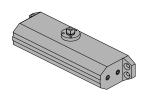
SC60 SERIES ARCHITECTURAL DIAGRAMS



SC60 Series

When you need a dependable closer for a light to medium-duty application, the Falcon SC60 Series gets the job done. Designed for interior use with an aluminum storefront, the SC60 Series offers ANSI Grade 1 durability backed by a ten-year warranty. Most common hole pattern in the industry for versatile use and easy retrofit.

Standard Features

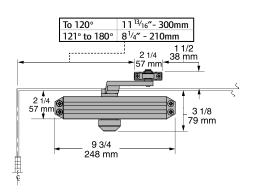
- · Meets ANSI A117.1
- ANSI/BHMA A156.4, Grade 1
- · UL Listed
- 1³/8" diameter piston
- Closer mounts hinge side, top jamb or parallel arm when either the Rw/PA or Hw/PA arm is specified.
- Adjustable sizes 1-4 (SC61), 2-5 (SC60), and fixed sizes 4 & 5.
- · Single piece cast aluminum body

- Staked valves
- · Non-handed for left or right swinging doors
- Separate adjustable general speed, latch speed and backcheck
- Heat-treated steel piston
- Heat-treated pinion
- UL 10C approved fluid
- Universal screw pack
- 10-year warranty

Listings and Certifications

The Falcon SC60 Series is UL approved and compliant with the UL 10C and UBC 7-2 (1997) fire test. Additionally, the SC61 is designed to meet the American Disabilities Act (ADA) and ANSI A117.1. The SC60 Series is ANSI/BHMA A156.4, Grade 1 certified.

SC60 Series Hinge (Pull Side)



To 120° 5%/16" - 141mm 121° to 180° 2%/16" - 65mm

Butt Hinges should not exceed 5" (127mm) in width.

Auxiliary Stop is recommended at hold-open point or where a door cannot swing 180° .

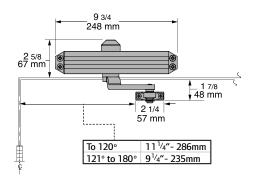
Reveal should not exceed $^{3}/_{4}$ " (19mm) for regular arm or hold-open arm.

Clearance of $2^{3/4}$ " (70mm) behind door required for 90° installation.

Delayed Action add suffix "DEL" to selected cylinder (ex. SC60 DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.

FALCON

SC60 Series Top Jamb (Push Side)



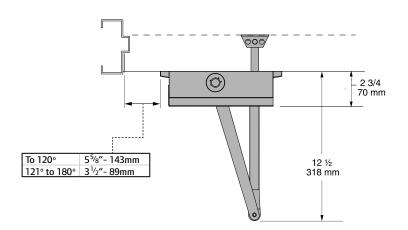
Butt Hinges should not exceed 5" (127mm) in width.

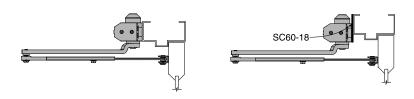
Auxiliary Stop is recommended at hold-open point or where a door cannot swing 180° .

Reveal should not exceed $3^{1/4}$ " (83mm) for regular arm or hold-open arm.

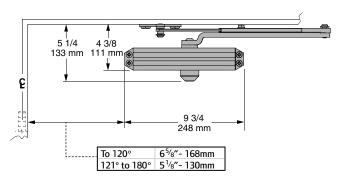
Head Frame less than $1^{3}/4''$ (44mm) requires plate SC60-18.

Delayed Action add suffix "DEL" to selected cylinder (ex. SC60 DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.





SC60 Series Parallel (Push Side)

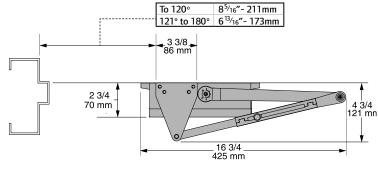


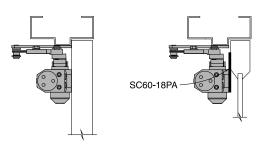
Butt Hinges should not exceed 5" (127mm) in width.

