



Surface Applied
Door Closers

DORMA 8600


The 8600 Series closer represents the next generation of door control designed to exceed the demands of today's buildings.

With features like the full range spring power adjustment, the 8600 Series closer provides the flexibility needed to meet the many demands of commercial and institutional applications, including ADA barrier-free accessibility requirements.

This door control also features a **backcheck positioning** adjustment for parallel arm applications, to maintain an ANSI backcheck range similar to regular and top jamb applications. The modern slim cover, flat form arm, and architectural finishes provide the aesthetic qualities required of architectural grade closers.

In addition to all of these superior features, the 8600 Series is backed by DORMA's unprecedented 25-year warranty.

Technical Details:

-  Available as 8616 closers for interior and exterior doors.
- Meets barrier-free requirements (adjustable size 1 thru 6).
- Non-handed for regular, top jamb and parallel arm applications.
- Adjustable backcheck standard. Controls opening motion during abusive or abrupt opening.
- Backcheck positioning valve standard. Maintains effective backcheck range on parallel arm applications. Valve is accessible with the closer installed.
- Optional delayed action adjustable with a separate independent valve. Delays door closing to allow unobstructed passage through the opening.
- Slim plastic cover standard. Full plastic or metal cover optional.
- Designed to minimize change in closing speed during severe temperature changes.
- Aesthetically pleasing and easy to adjust steel flat form arm assembly.
- A full complement of optional arms, plates, and brackets available for special applications.

Certification:

The DORMA 8600 Series is listed by U.L. and C.U.L. under their continuing reinspection programs. The 8600 Series is certified to the requirements of ANSI A156.4 Grade 1. Meets the requirements for UL10C and UBC 7.2 (1997) for positive pressure. Meets ANSI A117.1 and ADA for barrier-free accessibility. California State Fire Marshall (CSFM) approved.

Specification:

The architectural grade 8600 Series is a non-handed surface applied door closer with adjustable spring power and backcheck positioning adjustment. Adjustable hydraulic backcheck will take effect at approximately 70°.

Features	8616
Adjustable spring size	1– 6
Non-handed	•
Parallel arm bracket	•
Full line of specialty function arms and plates	•
Backcheck positioning adjustment	•
Controlled closing with two independent adjustable valves	180°–10° 10°–0°
Backcheck	•
Delayed action	○
Hold open	○
Self-tapping screws	○
Slim plastic cover	•
Full cover (metal or plastic)	○

• yes - no ○ optional

The 8600 has two independent, noncritical adjustment valves to control sweep and latch closing speeds. The backcheck positioning valve assures an effective ANSI backcheck range on parallel arm applications. All closers to have field adjustable spring power from size 1 to 6 and meet barrier-free requirements. Closers to have a slim plastic cover and a wide range of arm options.

Optional Specifications:

The 8600 Series closer will have optional delayed action (DA). Delayed action range will be effective from maximum opening to approximately 65°. All 8600 closers to have full metal cover (FMC) or full plastic cover (FC). All 8600 closers to have sex nuts with machine screws for 1-3/4" door (SNB1) or 1-3/8" door (SNB2). Closers to have self-tapping screws for metal doors and frames (TPK86). Closers to have TORX security for all exposed fasteners (TX86).

Warranty: 25 years.

Finishes:

Standard Sprayed Finishes:

Aluminum: 689.
Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic).
Gold: 696.
Black: 693.

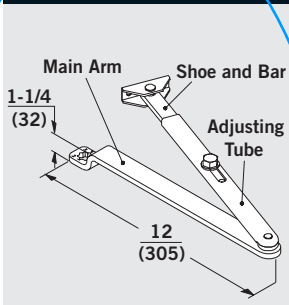
Optional Special Color Sprayed Finishes: Specify code number or submit 3 color chip samples.

Optional Plated Finishes:

Brass: 605 (Bright) or 606 (Satin).
Bronze: 611 (Bright), 612 (Satin), or
613 (Oxidized Satin Oil Rubbed).
Nickel: 618 (Bright) or 619 (Satin).
Chrome: 625 (Bright) or 626 (Satin).

