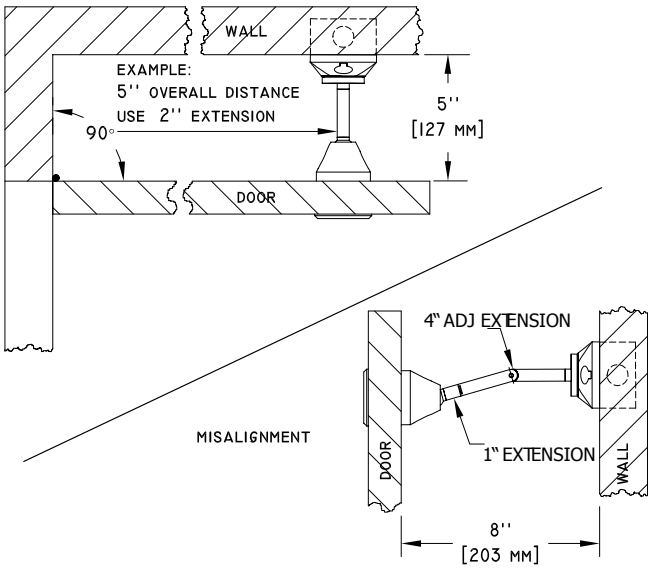
To calculate extension rod length needed, use the formula below based on style holder being used.

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.



ELECTROMAGNETIC DOOR HOLDERS - GRADE 1 HEAVY DUTY COMMERCIAL

WARRANTY | One-year warranty

FEATURES
- Ideal for hospitals, hotels, schools, and other commercial buildings
- 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

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

Body: 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

SPECIFICATIONS

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)

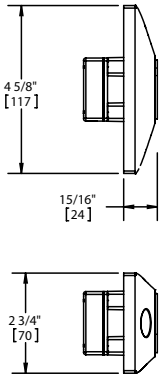
Fasteners: Hardware package, mounting bracket

Notes:
- Optional aluminum extension and misalignment rods available
- Drill fixture available
- Replacement armature disc and armature plate assemblies available
- Adhesive template included

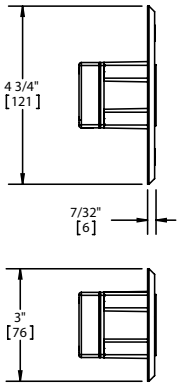
FINISHES | US3, LS, L2

ELECTROMAGNETIC DOOR HOLDERS - 380 SERIES HOLDERS

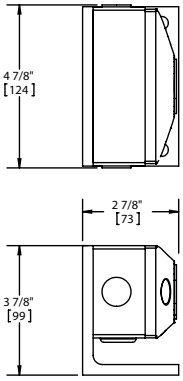
380F
Flush Mount



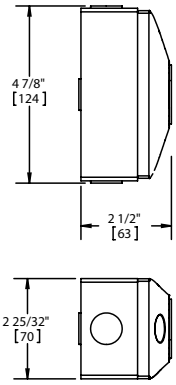
380R
Recessed Mount



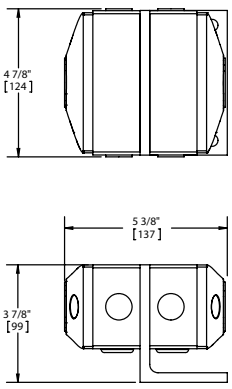
380G
Floor Mount (Single Door)



380S
Surface Mount



380H
Floor Mount (Double Door)



ELECTROMAGNETIC DOOR HOLDERS - ACCESSORIES

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

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)

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

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

381C
Armature Plate
Replacement for the 381S armature plate assembly

381S
Armature Plate Assembly
Swivel design allows armature plate to move in all directions to assist with slight misalignment issues

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

381W
Extension Wrenches
Used to tighten extension rods to catch plate assembly

Overhead Door Holders & Stops

Because Hager Companies is committed to providing our customers with a full line of door hardware, we offer both a heavy duty and standard duty option in our overhead door holders and stops product line. They are mounted at the top of the door to eliminate tripping hazards and vandalism that are typical of floor or wall mounted stops. The purpose of the overhead door holders is to absorb the abusive shock with a heavy duty spring. They evenly distribute the load and impact along the entire track of the unit. Overhead door holders and stops are compatible with a variety of door closers and are ideal for meeting the demands of high traffic areas.

