



Floor Springs

DORMA

BTS 80
BTS 75 V



Floor springs

DORMA **BTS 80 F**
- EMB
- FLB

Floor springs designed especially for fire and smoke doors. Wide range of functions, quality assured.

CERTIFIRE approved for use on certain fire doors: See certificate no. 128 (BTS 80 F and EMB). Complies with requirements of HTM 59 (DOH). PSA approved (MOB H3 03).

Certified to ISO 9001.



CERTIFIRE
Cert. no. 128

Plus points

For the trade

- Complete range for every application.
- Simple stock holding thanks to identical accessories being used throughout the DORMA BTS range.

For the installer

- Easy to install.
- Interchangeable spindle inserts, available to suit site conditions.
- For doors up to 300 kg in weight.

For the architect/specifier

- Concealed installation.
- Range of functions to suit all applications.

- Proven, robust unit – for doors weighing up to 300 kg.
- All models tested and quality assured, and approved by the Institute for Building Technology, Berlin. For CERTIFIRE approvals see certificate no. 128 (BTS 80 F, EMB).

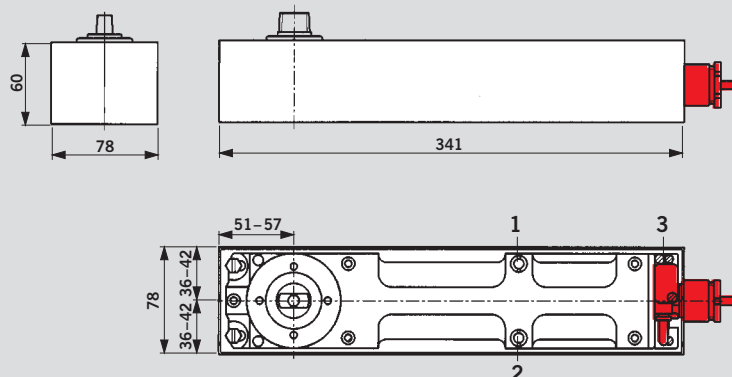
For the user

- Reliable and fail safe.
- Closing speed unaffected by changes in temperature.
- Easy door operation thanks to high mechanical efficiency.

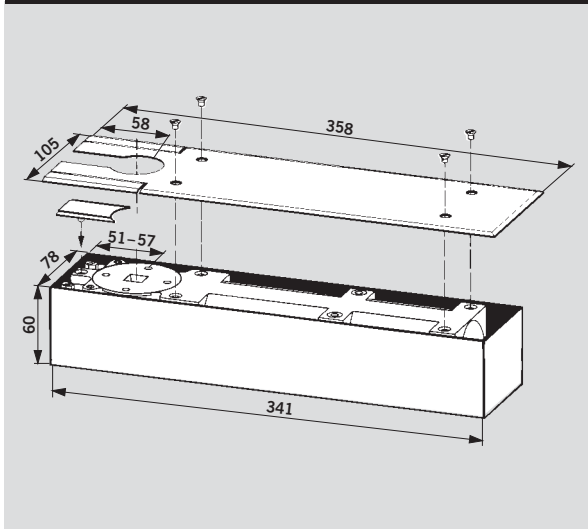
| Technical data | | BTS 80 F | | | BTS 80 EMB | | | BTS 80 FLB | | |
|---|---------------|----------|------|------|------------|------|------|------------|------|------|
| Closing force | Size | EN 4 | EN 5 | EN 6 | EN 4 | EN 5 | EN 6 | EN 4 | EN 5 | EN 6 |
| Standard doors up to | 1100 mm | ● | – | – | ● | – | – | ● | – | – |
| | 1250 mm | – | ● | – | – | ● | – | – | ● | – |
| | 1400 mm | – | – | ● | – | – | ● | – | – | ● |
| Universal model for RH (ISO 5) LH (ISO 6) and double action doors (to close from 175) up to | 905 mm | ● | – | – | ● | – | – | – | – | – |
| | 1125 mm | – | ● | – | – | ● | – | – | – | – |
| | 1280 mm | – | – | ● | – | – | ● | – | – | – |
| Handed model (to close from 180) | LH | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | RH | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Universal | ● | ● | ● | ● | ● | ● | – | – | – |
| Closing speed variable by valve adjustment | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Latching action variable by valve adjustment | | ● | ● | ● | ● | ● | ● | – | – | – |
| Backcheck, mechanical | | ● | ● | ● | ● | ● | ● | – | – | – |
| Delayed action | | – | – | – | – | – | – | – | – | – |
| Hold-open, electro-magnetic, Hold-open point selectable between 75 and 180° | | – | – | – | ● | ● | ● | – | – | – |
| Free swing 0–180° | | – | – | – | – | – | – | ● | ● | ● |
| Weight in kg | | 7.1 | 7.1 | 7.1 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| Dimensions in mm | | | | | | | | | | |
| | Length | 341 | 341 | 341 | 341 | 341 | 341 | 341 | 341 | 341 |
| | Overall depth | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| | Height | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Power input in W | | – | – | – | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Operating voltage in vDC ± 15 %, residual ripple max. 30 % | | – | – | – | 24 | 24 | 24 | 24 | 24 | 24 |
| Duty factor in % [Rated for continuous service (duty factor 100 %)] | | – | – | – | 100 | 100 | 100 | 100 | 100 | 100 |
| Door closer tested to EN 1154 | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Hold-open devices tested to EN 1155 | | – | – | – | ● | ● | ● | ● | ● | ● |