How to Order 8600 Series		Example:
Size	Adjustable 1–6	8616
Application	No Designation - Regular mount P - Regular, top jamb and parallel mount J - Top jamb mount	8616 AF86 8616 AF86P 8616 AF86J
Body Option	DA - Adjustable delayed action COV - Slim plastic cover FC - Full plastic cover FMC - Full metal cover (specify hand for TJ, T, and FT applications)	8616DA 8616 COV 8616 FC 8616 FMC
Arm	AF86 - Flat form non-hold open (regular mount) AF86J - Flat form non-hold open (top jamb mount) AF86P - Flat form non-hold open (parallel arm mount) AR - Round form non-hold open (regular mount) ARJ - Round form non-hold open (top jamb mount) ARP - Round form non-hold open (parallel arm mount) FH - Friction hold open (regular mount) FHJ - Friction hold open (top jamb 4" to 8" reveal) FHP - Friction hold open (parallel arm) PH - Plunger hold open (regular or [top jamb 0" to 1-1/2" reveal]) PHP - Plunger hold open (parallel arm or [top jamb 1-1/2" to 3-1/2" reveal]) IS8 - Dead stop arm (regular mount) ISJ - Dead stop arm (top jamb 4" to 6" reveal) SPA8 - Super parallel arm SPAT8 - Super parallel arm, thumb turn hold open SPAK8 - Super parallel arm, hex key turn hold open DS8 - Door saver parallel arm DST8 - Door saver parallel arm, thumb turn hold open DSK8 - Door saver parallel arm, hex key turn hold open T - Slide track arm T, JT, and FT applications TH - Slide track arm T, JT, and FT applications with hold open PT86 - Stop mounted slide track arm PT86H - Stop mounted slide track arm with hold open TDE - Jamb mounted slide track arm, double egress (specify hand) TDEH - Jamb mounted slide track arm, double egress with hold open (specify hand)	8616 AF86 8616 AF86J 8616 AF86P 8616 AR 8616 ARJ 8616 ARP 8616 FH 8616 FHJ 8616 FHP 8616 PH 8616 PHP 8616 IS8 8616 ISJ 8616 SPA8 8616 SPAT8 8616 SPAK8 8616 DS8 8616 DST8 8616 DSK8 8616 T 8616 TH 8616 PT86 8616 PT86H 8616 TDE L 8616 TDEH L
Accessories	Specify the number of the accessory. See pages 22 thru 27 for accessories.	8616 TX86
Fastener Packs	TX86 - Tamper-resistant TORX screws TPK86 - Self-tapping screw pack for metal doors and frames SNB - Sex nuts (see information on page 27)	8616 TX86 8616 TPK86 8616 SNB1
Finish	See DORMA finish information in this brochure. Example: 689 = Aluminum	8616 689

Flat Form Arm



Standard flat form arm for 8600 Series closers. Arm is non-handed.

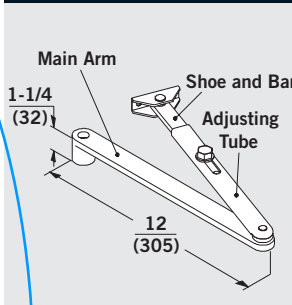
AF86 — Flat form complete arm for regular, top jamb (0"–4" [0 mm–102 mm] reveal) and parallel arm.

AF86J — Flat form arm complete for top jamb (4"–8" [102 mm–203 mm] reveal).

AF86P — Parallel flat form complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). P86 included.

AMF86 — Regular flat form main arm and adjusting tube.

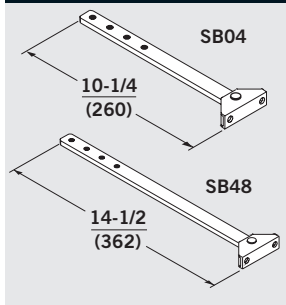
Flat Form Arm for MJ



AF3MJ — Regular flat form arm complete for use with MJ (mortise jamb) bracket. MJ bracket ordered separately.

MJ bracket ordered separately.

