



Floor Concealed Door Closers

BTS80 SERIES FLOOR-CONCEALED DOOR CLOSER

Dependable and Versatile Floor-Concealed Closer



The BTS80 Series of floorconcealed 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.

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BTS80 Series

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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

Features	BTS80	BTS80	BTS80 F
ANSI Spring Size	3	4, 6	5
Non-handed unit suitable for both single-and doube-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°	•	•	-

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

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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.

yes

- no

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.

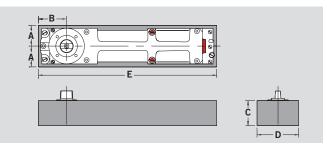
Optional DORMA Custom Color or Designer Color Finishes Contact Customer Service.

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"		

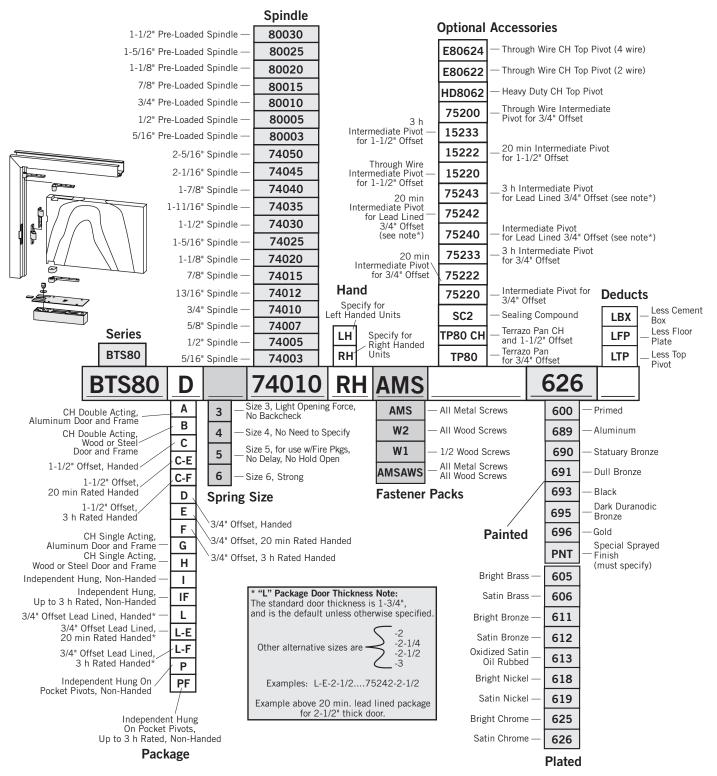
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Maximum door widths and recommended sizes shown are for average conditions. If there are unusual site conditions, e.g. high or exceptionally heavy doors or wind pressure, the next stronger spring size should be selected.

	Α	В	С	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

HOW TO ORDER BTS80 SERIES



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

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.

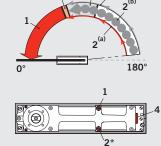
BTS80

- 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°.

BTS80 F

- U.L. listed for <u>use</u> 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°.

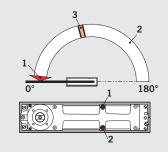
- 1 Valve adjustment 70°–0°.
- 2 (a) Valve adjustment 175°-70°.
 (b) Selectable multipoint hold open between 75° and 175°.
 - (c) Selectable delayed action from 175° to 75°.
- **3** Mechanical backcheck at approximately 70° (except size 3).
- 4 Start of hold open/end of delayed action range adjustment.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

1 Valve adjustment 7°-0°.

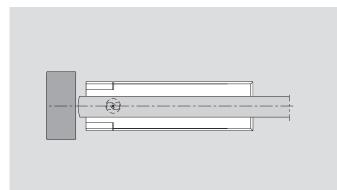
- 2 Valve adjustment 180°–0°.
- **3** Mechanical backcheck at approximately 70°.



