Corbin Russwin

ASSA ABLOY

# DC8000 Series

## Door Closers



ASSA ABLOY, the global leader
in door opening solutions



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# Introduction

## DC8000

### Applications

High-quality products and innovative designs are the foundation for the long history and reputation of Corbin Russwin Architectural Hardware. That tradition continues with the Grade 1 DC8000 Series door closer, the perfect choice for high-use openings and doors that must meet ADA requirements. A variety of arms, finishes and quality features make the easy-to-install DC8000 ideal for schools, office buildings, health care facilities and retail complexes. The series also meets UL10C and UBC7-2c positive pressure requirements for fire-rated openings.

### Quality

Corbin Russwin products are engineered for quality, and the DC8000 Series is no exception. With heavy-duty construction, captured valves and a double heat-treated steel pinion, the DC8000 ensures quality and long-lasting performance.

### Security

With a new heavy-duty arm and a strong, durable cast-iron closer body, the DC8000 offers added muscle for high-use and high-abuse situations. Captured valves and optional Torx® security screws offer added security, making the closer highly vandal- and tamper-resistant.

### Key Advantages

- Heavy-duty forged arm
- Captured valves
- Self-drilling screws
- Double heat-treated steel pinion
- Universal Quik-Install™ bracket
- Tri-packed assembly
- Cast-iron body
- Retrofit plates
- Powder painted arms

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# Features

## DC8000

### Versatility

The DC8000 Series door closer offers a versatile, dependable and easy-to-install product, making it an ideal choice. The tri-pack assembly of regular arm, top jamb and parallel arm allows one closer to be stocked for multiple applications. A variety of features, including heavy-duty arms, cast-iron closer body and captured valves, ensure dependability and vandal resistance. Special mounting brackets and retrofit plates allow for quick installation in both new and retrofit applications.

| Features | Benefits |
|---|---|
| Exceeds 10 Million Cycles | Ensures dependability and long life |
| Cast-iron closer body | Strong and durable |
| Heavy-duty arms | Forged 9/16" steel to withstand heavy use and abuse |
| Tri-packed assembly (regular arm, top jamb & parallel arm mounting), non-handed. Specify DC8210. | Allows one closer to be stocked for a variety of applications |
| Universal Quik-Install™ mounting bracket and door marker | Easy, foolproof installation |
| Multi-sized closers | Adjustable 1 through 6 |
| Captured values | Vandal-resistant; reduces the possibility of valve removal |
| Double heat-treated steel pinion | Hard-wearing |
| 2-1/4" projection | Less noticeable, complements the opening |
| Regular arm allows door swing to 180° (conditions permitting) | Versatile, adjustable for specific applications or conditions |
| Retrofit plates | Allows DC8000 to replace LCN 4040 and 4010 series closers without modifying the door prep |
| Cover options | Powder-coated, ABS, metal (custom colors and plated finishes available) |
| ADA compliant | Ideal for applications such as healthcare, schools, public buildings |
| ANSI/BHMA A156.4 | Grade 1 certified closer |
| UL10C and UBC 7-2c | Meets Positive Pressure Fire Test requirements |
| 10-year warranty | Ensures long-lasting value |

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# Features

## DC8000

### DC8200 - Multi-Sized

### Features

***Spring Power***
DC8200 closers: multi-sized; fully adjustable sizes 1 through 6.
Factory pre-sized upon request.

***Handing***
Non-handed.

***Body***
Cast-iron case with seamless cold headed steel spring tube.

***Arm***
Standard: heavy-duty forged steel.
Arm options pages 17-20.

***Spindle***
Cold headed heat-treated steel.

***Piston***
1-1/2" diameter; Precision machined, heat-treated steel.

***Springs***
Chrome silicon wire.

***Valves***
Latching speed valve, closing speed valve and backcheck valve are standard.

Delayed action valve optional. Delayed action preset for 20 seconds. Between 90° and 70° for all mountings. To order specify M71.

***Seals***
"O" rings.

***Fluid***
Standard: high lubricity extreme temperature hydraulic fluid.

***Degree of Opening***
Up to full 180° opening standard for regular, top jamb and parallel arm mountings, conditions permitting.

***Power Adjustment Arm Bracket***
15% adjustment standard for regular arm and top jamb (non-hold open only).

***Tri-packed***
DC8000 comes with screws, brackets and soffit plates to allow for regular, top jamb and parallel arm installations.

***Cover***
Standard: full ABS cover.
Optional: full metal cover; specify M73 x hand; full PVC cover, specify M115.

***Mountings***
Standard: regular and top jamb.
Optional mountings available; see Mountings, page 6.

***Mounting Bracket***
Universal Quik-Install™ mounting bracket standard.

***Fasteners***
Self drilling and machine screws standard. Sleeve nuts and bolts (SNB) optional; specify M54.

***Corrosion Protection***
Painted protective coating on all metal surfaces for use in corrosive environments. To order specify M75.

***Security Package***
Includes heavy-duty parallel or regular arm, full metal cover and security Torx® machine screws. Specify M87 x arm x hand. Available arms: A2, A3, A4, A5, A10 and A13.

***Warranty***
Ten-year limited warranty. Refer to Corbin Russwin price book for details.

### Certification/Compliance



#### Barrier-Free Code Compliance

The DC8000 Series Door Closers listed below conform to the 5 lbf. maximum door opening force requirement for non-fire-rated interior hinged doors, according to:

***Americans with Disabilities Act (ADA)***
Complies with the Accessibility Guidelines for Buildings and Facilities, Section 4.13.11

***ANSI/BHMA***
Meets A156.4, Grade 1.
Meets A117.1.

DC8200
DC8210
DC8220

These door closers are certified by Corbin Russwin Architectural Hardware to comply with the above standards when properly installed and (if applicable) adjusted, in regular arm, parallel arm and top jamb mountings.

***UL / ULC / UL10c***
Listed for fire and cycle requirements.

***10 Million Cycles***
Witnessed and verified by UL

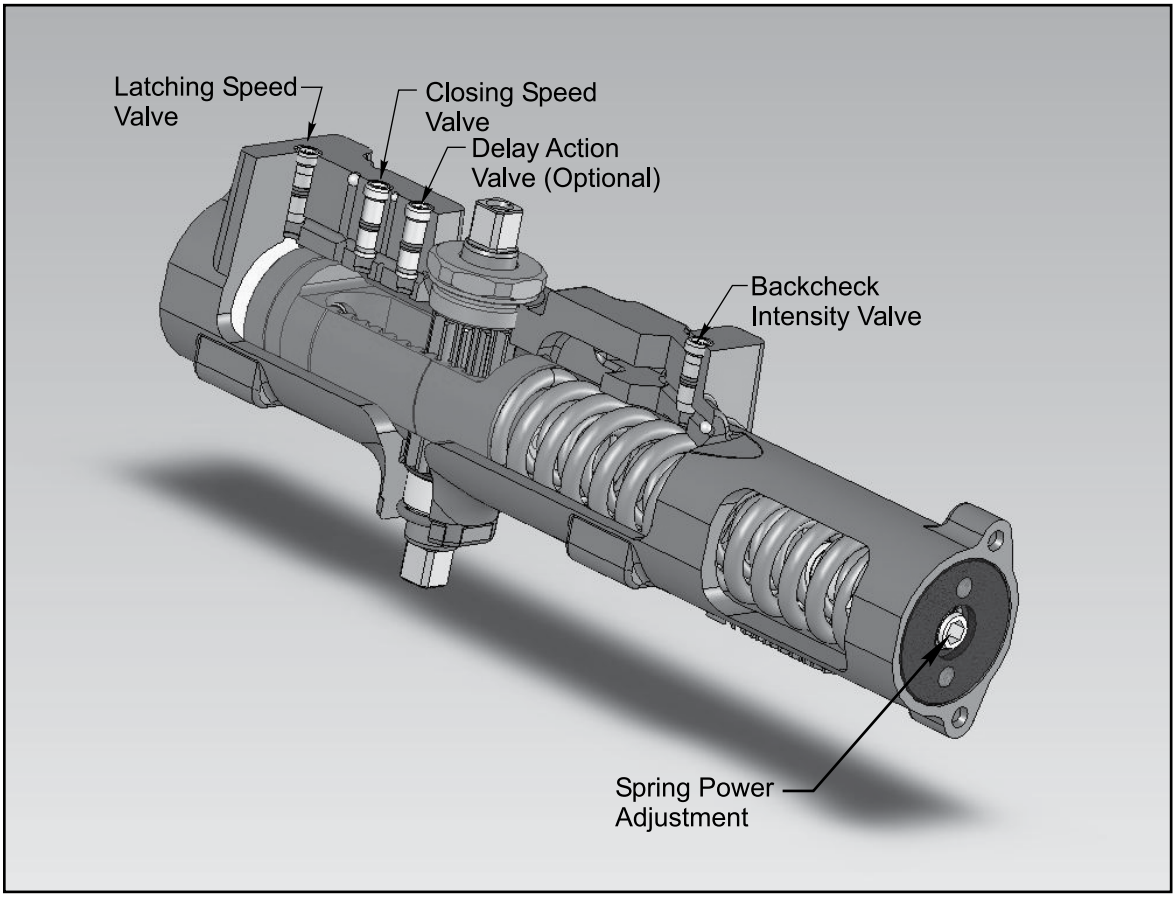
***Finishes***

Standard painted finishes

| Old Designation | Description | Specify |
|---|---|---|
| USP | Primed | 600 |
| SBL | Silver Aluminum | 689 |
| LBL | Dark Bronze | 690 |
| DBL | Light Bronze | 691 |
| FBL | Black | 693 |
| GBL | Satin Brass | 696 |
| Plated finishes available on arms and full metal cover. | | |
| US3 | Bright Brass | 605 |
| US4 | Satin Brass | 606 |
| US9 | Bright Bronze | 611 |
| US10 | Satin Bronze | 612 |
| US26 | Bright Chromium Plated | 625 |
| US26D | Satin Chromium Plated | 626 |
| For split finish of closer cover and arm, specify cover finish first, then arm finish (e.g., DC8200 x 625 x 689). | | |

# Features

## DC8000



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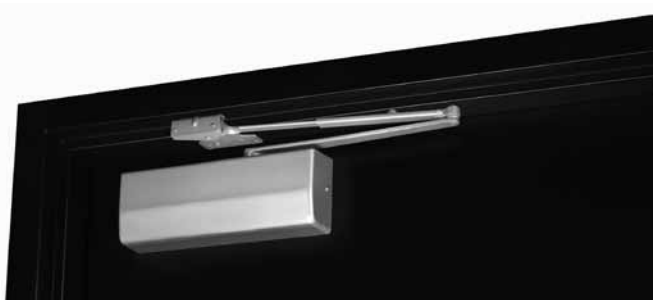
# Mountings and Applications

## DC8000



### Regular Arm Mounting DC8200 Series

Most common mounting, providing the greatest closing efficiency. Closer is mounted on the pull side, with the arm almost perpendicular to the face of the door. Arm bracket is attached to the door frame.



