

BTS75V

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Floor-Concealed Door Closers



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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

BTS75V SERIES FLOOR-CONCEALED CLOSER

Dependable and versatile floor-concealed closers for almost any installation.

The BTS75V 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 BTS75V suitable for virtually any floor covering or threshold application. Adjustable spring power from size 1–4 allows the necessary adjustment required for both barrier-free and non-barrier-free openings, giving ultimate installation flexibility. Trouble-free performance under adverse climatic and traffic conditions makes the BTS75V 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 BTS75V floor-concealed closer.

Technical Details

BTS75V

- Adjustable spring size 1–4.
- Can be installed and adjusted to meet 8.5 lb maximum opening force requirements for exterior doors.
- Compact closer body and cement case 2" deep suited for thin slab concrete construction.
- Closer body is non-handed.
- Accommodates doors weighing up to 260 lb and measuring up to 3'-6" wide interior and 3'-0" exterior.
- Mechanical backcheck at approximately 70°.
- Dual thermostatic control valves combined with special hydraulic fluid provide controlled closing from 175°.
- Optional single point hold open units available for 90° or 105°.
- A secondary regulation system protects closer from damage caused by forced closing.
- Closer adjustment in cement case provides 3/8" lateral, 1/4" longitudinal, and 5/32" height adjustment.

- Optional sealing compound SC2 prevents water or cleaning solvent from entering the cement case.
- Optional accessory bracket available to convert a BTS75 cement case to accept a BTS75V.

BTS75V NHO / BTS75V BF NHO

- Non-hold open unit is U.L. listed for use with fire rated doors when door swing is limited to 175° with an auxiliary stop.

BTS75V BF

- Opening force 5 lb or less on interior doors/8.5 lb or less on exterior doors where door without closer attached is 1 lb opening force or less.
- Mechanical backcheck eliminated to meet the barrier-free opening force requirement through 90° of opening.
- Selectable delayed action between 175° and 70°.
- All other details are the same as the BTS75V.

Certification

- The DORMA BTS75V and BTS75V BF non-hold open versions are listed by UL and CUL under their continuing reinspection programs.
- The DORMA BTS75V Series is certified to the requirements of ANSI/BHMA A156.4 for grade 1 closers.
- The BTS75V BF meets the opening force requirements of ANSI/BHMA A117.1 for barrier-free interior and exterior doors.



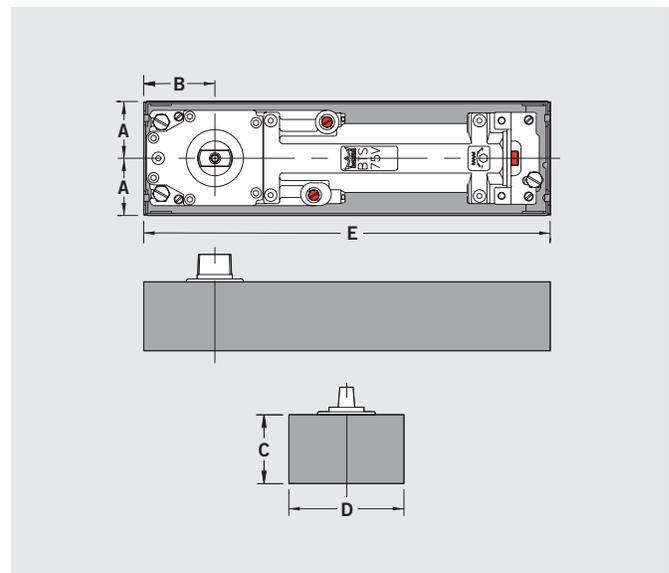
Door Ranges

Door Width	
Interior	Exterior
2'-0"–3'-6"	2'-0"–3'-0"

Maximum door widths shown below are for average conditions. If there are unusual site conditions, e.g. high or exceptionally heavy doors or wind pressure, the door width should be reduced.

NOTE: Although DORMA BTS75V and BTS75V BF Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate control will be obtained while complying with interior or exterior barrier-free opening force restrictions.

