

# DC8000 Series

Door Closers





# Corbin Z

### 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 25 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	ABS (standard); metal (optional). 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
25-year warranty	Ensures long-lasting value



### **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.

#### 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

25-year limited warranty. Refer to Corbin Russwin price book for details.

#### Certification/Compliance

### F

# Barrier-Free Code Compliance

The DC8000 Series Door Closers listed below conform to the 5 lbf. maximum door opening force requirement for non-firerated 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.

#### 25 Million Cycles

Witnessed and verified by UL

#### **Finishes**

Specify	Description
600 (USP)	Primed
BHMA 605 (US3)*	Bright Brass
BHMA 606 (US4)*	Satin Brass
BHMA 611 (US9)*	Bright Bronze
BHMA 612 (US10)*	Satin Bronze
613E	Dark Oxidized Satin Bronze, Equivalent
BHMA 625 (US26)*	Bright Chromium Plated
BHMA 626 (US26D)*	Satin Chromium Plated
689 (SBL)	Silver Aluminum
690 (LBL)	Dark Bronze
691 (DBL)	Light Bronze
693 (FBL)	Black
696 (GBL)	Satin Brass

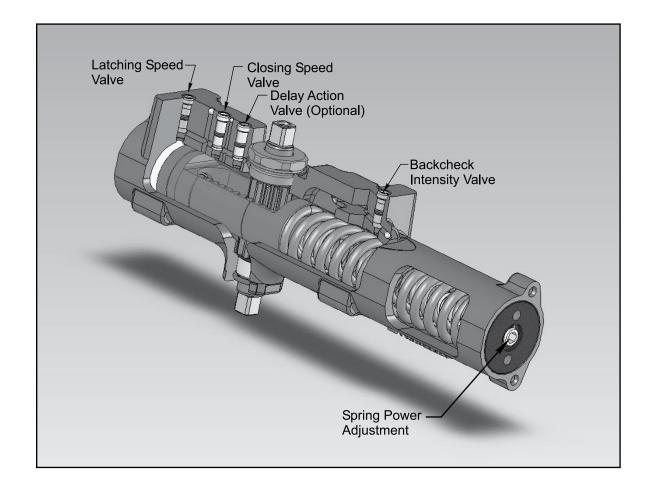
<sup>\*</sup>Metal cover is required for these finishes.

For split finish on closer cover and arm, specify cover finish first, then arm finish. (e.g., DC6200 x 625 x 689).



# Features

### DC8000





# 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.

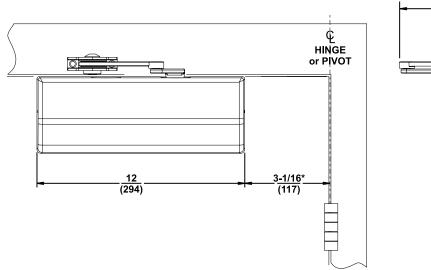


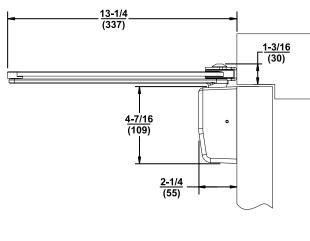
#### Track Mounting DC8240 Series

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)	2" (76)
Hold Open	1-11-16" (43)	3" (76)

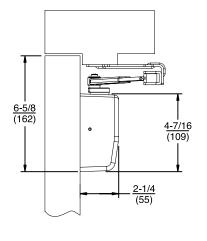
Door Width Inches (cm)			Mode	el Numbers
	Exterior		Multi-Sized Closer	
Interior	In-Swinging	Out-Swinging	Non-Hold Open	Hold Open
28" (71)	_	<del></del>		
36" (91)	_	_		
42" (107)	30" (76)	36" (91)	DC83004	DC8200 x A1^
48" (122)	36" (91)	42" (107)	DC8200^	
54" (137)	42" (107)	48" (122)		
60" (152)	48" (122)	54" (137)		

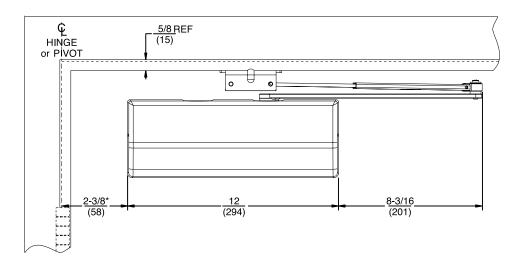
<sup>^</sup>Closers are tri-packed for regular arm, parallel arm and top jamb mounting. Parallel arm bracket is included. Consult factory if door weight exceeds 250lbs.