### Parallel Arm Mounting DC8210 Series

Allows inside application of closer on out-swinging doors. Closer is mounted on the push side, with the arm almost parallel to the face of the door. Arm does not project from the opening.



### Top Jamb Mounting DC8220 Series

Closer is mounted on the frame on the push side, with the arm perpendicular to the face of the door. Arm bracket is mounted on the door. Minimum 1-3/4" (44mm) top jamb required. Accommodates reveals up to 3-1/4" (83mm).



### Track Mounting DC8230 Series

Closer is door mounted on the pull side; arm is connected to a frame-mounted track. Maximum degree of opening is 100°. Maximum closing power is size 4.

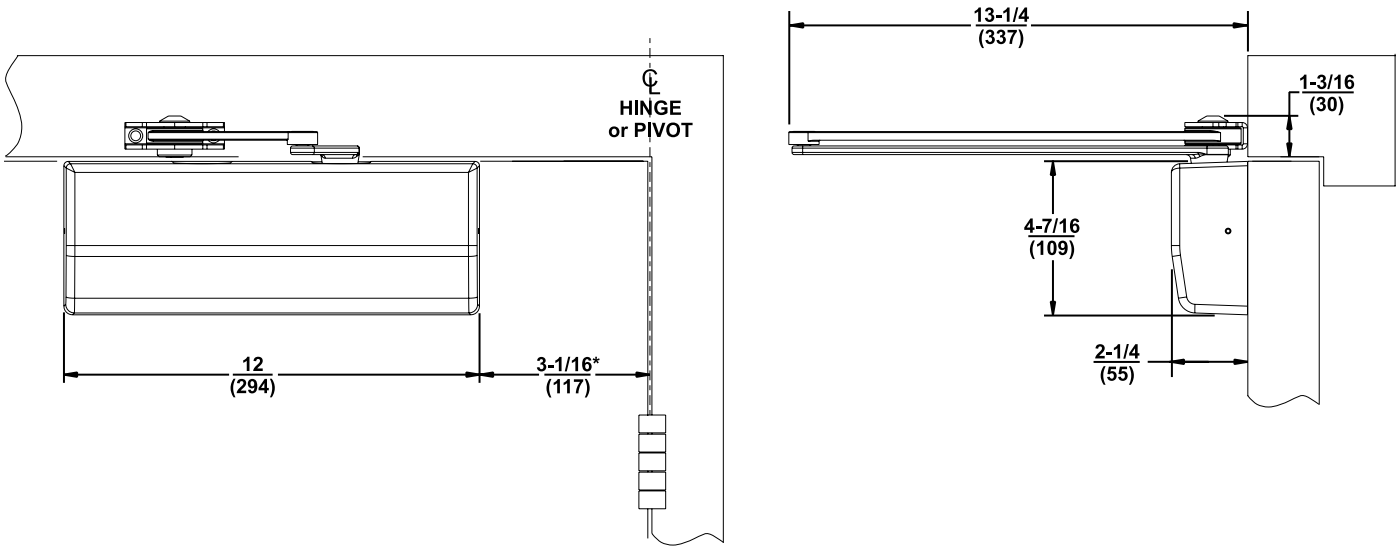


### Track Mounting DC8240 Series

Closer is mounted on push side of door; arm is connected to a stop-mounted track. Maximum degree of opening is 100°. Maximum closing power is size 4.

# Regular Arm Mounting

## DC8000




**To obtain extra closing force add 3" (76 mm) to dimensions marked (*).**
**NOTE: This will limit degree of door opening to 110°.**

**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Arm Function | Minimum Header | Minimum Top Rail |
|---|---|---|
| Non-Hold Open | 1-1/2" (38) | 3" (76) |
| Hold Open | 1-11-16" (43) | |

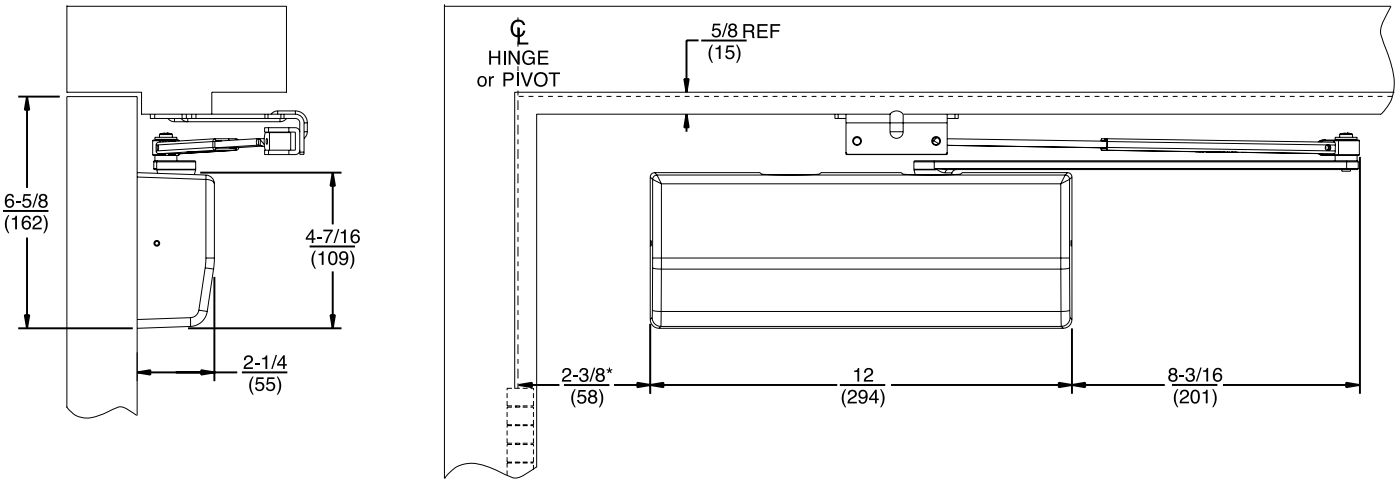
| Door Width Inches (cm) | | | Model Numbers | |
|---|---|---|---|---|
| Interior | Exterior | | Multi-Sized Closer | |
| | In-Swinging | Out-Swinging | Non-Hold Open | Hold Open |
| 28" (71) | — | — | DC8200^ | DC8200 x A1^ |
| 36" (91) | — | — | | |
| 42" (107) | 30" (76) | 36" (91) | | |
| 48" (122) | 36" (91) | 42" (107) | | |
| 54" (137) | 42" (107) | 48" (122) | | |
| 60" (152) | 48" (122) | 54" (137) | | |

**^Closers are tri-packed for regular arm, parallel arm and top jamb mounting. Parallel arm bracket is included. Consult factory if door weight exceeds 250lbs.**

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# Parallel Arm Mounting

## DC8000




**To obtain extra closing force add 3" (76 mm) to dimensions marked (*).**
**NOTE: This will limit degree of door opening to 110°.**

**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

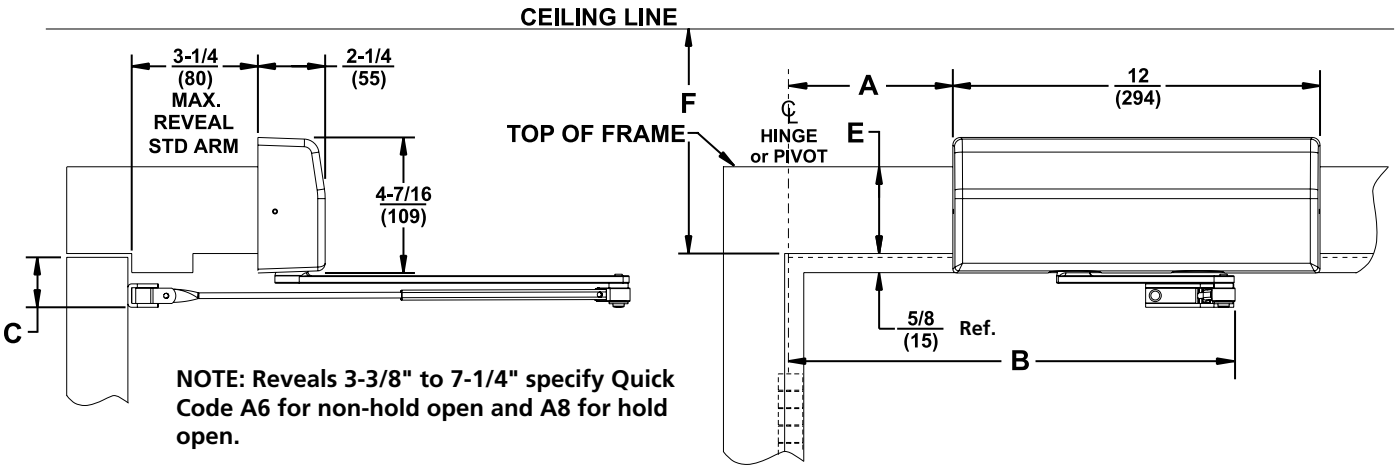
| Arm Function | Minimum Top Rail |
|---|---|
| Non-Hold Open | 5-1/4" (133) |
| Hold Open | |

| Door Width Inches (cm) | | Model Numbers | |
|---|---|---|---|
| | | Multi-Sized Closer | |
| Interior | Exterior | Non-Hold Open | Hold Open |
| 28" (71) | — | DC8210 | DC8210 x A1 |
| 30" (76) | — | | |
| 36" (91) | 30" (76) | | |
| 42" (107) | 36" (91) | | |
| 48" (122) | 42" (107) | | |
| 54" (137) | 48" (122) | | |