● Yes – No ○ Option

- 1 Closing speed adjustment valve
- 2 Latching speed adjustment valve (not available with the BTS 80 FLB)
- 3 Plug connector with cable for EMB and FLB power supply



DORMA BTS 80 F



CERTIFIRE approved cert. no. 128

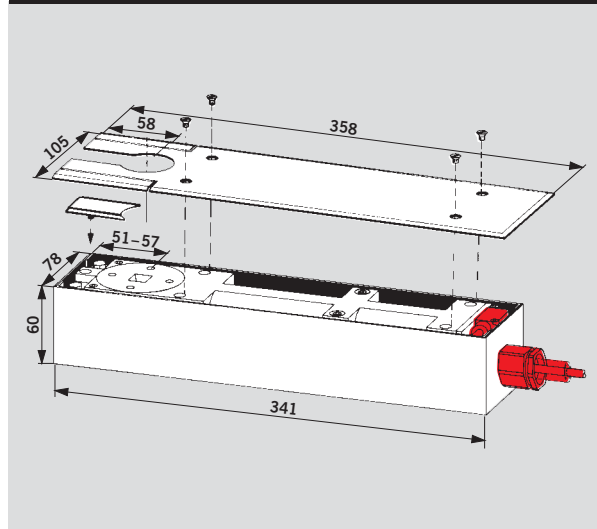
Fire door applications

Please see the CERTIFIRE Register of Approved Products for full details of fire door types with which this floor spring may be used.

Approval and certification

The DORMA BTS 80 F has been approved, and is subject to third-party verification, by the State Material Testing Agency (MPA) of North Rhine Westphalia/Dortmund, Germany. PSA approved (MOB H3 03) HTM 59 (DOH).

DORMA BTS 80 EMB



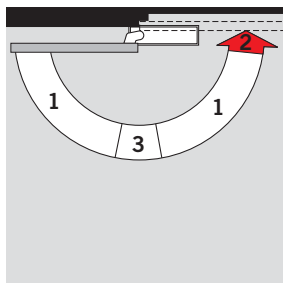
Floor spring with electromagnetic hold-open CERTIFIRE approved cert. no. 128

Fire door applications

Please see the CERTIFIRE Register of Approved Products for full details of fire door types with which this floor spring may be used.

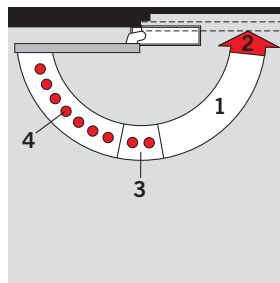
Approval certification

The DORMA BTS 80 EMB has been approved by the Institute for Building Technology, Berlin, for use in combination with all common smoke detector systems, e.g. DORMA BTS 80 EMB with DORMA RMZ 2: approval certificate Z-6.5-1310. PSA approved (MOB H3 03) HTM 59 (DOH).