# 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).

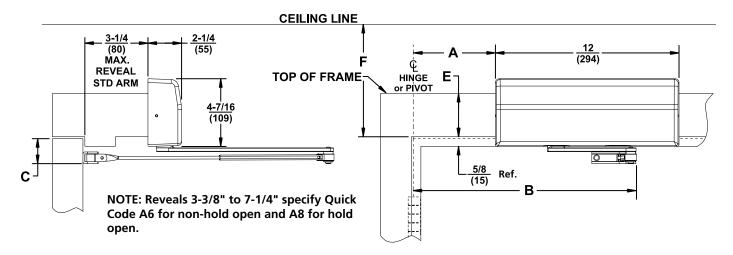
Arm Function	Minimum Top Rail
Non-Hold Open	5-1/4" (133)
Hold Open	5-1/4 (133)

Door Width Inches (cm)		Model Numbers	
Interior	Exterior	Multi-	Sized Closer
interior	LATERIOR	Non-Hold Open	Hold Open
28" (71)	_		
30" (76)	<del>-</del>		
36" (91)	30" (76)	DC0210	DC0240 A4
42" (107)	36" (91)	DC8210	DC8210 x A1
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



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

Maximum Opening	А	В	Hinge Condition
110°	7" (172)	16-1/16" (394)	Butts, Offset
140°	5-1/2" (135)	14-5/16" (351)	Pivots, and Swing Clear
180°	4" (98)	13-1/16" (320)	Hinges
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"	2-1/8"	4"
	(48)	(54)	(102)
Narrow	2-1/4"	2 "	3-5/8"
	(57)	(49)	(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.

<sup>^</sup>Must be single-acting door.

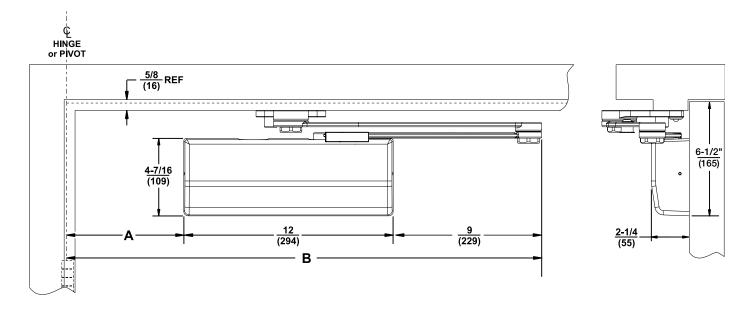
Door Width Inches (cm)		Model Nu	mbers	
Intoviou	Exterior		Multi-Sized	l Closer
Interior	In-Swinging	Out-Swinging	Non-Hold Open	Hold Open
28" (71)	<del></del>	<del></del>	DC8220*	DC8220 x A1*
36" (91)	_	—		
42" (107)	30" (76)	36" (91)		
48" (122)	36" (91)	42" (107)		DC8220 X A1"
54" (137)	42" (107)	48" (122)		
60" (152)	48" (122)	54" (137)		

<sup>\*</sup> 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.



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

### DC8000



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

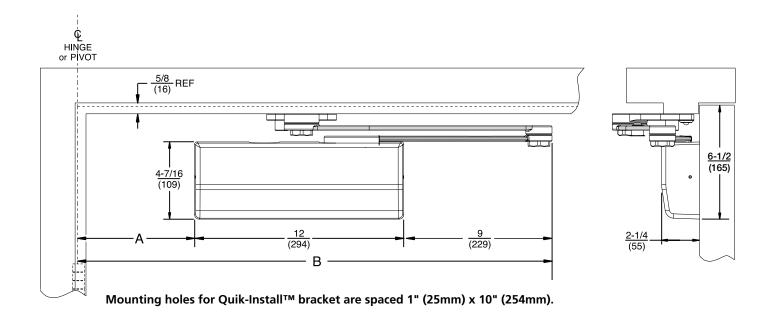
Maximum Opening	А	В
85°	8" (203)	29" (737)
90°	7" (178)	28" (711)
100°	5-1/2" (140)	26-1/2" (673)
110°	4-1/8" (105)	25-1/8" (638)

Minimum Top Rail	
5" (127)	