**Standard arm closers are tri-packed.**
**Consult factory if door weight exceeds 250lbs.**

# Top Jamb Arm Mounting

## DC8000




**NOTE: Reveals 3-3/8" to 7-1/4" specify Quick Code A6 for non-hold open and A8 for hold open.**

**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Maximum Opening | A | B | Hinge Condition |
|---|---|---|---|
| 110° | 7" (172) | 16-1/16" (394) | Butts, Offset Pivots, and Swing Clear Hinges |
| 140° | 5-1/2" (135) | 14-5/16" (351) | |
| 180° | 4" (98) | 13-1/16" (320) | |
| 140° | 5-1/2" (135) | 14-7/16" (354) | ^Center Hung |

| Header Width | C Minimum Top Rail | E Header | F Ceiling Clearance |
|---|---|---|---|
| Standard | 1-7/8" (48) | 2-1/8" (54) | 4" (102) |
| Narrow | 2-1/4" (57) | 2" (49) | 3-5/8" (92) |

**Dimensions "A" and "B" are taken from centerline of hinge as shown and apply to pivot point of swing clear hinges. Offset and center hung pivots.**
**^Must be single-acting door.**

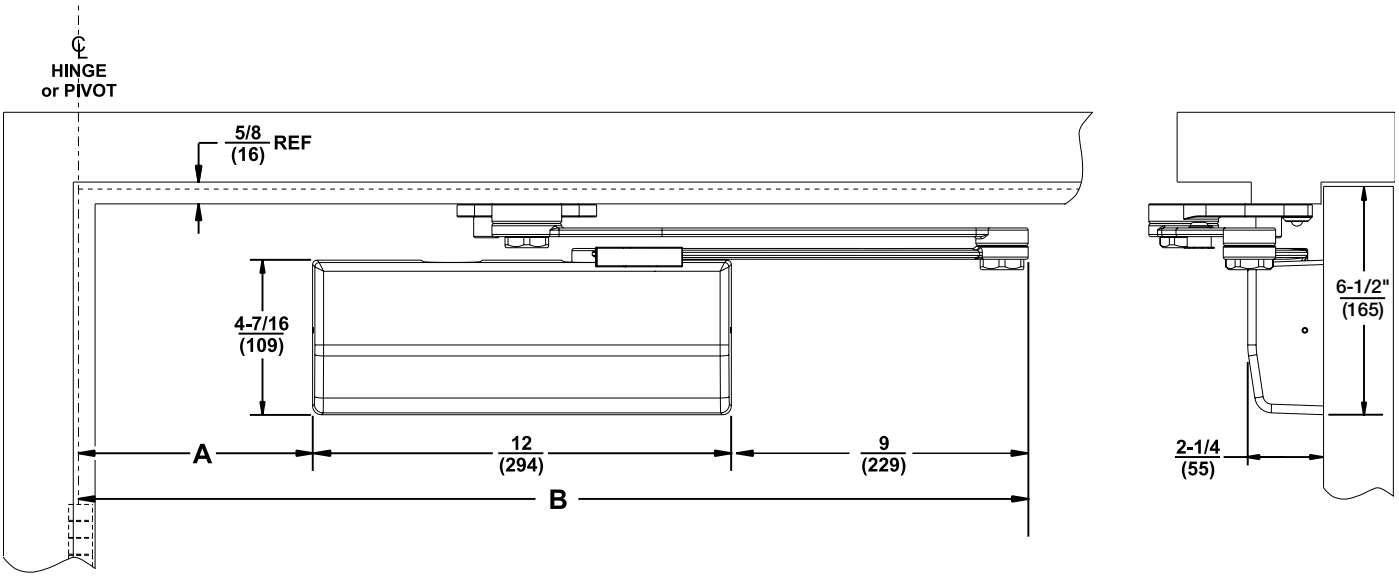
| Door Width Inches (cm) | | | Model Numbers | |
|---|---|---|---|---|
| Interior | Exterior | | Multi-Sized Closer | |
| | In-Swinging | Out-Swinging | Non-Hold Open | Hold Open |
| 28" (71) | — | — | DC8220* | DC8220 x A1* |
| 36" (91) | — | — | | |
| 42" (107) | 30" (76) | 36" (91) | | |
| 48" (122) | 36" (91) | 42" (107) | | |
| 54" (137) | 42" (107) | 48" (122) | | |
| 60" (152) | 48" (122) | 54" (137) | | |

*** Closers are tri-packed for regular arm, parallel arm and top jamb mounting. Parallel arm bracket is included. Consult factory if door weight exceeds 250lbs.**

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# Parallel Arm Mounting Heavy-Duty Hold Open Arm With Stop

## DC8000




**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Maximum Opening | A | B |
|---|---|---|
| 85° | 8" (203) | 29" (737) |
| 90° | 7" (178) | 28" (711) |
| 100° | 5-1/2" (140) | 26-1/2" (673) |
| 110° | 4-1/8" (105) | 25-1/8" (638) |

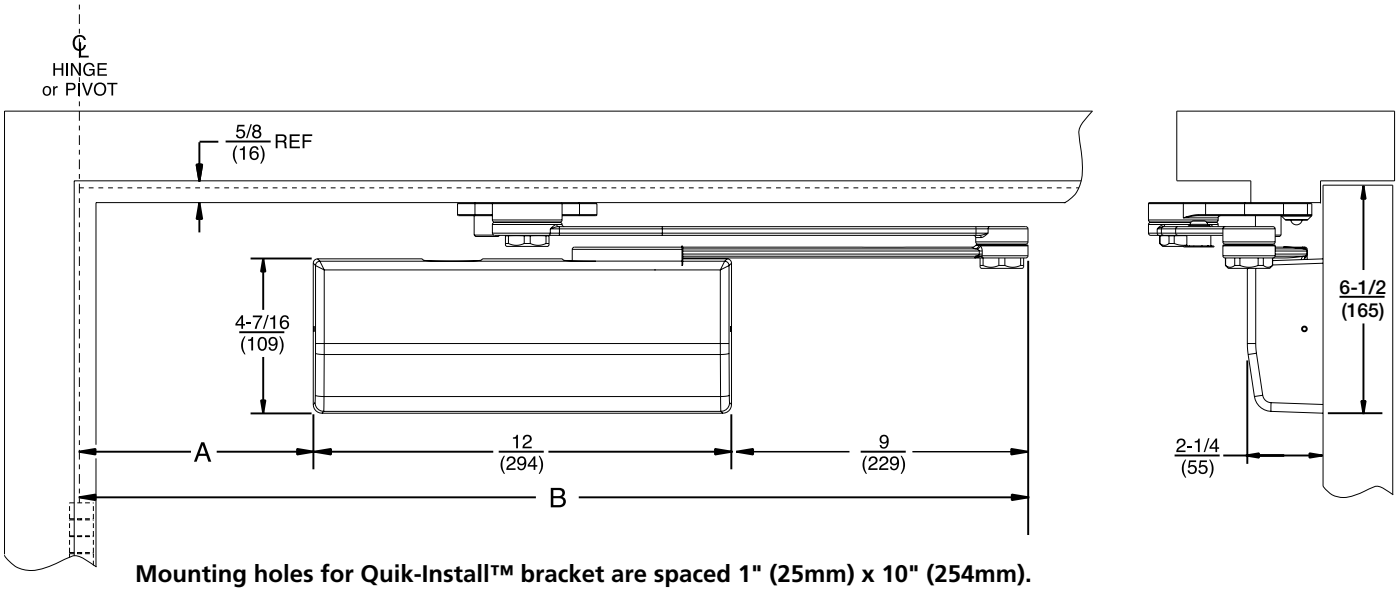
| Minimum Top Rail |
|---|
| 5" (127) |

| Door Width Inches (cm) | | Model Numbers |
|---|---|---|
| Interior | Exterior | Multi-Sized Closer Hold Open |
| 28" (71) | — | DC8210 x A2 |
| 30" (76) | — | |
| 36" (91) | 30" (76) | |
| 42" (107) | 36" (91) | |
| 48" (122) | 42" (107) | |
| 54" (137) | 48" (122) | |

**Consult factory if door weight exceeds 250lbs.**

# Parallel Arm Mounting Heavy-Duty Non-Hold Open Arm With Stop

## DC8000




**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Maximum Opening | A | B |
|---|---|---|
| 90° | 6-7/8" (175) | 27-7/8" (708) |
| 180° | 2-7/8" (73) | 23-7/8" (606) |

| Minimum Top Rail |
|---|
| 5" (127) |

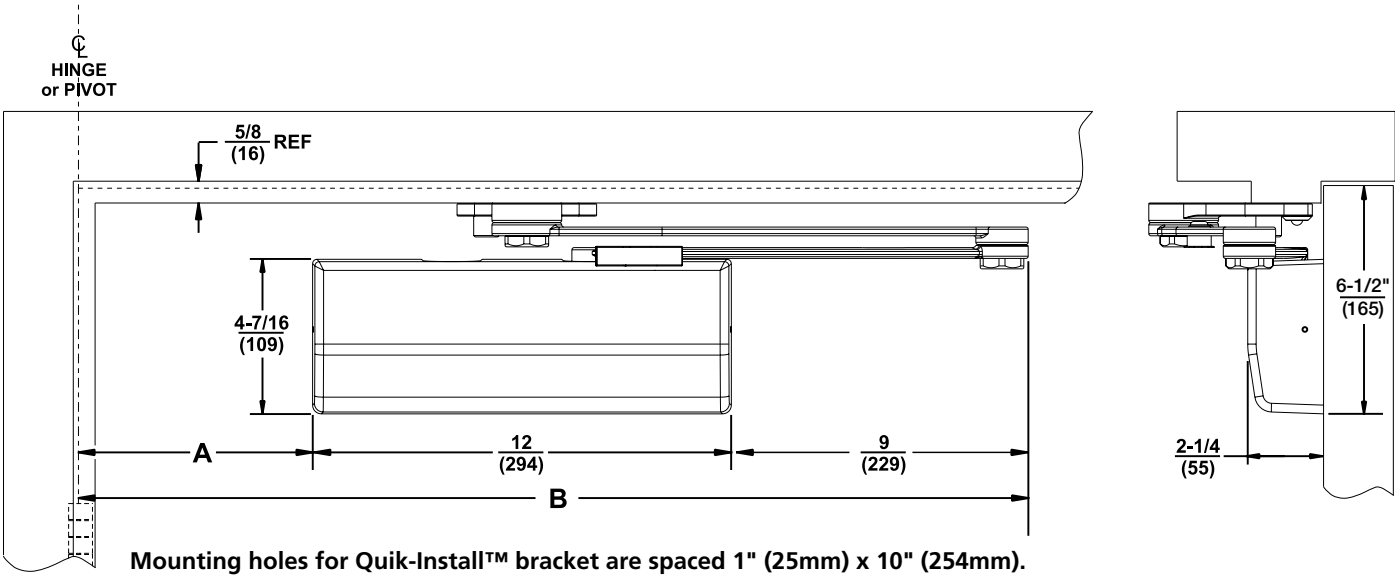
| Door Width Inches (cm) | | Model Numbers |
|---|---|---|
| Interior | Exterior | Multi-Sized Closer<br>Non-Hold Open |
| 28" (71) | — | DC8210 x A3 |
| 30" (76) | — | |
| 36" (91) | 30" (76) | |
| 42" (107) | 36" (91) | |
| 48" (122) | 42" (107) | |
| 54" (137) | 48" (122) | |