- 1 Fully controlled closing with adjustable speed
- 2 Adjustable latching action
- 3 Mechanical backcheck

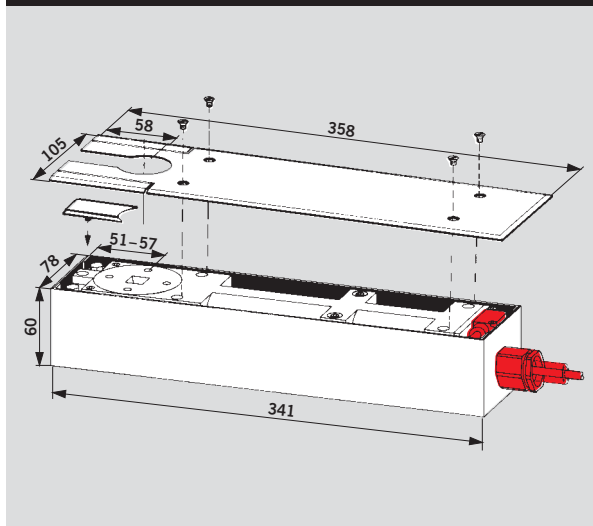
Example shows LH door; mirrored arrangement applies to RH door.



- 1 Fully controlled closing with adjustable speed
- 2 Adjustable latching action
- 3 Mechanical backcheck
- 4 Hold-open range (fall back approx. 3°)

Example shows LH door; mirrored arrangement applies to RH door.

DORMA BTS 80 FLB



Floor spring with free-swing feature (electro-hydraulically controlled spring detent)

Fire door applications

The DORMA BTS 80 FLB is designed to remove all spring pressure, whilst the door is available for manual opening and closing. When the current supply is interrupted, e.g. fire alarm, the floor spring resumes its self-closing function.

Approval certification

The DORMA BTS 80 FLB has been approved by the Institute for Building Technology, Berlin, for use in combination with all common smoke detector systems, e.g. DORMA BTS 80 EMB with DORMA RMZ 2: approval certificate Z-6.5-1310.

Accessories

Applications and fixing instructions, door straps and top centres

See Technical Information "Floor spring accessories".

Spindle inserts

Interchangeable spindle inserts enable the floor clearance to be increased if required (doors with thresholds, carpeted floors, etc.).

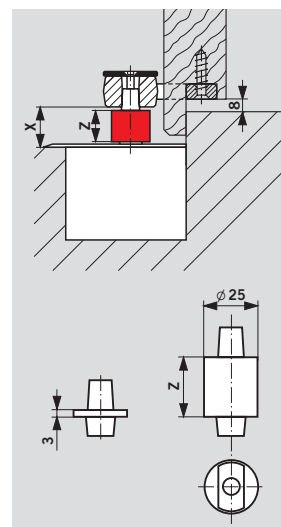
Special spindle designs on application: e.g. flat tapered with 3° offset, square spindles and spindle inserts for non DORMA accessories.

Extended spindle insert

Spindle Extension = Dimension "X" – (standard 8 mm) (Door Clearance) Z – 3 mm

NOTE: Closer and bottom strap must be installed per fixing instructions for door clearances shown to be valid. Closers with extended

spindle inserts are used with thresholds, carpeted floors, terrazzo pans or in cases where more clearance between door and floor is required. Surface finish: Zinc plated.

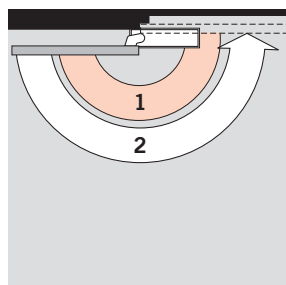


Universal cover plate

One cover plate, suitable for left hand/right hand 36 mm offset, and centre pivoted doors. Further modification is necessary for use with 5 mm offset accessories. Available in stainless steel or satin brass (thickness of material 1.5 mm). A reinforcing underplate is available for use in areas of especially heavy traffic or trolleys.

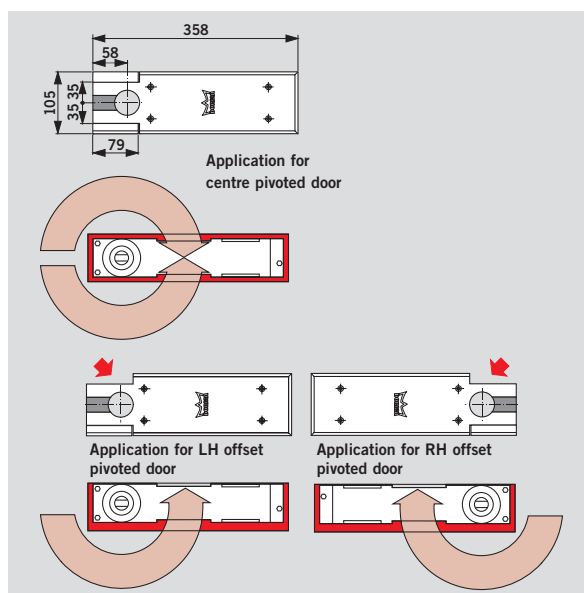
DORMA 2300 Sealing Compound

For filling the cavities between the floor spring body and the cement box to prevent moisture penetration (mandatory according to e.g. VOB regulations for wet rooms).