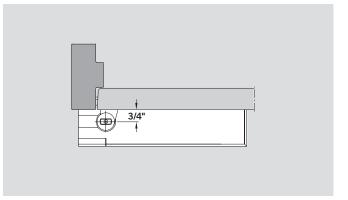
APPLICATIONS

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.

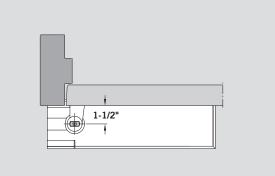
Center Hung Packages (A, B, G, H)

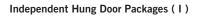


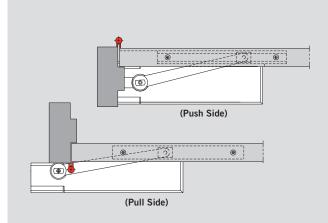
3/4" Offset Packages (D, E, F, L, L-E, L-F)



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

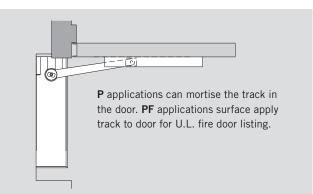




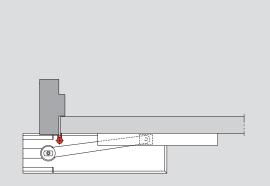


Track is surface applied to the door for U.L. fire door listing.

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



Independent Hung Fire Door Packages (IF)



Track is surface applied to the door for U.L. fire door listing.

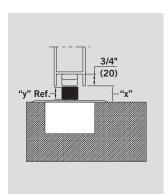
SPINDLES

Spindle #	Dimension "x" (Door Clearance)	3° Offset Spindle No.	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"

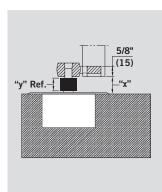
Offset Spindles

Spindles are available with a 3° offset 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 offset spindle when ordering.

Center Hung Applications



Offset Hung Applications



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

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.

Cover Plate

Universal cover plate **7410**, suitable for left hand/right hand, 3/4" offset, 1-1/2" offset, and

Inches

Millimeters

4-1/8

105

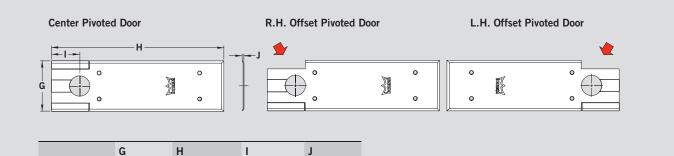
14-3/32

358

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

2-9/32

58



3/32 2



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Cierrapuertas

Técnicas de cierrapuertas

Sistemas de leva



Sistemas de piñón cremallera



Válvula de amortiguación Piñón dentado

Cremallera

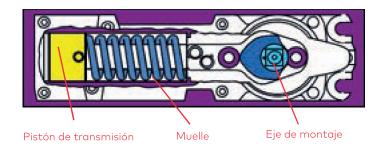
Válvula de velocidad

Los cierrapuertas con piñón cremallera garantizan un control total sobre la puerta. Puertas de gran envergadura o con problemas de aire tienen la solución con este tipo de mecanismos.

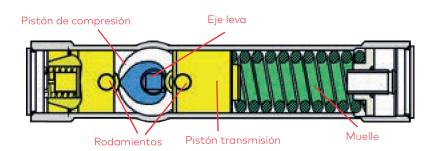
Muelle

Sistemas de suelo





Los cierrapuertas de suelo permiten equipar puertas de todo tipo, incluso puertas de hasta 300 kg. Con el herraje apropiado permiten fabricar puertas de simple o doble acción.



Los cierrapuertas con tecnología EASY OPEN (Cam-action), reducen inmediatamente y de manera notable el par de fuerza de apertura. Niños y personas mayores o discapacitadas podrán abrir la puerta sin necesidad de aplicar mucha fuerza.