**Consult factory if door weight exceeds 250lbs.**

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# Parallel Arm Mounting Heavy-Duty Backstop Arms

## DC8000




**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Maximum Opening | A | B |
|---|---|---|
| 85° | 7-3/4" (197) | 28-3/4" (730) |
| 90° | 6-3/4" (171) | 27-7/8" (708) |
| 100° | 5-1/4" (133) | 26-1/4" (667) |
| 110° | 3-7/8" (98) | 25" (635) |

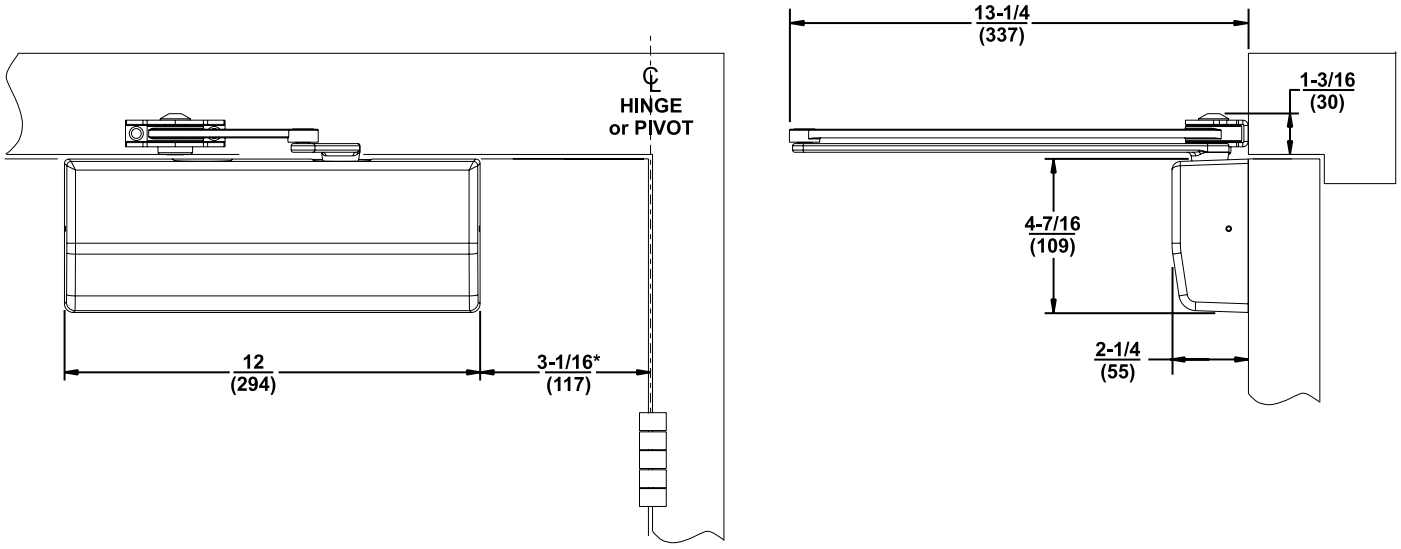
| Minimum Top Rail |
|---|
| 5" (127) |

| Door Width Inches (cm) | | Model Numbers | |
|---|---|---|---|
| | | Multi-Sized Closer | |
| Interior | Exterior | Non-Hold Open | Hold Open |
| 28" (71) | — | DC8210 x A4 | DC8210 x A5 |
| 30" (76) | — | | |
| 36" (91) | 30" (76) | | |
| 42" (107) | 36" (91) | | |
| 48" (122) | 42" (107) | | |
| 54" (137) | 48" (122) | | |

**Consult factory if door weight exceeds 250lbs.**

# Regular Arm Mounting Heavy-Duty Non-Hold Open Arms

## DC8000




**To obtain extra closing force add 3" (76 mm) to dimensions marked (*).**
**NOTE: This will limit degree of door opening to 130°.**

**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Minimum Header | Minimum Top Rail |
|---|---|
| 1-5/8" (41) | 3" (76) |

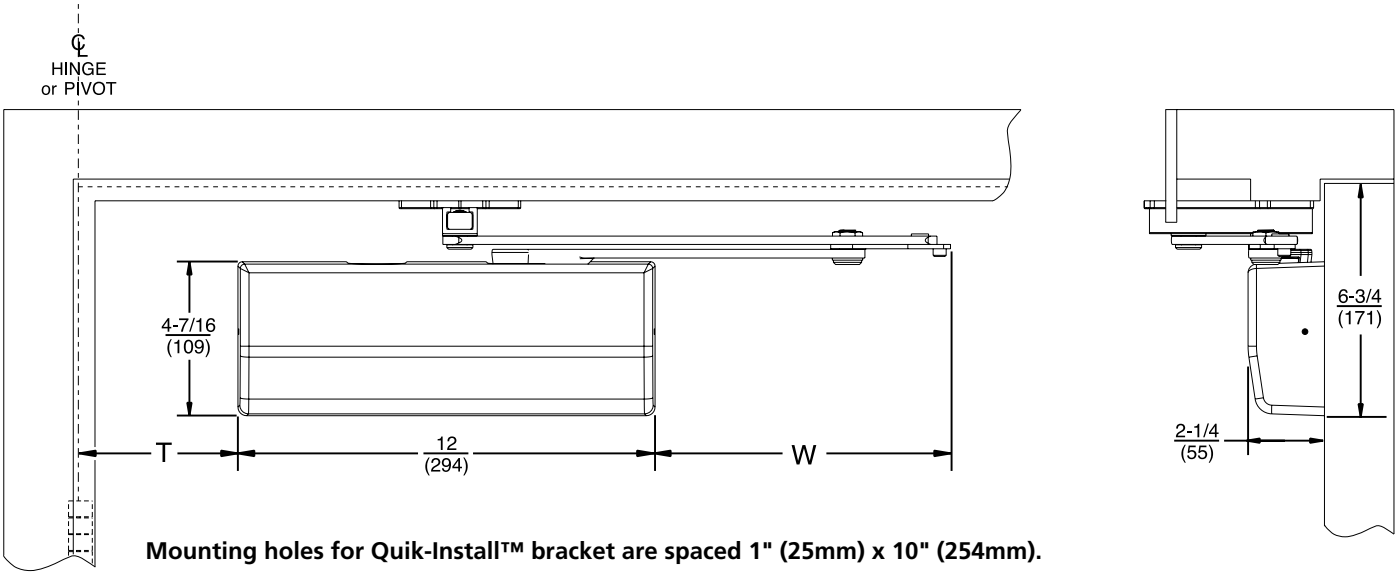
| Door Width Inches (cm) | | | Model Numbers |
|---|---|---|---|
| Interior | Exterior | | Multi-Sized Closer |
| | In-Swinging | Out-Swinging | Non-Hold Open |
| 28" (71) | — | — | DC8200 x A10 |
| 36" (91) | — | — | |
| 42" (107) | 30" (76) | 36" (91) | |
| 48" (122) | 36" (91) | 42" (107) | |
| 54" (137) | 42" (107) | 48" (122) | |
| 60" (152) | 48" (122) | 54" (137) | |

**Consult factory if door weight exceeds 250lbs.**

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# Unitrol® Parallel Arm Mounting

## DC8000




**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

| Minimum Top Rail |
|---|
| 5" (127) |

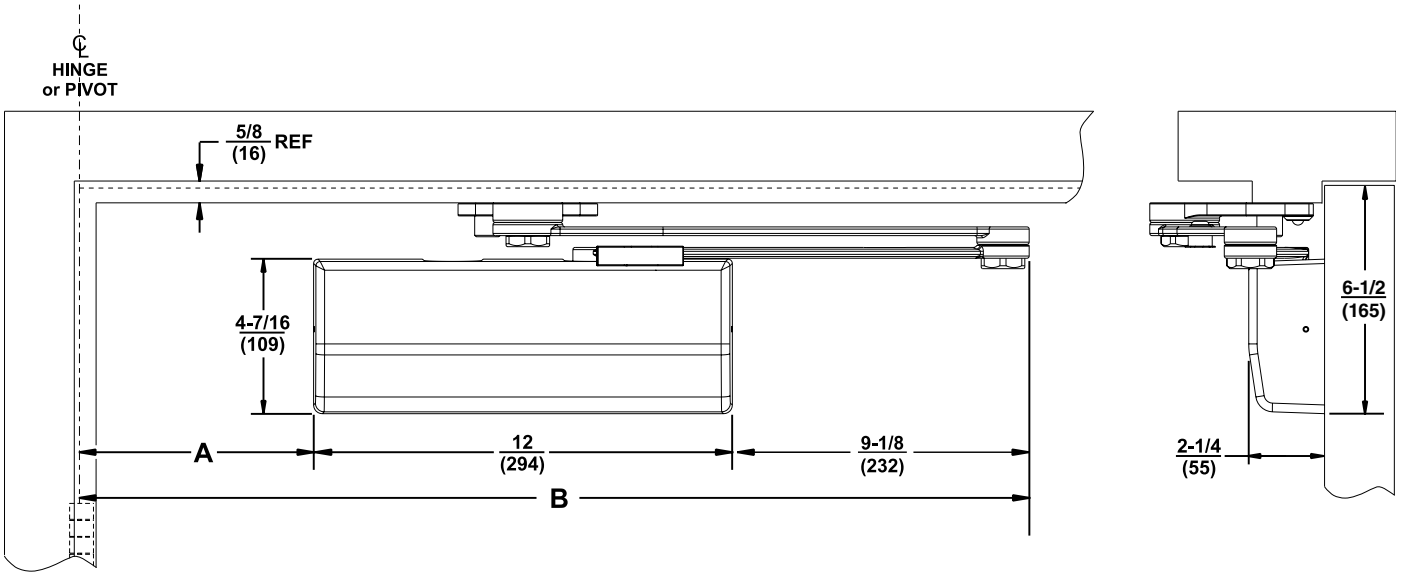
**Consult factory if door weight exceeds 250lbs.**