Flat Form Arm Shoe and Bar

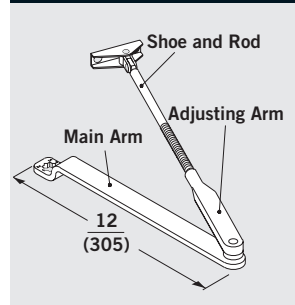


SB04 — 0"–4" (0 mm–102 mm) reveal. Shoe and bar only.

SB48 — 4"–8" (102 mm–203 mm) reveal. Shoe and bar only.

SB04 and SB48 must be used in conjunction with AMF86. Non-handed.

Round Form Arm (8 mm rod)

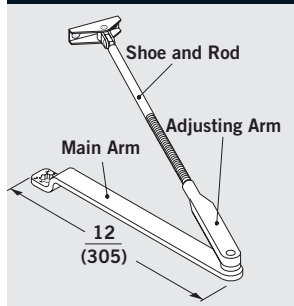


AR — Complete Arm Assembly (0"–4" [0 mm–102 mm] reveal) with 8 mm rod. Optional arm with 8600 Series closers. Arm is non-handed.

ARP — Parallel round form arm complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). P86 included.

AMR04 — Regular non-hold open main arm and adjusting arm. Accepts 8 mm rod.

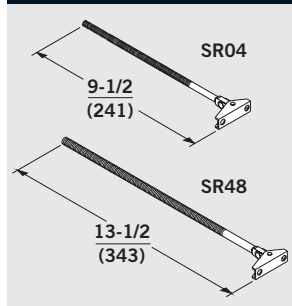
Round Form Arm (10 mm rod)



ARJ — Complete Arm Assembly (4"–8" [102 mm–203 mm] reveal) with (10 mm) rod. Designed specifically for top jamb applications with deeper reveals. Arm is non-handed.

AMR48 — Regular non-hold open main arm and adjusting arm. Accepts 10 mm rod.

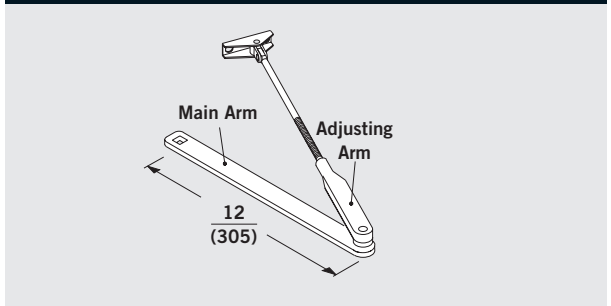
Regular Arm Shoe and Rod



SR04 (8 mm Rod Diameter) (0"–4" [0 mm–102 mm] reveal). Shoe and rod only.

SR48 (10mm Rod Diameter) (4"–8" [102 mm–203 mm] reveal). Shoe and rod only. SR04 has an 8 mm rod and must be used in conjunction with main arm and adjusting arm AMR04. The SR48 has a 10 mm rod and must be used with main arm and adjusting arm AMR48. Non-handed.

Narrow Profile Arm (8 mm)

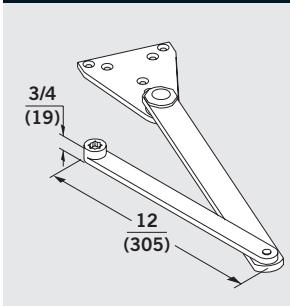


ARNP — Complete arm assembly. Regular or top jamb mount. Permits installation on 1" (25 mm) frame face for regular mount with maximum pull-side reveal of 1/8" (3 mm) or less. Can also be used top jamb (0"–4" [0 mm–102 mm] reveal) for narrow top door rails. Arm is non-handed.

ARNPP — Complete arm assembly for parallel arm mount (Tri-Pack). (0"–4" [0 mm–102 mm] reveal). P86 included.

AMR04NP — Narrow profile main arm and adjusting arm. Used in conjunction with SR04 shoe and rod. Uses 8 mm rod.

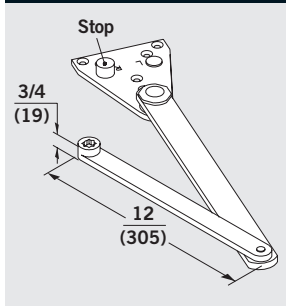
Super Parallel Arm



Heavy-duty parallel arm. Available in non-hold open, thumb turn hold open, and hex key turn hold open. Units can be installed for maximum opening of 100° or 180°. Hold open units will hold open at 90° or 125°. Maximum opening is 180° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

- SPA8** — Non-hold open.
- SPAT8** — Thumb turn hold open.
- SPAK8** — Hex key turn hold open.