- 1 Free-swing range
- 2 Fully controlled closing in the event of an alarm or interruption of the power supply

Example shows LH door; mirrored arrangement applies to RH door.



Scope of supply and accessories

| Floor spring BTS 80 F | With cement box, without spindle insert | Spindle inserts ¹⁾ | Universal cover plate | | Sealing compound 2300, 0.5 kg 45090059 |
|---------------------------------|---|-------------------------------|--------------------------------|----------------------------|---|
| | | | Stainless steel 46700000 | Satin Brass 56700100 | |
| Size EN 4 | | | | | |
| LH | 80220101 | # | # | # | # |
| RH | 80220201 | # | # | # | # |
| Universal | 80220001 | # | # | # | # |
| Size EN 5 | | | | | |
| LH | 80210101 | # | # | # | # |
| RH | 80210201 | # | # | # | # |
| Universal | 80210001 | # | # | # | # |
| Size EN 6 | | | | | |
| LH | 80230101 | # | # | # | # |
| RH | 80230201 | # | # | # | # |
| Universal | 80230001 | # | # | # | # |

| Floor spring BTS 80 EMB | With cement box, without spindle insert, 3.5 m cable | Spindle inserts ¹⁾ | Universal cover plate | | Sealing compound 2300, 0.5 kg 45090059 |
|-----------------------------------|---|-------------------------------|--------------------------------|----------------------------|---|
| | | | Stainless steel 46700000 | Satin Brass 56700100 | |
| Size EN 4 | | | | | |
| LH | 82224101 | # | # | # | # |
| RH | 82224201 | # | # | # | # |
| Universal | 82224001 | # | # | # | # |
| Size EN 5 | | | | | |
| LH | 82214101 | # | # | # | # |
| RH | 82214201 | # | # | # | # |
| Universal | 82214001 | # | # | # | # |
| Size EN 6 | | | | | |
| LH | 82234101 | # | # | # | # |
| RH | 82234201 | # | # | # | # |
| Universal | 82234001 | # | # | # | # |

| Floor spring BTS 80 FLB for free-swing action | With cement box, without spindle insert, 3.5 m cable | Spindle inserts ¹⁾ | Universal cover plate | | Sealing compound 2300, 0.5 kg 45090059 |
|---|---|-------------------------------|--------------------------------|----------------------------|---|
| | | | Stainless steel 46700000 | Satin Brass 56700100 | |
| Size EN 4 | | | | | |
| LH | 82124101 | # | # | # | # |
| RH | 82124201 | # | # | # | # |
| Size EN 5 | | | | | |
| LH | 82114101 | # | # | # | # |
| RH | 82114201 | # | # | # | # |
| Size EN 6 | | | | | |
| LH | 82134101 | # | # | # | # |
| RH | 82134201 | # | # | # | # |

= Accessory ¹⁾ See technical information leaflet "Floor spring accessories"

Specification text

DORMA BTS 80 F

CERTIFIRE approved universal floor spring, with hydraulically fully controlled closing from 175°, adjustable latching action and backcheck; including cement box CERTIFIRE approved certificate no. 128.

Size

- EN 4
- EN 5
- EN 6

Model

- LH (ISO 6)
- RH (ISO 5)
- Universal

Accessories

- Universal cover plate, 1.5 mm thick
 - stainless steel
 - satin brass
 - reinforcing underplate
- Spindle insert, . . . mm extension
- Sealing compound

Make: DORMA BTS 80 F

DORMA BTS 80 EMB

Floor spring with electro-hydraulic hold-open and integral pressure compensation feature for multipoint hold-open between 75° and 175°. With adjustable, hydraulically fully controlled closing speed, adjustable latching action, backcheck; including cement box.

Operating voltage: 24 vDC
Power input: 2.3 W

CERTIFIRE approved certificate no. 128. Officially approved by the Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance test required in Germany.