| Opening | | Doors 28" - 32" | | Doors 33" - 41" | | Doors 42" - 48" | |
|---|---|---|---|---|---|---|---|
| Hold Open | Dead Stop | T | W | T | W | T | W |
| 85° | 90° | 4-3/4" (121) | 8-1/2" (216) | 5-3/8" (137) | 10" (254) | 5-7/8" (149) | 11-3/8" (289) |
| 90° | 95° | 4-1/4" (108) | | 4-7/8" (124) | | 5-3/8" (137) | |
| 95° | 100° | 3-3/4" (95) | | 4-3/8" (111) | | 4-7/8" (124) | |
| 100° | 105° | 3-3/8" (86) | | 3-7/8" (98) | | 4-3/8" (111) | |
| 105° | 110° | 3" (76) | | 3-1/2" (89) | | 4" (102) | |
| 110° | 115° | 2-3/4" (70) | | 3-1/4" (82) | | 3-5/8" (92) | |

| Door Width Inches (cm) | | | | |
|---|---|---|---|---|
| Interior | Exterior | Multi-Sized Closer | | |
| | | Non-Hold Open | Hold Open | Specify door width (Quick Code) |
| 28" (71) | — | DC8210 x A11 | DC8210 x A12 | W28 (28"-32")<br>W33 (33"-41")<br>W42 (42"-48") |
| 30" (76) | — | | | |
| 36" (91) | 30" (76) | | | |
| 42" (107) | 36" (91) | | | |
| 48" (122) | 42" (107) | | | |
| 54" (137) | 48" (122) | | | |

# Parallel Arm Mounting Heavy-Duty Friction Hold Open Arms

## DC8000




**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm).**

**Consult factory if door weight exceeds 250lbs.**

| Maximum Opening | A | B |
|---|---|---|
| 90° | 6-1/2" (165) | 27-5/8" (702) |
| 180° | 2-1/2" (64) | 23-5/8" (600) |

| Minimum Top Rail |
|---|
| 5" (127) |

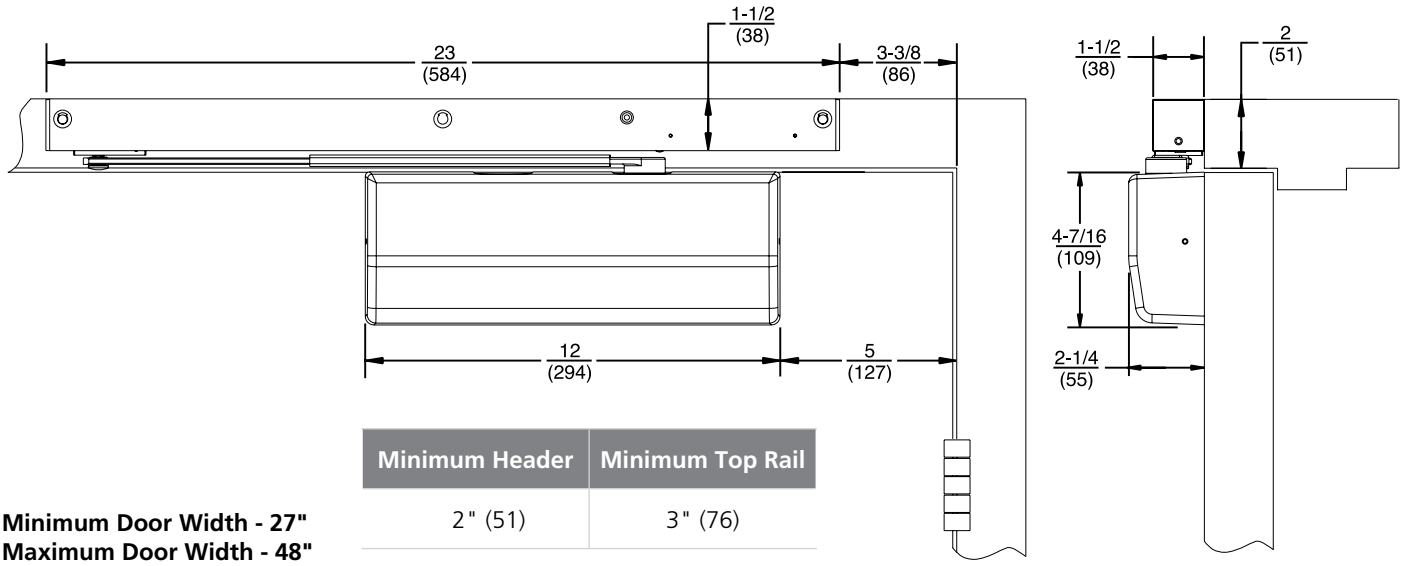
| Door Width Inches (cm) | | |
|---|---|---|
| Interior | Exterior | Multi-Sized Closer Hold Open |
| 28" (71) | — | DC8210 x A14 |
| 30" (76) | — | |
| 36" (91) | 30" (76) | |
| 42" (107) | 36" (91) | |
| 48" (122) | 42" (107) | |
| 54" (137) | 48" (122) | |

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# Track Applications

## DC8000

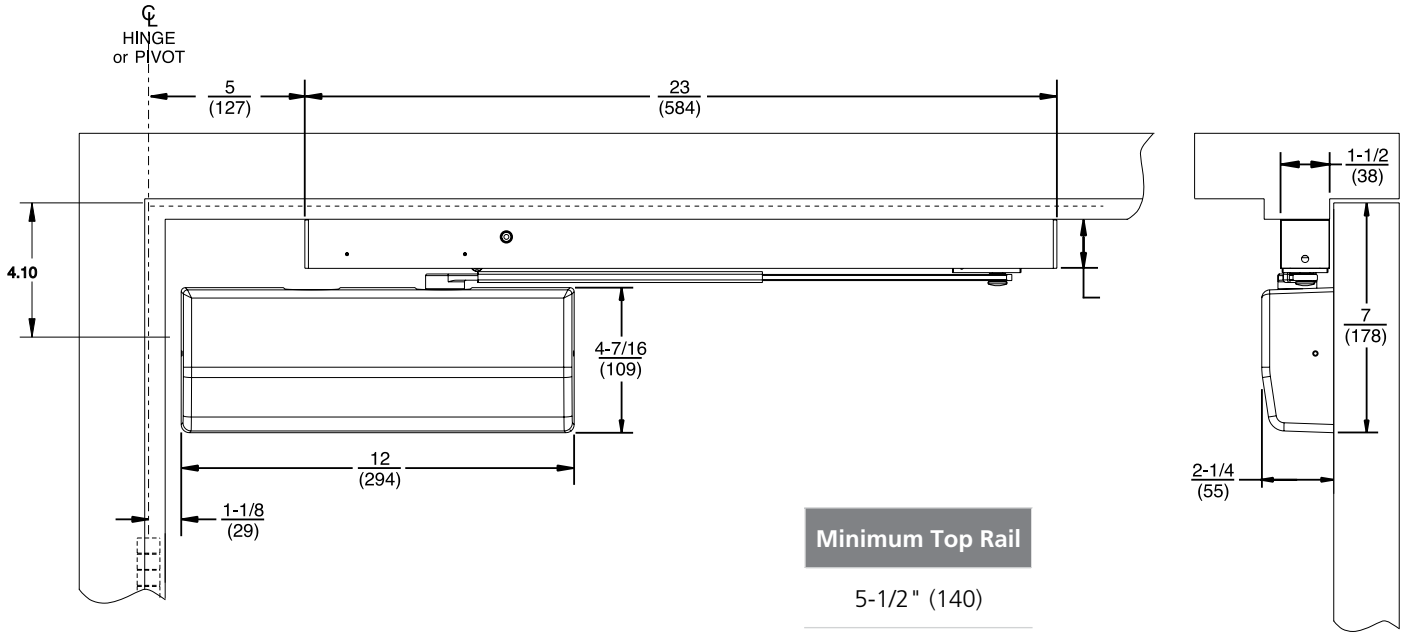
### Pull Side Mounting - DC8230




| Minimum Header | Minimum Top Rail |
|---|---|
| 2" (51) | 3" (76) |

**Minimum Door Width - 27"**
**Maximum Door Width - 48"**
**Consult factory if door weight exceeds 250lbs.**

### Push Side Mounting - DC8240



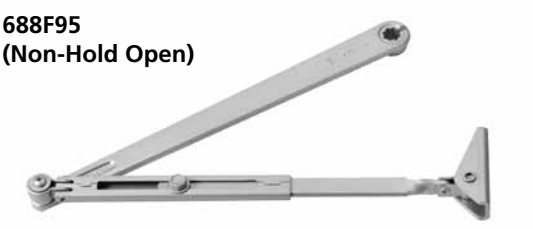

| Minimum Top Rail |
|---|
| 5-1/2" (140) |

**Minimum Door Width = 29"**
**Mounting holes for Quik-Install™ bracket are spaced 1" (25mm) x 10" (254mm)**
**Consult factory if door weight exceeds 250lbs.**

