

BTS80

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Floor Concealed Door Closers

BTS80 SERIES FLOOR-CONCEALED DOOR CLOSER

Dependable and Versatile Floor-Concealed Closer



The BTS80 Series of floor-concealed door closers offers adaptability to almost any installation.

The closer's compact body permits its use where a larger closer would be prohibitive. Versatility allows installation in thin slab concrete subfloor construction. A wide selection of

interchangeable spindles makes the BTS80 suitable for virtually any floor covering or threshold application. Because the BTS80 can control exceptionally heavy single- and double-acting doors, you can incorporate the floor closer into almost any design to meet most materials, size, and weight requirements.

Trouble-free performance under adverse climatic and traffic conditions makes the BTS80 floor-concealed closer dependable and a perfect choice for even the most rigorous applications. For total control and uncompromising creativity for any door opening, specify a BTS80 floor-concealed closer.

DORMA USA quality and environmental management systems in Reamstown, PA and Steeleville, IL are certified to ISO 9001:2008 and ISO 14001:2004.



Intertek



Intertek

Features	BTS80	BTS80	BTS80 F
ANSI Spring Size	3	4, 6	5
Non-handed unit suitable for both single-and double-acting doors	•	•	–
Controlled closing with two adjustable valves	175°–70° 70°–0°	175°–70° 70°–0°	180°–70° 7°–0°
Mechanical backcheck	–	•	•
Delayed Action	•	•	–
Multipoint hold open between 75° and 175°	•	•	–

• yes – no

SPECIFICATIONS

Certification

The DORMA BTS80 F Series is listed by U.L. and C.U.L. under their continuing reinspection programs.

The DORMA BTS80 Series is certified to the requirements of ANSI/BHMA A156.4 for grade 1 closers.

Specifications

All floor-concealed door closers shall be DORMA BTS80 Series employing a cam and roller mechanism. The closers shall be capable of controlling interior or exterior doors weighing up to 660 lb and measuring up to 4'-0" wide exterior and 4'-6" interior. The closers will have selectable multipoint hold open between approximately 75° and 175°. The closers will have

selectable delayed action to allow delayed closing from 175° to 75°. The closers will have mechanical backcheck at approximately 70°. Dual valve adjustment will provide controlled closing speed from approximately 175° opening range, even in cold temperature conditions. The closer will provide adjustment within the cement case to allow lateral and longitudinal adjustment of 1/4" and vertical height adjustment of 5/32". Field interchangeable spindles will be available to provide bottom door clearances ranging from 5/16" to 2-5/16".

Optional Specifications

The closers should be used with sealing compound SC2 to prevent water or cleaning solvent from entering the cement case.

Floor-concealed door closers for all fire doors shall be DORMA BTS80 F. The closers shall be single-acting and have controlled closing from a full 180°. A sweep range of 180°–0° and latch range of 7°–0° will help insure positive latching of the door.

Finishes

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).

Standard Sprayed Finishes

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

Optional DORMA Custom Color or Designer Color Finishes

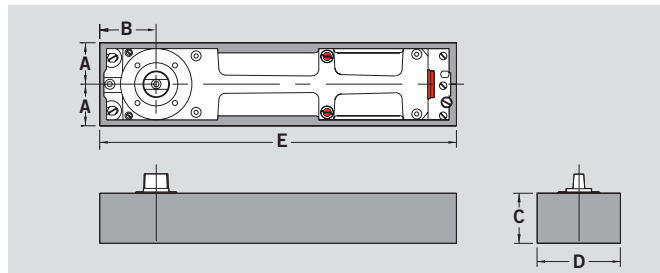
Contact Customer Service.

Warranty

For details, refer to **DORMA Limited Warranty** on our website at go.dorma.com/terms.

Size Selection Chart BTS80 / BTS80 F

BTS80	BTS80 F	Exterior	Interior
ANSI Size 3		2'-6"-3'-0"	2'-6"-3'-6"
ANSI Size 4	ANSI Size 5	2'-6"-3'-6"	2'-6"-4'-0"
ANSI Size 6		3'-6"-4'-0"	4'-0"-4'-6"



Maximum door widths and recommended sizes shown are for average conditions. If there are unusual site conditions, e.g. high or exceptionally heavy doors or wind pressure, the next stronger spring size should be selected.

	A	B	C	D	E
Inches	1-13/32–1-21/32	2–2-1/4	2-3/8	3-1/8	13-7/16
Millimeters	36–42	51–57	60	78	341

TECHNICAL DETAILS

BTS80 Series

- Compact closer body and cement case 2-3/8" deep suited for thin slab concrete construction.
- Accommodates doors weighing up to 660 lb and 4'-6" wide interior and 4'-0" exterior.
- Closer adjustment in cement case provides lateral and longitudinal adjustment of 1/4" and height adjustment of 5/32".
- A pressure relief valve protects closer from damage caused by forced closing.
- Optional sealing compound SC2 prevents water or cleaning solvent from entering the cement case.
- **If door hardware or adjacent structures interfere with maximum opening, an auxiliary stop should be installed.**

BTS80

- Closer body is non-handed.
- Mechanical backcheck at approximately 70° (excluding size 3, where backcheck is removed to meet barrier-free through 90° of opening for easier passage).
- Selectable delayed action between 175° and 75°. Extends the closing cycle to allow unobstructed passage.
- Delayed action is functional when hold open is not engaged.
- Dual thermostatic control valves combined with special hydraulic fluid provide controlled closing from 175°.
- Selectable multipoint hold open between approximately 75° and 175°.
- Adjustment for start of hold open range or when delayed action releases. Adjustable between 75° and 105°.

- 1 Valve adjustment 70°–0°.
- 2 (a) Valve adjustment 175°–70°. (b) Selectable multipoint hold open between 75° and 175°. (c) Selectable delayed action from 175° to 75°.
- 3 Mechanical backcheck at approximately 70° (except size 3).
- 4 Start of hold open/end of delayed action range adjustment. Adjustable between 75° and 105°.

NOTE: Clockwise turns create a longer delay time with a slower closing speed. Turning valve completely clockwise creates hold open and eliminates delayed action.

BTS80 F



- U.L. listed for use with fire doors.
- Closer body is handed.
- Non-hold open only.
- Mechanical backcheck at approximately 70°.
- Dual thermostatic control valves combined with special hydraulic fluid provide controlled closing from 180°.
- Recommended for applications using a wall magnet to hold a door open at 180°.

- 1 Valve adjustment 7°–0°.
- 2 Valve adjustment 180°–0°.
- 3 Mechanical backcheck at approximately 70°.



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