Auxiliary Stop is recommended at hold-open point or where a door cannot swing $180\,^{\circ}.$

Top Rail less than $4^{3}/8''$ (111mm) measured from stop requires plate SC60-18PA.

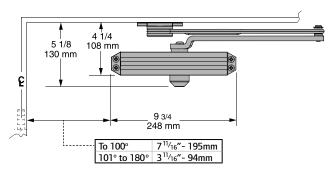
Delayed Action add suffix "DEL" to selected cylinder (ex. SC60 DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.





SC60 SERIES ARCHITECTURAL DIAGRAMS

SC60 Series Heavy Duty (Parallel)

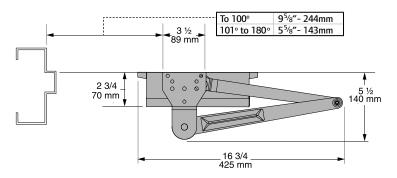


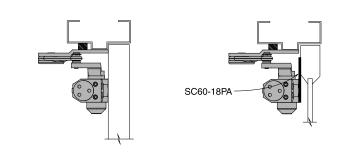
Butt Hinges should not exceed 5" (127mm) in width.

Auxiliary Stop is recommended at hold-open point, where a door cannot swing 180°, or where Dead Stop or Spring-n-Stop arm is not used.

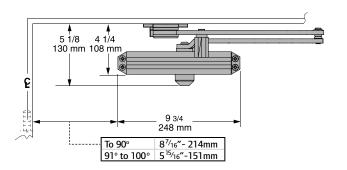
Top Rail less than $4^{1/4}$ " (108mm) measured from stop requires plate SC60-18PA.

Delayed Action add suffix "DEL" to selected cylinder (ex. SC60 DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.





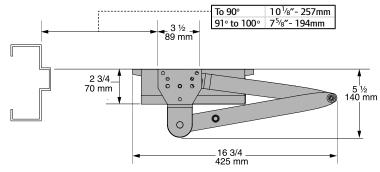
SC60 Series Dead Stop HO (Parallel)

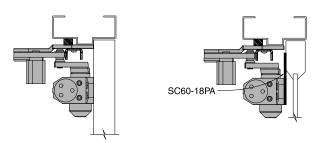


Butt Hinges should not exceed 5" (127mm) in width.

Top Rail less than $4^{1/4}$ " (108mm) measured from stop requires plate SC60-18PA

Delayed Action add suffix "DEL" to selected cylinder (ex. SC60 DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.





FALCON

All SC60 Series closers come with standard arm and screw pack.

Arm Types



Regular Arm, SC60-3077PA

Non-handed arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



Hold-Open Arm, SC60-3049PA

Optional, non-handed, hold open arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



Heavy Duty Regular Arm, SC60-3077HD

Optional, non-handed, stamped, heavy duty, parallel arm for use in high-traffic applications.



Dead Stop Arm, SC60-3077DS

Optional, non-handed, stamped, heavy duty, parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.



Dead Stop Hold-Open Arm, SC60-3049DS

Optional, non-handed, stamped, heavy duty, hold-open parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.



Spring-n-Stop Arm, SC60-3077SS

Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.



Spring-n-Stop Hold-Open Arm, SC60-3049SS

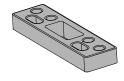
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.





Soffit Shoe Support, SC60-30

Provides anchorage for fifth screw used with soffit shoe, where reveal is less than $3^{1/16}$ " (78mm).



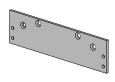
Blade Stop Spacer, SC60-61

Required to lower parallel arm shoe to clear $\frac{1}{2}$ "(13mm) blade stop.



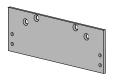
Auxiliary Shoe, SC60-62A

Requires a top rail of 7" (178mm). Optional shoe replaces PA shoe for parallel arm mounting of regular arm with overhead holder/stop.