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

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

DC8000



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

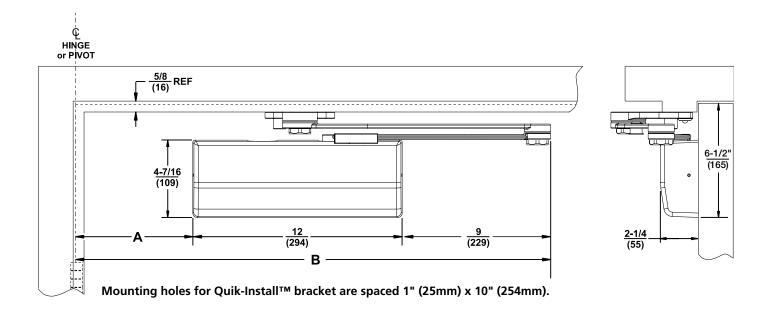
Minimum Top Rail	
5" (127)	

Door Width Inches (cm)		Model Numbers
Interior	Exterior	Multi-Sized Closer Non-Hold Open
28" (71)	_	·
30" (76)	<u> </u>	
36" (91)	30" (76)	DC9210 v A2
42" (107)	36" (91)	DC8210 x A3
48" (122)	42" (107)	
54" (137)	48" (122)	



# Parallel Arm Mounting Heavy-Duty Backstop Arms

### DC8000



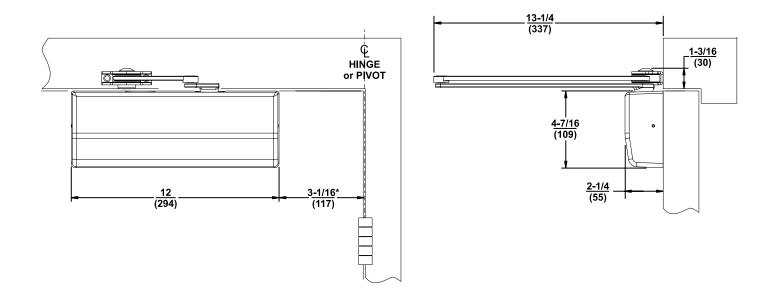
Maximum Opening	А	В
85°	7-3/4" (197)	28-3/4" (730)
90°	6-3/4" (171)	27-7/8" (708)
100°	5-1/4" (133)	26-1/4" (667)
110°	3-7/8" (98)	25" (635)

Minimum Top Rail	
5" (127)	

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

# 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).

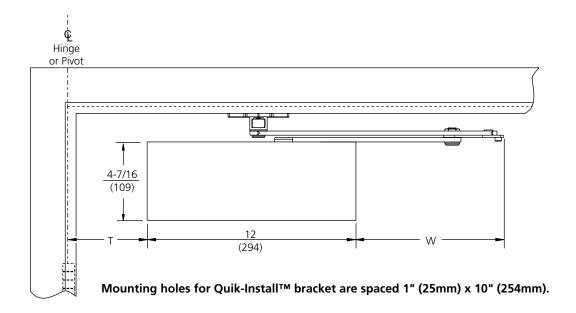
Minimum Header	Minimum Top Rail
1-5/8" (41)	3" (76)

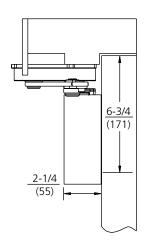
	Model Numbers		
Intoviou	Exte	Multi-Sized Closer	
Interior	In-Swinging	Out-Swinging	Non-Hold Open
28" (71)			
36" (91)	_	_	
42" (107)	30" (76)	36" (91)	DC8200 x A10
48" (122)	36" (91)	42" (107)	DC8200 X A 10
54" (137)	42" (107)	48" (122)	
60" (152)	48" (122)	54" (137)	



# Unitrol® Parallel Arm Mounting

### DC8000





Minimum Top Rail

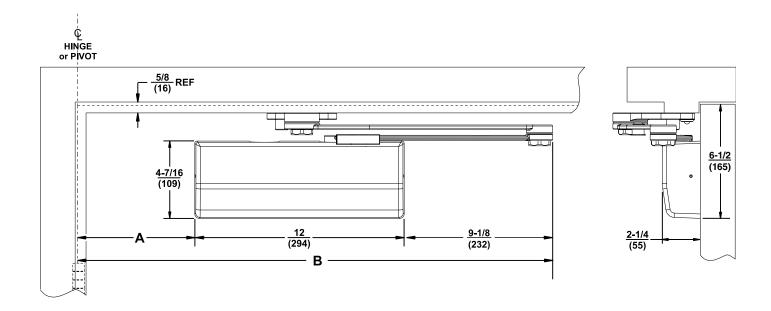
5" (127)