# Arm Options

## DC8000

**688F95**
**(Non-Hold Open)**



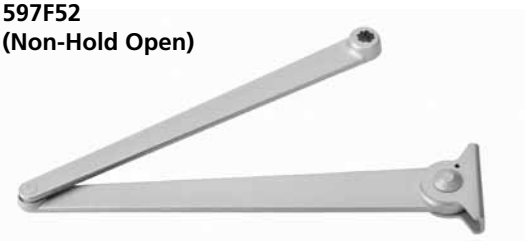
**688F77**
**(Hold Open)**



### Regular Arm

- Used with Regular Arm mounting (pull side) and Top Jamb mounting (push side)
- Available in painted or plated finishes
- Non-hold open arm standard on the DC8200 closers
- Hold open arm optional, specify closer x **A1***

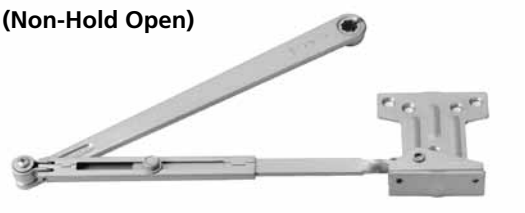
**597F52**
**(Non-Hold Open)**



### Heavy-Duty Regular Arm

- Recommended for high-use, high-abuse environments
- Tamper-resistant, solid forged steel riveted arm
- Mounted on pull side
- Not available in plated finishes
- Optional on DC8200 closers, specify closer x **A10**

**688F95 x 188F41**
**(Non-Hold Open)**



### Parallel Arm

- Mounted on push side
- Available in painted or plated finishes
- Non-hold open arm – combines regular arm with parallel arm mounting bracket
- Hold open arm – combines regular hold-open arm with parallel arm mounting bracket
- Non-hold open arm standard – order DC8210 series
- Hold open arm optional, specify closer x **A1***

**688F77 x 509F49**
**(Hold Open)**



Specify finish when ordering arms. *Not allowed by code on fire doors.

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# Arm Options

## DC8000

**689F02**
**(Non-Hold Open)**



**689F01**
**(Hold Open)**



### Heavy-Duty Parallel Arm

- Recommended for high-use, high-abuse environments
- Tamper-resistant, solid forged steel riveted arm
- Mounted on push side
- Not available in plated finishes
- Optional on DC8210 closers
- Non-hold open arm, specify closer x **A3**
- Hold open arm, specify closer x **A2***. Hold open range 85° to 110°
- For use with overhead stops, specify closer x **A13** (non-hold open only)

**689F03**
**(Non-Hold Open)**



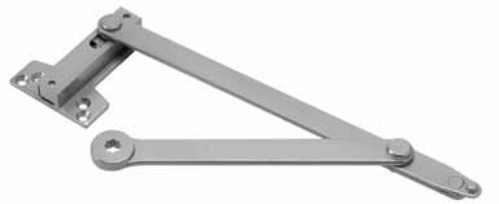
**689F04**
**(Hold Open)**



### Heavy-Duty Reversible Backstop Parallel Arm

- Recommended for high-use, high-abuse environments
- Tamper-resistant, solid forged steel riveted arm (mounted on push side)
- Field-reversible steel lug restricts degree of opening to protect door, wall and hardware
- Requires both backcheck valves on closer
- Shipped standard as left hand. Handing can be reversed in the field
- Not available in plated finishes
- Optional on DC8210 closers
- Non-hold open arm, specify closer x **A4**. Door stop range 85° to 110°
- Hold open arm, specify closer x **A5***. Door stop/hold open range 85° to 110°

**(Non-Hold Open)**



**(Hold Open)**



### Heavy-Duty Unitrol® Parallel Arm

- Recommended for high-use, high-abuse environments
- Integrates a door closer, shock absorber and auxiliary heavy-duty overhead stop
- Requires both backcheck valves on the closer
- Not available in plated finishes
- Hold open*
  - Holder mechanism tension adjustable
  - Hold open can be engaged/disengaged with a 1/4 turn of the mechanism with a standard blade type screwdriver
- Optional on DC8210 closers
- Non-hold open arm, specify closer x **A11 x door width**
- Hold open arm, specify closer x **A12 x door width**

| Door Width | Part Numbers | |
|---|---|---|
| | Non-Hold Open | Hold Open |
| 28" - 32" (71cm - 81cm) | 615F52 | 615F51 |
| 33" - 41" (84cm - 104cm) | 615F54 | 615F53 |
| 42" - 48" (107cm - 122cm) | 615F56 | 615F55 |

**Refer to page 20 for bracket information**

Specify finish when ordering arms. *Not allowed by code on fire doors.

# Arm Options

## DC8000

**691F96**
**(Non-Hold Open)**





### Heavy-Duty Extra Clearance Parallel Arm

- Recommended for high-use, high-abuse environments
- Provides additional vertical clearance
- Mounted on push side
- Not available in plated finishes
- Optional on DC8210 closers
- Non-hold open arm only, specify closer x **A13**

| Standard Clearance | Closer | 691F96 With Spacer | Quick Code | Total Clearance |
|---|---|---|---|---|
| 1-3/4" | DC8210 | 597F92 | M77 | 2-1/4" |
| | | 597F93 | M78 | 2-3/8" |





### Heavy-Duty Parallel Hold Open* Arm

- Recommended for high-use, high-abuse environment
- Requires auxiliary stop
- Allows door to swing 180°, conditions permitting
- Handed
- Mounted on push side
- Not available in plated finishes
- Optional on DC8210 closers
- Hold open arm, specify closer x **A14**

| Part Number | Handing |
|---|---|
| 692F04 | Right Hand |
| 692F05 | Left Hand |

*Not allowed by code on fire doors.

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# Arms and Brackets

## DC8000



### Pull Side Track Arm

- Provides a clean aesthetic look with maximum 100° door swing and a minimum door width of 28"(71cm)
- Mounted on pull side
- Hold open can be set for 85°, 90°, 95°, or 100°
- Not available in plated finishes
- Non-hold open standard on DC8230 closers
- Hold open, specify closer x **A1***

| | Track Only | Arm Only |
|---|---|---|
| Non-Hold Open | 754F09 | 754F16 |
| Hold Open | 754F10 | |



### Push Side Track Arm

- Clean aesthetic look for doors opening a maximum of 100˚ and a minimum door width of 32" (81cm)
- Backcheck option recommended
- Not available in plated finishes
- Hold open*
  - From 85° to 100°
  - Turn knob offers the use the option of turning hold open on or off
- Mounted on push side

| | Track and Arm | Track Only | Arm Only |
|---|---|---|---|
| Non-Hold Open | 754F12 | 754F14 | 754F16 |
| Hold Open | 754F13 | 754F15 | |



### Deep Reveal Arm (3-3/8" (86mm) - 7-1/4" (184mm))

- Accommodates top jamb mounting for reveals up to 7-1/4" (184mm), depending on door and frame conditions
- Mounted on push side
- Available in painted or plated finishes
- Optional on DC8220 closers
- Non-hold open, specify closer x **A6**
- Hold open, specify closer x **A8***

| | |
|---|---|
| Non-Hold Open | 691F72 |
| Hold Open | 691F74 |

Specify finish when ordering arms or tracks. *Not allowed by code on fire doors.

# Mounting Brackets

## DC8000

**754F18**



### Universal QUIK-INSTALL Mounting Bracket

- Standard on all closers
- Reduces installation time
- Ensures correct mounting
- Bracket is first mounted to door or frame, then closer is attached
- Bracket size: 3-5/8" (92mm) x 11-1/2" (292mm)
- Hole spacing: 1" (25mm) x 10" (254mm)

**244F17**



### Mortise Arm Bracket for Regular Arm Mounting

- For regular arm mounting where frame requires reinforcement, i.e., on frames with bull nose trim
- Not available in plated finishes
- Specify closer x M84

**188F41**



### Parallel Arm Non-Hold Open Bracket

- Converts regular arm to parallel arm closer
- Standard with parallel arm mounting
- Packed with five screws and 691F78 spacer

**509F49**



### Parallel Arm Hold Open Bracket

- Converts regular arm hold open to parallel arm hold open closer
- Standard with parallel arm hold open mounting

**188F62**



### Parallel Arm Offset Bracket

- Required when parallel arm is used in conjunction with an overhead door holder
- Specify closer x M83

**188F63**



### Parallel Arm Flush Transom Bracket

- Required when parallel arm mounting is used on a flush transom application
- Not available in plated finishes
- Specify closer x M82

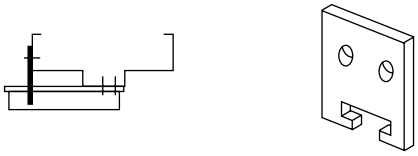
Specify finish when ordering parts.

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# Brackets

## DC8000

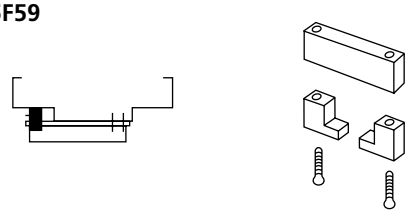
**615F58**



### Reinforcing Bracket

- Supplied as standard for use with A11 and A12 spring stop arms
- Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm)
- Not available in plated finishes

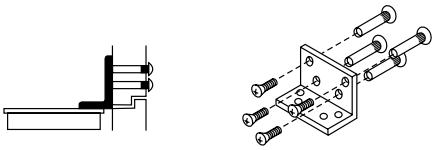
**615F59**



### Deep Reveal Reinforcement Kit

- For use with A11 and A12 spring stop arms
- Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions
- Not available in plated finishes
- For frames deeper than 4-5/8" (117mm), specify closer x M103

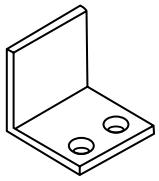
**615F60**



### Flush Partition Bracket

- For use with A11 and A12 Unitrol® arms where rabbeted or flush transom conditions prevent installation of the soffit plate assembly
- Bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly
- Specify closer x M104

**447F14**



### Angle Support Bracket

- Available separately for mounting A2, A3, A4 and A5 heavy-duty arms on narrow frame or soffit conditions
- Specify closer x M85

**499F30**



### Flush Transom Bracket

- Available separately for mounting A2, A3, A4 and A5 heavy-duty arms on rabbeted or flush transom conditions
- Not available in plated finishes
- Specify closer x M79

**597F92-1/2"**
**597F93-5/8"**



### Blade Stop Spacer*

- Specify closer x M77 (597F92)
- Specify closer x M78 (597F93)

***Not for use with A11 or A12 arms**

**Maximum Power**



**Normal Power**



### Power Adjustment Arm Bracket

- Standard on all closers without hold open, except heavy-duty and track type
- In regular arm or top jamb mounting, bracket may be reversed to increase closing power 15%

Specify finish when ordering parts.