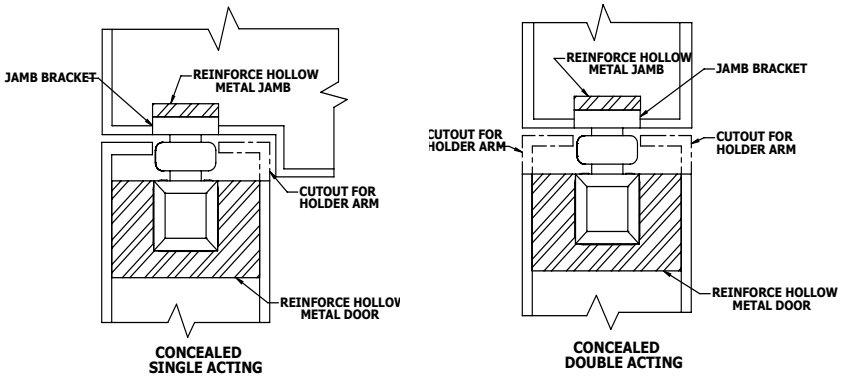
Hager Companies overhead door holders and stops have been engineered and designed to meet the requirements of many door applications. The streamlined channel design along with the adjustment arm accommodates various door sizes and applications. The adjustable arms simplify the selection by combining door width ranges into only two sizes of overhead door holders and stops. This feature makes installation simple and minimally impacts a customer's inventory.

OVERHEAD DOOR HOLDERS AND STOPS - METHODS OF INSTALLATION

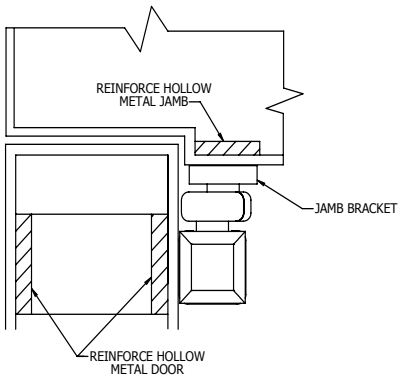
Concealed Mounted
The installation of concealed overhead door holders and stops requires that the jamb bracket be mortised flush with the bottom of the jamb. The arm and channel must be mortised into the door so the arm is flush with the top of the door. Concealing the overhead door holders and stops 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.



Door and Frame Reinforcement
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.

Selecting Degree of Hold Open or Stop
Overhead door holders and stops are designed to function effectively from 85º to 110º. 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 5º to 7º 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 5º to 7º less than the point of required dead stop to accommodate the full compression of the shock absorber.

OVERHEAD DOOR HOLDERS AND STOPS - HOW TO ORDER

Selection Steps:

1. Determine the required grade needed

Function	Description
16 - Stop Only	Shock absorbing spring stops the door
17 - Hold Open	Select hold open with easy to adjust tension - may be turned on or off, and includes the stop function
15 - Friction	Multi-point friction hold open adjustable for resistance to door movement

2. Determine the required function
3. Determine if a surface or concealed mount is required
4. Finally select one of two sizes to fit the opening

7000 Series: Grade 1- Heavy Duty Overhead Holders and Stops

Available Functions
- Stop
- Hold Open
- Friction

Mounting Types
- Concealed
- Surface

Size Options
- Size 1 - 24" to 40"
- Size 2 - 41" to 55"

6000 Series: Grade 2- Standard Duty Overhead Holders and Stops

Available Functions
- Stop
- Hold Open
- Friction

Mounting Types
- Concealed
- Surface

Size Options
- Size 1 - 18" to 33" (Concealed Mounted) 20" to 33" (Surface Mounted)
- Size 2 - 33" to 51"

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

OVERHEAD DOOR HOLDERS AND STOPS - HOW TO ORDER

60 **15** **CON** **SZ1** **US32D** **SX1G**

Product Group
60 - Standard Duty Overhead Door Holders and Stops
70 - Heavy Duty Overhead Door Holders and Stops

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
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

Functions

16 - Stop Only
Concealed Mounted: ANSI CO1541
Surface Mounted: ANSI CO2541

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
Concealed Mounted: ANSI CO1511
Surface Mounted: ANSI CO2511

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
Concealed Mounted: ANSI CO4531
Surface Mounted: ANSI CO5531

The multi-point friction hold open function mechanism is adjustable for resistance to door movement. It is not for use on fire-rated openings.

