

General Information

351 Series Powerglide®

SARGENT®

ASSA ABLOY

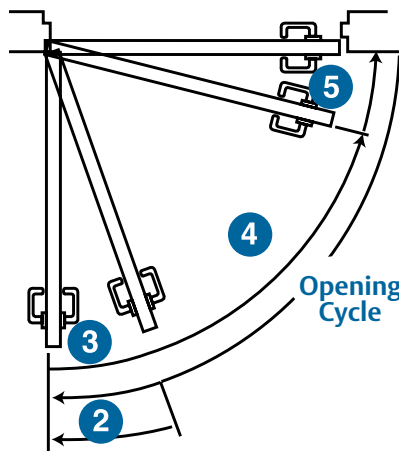
1 Closer Spring Adjustment (not shown)

- Effects the entire cycle of the door closer movement
- Used to size closer for application requirements
- Determines the amount of force with which the door closes and the amount of force required to open the door
- Adjustable to compensate for door size and draft conditions

2 Backcheck valve

- At approximately 70° of the open cycle, the Backcheck Valve begins to slow the door's motion
- Prevents the door from slamming into the door's stop
- Valve is used to control the intensity of the Backcheck
- **Note:** A Positive stop is required; Backcheck cannot be used as a stop

Door Closer Cycle



3 Delayed action valve (Optional)

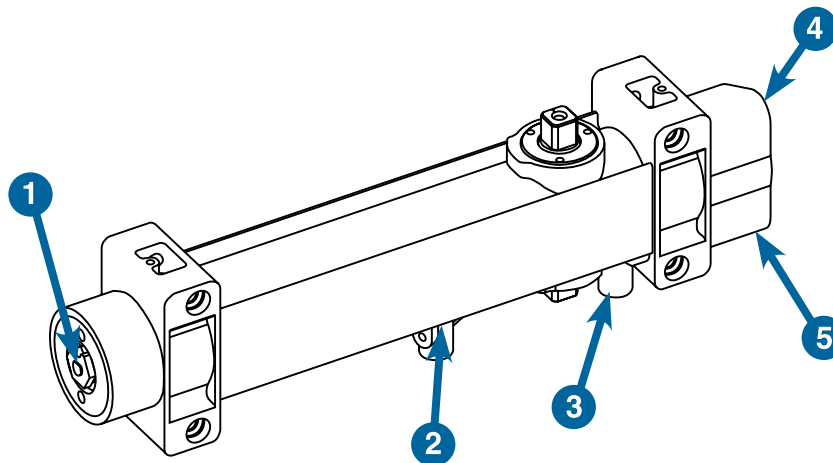
- Holds the door in the open position momentarily
- 20 second minimum hold open delay
- The feature is available for all applications and arms
- Beneficial when moving carts or objects through door opening or ADA applications

4 Closing speed valve

- Controls how fast the door closes to approximately 8" from the closed position, along with the closer spring

5 Latching speed valve

- Controls the speed of the door during the final 8" of door swing
- The force the door closes with is controlled by the closer spring
- **Note:** This adjustment is critical for door latching



ANSI Standards

ARM	TYPE	ARM	TYPE
O	CO2011	PF9	CO2101
P9	CO2021	P10	CO2021
H	CO2051	PS/CPS	CO2021
PH9	CO2061	CPSH/PSH	CO2061

All are certified ANSI types including options PT4 A, B, D, E, F, G, H

How to Select the Proper Closer

Things to Consider

1. Size and Weight of Door

The 351 Door Closers is non-sized so that closing force can be adjusted in the field to accommodate various door sizes and weights.

2. Interior Application

The standard application is the most efficient in terms of power and control.

3. Exterior Application

The top jamb, corner bracket or parallel arm application should be used. Exterior doors require greater closing forces because of draft conditions. Always place the closers out of the weather.

4. Degree of Opening

Proper arm and position on the door is most important to permit the door to open far enough to allow adequate traffic flow.

5. Function

Closers are available with hold-open or positive stop arms.

