A Technical and Informational Newsletter From Dugmore & Duncan

Out of the blue

Spring 2008 Vol. VII - Issue II
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Exceeding the Expectations of Quality and Reliability

8800 Series

ANSI/BHMA A156.13, Series 1000, Operational Grade 1

The value of any product is equal to the quality of the labor and materials put into making it. Yale's 8800 Series mortise lock is a perfect example that true quality doesn't just happen. Meticulous design and engineering have gone into manufacturing a mortise lock that brings you versatility as well as uncompromising strength and durability.

With quick lever handing and a patented (Patent No. 7,108,300) quick reversible latchbolt, lockset handing takes only seconds. Add a standard non-handed curved lip strike, and you have a no-hassle mortise lock that's quick and easy to install.

When it comes to strength, the Yale® 8800 Series brings a new measure of security to the door. Its 1" throw stainless steel deadbolt extends further back into the reinforced steel case when in the locked position, providing added stability and resistance to abuse. Solid trim packages also provide deterrence to vandalism, making the 8800 Series a prime player in your total opening security package.

Features and Benefits

- Fronts are freefloating to adjust from flat to the standard bevel of 1/8" in 2"
- Supplied as standard for 1-3/4" - 3-1/4" thick doors
- Conform to ANSI/BHMA Specifications A156.115 steel doors and steel frames and A156.115-W wood doors with wood or steel frames.
- Locks with the same trim on both sides (knob x knob or lever x lever) are field reversible.

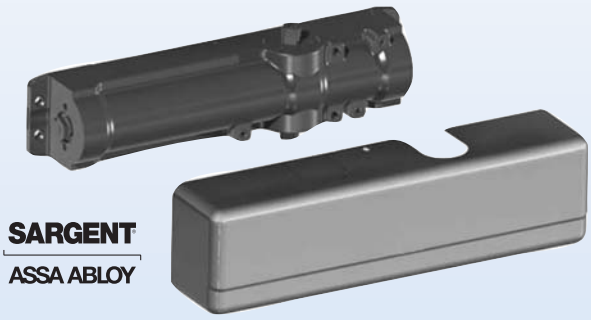
What's Inside

DUGMORE DUNCAN

Securing Your World

New Products from the ASSA Abloy Group Companies

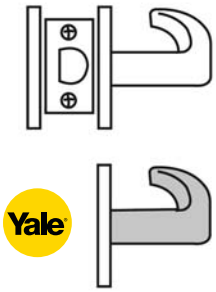
SARGENT® 421 Series Cam Action Closer
The 421 Cam Action Door Closer provides the highest performance of any track type door closer made today. Its innovative cam action design applies the closing forces in exactly the proper locations for smooth and efficient operation. The result is a door that is light to open and still has more than enough power to close.



The 421 Cam Action Door Closer is equipped standard with an integral adjustable rubber bumper and stop. This bumper works with the backcheck for enhanced door control. An adjustable hold open latch is available as an option.

Yale® Anti-Pry Bracket for 7000 Series Exit Device
Yale Commercial Locks and Hardware is pleased tointroduce an Anti-Pry Bracket for 7100 Rim and 7150SquareBolt® Exit Devices. The Anti-Pry Bracket offers end users increased security by improving resistance against jamb spreading during a pry attack. When the door is in the closed position, the Anti-Pry Bracket interlocks in position between the exit device strike and frame preventing the strike and exit device latch from being separated.

Yale® RL Series Functions and UL Listing
Yale Commercial Locks and Hardware is pleased to introduce an expansion to the RL Series Tubular Lock offering. RL Series Tubular locksets are now available UL-cUL Listed for use on fire doors having a rating up to and including 3-hours. This option can be ordered by suffixing "F" to the model number. Yale has also expanded the function offering for the RL Series and the following functions have been added: RL228 Communicating Passage Latch & RL255S Dummy Trim



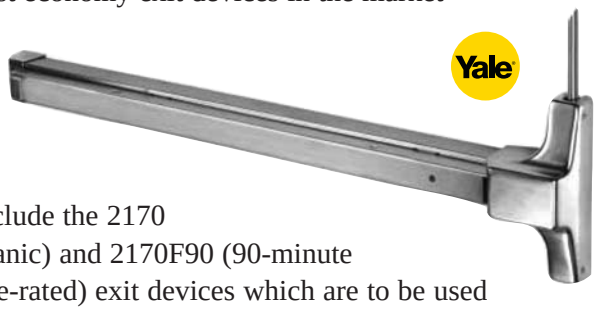
Corbin Russwin® 613 & 722 Finishes
Corbin Russwin Announces 613 (10B Brown) & 722 (10B Black) Finish Enhancements The 613 (10B-Brown; Dark Oxidized Satin Bronze, Oil Rubbed) finish hardware will be manufactured with a newly enhanced coloring process, that exhibits a traditional brown color. This innovative method, which includes newly developed coloring and oiling processes, will come standard on all Corbin Russwin 613 finish orders. A new 722 (10B-Black) finish designation is being introduced to specify Corbin Russwin's current dark black finish color.