Size

- EN 4
- EN 5
- EN 6

Model

- LH (ISO 6)
- RH (ISO 5)
- Universal
- Special design with integral circuit for door co-ordinator with electro-magnetic retention
 - LH
 - RH

Accessories

- Universal cover plate, 1.5 mm thick
 - stainless steel
 - satin brass
 - reinforcing underplate
- Spindle insert, . . . mm extension
- Sealing compound

Make: DORMA BTS 80 EMB

DORMA BTS 80 FLB

Free-swing floor spring with electro-hydraulic free-swing feature between 0° and 180°, closing action (de-energised condition) from 180°, and backcheck (de-energised condition). Operating voltage: 24 vDC
Power input: 2.3 W

Acceptance test required in Germany.

Size

- EN 4
- EN 5
- EN 6

Model

- LH (ISO 6)
- RH (ISO 5)

Accessories

- Universal cover plate, 1.5 mm thick
 - stainless steel
 - satin brass
 - reinforcing underplate
- Spindle insert, . . . mm extension
- Sealing compound

Make: DORMA BTS 80 FLB

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Universal application, individual functions and assured quality

Whether standard, narrow or wide, whether LH, RH, or single or double action – DORMA BTS 80 and BTS 75 V door springs are designed for all types of door. A comprehensive program of accessories ensures that they can be used successfully with a wide variety of door constructions and floor coverings.

Thanks to a wide range of functions, which can be individually selected to suit different requirements, DORMA BTS 80 and BTS 75 V floor springs offer maximum reliability and quality.

Certified to ISO 9001.

Benefits...

... for the trade

- Reduced stock requirements because of separate, interchangeable spindles.
- Slim product range offering all key functions.

...for the installer

- Suitable for installation with LH or RH single and double action doors.
- Interchangeable spindles enable easy adaptation to structural conditions – even when retrofitted.

...for the architect/specifier

- Concealed installation for maximum visual elegance
- All essential functions provided
- Proven, robust design capable of withstanding leaf weights of up to 300 kg (BTS 80).

...for the user

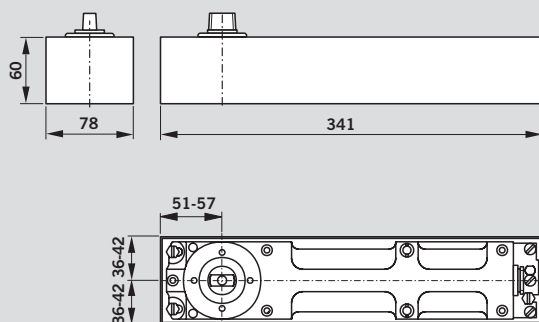
- Constant, temperature-independent closing cycle.
- Highly efficient mechanism gives maximum user convenience.

| Data and features | BTS 80 | | | BTS 75 V |
|--|----------------|-----|---|----------|
| | 3 | 4 | 6 | 1-4 |
| Spring strength (EN) | – | – | – | ● |
| Spring strength adjustment | – | – | – | ● |
| Standard and external doors ¹⁾ | ≤ 950 mm | ● | – | – |
| | ≤ 1100 mm | – | ● | – |
| | ≤ 1400 mm | – | – | ● |
| Fire and smoke check doors | – | – | – | ● |
| Max. leaf weight (kg) | 300 | | | 120 |
| Non-handed, suitable for single and double action doors | ● | | | ● |
| Closing speed adjustable by valve | 175° – 0° | ● | | |
| | 175° – 15° | – | | |
| | 15° – 0° | – | | |
| Backcheck, mechanical | ● | | | ● |
| Delayed action adjustable by valve (selectable alternative to the hold-open feature) | ● | | | – |
| | – | | | – |
| Hold-open | Adjustable | ● | | |
| | Fixed 90° | – | | |
| | Fixed 105° | – | | |
| Coverplate secured to | cement box | – | | |
| | floor spring | ● | | |
| Weight in kg | 7.1 | | | 3.0 |
| Dimensions in mm | Length | 341 | | |
| | Width | 78 | | |
| | Height | 60 | | |
| Floor spring tested to EN 1154 | ● | | | ● |
| CE marking for building products | In preparation | | | |

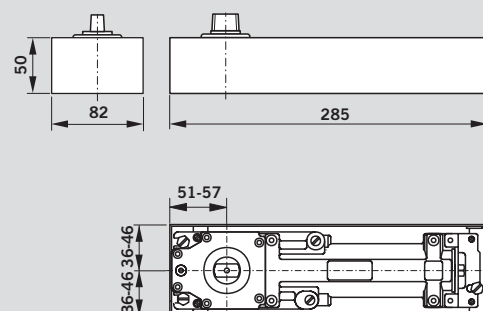
● yes – no

¹⁾ For applications involving particularly high or heavy loads, and doors which have to close against wind or draught conditions, the next larger spring strength should be selected.