6. Special Condition

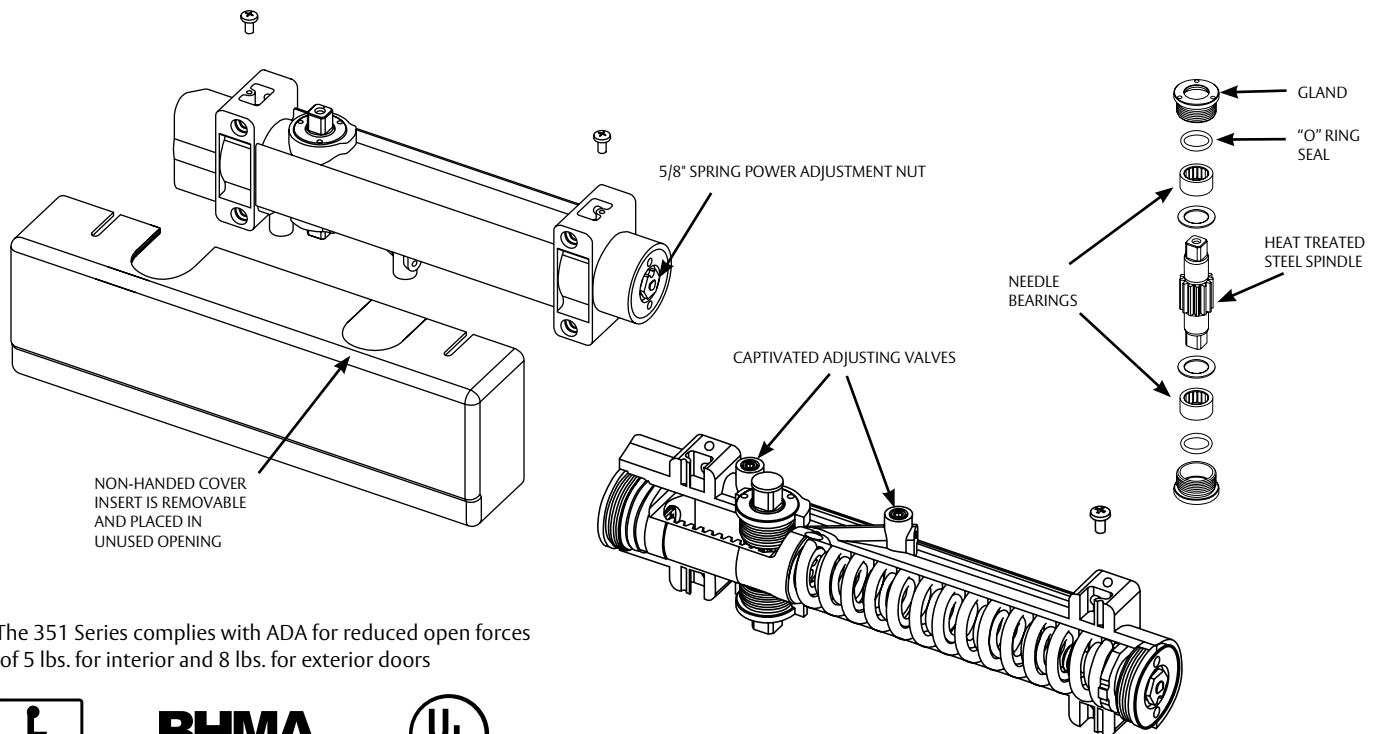
Consult factory when special hinges, overhead holders or other specialized hardware is used.