613 (10B Brown) 722 (10B Black)

EXCEPTION: The new Museo™ decorative lever collection already uses 613 for 10B-Brown and 722 for 10B-Black finish colors.

Yale® 2100 SVR

Yale Commercial Locks and Hardware is pleased to announce the introduction of the 2170 Series Surface Vertical Rod exit devices. New members in the family of the best economy exit devices in the market



include the 2170 (panic) and 2170F90 (90-minute fire-rated) exit devices which are to be used when two-point latching is desired in doors up to 10', and the 2170LBR (panic) and 2170F90LBR (90-minute fire-rated) exit devices used when a less bottom rod application is preferred.

The 2170 Series exit devices are available in high quality finishes of baked powder coatings, which resist rust and abrasion, offering cosmetic and functional life to match that of architectural finishes as offered on the out side trim. Yale also offers a Satin Stainless Steel architectural-grade finish for the 2100 Series), which adds a dimension of versatility, making it a perfect fit for prominent entryways in office buildings, department stores, movie theaters, and other venues that call for a blending of unmatched performance and style.

HES® RF5010-IA, RF5010-EA, RF5020-IA & RF5020-EA

Introducing the first-ever electric strike with an integrated proximity card reader. Combining the access control of an HID® Prox reader with the physical security of a Grade 1 electric strike, these devices encompass everything in the frame for faster installation and superior aesthetics. Designed to work with any Weigand-compatible controller, the RF5010-IA is a single unit with an internal antenna, accommodating 5/8" latchbolts in outswing applications. The RF5010-EA features an external antenna, for flexible location in either inswing or outswing applications. RF5020-IA and RF5020-EA are similar to the RF5010-IA and RF5010-EA but offer in-frame horizontal adjustability.

RF5010-EA
RF5020-EA

RF5010-IA
RF5020-IA

hes
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Securitron® BPS-12/24-1 Boxed Power Supply

The new BPS-12/24-1 Boxed Power Supplies are recommended for use with the most voltage sensitive electronic safety and security components including card readers, electric strikes, motion sensors and DC voltage cameras. They are also recommended where an interface with a fire alarm system or battery backup is needed. The BPS 12/24-1 is UL Class 2 listed, allowing for wire runs without the use of conduit from power supply to door.

Features and benefits include dual output, field selectable 12 or 24 VDC via clearly marked toggle switch and supplies 1 full AMP continuous current output, even while charging back-up batteries.

SECURITRON
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SPDT AC monitoring output allows for remote monitoring of the power supply's 110V AC input. Separate voltage inputs for load and battery allow the batteries to charge at a higher output while the load remains at exactly 12 or 24 VDC Polyswitch type breakers allow for large short duration inrush current if batteries are installed (approx. 20A for 1 second).

The Original Aluminum Storefront Door Closer

Norton® 1601BF 689 SNB Door Closers

The Norton 1601BF aluminum storefront door closer is possibly the most widely used door closer for standard commercial applications. Here are a few reasons why; 1601BF closer bodies are constructed from a special aluminum alloy housing carefully selected to accommodate interaction with steel components and operating conditions.

The rack & pinion operation provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not limit door swing.

With few exceptions, 1601 door closers are non-handed and can be installed on either right or left hand swing doors. Pinion shaft extends vertically through the closer body in both directions. This permits the closer to be positioned on either right or left hand doors for most applications.

NorGlide® door closer fluid is a specially formulated hydraulic fluid that contains lubricity and antioxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and zinc components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

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Determining the Rail Size & Compatibility for SARGENT's ED56 Retrofit Kit

SARGENT's 56-prefix Electric Latch Retraction exit device is the perfect choice for high traffic egress doors that require access control. Utilizing the latch retraction motor rather than a solenoid ensures a quiet and smooth operation with a low current draw. Upgrading existing SARGENT 80 series mechanical rails is effortless with the introduction of the ED56 retrofit kit.

To assure the correct kit has been ordered you will need to specify the rail size. This can be done by measuring the distance between pivots located on the sides of the push rail assembly and matching them up to rail sizes shown below.

Specify Rail Size (E, F, J & G)

To determine rail size measure pivot to pivot

- 8-1/2" = "E" Rail
- 11-1/4" = F" Rail
- 14" = "J" Rail
- 20-1/2" = "G" Rail

Minimum insert length required for electronics

- For 56-: 5"
- For 56- with 16-: 7"

ED56 kit includes the following

- Motor, Bracket and Push Rail Assembly
- Mounting Fasteners
- Motor Controller
- Wire Harness