	A	B	C	D	E
Inches	1-7/16–1-13/16	2–2-1/4	2	3-1/4	11-1/4
Millimeters	36–46	51–57	51	82	285



Specifications

All floor-concealed door closers shall be DORMA BTS75V Series employing a cam and roller mechanism. The closers shall be capable of controlling doors weighing up to 260 lb and measuring up to 3'-6" for interior doors and 3'-0" wide for exterior doors. The closers will have mechanical backcheck at approximately 70°. Dual valve adjustment will provide controlled closing speed from 175°-15° (sweep range) and 15°-0° (latch range), even in cold temperature conditions. The closer mechanism will provide adjustment within the cement case to allow 3/8" lateral, 1/4" longitudinal, and 5/32" vertical height adjustment. Field interchangeable spindles will be

available to provide bottom door clearances ranging from 5/16" to 2-5/16".

Optional Specifications

Floor-concealed door closers for all interior and exterior barrier-free openings shall be DORMA BTS75V BF. The closers shall be capable of maintaining a maximum opening force of 5 lb through 90° of door swing on barrier free interior doors and 8.5 lb on exterior barrier-free doors 3'-0" wide. The closers will have selectable delayed action standard without backcheck. The closers should be used with sealing compound SC2 to prevent water or cleaning solvent from entering the cement case.

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.

REDUCED OPENING FORCE INSTALLATIONS CAUTION

Manual door closers, including closers certified to conform to ANSI/BHMA Standard A156.4, when installed and adjusted to conform to ADA or other reduced opening force requirements, may not provide sufficient power to reliably close and latch a door.

Refer to catalog for information on Low Energy Operators to meet reduced opening force requirements without affecting closing power.

Warranty

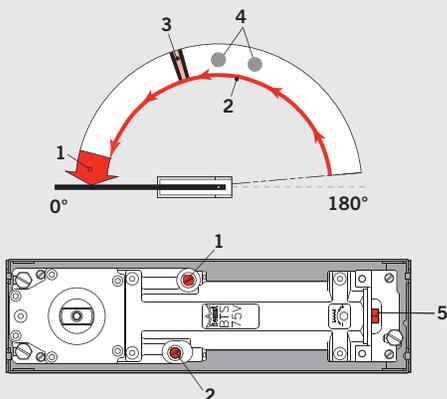
For details, refer to **DORMA Limited Warranty** on our website at go.dorma.com/terms.

Features	BTS75V	BTS75V BF
Adjustable spring sizes	1-4	1-4
Non-handed unit suitable for both single and double-acting doors	•	•
Controlled closing with two independent valves	175°-15°/15°-0°	175°-70°/70°-0°
Mechanical backcheck	•	-
Delayed action	-	•
Single point hold open available at 90°	○	○
Single point hold open available at 105°	○	-

• yes - no ○ option

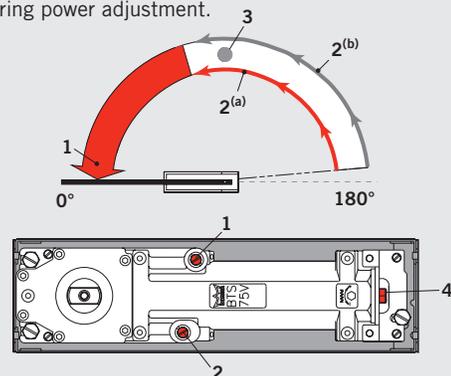
BTS75V

- 1 Valve adjustment 15°-0°.
- 2 Valve adjustment 175°-15°.
- 3 Mechanical backcheck at approximately 70°.
- 4 Single point hold open units available at 90° or 105°.
- 5 Spring power adjustment.



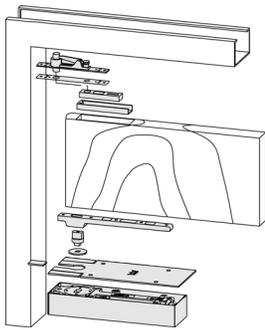
BTS75V BF

- 1 Valve adjustment 70°-0°.
- 2 (a) Valve adjustment 175°-70°.
- 2 (b) Selectable delayed action from 175°-75°.
- 3 Single point hold open units available at 90°.
- 4 Spring power adjustment.



NOTE: If door hardware or adjacent structures interfere with maximum opening, an auxiliary stop is required.