Ope	ning	Doors 2	28" - 32"	Doors 3	3" - 41"	Doors 4	2" - 48"
Hold Open	Dead Stop	Т	w	Т	w	т	W
85°	90°	4-3/4" (121)		5-3/8" (137)		5-7/8" (149)	
90°	95°	4-1/4" (108)		4-7/8" (124)		5-3/8" (137)	
95°	100°	3-3/4" (95)	0 1/2" /216\	4-3/8" (111)	10" (254)	4-7/8" (124)	11 2/0" (200)
100°	105°	3-3/8" (86)	8-1/2" (216)	3-7/8" (98)	10" (254)	4-3/8" (111)	11-3/8" (289)
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)					
		Multi-Sized Closer			
Interior	Exterior	Non-Hold Open	Hold Open	Specify door width (Quick Code)	
28" (71)				W28 (28"-32")	
30" (76)	_				
36" (91)	30" (76)	D. C.			
42" (107)	36" (91)		W33 (33"-41") W42 (42"-48")		
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	Α	В
90°	6-1/2" (165)	27-5/8" (702)
180°	2-1/2" (64)	23-5/8" (600)

Minimum Top Rail	
5" (127)	

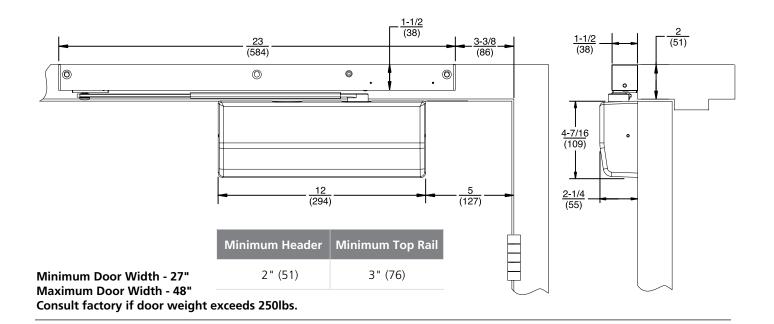
Door Width Inches (cm)			
Interior	Exterior	Multi-Sized Closer	
interior	Exterior	Hold Open	
28" (71)	_		
30" (76)	_		
36" (91)	30" (76)	DC0210 A14	
42" (107)	36" (91)	DC8210 x A14	
48" (122)	42" (107)		
54" (137)	48" (122)		



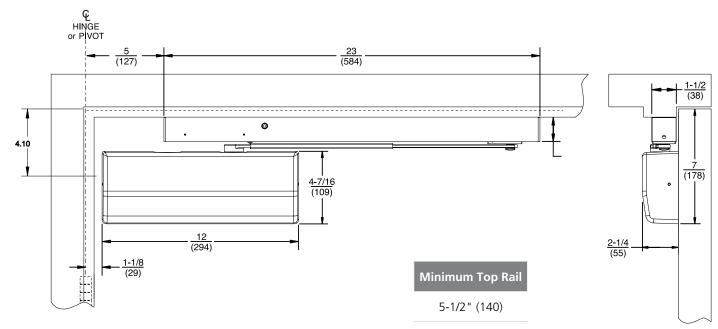
# Track Applications

### DC8000

#### **Pull Side Mounting - DC8230**



#### **Push Side Mounting - DC8240**



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





#### 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\*



#### **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





#### **Parallel Arm**

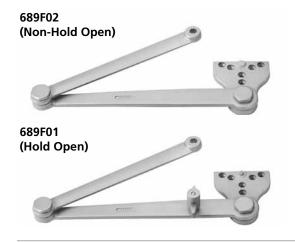
- Mounted on push side
- Available in painted or plated finishes
- Non-hold open arm combines regular arm with parallel arm mounting bracket
- Hold open arm combines regular hold-open arm with parallel arm mounting bracket
- Non-hold open arm standard order DC8210 series
- Hold open arm optional, specify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

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



# **Arm Options**

### DC8000



#### **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)





#### **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)



#### Refer to page 20 for bracket information

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

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"	DC9310	597F92	M77	2-1/4"
1-3/4	DC8210	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



### 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	754516
Hold Open	754F10	754F16



#### **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	754516
Hold Open	754F13	754F15	754F16



#### 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



#### 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.



### **Brackets**

### DC8000

#### 615F58



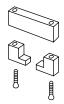


#### **Reinforcing Bracket**

- 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



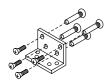


#### **Deep Reveal Reinforcement Kit**

- 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 heavyduty 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