Features and Benefits

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The 351 Series complies with ADA for reduced open forces of 5 lbs. for interior and 8 lbs. for exterior doors



BHMA
CERTIFIED

UL US
LISTED

Features

- Certified ANSI/BHMA A156.4 Grade 1
- UL 10C listed for positive pressure fire test
- UL /cUL listed for use on fire rated doors
- 25 year limited warranty
- User friendly versatile mounting applications permit standard, top jamb, parallel and track installations
- Self sticking templates supplied for most applications
- Adjustable spring power allows 351 closers a size range of 1 through 6. They are adjusted to size 3 before leaving the factory
- One door closer body for all applications. All 351 are non-handed
- Meets ADA requirements in all applications, except Push Side Track application (except track)
- High impact non-corrosive plastic covers with two machine screws standard, metal covers and lead lined are optional
- All weather fluid allows closer to operate effectively in extreme temperatures without readjustment
- 1-1/2" diameter piston for superior door control
- Standard pressure relief valves for both opening and closing cycles protect the door & frame from damage caused by abuse

Heavy Duty Construction

- Heat treated full closed rack and pinion provide control from the full open position
- Heavy duty one piece die cast aluminum silicon alloy body with 14% silicon provides superior strength and wear resistance
- 1/2" arm engagement over a 7/16 square spindle ensures a wear-resistant tight joint

Fasteners

- Machine Screws and self tapping screws provided for closer and arm

Valves

- Brass body low sensitivity control valves offer separate regulating for door speed, latching, backcheck and optional delayed action
- All valves are controlled by an 1/8" allen wrench to discourage tampering and are captivated to prevent removing valves from the body and damaging door closer
- Adjustable backcheck (standard) protects the door and hardware from damage during the opening cycle
- Adjustable delayed action (optional) permits easy access for physically impaired individuals
- Valves are captivated to prevent accidental removal

Full Complement of Arm Types

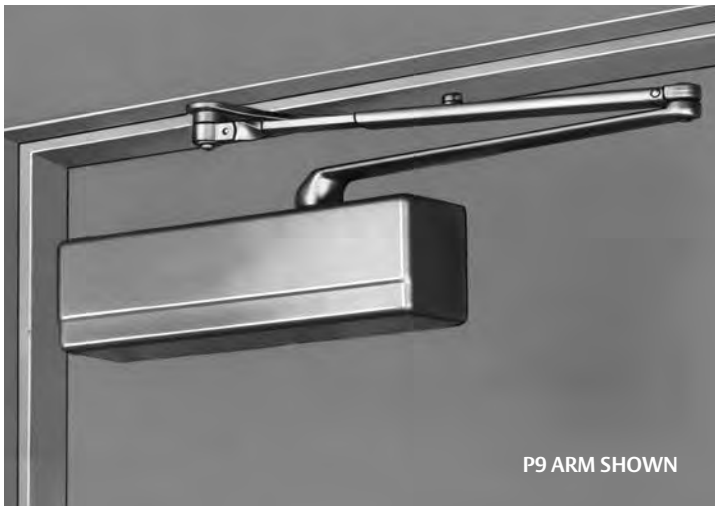
- Interchangeable forged steel arms
- Standard and parallel arms
- Push and pull track arms (including double egress)
- Heavy duty forged steel arms are finely finished and interchangeable between SARGENT 351, 1431 and 281 Series

Parallel Arm Applications

351 Series Powerglide®

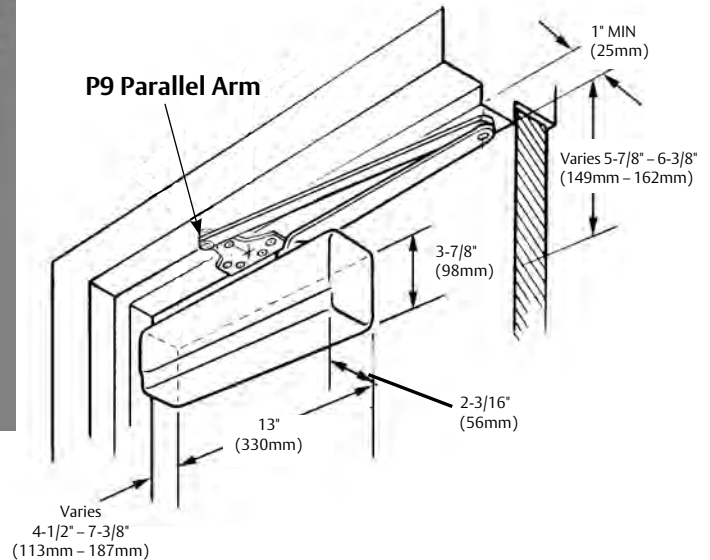
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Parallel Arm Applications - The 351 closer is mounted on the push side of the door. As the door opens, the closer swings with the door and gives full headroom in the door opening. Other advantages: the closer arm does not project into the room; the frame can be quite narrow and the door can be swung open much farther than in Top Jamb Applications.