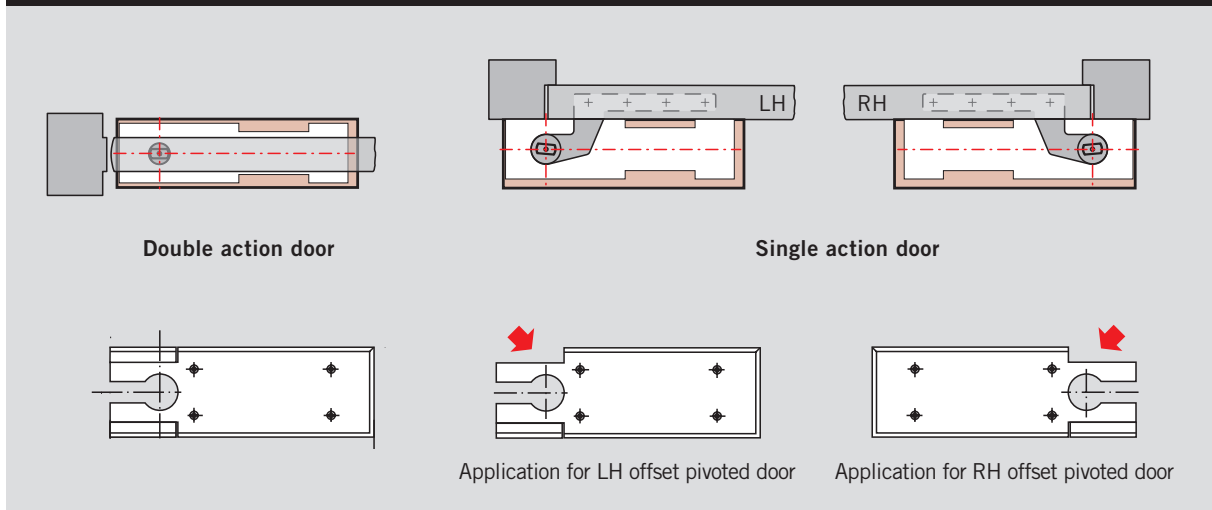
BTS 80



BTS 75 V



Application and Installation

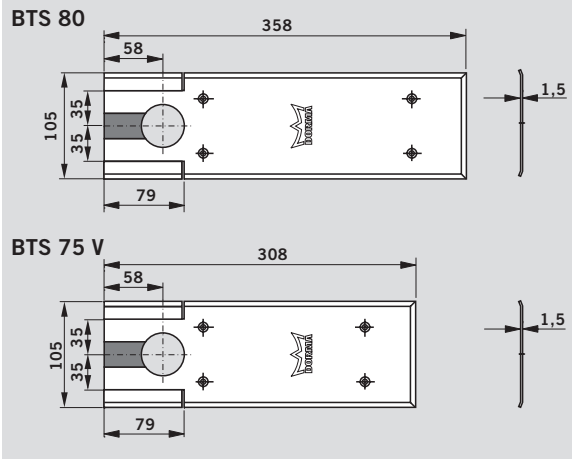


Accessories

Universal cover plate

Adaptable to right or left hand single action applications by simply snapping off the appropriate pre-blanked corner sections. For double action doors, the corner sections remain in place.

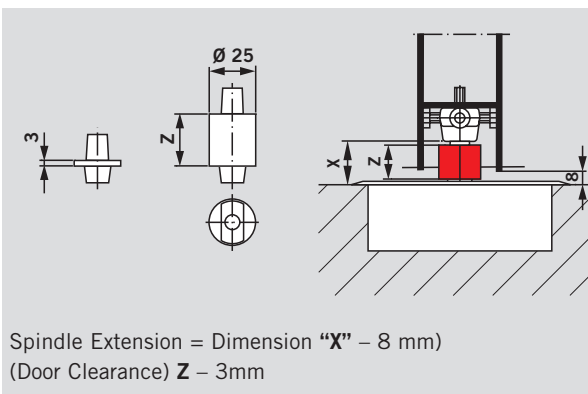
The universal cover plate is available in stainless steel or satin brass (material thickness 1.5 mm).