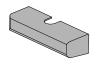
Plate, SC60-18

Required for top jamb mounting where head frame is less than $1^{3}/4''$ (44mm).



Plate, SC60-18PA

Required for parallel arm mounting where top rail is less than $4^{3}/8''$ (111mm) for PA, $4^{1}/4''$ (108mm) for HD and DS, measured from the stop. Plate requires $2^{3}/8''$ (60mm) minimum top rail measured from stop.



Cover, SC60-72

Optional, non-handed, slim line plastic cover. Available on SC60 and SC61 only.

HOW TO ORDER

How to Orde	er SC60 Series	Cylinder	Size	Cover	Finish	Arm	Accessories
STD DEL	Standard Delay (optional, available with SC60/61 only, please specify)						
1-4 2-5 4 5	SC61 SC60 SC64 SC65						
Slim	SC60-72 (optional, available with SC60/61 only, please specify)						
Aluminum Dark Bronze Brass							
Rw/PA Hw/PA HD DS DS/HO SS SS/HO	Regular with Parallel Arm Shoe Hold Open with Parallel Arm Shoe Heavy Duty Arm Dead Stop Arm Dead Stop Hold Open Arm Spring Stop Arm Spring Stop Hold Open Arm						
Soffit Shoe Support Blade Stop Spacer Auxiliary Shoe Plate Plate PA	SC60-30 SC60-61 SC60-62A SC60-18 SC60-18PA						

How to Orde	er SC70 Series	Cylinder	Size	Cover	Finish	Arm	Accessories
STD DEL	Standard Delay						
1-6	SC71						
Full	SC70-72						
Aluminum Dark Bronze Brass							
Rw/PA Hw/PA HD DS DS/HO SS SS/HO	Regular with Parallel Arm Shoe Hold Open with Parallel Arm Shoe Heavy Duty Arm Dead Stop Arm Dead Stop Hold Open Arm Spring Stop Arm Spring Stop Hold Open Arm						
Soffit Shoe Support Blade Stop Spacer Auxiliary Shoe Plate Plate PA	SC70-30 SC70-61 SC70-62A SC70-18 SC70-18PA						

COMPETITIVE CROSS REFERENCE AND SAMPLE SPECIFICATIONS

Competitive Cross Reference

Surface Closer Cross Reference				
Dor-O-Matic	SC71 ¹	SC80 ² , SC81 ²	SC60³, SC61³	SC94 ⁴ , SC91
Corbin	DC6000	3210M76 (3210)		4604M70
Dorma	8916	86162 ²	640BCPA ³ /7302 ³	644BCPA ⁴ /7203
Norton	7500 ¹ /7700	P8300 (P8500) ²	P1600BC ³	P9304BC⁴
Sargent	351	1430/1330 ²	11303³	
Stanley	D-4550	D-3550	1650	
Yale	P400	P3300 (P3500) ²	P51BC³	P2304BC4 ⁴

¹ Indicates identical footprint, ² Ir	ndicates identical footprint,	³ Indicates identical footprint,
⁴ Indicates identical footprint		

Concealed Closer Cross Reference			
Dor-O-Matic	OHC100 Series		
Dorma	RTS88		
Global	TC7000		
International	Series 100 and Series 200		
Jackson	20-330		
Kawneer	Husky II		
Rixson	608, 0608, 700, 0700, 800		
Sentinel	30 Series		
Stanley	30 Series		