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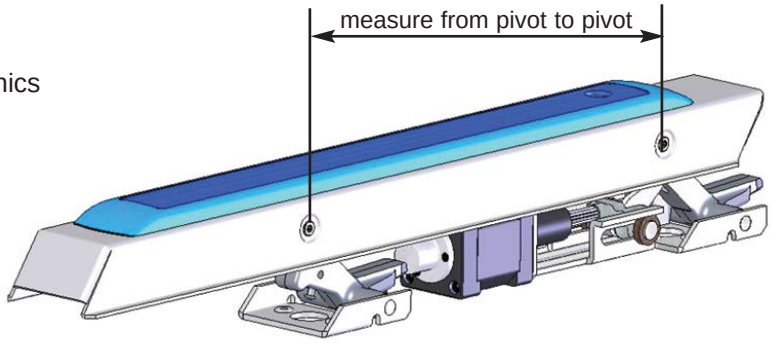
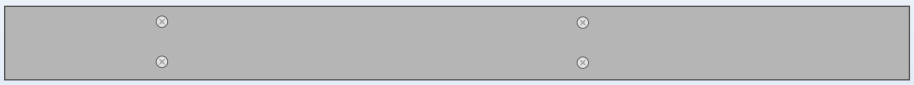


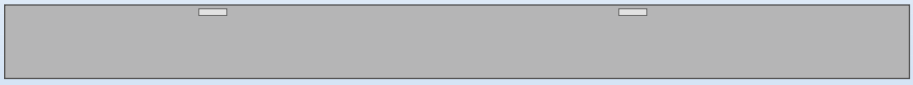
Push Rail Assembly

To determine if your exit can be modified with the retrofit kit check the bottom of the rail. Non-electrified rails (Manufactured after 1995) have screws located on the bottom and can be retrofited. Non-electrified rails with slots cannot be retrofited with the ED56 kit.



Bottom of rail with screws **can** be used with retrofit kit.

Bottom of rail with slots **cannot** be used with retrofit kit.



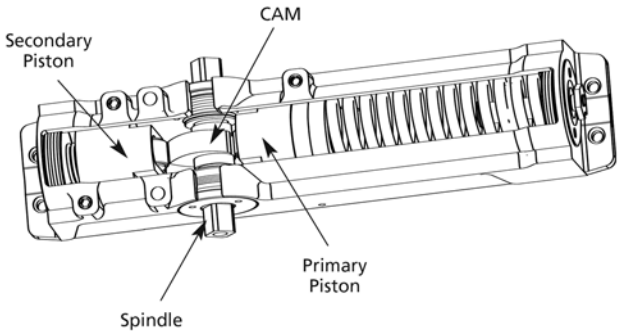
A kit is also available with the 55-prefix (request to exit) option. Example: 55 ED56 J 32D

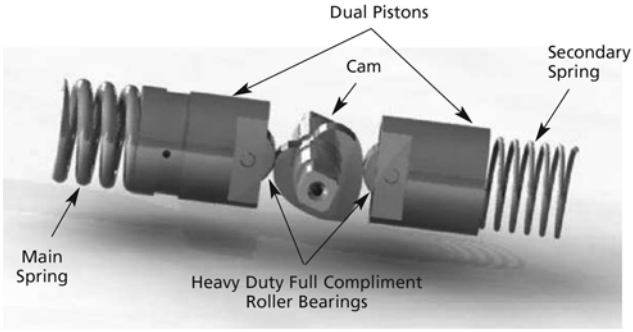
How Cam Action Closers Work

Cam action door closers are designed to meet the opening force requirements established by the Americans with Disabilities Act (ADA) limiting the opening force to 5 pounds for interior doors and 8 pounds for exterior doors. But how do they work?

Conventional door closers are restricted by the linear gear ratio of the rack and pinion. This results in a constant application of spring force as the door opens and closes. While this is very effective in double lever arm applications, single lever track arm applications have limitations.

The shape of the cam is the heart of the cam action door closer. The cam controls the application of the

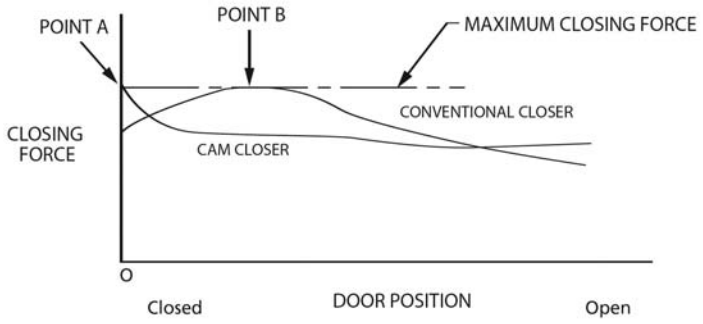




spring forces and is carefully designed to apply those forces in the most effective manner for track type applications.

Cam action door closers have the highest efficiency of any surface mounted door closer on the market today. This means that a door equipped with this closer will feel light to open and have plenty of power to overcome stack pressure or other problems at latch. The high efficiency comes from its advanced design. Closing forces are applied to the spindle through the continuous smooth surface of the cam and hardened roller bearing follower. The dual pistons' simplified design provides a superior internal seal and reduced friction within the closer.

The cam action closer exerts the strongest closing force at latch where it is needed the most to overcome stack pressures. The Graph below shows the closing cycle of a conventional closer verses a cam action closer.



Point A - The Cam Closer has the maximum closing force at the point the door is closing

Point B - The Conventional Closer has the maximum closing force in the middle of the cycle rather than at the closing point where the latch engages the strike.