# Covers and Plates

## DC8000

**754F84**



### Full ABS Plastic Cover

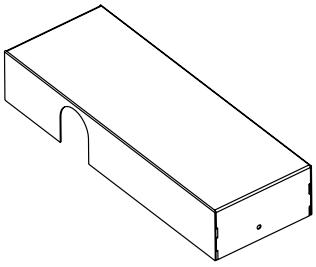
- Standard on all DC8000 series door closers
- Completely covers closer body
- Non-handed
- Dimensions: 11-7/8" (302mm) x 4-3/16" (106mm) x 2-1/8" (54mm) deep
- Available in painted finishes only

**754F19**



### Full PVC Cover

- Completely covers closer body
- Non-handed
- Dimensions: 11-7/8" (302mm) x 4-3/16" (106mm) x 2-1/8" (54mm) deep
- Available in painted finishes only



### Full Metal Cover

- For use in high-abuse applications
- Specify hand; not field reversible
- Available in painted and plated finishes
- Dimensions: 11-7/8" (302mm) x 4-1/4" (108mm) x 2-1/8" (54mm) deep

| Part Numbers | |
|---|---|
| RH/LHR | LH/RHR |
| 754F22 | 754F23 |



### Drop Plate

Permits parallel arm or top jamb mounting on door when top rail is too narrow to install closer in the regular manner. Minimum 2" (51mm) top rail required. To order separately, specify Part No. x Finish.

| Closer Series | Drop Plate |
|---|---|
| DC8200 | 754F20 |
| DC8200 (with concealed holder) | 754F24 |
| DC8210 | 754F25 |
| DC8220 | 754F24 |
| DC8230 | 754F20 |
| DC8240 | 754F25 |



### Retrofit Plates

For installation of Corbin Russwin DC8200 Closers where doors & frames have been prepared for LCN heavy-duty surface closers. To order with closers specify Closer x Quick Code.

| To Replace LCN Model | | Part Number | Quick Code |
|---|---|---|---|
| 4040 | Regular or Parallel Arm | 754F28 | M101F |

**754F36**



### Retrofit Plate

For installation of Corbin Russwin DC8200 closers where doors & frames have been prepared for the DC6200 closers. To order with closers specify Closer x Quick Code.

| To Replace DC6000 Model | Part Number | Quick Code |
|---|---|---|
| Regular Arm | 754F36 | M101G |
| Parallel Arm or Top Jamb | 754F46 | M101H |

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# Door Closer Sizes

## DC8000

### Factors in Determining Closer Size

***1 – Weight and Height of Door***

Doors vary in weight from light hollow-core wood doors to heavy metal doors. Door sizes listed in the chart are based on doors of standard weight and height. Extra-light or extra-heavy weight or unusual height must be compensated for.

***2 – Draft and Wind Conditions***

Draft and wind conditions are perhaps the most important factors to consider in determining the closer size required. Sizes listed in the chart apply to normal conditions. Stairwells, air conditioning, building construction, and door location can cause strong draft and wind conditions; these may necessitate adjusting spring power to a larger size or using a closer one size larger.

***3 – Location of Closer***

The degree of door opening required determines the location of the closer on the door. Closer sizes listed in the chart are based on 180° opening.

***4 – Special Conditions***

Deep reveals require optional extended arms. A top jamb plate is required when the jamb is too narrow for a normal top jamb mounting.

***5 – Code Compliance***

A multi-sized, fully adjustable closer such as the DC8200 closer provides the greatest flexibility in balancing barrier-free access, security and life safety codes. However, when a manual closer is installed and adjusted to comply with ADA or any other reduced opening force requirements, it may no longer have sufficient power to close and latch the door reliably.

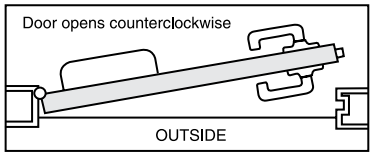
| Recommended Door Closer Sizes | | | | |
|---|---|---|---|---|
| Application | Door Width | | | |
| | Interior | Exterior, In-Swinging | Exterior, Out-Swinging | Recommended Closer Size |
| Regular or Top Jamb | 28" (71cm) | — | — | 1 |
| | 36" (91cm) | — | — | 2 |
| | 42" (107cm) | 30" (76cm) | 36" (91cm) | 3 |
| | 48" (122cm) | 36" (91cm) | 42" (107cm) | 4 |
| | 54" (137cm) | 42" (107cm) | 48" (122cm) | 5 |
| | 60" (152cm) | 48" (122cm) | 54" (137cm) | 6 |
| Parallel Arm | 28" (71cm) | — | — | 1 |
| | 30" (76cm) | — | — | 2 |
| | 36" (91cm) | — | 30" (76cm) | 3 |
| | 42" (107cm) | — | 36" (91cm) | 4 |
| | 48" (122cm) | — | 42" (107cm) | 5 |
| | 54" (137cm) | — | 48" (122cm) | 6 |

# Handing

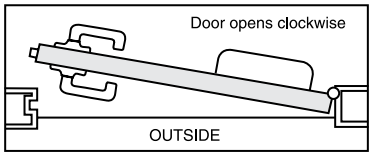
Refers to the direction a door swings; always determined from the outside of the door.

### *Regular Mounting*

Door: left hand
Closer: left hand pull side



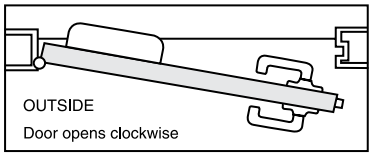

Door: right hand
Closer: right hand pull side



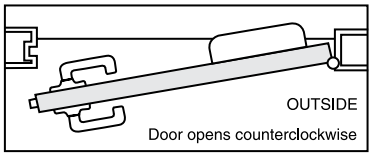

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### *Parallel Arm Mounting*

Door: left hand reverse bevel
Closer: right hand push side



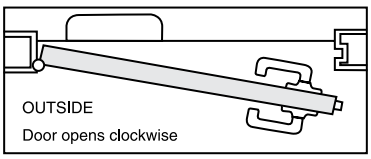

Door: right hand reverse bevel
Closer: left hand push side



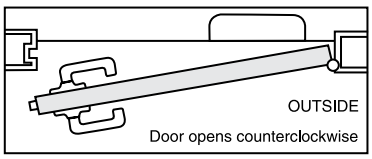

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### *Top Jamb Mounting*

Door: left hand reverse bevel
Closer: right hand push side




Door: right hand reverse bevel
Closer: left hand push side

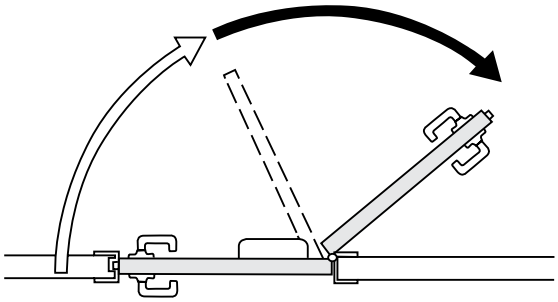


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# Helpful Terms

## DC8000

### Backcheck
Slows a door at approximately 70° of the opening cycle, by providing cushioned resistance to a forceful opening. Designed to protect people and objects behind the door and to prevent damage to the closer, hardware, and wall. Intensity can be increased or decreased. Not intended to act as a stop.



### Closing Speed
The speed at which a door swings from the full open position to within a few degrees of latching. See Latching Speed.

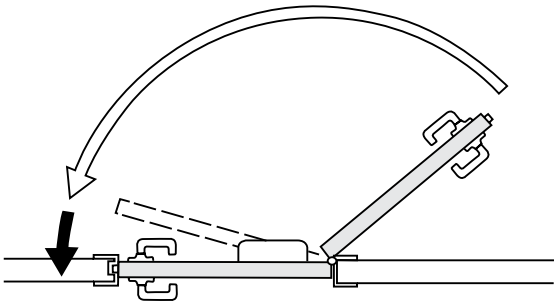
### Corrosion Protection
Additional painted covering on all external parts to deter oxidation and corrosion.

### Delayed Action
Slows door closing speed between maximum opening and approximately 70°. Often specified to meet barrier-free codes which require longer closing times.

### Door Stop
A device to stop the swing of a door.

### Hold Open
Maintains door at a particular degree of opening. A mechanical hold-open may not be used on labeled fire doors, which must be self-closing.

### Latching Speed
The speed of the door during the last few degrees of closing. Allows latching and prevents slamming.



### Mounting
The method by which a closer is attached to the door and frame.

### Backcheck Valve
Valve that changes the degree of door angle where backcheck occurs.

### Multi-Sized Closer
A closer whose spring design allows full adjustment of the spring power size from 1 through 6.

### Universal Quik-Install™ Mounting Bracket
Unique bracket which simplifies installation and minimizes installer fatigue.

### Sex Nuts and Bolts (SNBs)
Through-bolts required for all non-steel-reinforced fire doors, and recommended for non-reinforced wood and mineral core doors.

### Spring Power
A measurement of closing force, or the ability to overcome draft, air pressure, weight or other resistance to door closing.

### Star Punch
An eight-point hole in the closer arm, permitting spindle pre-loading. Provides full functioning of backcheck and delayed action valves.

### Universal Mounting
The ability of a closer to accommodate either hand for regular, top jamb or (using a bracket) parallel arm mounting.