Sample Specifications

Large Cylinder Closer

- 2.01 Closers and Door Control Devices
- A. Where manual closers are indicated for doors required to be accessible to the physically challenged, provide adjustable units complying with ANSI A117.1 provisions for door opening force and delayed action closing.
- B. Shall conform to ANSI A156.4, Grade 1, NFPA 80, NFPA 101 and UL10C.
- C. Closers shall be aluminum construction with steel lever arms, independent adjusting valves for closing, latching and back check. Hydraulic regulation controlled by tamper-proof, non-critical screw valves. All closer adjustments shall be shielded by plastic cover after installation. Pressure relief valve, PRV, doors closers will not be permitted.
- D. Full rack-and-pinion type closer, single-piece forged piston, chrome silicon steel spring, non-critical screw valves; backcheck, main speed and latch.
- E. Closers to be non-sized, field adjustable from size 1 to 6.
- F. Furnish all large cylinder non-sized closers with minimum 1 ½" diameter piston.
- G. Install closers to allow maximum degree of opening, position backcheck to activate well in advance of the stop position to cushion the swing and prevent door and frame damage. Do not use door closer to stop door travel. Unless specified, install closers with thru-bolt mounting method on metal and wood doors. Do not thru bolt if there has been special blocking specified in the wood door specification. Coordinate with the wood door specification.
- H. Available manufacturers: Subject to compliance with requirements. See competitive cross reference above.

CYLINDER OPTIONS AND WARRANTY

FALCON

Cylinder Options

Standard Cylinder (STD) – Standard cylinder provides a main speed function to control the motion of the door from maximum opening angle until the door is a few inches from the latch where latch function controls the final closing motion. The opening swing is controlled by the hydraulic backcheck function from about 70° to maximum opening angle.

Without Backcheck (WOBC) – Special cylinder provides a main speed function to control the motion of the door from maximum opening angle until the door is a few inches from the latch where latch function controls the final closing motion.

Delayed Action Cylinder – Special cylinder provides a separate adjustable delayed closing motion from maximum opening angle to approximately 70°. Then the main speed function controls the door motion until the door is a few inches from the latch where latch function controls the final closing motion. During the opening swing the door is controlled by the hydraulic backcheck function from about 70° to maximum opening angle.

WARRANTY

Falcon Door Hardware warrants its mechanical offering of locks, exit devices and door controls products manufactured to be free from defects in materials and workmanship for a period of **TEN (10) YEARS** from the date of manufacture with the exception of the products detailed in the table below. The terms and conditions of this new warranty apply to Falcon Door Hardware shipments made on or after November 1st, 2008.

This limited warranty does not cover products that (i) are not the proper size for the application; (ii) are not installed in accordance with Falcon's published installation instructions; (iii) are installed with improper or incorrect parts; (iv) have been, in the opinion of Falcon, modified, repaired, or altered in any way without the express written consent of Falcon; (v) are used for purposes which they are not designed or intended; (vi) are subjected to misuse, abuse, negligence, or accident; or (vii) are grade 2 products used in educational facilities. The following costs and expenses are not covered by the provisions of this limited warranty; (i) labor costs for the removal and reinstallation of products; (ii) shipping and freight expenses required to return products to Falcon; (iii) normal maintenance; and (iv) economic losses. **THE PREVISIONS OF THIS WARRANTY DO NOT APPLY TO FINISHES**.

Falcon will replace the products which, in the opinion of Falcon, are found to be defective, provided said products are returned to Falcon.

FALCON SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES FOR ANY CLAIM WHETHER BASED ON CONTRACT; WARRANTY, TORT (INCLUDING, BUT NOT LIMITED TO, STRICT LIABILITY OR NEGLIGENCE), PATENT INFRINGEMENT, OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This limited warranty is in place of all other warranties, expressed or implied, and excludes any warranties of fitness for a particular purpose or merchantability. No agent, representative, dealer, or employee of Falcon has the authority to increase or alter the obligations of this limited warranty.

Note: Should the Product be considered a "consumer product" as may be covered by the Magnuson-Moss Federal Warranty Act, please be advised that: (1) Some states do not allow limitations on incidental or consequential damages or how long an implied warranty lasts, so that the above limitations may not fully apply; and (2) This warranty gives specific legal rights and a user may have rights which may vary from state to state.

Falcon, Ingersoll Rand Security Technologies, 121 West Railroad Avenue, Princeton, Il 61356

PRODUCT EXCEPTION	WARRANTY
OHC100A CONCEALED CLOSERS	5 YEARS
ELECTRONICS/ELECTRIFIED	1 YEAR