351-P9 Regular Duty Parallel Arm



Heavy Duty Parallel Arms

For use in high traffic and abusive environments

- Forged steel arm and cast iron foot bracket for strength and durability
- Oiled bronze bearings for superior wear resistance
- 2 piece rigid arms for ease of installation
- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Dead stop and compression stop arms available
- Security non-hold open arms available

Non hold-open arms

- Two mounting positions for 120° and 180° maximum door openings

Stop arms

- 6 mounting positions with PS or CPS arms to allow stop from 85°–110°

Regular Duty Parallel Arms

Available Arms for institutional installations:

- Regular duty parallel arms
- Offset bracket arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction Hold Open Arms

NON HOLD OPEN ARMS

- Two mounting positions for 120° and 180° maximum door opening

HOLD OPEN ARMS

- Friction hold open arms available for doors subject to moderate hold open use
- 6 mounting positions to hold open from 85° – 110° with PSH or CPSH arms

Heavy Duty Parallel Arms

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P10 - Heavy Duty Parallel Arm



- Forged Steel Constructions
- Non-Handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting
- Can be used with the 351L retrofit plate when replacing a LCN 4040 closer

Order as 25-P10 x finish for arm only

25-P10 Includes: 63-0641 - Main arm
63-3727 - P10 foot assembly
63-3684 & 63-2392 - Screw packs

PS - Heavy Duty Parallel Arm with Positive Stop



- Forged Steel Constructions
- Handed arm is field-reversible
- Provides built in stop from 85° – 110°
- Permits 110° opening maximum
- Easily installed
- Permits 85° – 110° door opening

Order as 25-PS x finish for arm only

Includes: 63-0641 - Main arm
63-3837 - PS foot assembly
63-3684 & 63-2398 - Screw packs

CPS - Heavy Duty Parallel Arm with Compression Stop



- Forged Steel Constructions
- Provides built in compression stop from 85° – 105°
- Permits 105° opening maximum
- Easily installed
- Handed arm is field-reversible
- Dead stop within 3°

Order as 25-CPS x finish for arm only

Includes: 63-0641 - Main arm
63-3830 - CPS foot assembly
63-0516 - Bumper holder
63-3493 - Bumper
63-3684 & 63-2398 - Screw packs

SP10 Heavy Duty Security Arm



- Same as P10, except factory assembled at arm joint (elbow) to prevent disassembly in SSP package along with metal cover

PH10 - Heavy Duty Friction Hold Open Parallel Arm



- Forged Steel Constructions
- Adjustable hold open from 75° – 180°
- Forged steel arm 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

Order as 25-PH10 x finish for arm only

25-PH10 Includes: 63-0641 - Main arm
63-3839 - Left hand PH10 foot assembly
63-3840 - Right hand PH10 foot assembly
63-3684 & 63-2392 - Screw packs

PSH - Heavy Duty Parallel Hold Open Arm with Positive Stop



- Forged Steel Constructions
- Provides holder and stop features
- Handed arm is field-reversible
- Easily installed/adjusted
- Permits 85° – 110° door opening

Order as 25-PSH x finish for arm only

Includes: 63-0641 - Main arm
63-3833 - PSH foot assembly
63-3684, 63-2392 & 63-2398 - Screw packs

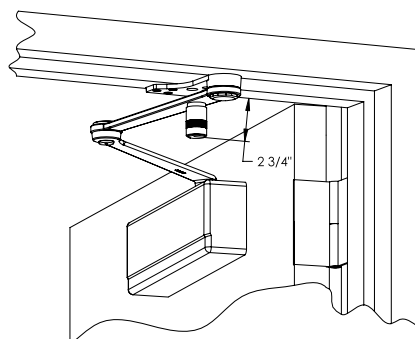
CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop



- Forged Steel Constructions
- Handed arm is field-reversible
- Provides built in compression stop and holder mechanism from 85° – 105°
- Easily installed/adjusted
- Permits 105° opening maximum
- Dead stop within 3°

Order as 25-CPSH x finish for arm only

Includes: 63-0641 - Main arm
63-3836 - CPSH foot assembly
63-0516 - Bumper holder
63-3493 - Bumper
63-3684, 63-2392 & 63-3487 - Screw packs



The PSH and CPSH arms project 2-3/4" below the head stop

Positive Stop Hold Open Arms (PSH & CPSH ARMS)

- Use on doors subject to repetitive hold open use
- 6 hold open positions from 85° – 110° determined by mounting position
- Hold open function may be disengaged
- Hold open tension is easily adjustable

Regular Duty Parallel Arms

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Standard Arms

P9 - Standard Parallel Arm


- Forged Steel Main Arm 
 - Non-handed
 - Can be used with the 351L retrofit plate when replacing a LCN 4040 closer
- Order as 25-P9 x finish for arm only
Includes: 63-2607 - Main arm
63-3405 - Foot assembly
63-3684 & 63-2391 - Screw packs

Regular Duty Hold Open Arms

PH9 - Friction Hold Open Arm


- Forged Steel Main Arm 
 - Holds open from 75° – 180°
 - Easily adjusted by wrench
 - Non-handed
- Order as 25-PH9 x finish for arm only
Includes: 63-2229 - Main arm
61-2303 - Foot assembly
64-0039 - Foot bracket (125 PH9)
63-3684 & 63-2391 - Screw packs

P4H - Flush Frame, Friction Hold Open Arm


- Forged Steel Main Arm 
 - Holds open from 75° – 180°
 - Easily adjusted by wrench
 - Non-handed
 - Use on frames where stop or soffit is too narrow to mount the standard hold open foot bracket
- Order as 25-PH4 x finish for arm only
Includes: 63-2229 - Main arm
61-2303 - Foot assembly
64-0050 - Foot bracket
63-3684 & 63-2391 - Screw packs

Offset Brackets for use with overhead stops, holders and door coordinators


P3 - 1" Offset Bracket for use with Auxiliary Holder/Stop

- Forged Steel Main Arm 
 - For use with auxiliary surface overhead stops and holders
 - Foot bracket is offset 1" more than P-9, allowing door closer to be lowered on door face
 - Non-handed
- Order as 25-P3 x finish for arm only
Includes: 63-2607 - Main arm
63-2270 - Foot assembly
63-3684 & 63-2391 - Screw packs


P3A - 1-3/4" Offset Bracket for use with Auxiliary Holder/Stop

- Forged Steel Main Arm 
 - For use with auxiliary surface overhead stops and holders and door coordinators
 - Foot bracket lowers door closer an additional 3/4" below P3 bracket
 - Non-handed
- Order as 25-P3A x finish for arm only
Includes: 63-2607 - Main arm
63-2274 - Foot assembly
63-3684 & 63-2391 - Screw packs

P4 - Parallel Flush Frame Arm

- Forged Steel Main Arm 
 - Foot bracket is attached to frame or transom face
 - For use where stop or soffit is too narrow for the standard P9
 - Permits 120° opening with standard mounting
 - Permits 180° opening with alternate mounting
 - Non-handed
- Order as 25-P4 x finish for arm only
Includes: 63-2607 - Main arm
63-2295 - Foot assembly
63-3684 & 63-2391 - Screw pack

P4A - Flush Frame Arm for use with Auxiliary Holder/Stop

- Forged Steel Main Arm 
 - For use with auxiliary surface overhead stops and holders
 - Foot bracket is attached to frame or transom face
 - Foot bracket lowers door closer an additional 3/4" below P4 bracket
 - Non-handed
- Order as 25-P4A x finish for arm only
Includes: 63-2607 - Main arm
63-2272 - Foot assembly
63-3684 & 63-2391 - Screw packs