# Ordering Examples

## Stock

| Quantity | Series/ Mounting/Size | Finish |
|---|---|---|
| 50 | DC8210 | 689 |

## Job Specific

| Quantity | Series/ Mounting/Size | Arm | Finish | Hand | Thickness | Options |
|---|---|---|---|---|---|---|
| 50 | DC8210 | A6 | 626 | RH | D138 | M71-M73 |

## Split Finish

| Quantity | Series/ Mounting Size | Option | Hand | Finish | |
|---|---|---|---|---|---|
| | | | | Cover | Arm |
| 10 | DC8210 | M73 | RH | 626 | 689 |

Note:
- Door closer warranty becomes void if it is installed on the exterior side of a door in the exterior wall of a building
- It is strongly recommended, and it is required on fire door assemblies, that doors having a door closer be hung on ball-bearing or anti-friction hinges or pivots
- Failure to use the correct type and size fasteners may void factory warranty
- Fasteners for fire/smoke door assemblies must conform to NFPA 80. In some applications additional fasteners may be mandated by NFPA 80 that are not shipped with Corbin Russwin standard product, such as sleeve nuts
- Consult factory if door weight exceeds 250lbs.

| Description | Mounting | Specify | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Non-sized | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | Size 6 |
| **Multi-sized** | Regular arm, top jamb and parallel arm | DC8210 | _ | _ | _ | _ | _ | _ |
| | Track (Pull Side) | DC8230 | _ | _ | _ | _ | _ | _ |
| | Track (Push Side) | DC8240 | _ | _ | _ | _ | _ | _ |
| **Factory Pre-Sized** | Regular arm, top jamb and parallel arm | _ | DC8211 | DC8212 | DC8213 | DC8214 | DC8215 | DC8216 |
| | Track (Pull Side) | _ | _ | _ | — | DC8234 | DC8235 | DC8236 |
| | Track (Push Side) | _ | _ | _ | — | DC8244 | DC8245 | DC8246 |

## Where to find ordering information and quick codes


| | |
|---|---|
| Series/Mounting/Size | Page 27 |
| Arm | Page 28 |
| Finish | Page 28 |
| Handing | Page 28 |
| Door Thickness | Page 28 |
| Miscellaneous Options | Page 29 |

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# Quick Codes

## DC8000

| Arm | Specify Quick Code |
|---|---|
| Regular non-hold open | (standard) |
| Hold open | A1* |
| Heavy-duty parallel with hold open | A2* |
| Heavy-duty parallel non-hold open | A3 |
| Heavy-duty backstop non-hold open | A4 |
| Heavy-duty backstop with hold open | A5* |
| Deep reveal (3-3/8"-7-1/4") | A6 |
| Deep reveal with hold open | A8* |
| Heavy-duty regular non-hold open | A10 |
| Unitrol® non-hold open (specify door width) | A11 |
| *Unitrol* with hold open (specify door width) | A12* |
| Push side track with hold open | A1* |
| Heavy-duty parallel with offset | A13 |
| Heavy-duty friction hold open | A14* |

***Hold open arms cannot be used on fire doors.**

| Handing | Specify Quick Code |
|---|---|
| Left Hand/Right Hand Reverse | LH |
| Right Hand/Left Hand Reverse | RH |

| Blade Stop Spacer | Specify Quick Code |
|---|---|
| 1/2" | M77 |
| 5/8" | M78 |

| Door Width (A11 or A12 arms) | Specify Quick Code |
|---|---|
| 28" - 32" | W28 |
| 33" - 41" | W33 |
| 42" - 48" | W42 |

## Finishes

Standard painted finishes

| Old Designation | Description | Specify Quick Code |
|---|---|---|
| USP | Primed for Painting | 600 |
| SBL | Silver Aluminum Painted | 689 |
| LBL | Dark Bronze Painted | 690 |
| DBL | Light Bronze Painted | 691 |
| FBL | Black Painted | 693 |
| GBL | Satin Brass Painted | 696 |

Plated finishes available on arms and full metal cover

| | | |
|---|---|---|
| US3 | Bright Brass | 605 |
| US4 | Satin Brass | 606 |
| US9 | Bright Bronze | 611 |
| US10 | Satin Bronze | 612 |
| US26 | Bright Chromium Plated | 625 |
| US26D | Satin Chromium Plated | 626 |

For split finish of closer cover and arm, specify cover finish first, then arm finish (e.g. DC8210 x M73 x Hand x 625 x 689).

| Door Thickness | Specify Quick Code |
|---|---|
| 1-3/4" (44mm) | (standard) |
| 2" (51mm) | D200 |
| 2-1/4" (57mm) | D214 |

## Miscellaneous Options

| Description | Specify Quick Code |
|---|---|
| Security Torx® machine screws | M04 |
| Sex nuts and bolts (SNBs) (1-3/4" minimum thickness) | M54 |
| Backcheck intensity valve | (standard) |
| Delayed action | M71 |
| ABS plastic cover | (standard) |
| Full metal cover (Handed) | M73 |
| PVC plastic cover | M115 |
| Extreme temperature fluid | (standard) |
| Corrosion protection | M75 |
| Drop plates - **order by number** | |
| **Closer Series** | **Drop Plate Full Cover** |
| DC8200 (Regular) | 754F20 |
| DC8200 (with concealed holder) | 754F24 |
| DC8210 (Parallel) | 754F25 |
| DC8220 (Top Jamb) | 754F24 |
| DC8230 (Pull Side) | 754F20 |
| DC8240 (Push Side) | 754F25 |
| Heavy-duty parallel arm flush transom bracket (499F30) used with all parallel arms except the Unitrol® | M79 |
| Parallel arm flush transom bracket (parallel or A1) | M82 |
| Parallel arm offset bracket | M83 |
| Mortise arm bracket (for regular arm mounting) | M84 |
| Angle support bracket | M85 |
| Spacer (691F78) (formerly M86 quick code) | (standard) |
| Security package (available with A2, A3, A4, A5, A10 & A13 optional arms). Covers are handed. | M87 |
| Retrofit kit LCN 4040 RA or PA | M101F |
| DC6000 retrofit plate (754F36) | M101G |
| DC6000 retrofit plate (754F46) | M101H |
| Deep reveal reinforcement kit | M103 |
| Flush partition (used with *Unitrol* arm) | M104 |
| Lead-lined cover | M108 |

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# Specifications

## DC8000

### ANSI/BHMA A156.4 Certified Closer Cross Reference

| ANSI/ BHMA Number | Function | Series | PT 4A 15% Power Adjustment | PT 4B 35% Power Adjustment | PT 4C 50% Power Adjustment | PT 4D Adjustable Backcheck | PT 4F Delayed Action | PT 4G Dead Stop | PT 4H Fully Adjustable |
|---|---|---|---|---|---|---|---|---|---|
| **CO2011 (PT 1)** | Hinge Side Mounting | DC8200 | S | S | S | S | O | N/A | S |
| **CO2051 (PT1)** | Hinge Side Mounting | DC8200-A1 | S | S | S | S | O | N/A | S |
| **CO2021 (PT 1)** | Parallel Arm Mounting | DC8210 | S | S | S | S | O | O | S |
| **CO2061 (PT 1)** | Parallel Arm Mounting | DC8210-A1 | S | S | S | S | O | O | S |
| **CO2041 (PT 1)** | Top Jamb Mounting | DC8220 | S | S | S | S | O | N/A | S |
| **CO2081 (PT 1)** | Top Jamb Mounting | DC8220-A1 | S | S | S | S | O | N/A | S |
| **CO2231 (PT 1)** | Push Side Track Mounting | DC8240 | S | S | S | S | O | O | S |
| **CO2241 (PT 1)** | Push Side Track Mounting | DC8240-A1 | S | S | S | S | O | O | S |
| **CO2211 (PT 1)** | Pull Side Track Mounting | DC8230 | S | S | S | S | O | O | S |
| **CO2221 (PT 1)** | Pull Side Track Mounting | DC8230-A1 | S | S | S | S | O | O | S |

**ANSI Performance Requirements: (PT 1) — 1,500,000 cycles — closer with backcheck feature.**
**N/A = not available**
**S = standard**
**O = option available**
**ANSI Options: DC8200 includes PT4-A, B, C, D, H. Optional: PT4-F, G, J.**

# Specifications

## DC8000

## Suggested Specification

Door closers shall be of rack and pinion construction with a cold headed heat-treated steel spindle and a sintered steel piston precision machined and heat treated. The case shall be of cast iron. Closers shall have a heavy-duty, forged steel main arm.

Optional arms shall include parallel, hold open, heavy-duty, heavy-duty hold open, heavy-duty reversible backstop, heavy-duty reversible backstop with hold open, heavy-duty Unitrol®, heavy-duty *Unitrol* with hold open, deep reveal, top jamb track and stop mounted track.

The following size options shall be available:

Fully adjustable spring power to accommodate sizes 1 through 6.

Spring power shall be adjustable by one half size over minimum for each size.

All sizes shall be accommodated in one closer body. Closing shall be controlled by two valves — one to control closing speed and one to control latching speed. Valves shall be concealed against unauthorized adjustment and be non-critical with "O" ring seals.

Delayed action shall be available and shall be accomplished with a separate valve.

Closers shall be available with an adjustable backcheck intensity valve with a safety feature that automatically relieves internal pressure when backcheck has reached the desired adjustment level. Valves shall be accessible without removing the closer from the door.

Closers shall be available with a backcheck intensity valve. Backcheck begins at approximately 70 degrees of door opening for all applications. This valve shall be operative on regular, top jamb, parallel arm, and track type mountings.

Closers shall be surface applied with rectangular cover, and shall be devoid of manufacturer's trademarks. Closers shall not project over 2-3/16", and shall be capable of mounting on 1-3/4" top rail or inverted mounting on 1-3/4" top jamb. Full cover and full metal cover with security fasteners shall be available. When required, metal covers shall be available in plated finishes. Closers without hold open shall be regularly furnished with power adjustment arm bracket capable of providing a 15% power adjustment. A Quik-Install™ mounting bracket to attach the closer shall be regularly furnished. Closers not having a mounting bracket shall not be acceptable. Hydraulic fluid shall be of a type requiring no seasonal valve readjustment due to extreme temperature variations.

Closers mounted regular arm, top jamb and parallel arm shall allow for full 180° door opening.

Closers with non-hold open arms shall be listed by Underwriters Laboratories.

All closers with metal covers shall be available in architectural finishes to match corresponding door hardware.

**Certification:**
ANSI/BHMA A156.4, Grade 1
ADA/ANSI A117.1
UL10C and UBC

Closers shall carry a ten-year limited warranty.

Closers shall be Corbin Russwin (DC8200) series.

Corbin Russwin

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For more information regarding Corbin Russwin Locksets, Exit Devices, Door Controls and Key Systems, contact your authorized Corbin Russwin Distributor or Sales Representative.

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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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