HOW TO ORDER BTS75V SERIES



Spindle	
1-1/2" Pre-Loaded Spindle	80030
1-5/16" Pre-Loaded Spindle	80025
1-1/8" Pre-Loaded Spindle	80020
7/8" Pre-Loaded Spindle	80015
3/4" Pre-Loaded Spindle	80010
1/2" Pre-Loaded Spindle	80005
5/16" Pre-Loaded Spindle	80003
2-5/16" Spindle	74050
2-1/16" Spindle	74045
1-7/8" Spindle	74040
1-11/16" Spindle	74035
1-1/2" Spindle	74030
1-5/16" Spindle	74025
1-1/8" Spindle	74020
7/8" Spindle	74015
13/16" Spindle	74012
3/4" Spindle	74010
5/8" Spindle	74007
1/2" Spindle	74005
5/16" Spindle	74003

Hold Open	
150° Hold Open (BF Not Available)	105
90° Hold Open	90
Non-Hold Open	NHO

Optional Accessories (multiple options can be ordered)

E80624	Through Wire CH Top Pivot (4 wire)
E80622	Through Wire CH Top Pivot (2 wire)
HD8062	Heavy Duty CH Top Pivot
75200	Through Wire Intermediate Pivot for 3/4" Offset
15233	3 h Intermediate Pivot for 1-1/2" Offset
15222	20 min Intermediate Pivot for 1-1/2" Offset
15220	20 min Intermediate Pivot for 3/4" Offset
75233	3 h Intermediate Pivot for 3/4" Offset
75222	Intermediate Pivot for 3/4" Offset
75220	Intermediate Pivot for 3/4" Offset
SC2	Sealing Compound
TP75 CH	Terrazo Pan CH and 1-1/2" Offset
TP75	Terrazo Pan for 3/4" Offset

Deducts

LBX	Less Cement Box
LFP	Less Floor Plate
LTP	Less Top Pivot

Series	BTS75V	D	NHO	74010	RH	AMS	626
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A	CH Double Acting, Aluminum Door and Frame
B	CH Double Acting, Wood or Steel Door and Frame
C	CH Double Acting, Wood or Steel Door and Frame
C-E	1-1/2" Offset, Handed
C-F	1-1/2" Offset, 20 min Rated Handed
D	1-1/2" Offset, 3 h Rated Handed
E	3/4" Offset, Handed
F	3/4" Offset, 20 min Rated Handed
G	3/4" Offset, 3 h Rated Handed
H	CH Single Acting, Aluminum Door and Frame
I	CH Single Acting, Wood or Steel Door and Frame
IF	Independent Hung, Non-Handed
IF	Independent Hung, Up to 3 h Rated, Non-Handed
P	Independent Hung On Pocket Pivots, Non-Handed
PF	Independent Hung On Pocket Pivots, Up to 3 h Rated, Non-Handed

Package

NOTE: All combinations of features and options are not available for all models.

Std.	No Need to Specify Size 1-4, No Delay
BF	Size 1-4, No Backcheck

Spring Size	
LH	Specify for Left Handed Units
RH	Specify for Right Handed Units

AMS	All Metal Screws
W2	All Wood Screws
W1	1/2 Wood Screws
AMSAWS	All Metal Screws All Wood Screws

Fastener Packs

600	Primed
689	Aluminum
690	Statuary Bronze
691	Dull Bronze
693	Black
695	Dark Duranodic Bronze
696	Gold
PNT	Special Sprayed Finish (must specify)
605	Bright Brass
606	Satin Brass
611	Bright Bronze
612	Satin Bronze
613	Oxidized Satin Oil Rubbed
618	Bright Nickel
619	Satin Nickel
625	Bright Chrome
626	Satin Chrome