Spindles

A range of interchangeable spindles is available to provide greater floor clearance if required (e.g. doors with thresholds, carpeted floors etc).















Special spindles available on application: e.g. with flat face profile and 3° offset or square section; spindles for non-DORMA-specific accessories are also available.



DORMA 2300 sealing compound

For filling cavities between the floor spring body and the cement box to protect against moisture penetration.

Information about other accessories such as **door straps and top centres** can be found in the "Accessories for DORMA BTS Floor Springs" leaflet

| Standard equipment and accessories | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| BTS 80 floor spring  | BTS 75 V floor spring  | Extended spindles (extension in mm) | | | | | | | | | | | | 2300 sealing compound, 0.5 kg  45090059 | |
| | |  |  |  |  |  |  |  |  |  |  |  | | | |
| | | 45200401 Standard | 45200402 5 | 45200403 7,5 | 45200404 10 | 45200419 12,5 | 45200405 15 | 45200406 20 | 45200407 25 | 45200414 28 | 45200408 30 | 45200409 35 | 45200410 40 | 45200411 45 | 45200412 50 |
| Including cement box and standard spindle | | | | | | | | | | | | | | | |
| EN 3 80120000 | EN 1 – 4 61701000 | ● | # | # | # | # | # | # | # | # | # | # | # | # | # |
| EN 4 80110000 | EN 1 – 4 with hold-open at 90° 61701200 | ● | # | # | # | # | # | # | # | # | # | # | # | # | # |
| EN 6 80130000 | EN 1 – 4 with hold-open at 105° 61701300 | ● | # | # | # | # | # | # | # | # | # | # | # | # | # |
| Including cement box without spindle | | | | | | | | | | | | | | | |
| EN 3 80120001 | EN 1 – 4 61701001 | # | # | # | # | # | # | # | # | # | # | # | # | # | # |
| EN 4 80110001 | EN 1 – 4 with hold-open at 90° 61701201 | # | # | # | # | # | # | # | # | # | # | # | # | # | # |
| EN 6 80130001 | EN 1 – 4 with hold-open at 105° 61701301 | # | # | # | # | # | # | # | # | # | # | # | # | # | # |
| Universal cover plate | | | | | | | | | | | | | | | |
| 46700000 | 46700059 | Stainless steel | | | | | | | | | | | | | |
| 46700100 | 46700159 | Satin brass | | | | | | | | | | | | | |

● = Floor spring with spindle # = Accessories

BTS 80 specification text

Universal non-handed floor spring conforming to DIN EN 1154 for single and double action doors up to max. 300 kg leaf weight. With adjustable closing speed and closing action from approx. 175°, with hydraulically fully controlled closing cycle and backcheck. With integral pressure compensation feature for temperature-independent hold-open between 75° and 175° (removable). With adjustable hold-open start point and delayed action (end of delayed action range adjustable between 75° and 105°). Including cement box.

Size

- EN 3
- EN 4
- EN 6

Accessories

- Spindle
 - standard
 - ... mm extension
 - special model ...
- Universal cover plate (1.5 mm thick)
 - stainless steel
 - satin brass
- Sealing compound

Make: DORMA BTS 80

DORMA BTS 75 V specification text

Universal floor spring conforming to DIN EN 1154, non-handed unit suitable for LH and RH single and double action doors up to 120 kg leaf weight, with adjustable spring strength (size EN 1 – 4) and closing speed, with closing action operational from approx. 175°. Featuring hydraulically fully controlled closing cycle and backcheck. Including cement box.

Accessories

- Spindle
 - standard
 - ... mm extension
 - special design...