OVERHEAD DOOR HOLDERS AND STOPS - 6000 SERIES GRADE 2 STANDARD DUTY

WARRANTY

Five-year warranty

FEATURES

- Standard screw pack
- For use on exterior and interior doors
- Ideal for office buildings and other standard duty commercial applications

Certification:

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

Materials:

- Steel
- Stainless steel

Mounting Style:

- Concealed
- Surface

Doors:

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

Functions:

- Stop Only
- Hold Open
- Friction

Handing:

Non-handed

Openings:

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

SPECIFICATIONS

Door Thickness:

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

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

FINISHES

- US10B and US3 (For steel)
- US32D (For stainless steel)

SIZE SELECTION

Door Sizes	
Size	Door Width
6000 SZ1	18"- 33" (Concealed Mounted) 20"- 33" (Surface Mounted)
6000 SZ2	33"- 51"

OVERHEAD DOOR HOLDERS AND STOPS - 6000 SERIES

ACCESSORIES

2-659-0101 | 2-659-0102 | 2-659-0103

Surface Mounted End Cap and Spring Replacement Kit

- Channel end caps
- 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

- Channel end caps
- Replacement spring

2-659-0105

Hold Open Replacement Kit

- Hold open assembly

2-659-0106

Friction Replacement Kit

- Friction assembly

SCREWPACKS

2-659-0098 | 2-659-0099 | 2-659-0100

Screwpack - Standard

- Machine screws
- Wood screws
- Sex nuts and bolts for 1-3/4" (44 mm)
- Arm sets screws
- Allen wrench
- 2-659-0098 is US26D, 2-659-0099 is US10B, 2-659-0100 is US3

2-659-0107 | 2-659-0108 | 2-659-0109

SNB Screw Pack - Optional

- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws
- 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

2-659-0110 | 2-659-0111 | 2-659-0112

SNB Screw Pack - Optional

- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws
- 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

2-659-0113 | 2-659-0114 | 2-659-0115

SNB Screw Pack - Optional

- Sex nuts and bolts for 2-1/4" (57 mm) doors
- Machine screws
- 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

OVERHEAD DOOR HOLDERS AND STOPS - 7000 SERIES GRADE 1 HEAVY DUTY

WARRANTY

Five-year warranty

FEATURES

- Standard screw pack
- For use on exterior and interior doors
- Ideal for hospitals, schools, and other high traffic environments

Certification:

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

Materials:

- Steel
- Stainless steel

Mounting Style:

- Concealed
- Surface

Doors:

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

Functions:

- Stop Only
- Hold Open
- Friction

Handing:

Non-handed

Openings:

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

SPECIFICATIONS

Door Thickness:

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

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

FINISHES

- US10B and US3 (For steel)
- US32D (For stainless steel)

SIZE SELECTION

Door Sizes	
Size	Door Width
7000 SZ1	24"- 40"
7000 SZ2	41"- 55"

OVERHEAD DOOR HOLDERS AND STOPS - 7000 SERIES

ACCESSORIES

2-659-0119 | 2-659-0120 | 2-659-0121

Surface Mounted End Cap and Spring Replacement Kit

- Channel end caps
- 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

- Channel end caps
- Replacement spring

2-659-0123

Hold Open Replacement Kit

- Hold open assembly

2-659-0124

Friction Replacement Kit

- Friction assembly

SCREWPACKS

2-659-0116 | 2-659-0117 | 2-659-0118

Screwpack - Standard

- Machine screws
- Wood screws
- Sex nuts and bolts for 1-3/4" (44 mm)
- Arm set screws
- 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 Screw Pack - Optional

- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws
- 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 Screw Pack - Optional

- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws
- 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 Screw Pack - Optional

- Sex nuts and bolts for 2-1/4" (57 mm) doors
- Machine screws
- For use with surface mounted overhead door holders and stops
- 2-659-0132 is US10B, 2-659-0133 is US3