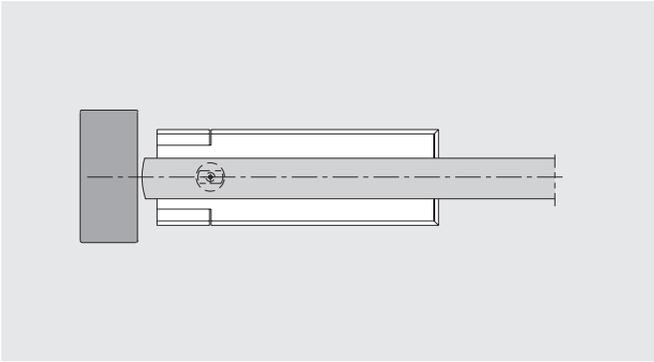
Plated

APPLICATIONS

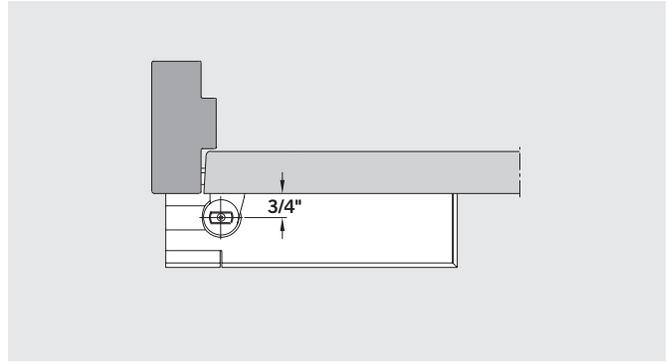
Accessory packages for the following applications are designated with an alpha suffix — “A” or “B,” for example.

For application details and accessory illustrations, see **BTS Applications and Accessories** brochure.

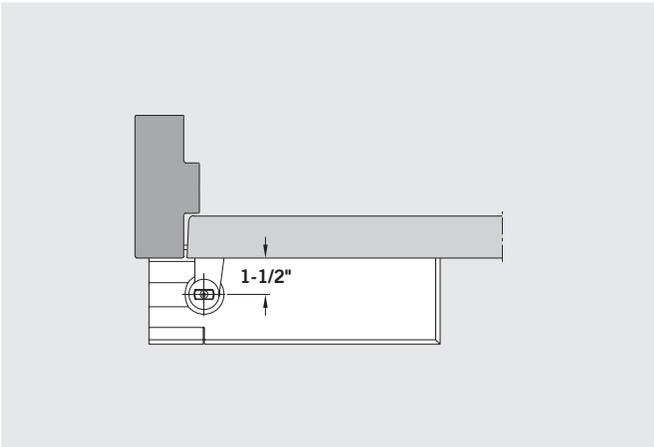
Center Hung Packages (A, B, G, H)



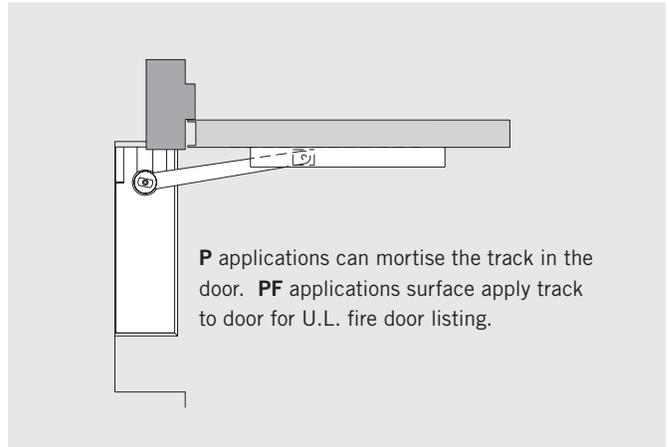
3/4" Offset Packages (D, E, F)



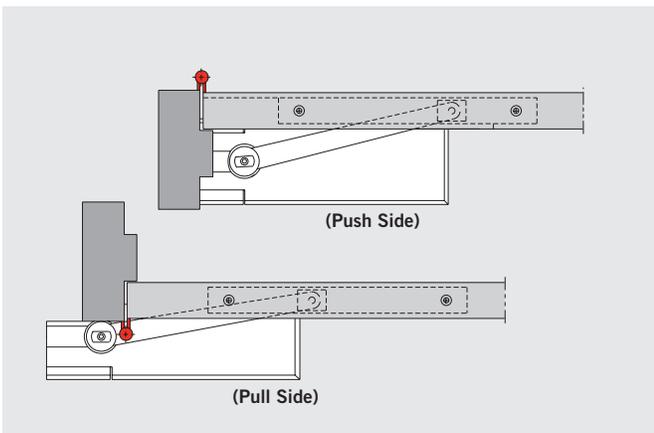
1-1/2" Offset Packages (C, C-E, C-F)



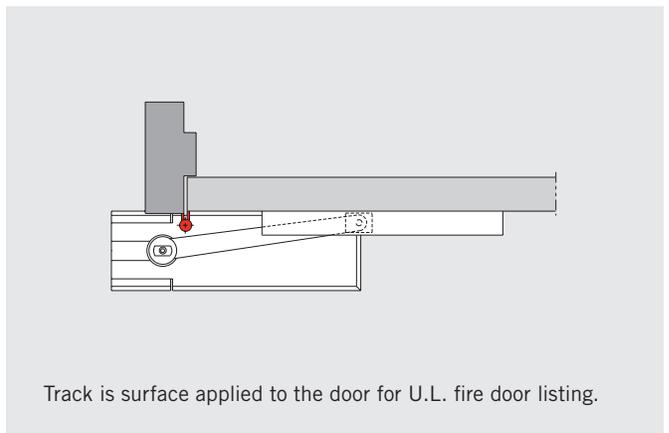
Pocket Door Packages (P) / Pocket Fire Door Packages (PF)