#### **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

LH/RHR

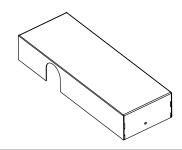
754F23

#### 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



#### **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



#### **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

**Part Numbers** 

RH/LHR

754F22





#### **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



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

# Handing

DC8000

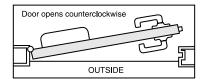
### **Handing**

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

#### Regular Mounting

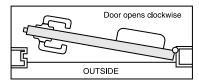
Door: left hand

Closer: left hand pull side



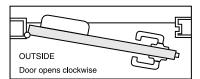
Door: right hand

Closer: right hand pull side

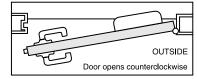


#### Parallel Arm Mounting

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

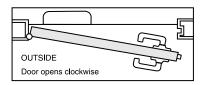


Door: right hand reverse bevel Closer: left hand push side

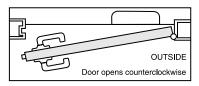


#### **Top Jamb Mounting**

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



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



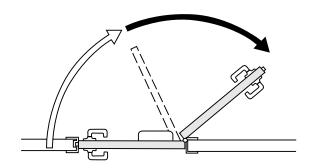


# Helpful Terms

### 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**

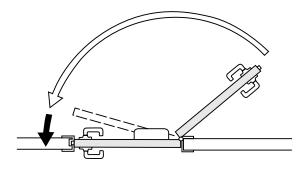
A device to stop the swing of a door.

#### **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.

# How To Order

DC8000

### **Ordering Examples**

#### Stock

Quantity	Series/ Mounting/Size	Finish
50	DC8210	689

# 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

### **Job Specific**

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

### **Split Finish**

Quantity	Series/ Mounting	Option	Hand	Finish		
Quantity	Size	Орион	Папи	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		
	Regular arm, top jamb and parallel arm	DC8210	_	_	_	_	_	_		
Multi-sized	Track (Pull Side)	DC8230	_	_	_	_	_	_		
	Track (Push Side)	DC8240	_	_	_	_	_	_		
Factory	Regular arm, top jamb and parallel arm	-	DC8211	DC8212	DC8213	DC8214	DC8215	DC8216		
Pre-Sized	Track (Pull Side)	_	_	_		DC8234	DC8235	DC8236		
	Track (Push Side)	-	-	-	_	DC8244	DC8245	DC8246		



# **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	А3			
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			
<i>Unitrol</i> 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*			

<sup>\*</sup>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**

Old Designation	Description	Specify Quick Code
USP	Primed	600
US3	Bright Brass	605*
US4	Satin Brass	606*
US9	Bright Bronze	611*
US10	Satin Bronze	612*
N/A	Dark Oxidized Satin Bronze, Equivalent	613E
US26	Bright Chromium Plated	625*
US26D	Satin Chromium Plated	626*
SBL	Silver Aluminum	689
LBL	Dark Bronze	690
DBL	Light Bronze	691
FBL	Black	693
GBL	Satin Brass	696

<sup>\*</sup>Metal cover is required for these finishes.

For split finish on closer cover and arm, specify cover finish first, then arm finish. (e.g., DC6200 x 625 x 689).

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



# **Quick Codes**

DC8000

**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		
Extreme temperature fluid	(standard)		
Corrosion protection	M75		
Drop plates - <b>order by number</b>			
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		
DC6000 retrofit plate (754F36)	M101G		
DC6000 retrofit plate (754F46)	M101H		
Deep reveal reinforcement kit	M103		
Flush partition (used with <i>Unitrol</i> arm)	M104		
Lead-lined cover	M108		



# 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	0	N/A	S
CO2051 (PT1)	Hinge Side Mounting	DC8200-A1	S	S	S	S	0	N/A	S
CO2021 (PT 1)	Parallel Arm Mounting	DC8210	S	S	S	S	0	0	S
CO2061 (PT 1)	Parallel Arm Mounting	DC8210-A1	S	S	S	S	0	0	S
CO2041 (PT 1)	Top Jamb Mounting	DC8220	S	S	S	S	0	N/A	S
CO2081 (PT 1)	Top Jamb Mounting	DC8220-A1	S	S	S	S	0	N/A	S
CO2231 (PT 1)	Push Side Track Mounting	DC8240	S	S	S	S	0	0	S
CO2241 (PT 1)	Push Side Track Mounting	DC8240-A1	S	S	S	S	0	0	S
CO2211 (PT 1)	Pull Side Track Mounting	DC8230	S	S	S	S	0	0	S
CO2221 (PT 1)	Pull Side Track Mounting	DC8230-A1	S	S	S	S	0	0	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<sup>TM</sup> 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 25-year limited warranty.

Closers shall be Corbin Russwin (DC8200) series.

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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