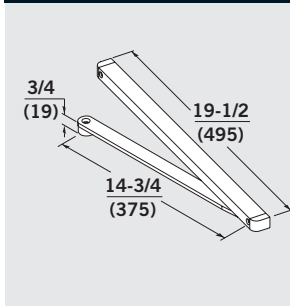
Door Saver Arm



Heavy-duty parallel arm with integral dead stop function. Available in non-hold open, thumb turn hold open, and hex key turn hold open. Units can be installed to achieve either stop or stop and hold open at 85°, 90°, 100°, and 110°. Maximum opening is 110° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

- DS8** — Dead stop only.
- DST8** — Dead stop and thumb turn hold open.
- DSK8** — Dead stop and hex key turn hold open.
- BUMPERDS-** Door saver bumper.

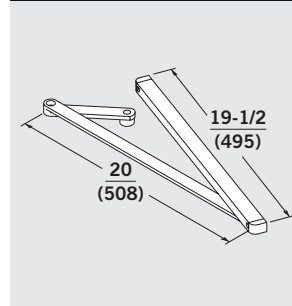
Track Arm



Provides slide track function for improved aesthetics and vandal resistance. Units can be installed to provide 85°, 90°, 110°, or 180° of door opening (conditions and application permitting). Arm is non-handed.

- T** — Track arm complete. Can be used on pull-side T applications (closer on door, track on frame) and JT applications (track on frame, closer on door). Can also be used with FT flush transom applications (closer on transom, track on door).
- TH** — Track hold open arm complete. Can be used in same applications as T arm. Range of hold open and maximum opening varies with mounting application.

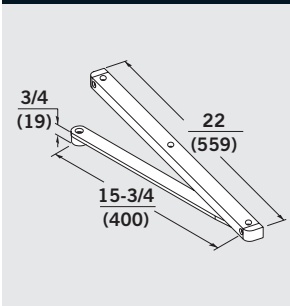
TDE Track Arm



Provides slide track function for pull-side reveal conditions up to 3-1/2". Provides 125° of door opening (conditions permitting). Arm is handed. Also available with hold open option to provide selective single point hold open between 30° and 110°. Arm requires a minimum 3-3/4" clearance between door face and wall when opened 90° and greater.

- TDE** — Double egress track arm complete.
- TDEH** — Double egress hold open track arm complete.

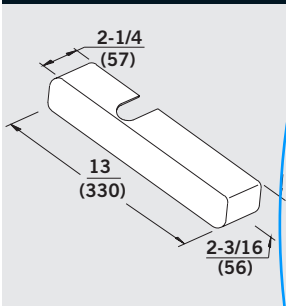
Push Side Track Arm



PT86 — Push-side track arm complete. Used with PT track applications (closer on door, track on soffit).

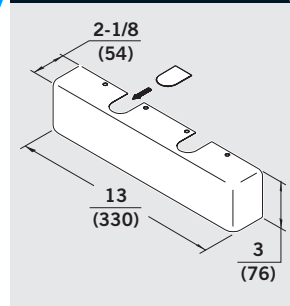
PT86H — Push-side track hold open arm complete. Used with PT track applications (closer on door, track on soffit).

Slim Plastic Cover



COV — Slim plastic cover furnished standard with 8600 Series closers.

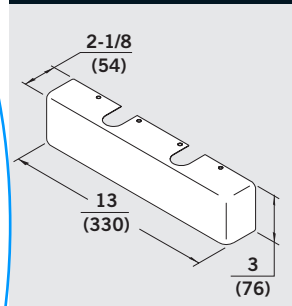
Full Plastic Cover



FC — Full plastic cover with interchangeable tab.

FCSL — Full plastic slotted cover with interchangeable tab. Mounting holes slotted for low ceiling conditions.

Full Metal Cover



FMC — Full metal cover. Specify hand for top jamb, T track, and FT track applications.