Independent Hung Packages (I)



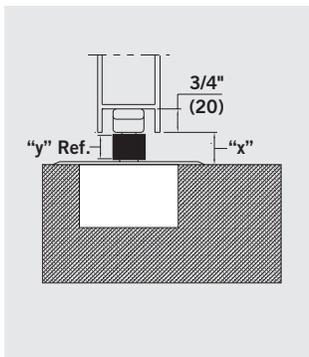
Independent Hung Fire Door Packages (IF)



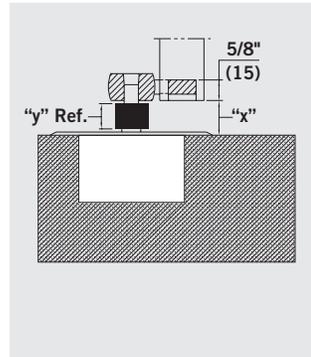
SPINDLES

Spindle #	Dimension "x" (Door Clearance)	3° Pre-load Spindle #	Dimension "y"
74003	5/16"	80003	1/8"
74005	1/2"	80005	5/16"
74007	5/8"	—	7/16"
(STD) 74010	3/4"	80010	1/2"
74012	13/16"	—	5/8"
74015	7/8"	80015	11/16"
74020	1-1/8"	80020	7/8"
74025	1-5/16"	80025	1"
74030	1-1/2"	80030	1-5/16"
74035	1-11/16"	—	1-1/2"
74040	1-7/8"	—	1-11/16"
74045	2-1/16"	—	1-7/8"
74050	2-5/16"	—	2-1/16"

Center Hung Applications



Offset Hung Applications



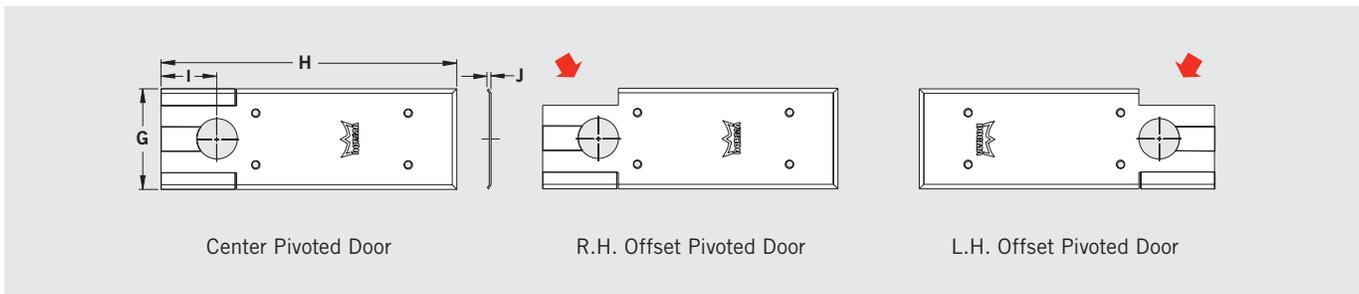
Pre-load Spindles

Spindles are available with a 3° pre-load for additional pressure to hold door in the closed position. Normally, this is only necessary for center-pivoted single acting applications. However, they can also be used with other applications to compensate for templating errors. Specify hand of pre-load spindle when ordering.

Extended Spindle Insert

Closers with extended spindle inserts are used with thresholds, carpeted floors, or terrazzo pans, or in cases where more clearance between door and floor is required. All spindles are zinc plated.

NOTE: Closer and arm must be installed per template for door clearances shown to be valid.



Cover Plate

Universal cover plate **7510**, suitable for left hand/right hand, 3/4" offset, 1-1/2" offset, and center pivoted doors.

Material is stainless steel or brass depending on the plated finish specified.

	G	H	I	J
Inches	4-1/8	12-1/8	2-9/32	3/32
Millimeters	105	308	58	2



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