Cierrapuertas

Elección del modelo

Cierrapuertas ocultos de suelo para vaivén a batiente		Homologaciones	Fuerza	Tamaño de puertas en mm	Peso máximo
	BTS 65 Para puerta vaivén Uso moderado	CE	EN 3	950	100 kg
			EN 4	1.100	
	BTS 75 V Para vaivén y batiente Uso frecuente	≬) ⊂€	EN 1-4	750 850 950 1.100	120 kg
6	BTS 80 Puertas exteriores	٩)	EN 3	950	300 kg
	Para vaivén y batiente Uso intensivo	CE	EN 4 EN 6	1.100 1.400	

Cierrapuertas ocultos embutidos con guía deslizante		Homologaciones	Fuerza	Tamaño de puertas en mm	Peso máximo
13	ITS 96 Uso moderado Grueso mínimo 40 mm	4)	EN 2-4	850 950 1.100	130 kg
4	Para puertas exteriores Uso intensivo Grueso mínimo 50 mm	CE	EN 3-6	950 1.100 1.250 1.400	180 kg

Cierrapuerta ocultos embr techo o marc	utidos en		Homologaciones	Fuerza	Tamaño de puertas en mm	Peso máximo
		RTS 85 Uso intensivo		EN 3	950	120 kg
0.0		Herraje específico para puerta de vaivén o batiente	CE	EN 4	1.100	
Current Curren				EN 5	1.250	
			-			

El reglamento (UE) nº 305/2011 entró en vigor el 1 de Julio de 2013, que establece condiciones armonizadas para la comercialización de los productos de construcción y se deroga la Directiva 89/106/CEE.

Esta regulación exige a los fabricantes de productos de la construcción elaborar una declaración de prestaciones cuando un producto de construcción está cubierto por una norma armonizada, o cumple con una evaluación técnica europea emitida para ese producto.

Al hacer una declaración de prestaciones, el fabricante asume la responsabilidad legal de la conformidad del producto con las prestaciones declaradas. Si la declaración de prestaciones no ha sido hecha por el fabricante, el marcado CE no puede ser fijado.

Los cierrapuertas solo pueden tener el marcado CE cuando tienen un uso destinado a las puertas corta-fuego/ corta-humo.

En este caso, debe seguir el sistema 1 de evaluación y verificación de la constancia de prestaciones.

EN-1154 – Dispositivos de cierre controlado de puertas.

EN-1155 – Dispositivos de retención electromagnética para puertas batientes.

EN-1157 – Dispositivos de coordinación de puertas.

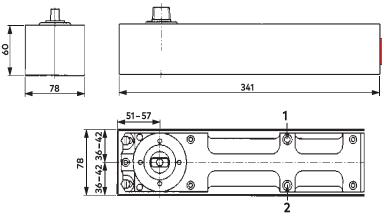
Producto homologado y probado en puerta cortafuego

El producto dispone de marcado CE

BTS 80

Soluciones especiales para puertas especiales





Ventajas

- Cierrapuertas de suelo para puertas especiales
- Regulación de velocidad y golpe final independientes
- Fuerza fija
- Retención opcional en cualquier punto
- Es apropiado para puertas a derecha e izquierda
- Con el herraje apropiado, puede instalarse en puertas batientes o de doble acción







Caracteristicas

- Fuerza fija
- Regulación de velocidad independiente
- Regulación golpe final independiente

Versiones

- BTS-80 EN 3
- BTS-80 EN 4
- BTS-80 EN 6

Certificación

- Conforme EN-1154
- Declaración de prestaciones
- Marcado CE
- · M-certifire
- ISO 9001

Uso intensivo



Aplicaciones

- Puertas entre 950 hasta 1.400 mm
- Para puertas a derecha e izquierda
- Apropiado para uso en puertas cortafuego
- Apertura hasta 180°

Opciones

- Placa decorativa: inoxidable y latón
- Ejes alargados entre 5 y 50 mm
- Accesorios específicos para usar en puertas de madera, vidrio o metal