- Universal cover plate (1.5 mm thick)
 - stainless steel
 - satin brass

- Sealing compound

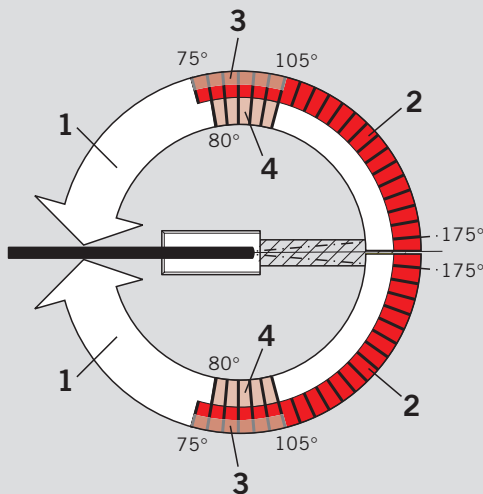
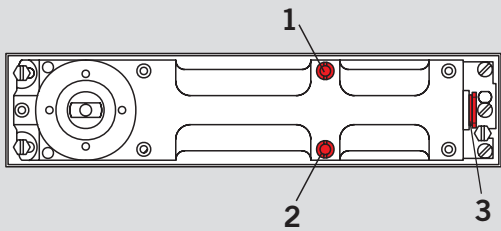
Make: DORMA BTS 75 V

Models

- With spindle
- Without spindle

- Fixed hold-open at 90°
- Fixed hold-open at 105°

Standard and optional functions of the BTS 80



- 1 Adjustable closing speed
- 2 Hold-open range or delayed action range

- 3 Adjustment range – point at which hold-open begins, or end of delayed action range (approx. 75° to 105°).
- 4 Mechanical backcheck (from approx. 80°)

Hydraulic hold-open

The integrated hold-open function allows the door to be held open at any angle between 75° and 175°. The angle at which the hold-open function begins can be adjusted in the range of 75° to 105°.

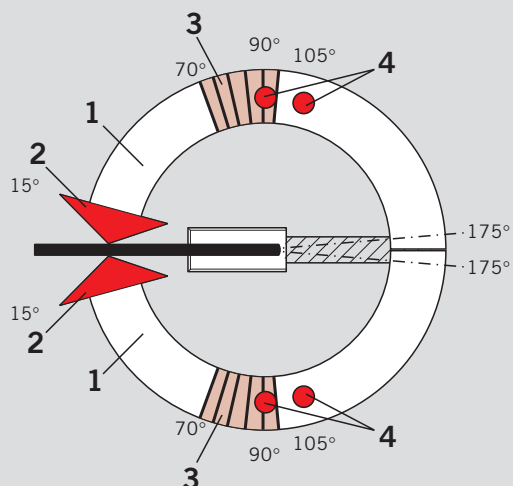
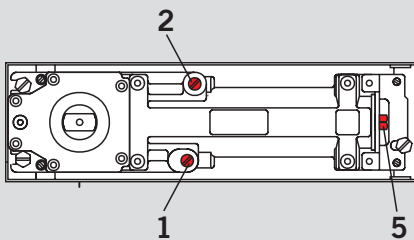
Delayed action

The delayed action function slows the door closing speed, thereby allowing disabled persons, mothers with pushchairs, staff with trolleys or hospital gurneys etc. to pass through the door without problem.

Backcheck

The integrated mechanical backcheck function protects the wall and door from damage caused by excessively vigorous opening.

Standard and optional functions of the BTS 75 V



- 1 Adjustable closing speed in the range 175° – 15°.
- 2 Adjustable closing speed in the range 15° – 0°.

- 3 Mechanical backcheck (from approx. 70°).
- 4 Fixed hold-open at 90° or 105° (option).
- 5 Adjustable spring strength (EN 1–4).

Closing speed

With two independently adjustable closing ranges (175° – 15° and 15° – 0°) the DORMA BTS 75 V is ideally adaptable to different structural conditions.

Fixed hold-open (option)

With the fixed hold-open function the door can be held open at an angle of 90° or 105°, depending on model.

Not suitable for use on Fire doors.

Backcheck

The integrated mechanical backcheck function protects the wall and door from damage caused by excessively vigorous opening.



The DORMA BTS 75 V is CERTIFIRE approved (Certificate No. 127) for door types ITT 60 and IMM, IMN 240.

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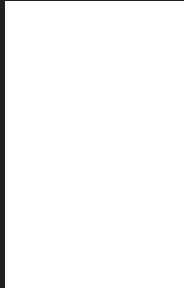
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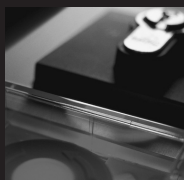
Door Control



Automatic



Glass Fittings and Accessories



Security/ Time and Access (STA)



Movable Walls