Tri-Packs

UO Package

- Universal arm package provides arms and brackets to install closer in standard top jamb or parallel application
- 351-UO not available with (MC) metal cover or plated finishes
- Screw pack 63-3684



UH Package

- Universal hold open arm package provides brackets and arms to install closer in top jamb, standard or parallel applications
- 351-UH not available with (MC) metal cover or plated finishes
- Screw pack 63-3684



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How to Order, Options and Finishes

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Packing

All closer assemblies are packaged 4 per carton. On request, door closers will be packed 2 per carton.

Series

351	4-Standard (2 upon request)	19 lbs. per 4
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Number per Carton

Approx. wt per Carton

How To Order

Options	Series	Closer Arm	Finish	Hand
CPC-DA	351	P4H	26	LH
31-	351	Standard	EB	LH
36-		Page 5	ED	RH
74-			EN	
CPC-		Top Jamb	EP	
DA-		Page 7	EAB	
MC-			03*	
SG-		Parallel	04*	
SRI-		Pages 9 & 10	09*	
TB-			10*	
		Track Type	10B*	
		Page 12 & 13	10BE	
			10BL*	
			14*	
			15*	
			20D*	
			26*	
			26D*	

* These finishes are automatically provided with a metal cover

Options Available

Specify	Detailed Description
31-	For doors 1-7/8" – 2-1/4" thick, specify door thickness, doors over 2-1/4" thick contact factory
36-	Security Torx Screws
74-	Lead lined cover
CPC-	Clear Powder Coat (available on 26 & 26D)
DA-	Delayed Action
MC-	Handed Metal Cover
SRI-	Special Rust Inhibitor finish for powder coated finishes only (arm)
TB-	Through Bolt (1-3/4" Std) For others, specify 31-TB- & door thickness

Note:

- The MC- option is used when a metal cover is desired on a powder coated finish
- When MC- is added to a plated finish, the MC- option indicates that only the cover is to be plated, the arms will be powder coated to match
- Do not specify the MC suffix if both the cover and arms are to be plated

How To Order

Accessories Example

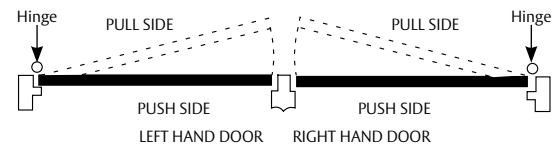
Arm Only	Specify arm required and finish	25-PSH EN
Closer Body Only	Specify: CB-351*	CB-351
Arm conversion Units	Specify unit and finish	125-P4 EB
Cover Only (Standard)	351-C x finish	351-C EN
Cover Only (Metal)	351-CMC x finish and hand & arm type	351-CMC + 26D + LH + P10

Note: When complete closer assembly is ordered with an accessory, order accessory as a separate item

*DA (Delay Action) option is available with closer body

Finishes

Finishes	ANSI/BHMA	Description
EB	695	Bronze powder coated to match finish 10B
EN	689	Aluminum powder coated
ED	693	Black powder coated to match finish 20D
EAB	696	Brass powder coated
EP	691	Bronze powder coated to match finish 10
03	605	Bright brass, clear coated
04	606	Satin brass, clear coated
09	611	Bright bronze, clear coated
10	612	Satin bronze, clear coated
10B	613	Dark oxidized satin bronze, oil rubbed
10BE	613E	Dark oxidized satin bronze - equivalent
10BL	614	Oxidized satin, bronze, clear coated
14	618	Bright nickel plated, clear coated
15	619	Satin nickel, clear coated
20D	624	Statuary dark bronze, clear coated
26	625	Bright chromium plated
26D	626	Satin chromium plated



Special Rust Inhibitor Process (SRI)

Additional process available for bracket and arms provides an extra layer of protection for extreme corrosive environments. Available with powder coated finishes only, specify SRI- as an option when ordering.