

BTS 80 BTS 75 V Floor spring





Universal application range, individual functions, assured quality

Whether standard, narrow or wide, DIN-L, DIN-R or double action doors – as universal floor springs, the dormakaba BTS 80 and BTS 75 V are suitable for all types of doors.

A comprehensive range of accessories ensures that they can be adapted to a wide variety of door constructions and different floor finishes. The individual functions of the BTS 80 and BTS 75 V floor springs fulfil a range of different requirements while offering maximum reliability and quality.

ISO 9001 certified.



Benefits

For trade

- Reduced stock storage thanks to separate, interchangeable spindles.
- Lean product range offers all the essential functions.

For installers

- Universal use on DIN-L, DIN-R and double action doors.
- Easy adaptation to structural conditions – even after installation – by means of interchangeable spindles.

For planners

- Unblemished appearance thanks to concealed installation.
- All essential functions.
- Proven, robust construction – can be loaded with a door weight of up to 300 kg (BTS 80).

For the end user

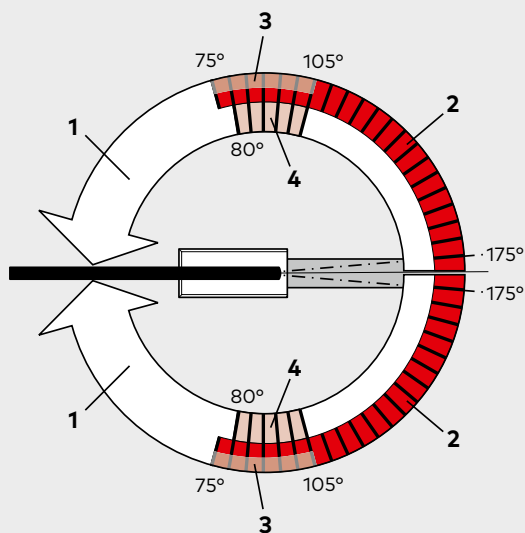
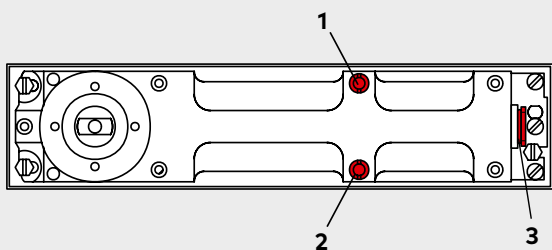
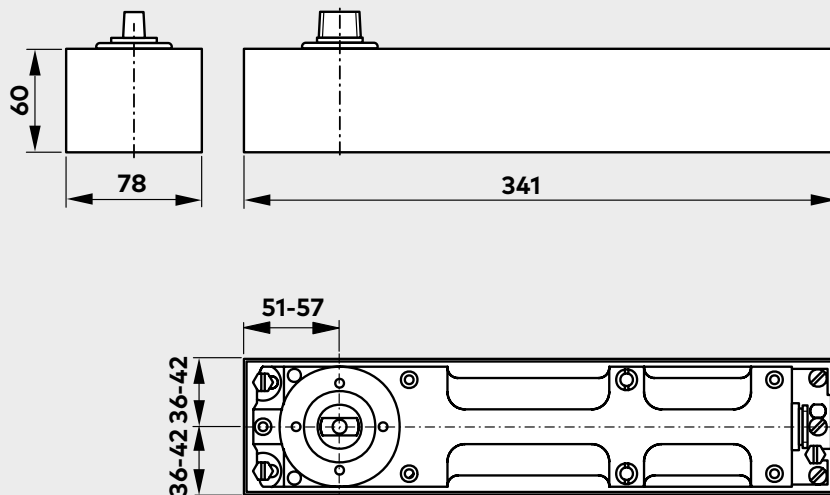
- Constant, temperature-independent closing process.
- Easy door access due to high mechanical efficiency.

Data and features		BTS 80		BTS 75 V	
Closing force size EN		3	4	6	1-4
Continuously adjustable closing force		-	-	-	●
General doors and exterior doors ¹⁾	≤ 950 mm	●	-	-	-
	≤ 1100 mm	-	●	-	●
	≤ 1400 mm	-	-	●	-
Fire and smoke doors		-	-	-	●
Max. door weight in kg		300		120	
Same design for DIN-L, DIN-R and double action doors		●		●	
Closing time	175° – 0°	●		-	
	continuously adjustable 175° – 15° using valve(s)	-		●	
Backcheck, mechanical	15° – 0°	-		●	
		●		●	
Delayed closing continuously adjustable via valve (can be activated as an alternative to hold open)		●		-	
Hold open	Adjustable	●		-	
	Constant at 90°	-		●	
	Constant at 105°	-		●	
Cover plate mounting	On cement boxes	-		-	
	On closer	●		●	
Weight in kg		7,1		3,0	
Dimensions in mm	Length	341		285	
	Width	78		82	
	Height	60		50	
Door closers tested in accordance with EN 1154		●		●	
CE-identification for construction products (Products with a factory hold open do not have any CE-identification)		-		●	

● yes – no

¹⁾ For particularly high and heavy doors as well as for doors that constantly close against strong wind pressure, we recommend dormakaba BTS 80

BTS 80



- 1 Continuously adjustable closing time
- 2 Hold-open range or delayed closing range
- 3 Setting range – start of hold open or end of delayed closing (approx. 75° to 105°)
- 4 Mechanical backcheck (from approx. 80°)

Hydraulic hold open

The integrated hold-open mechanism enables the door to be held at any hold-open angle between 75° and 175°. The start of the hold-open angle is variably adjustable between a 75° and 105° door opening angle.

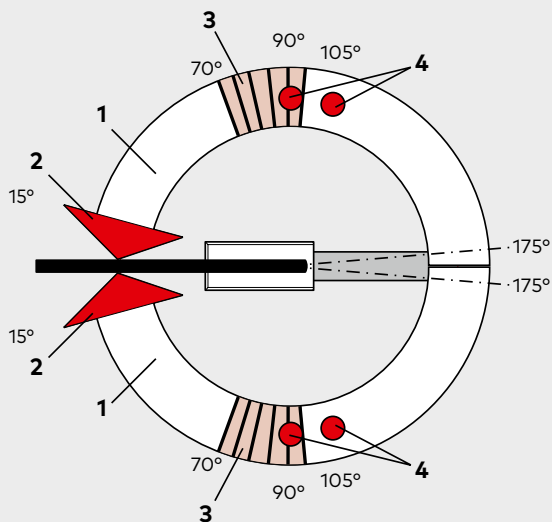
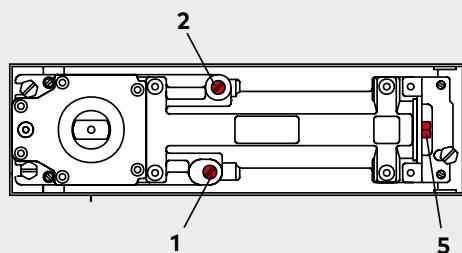
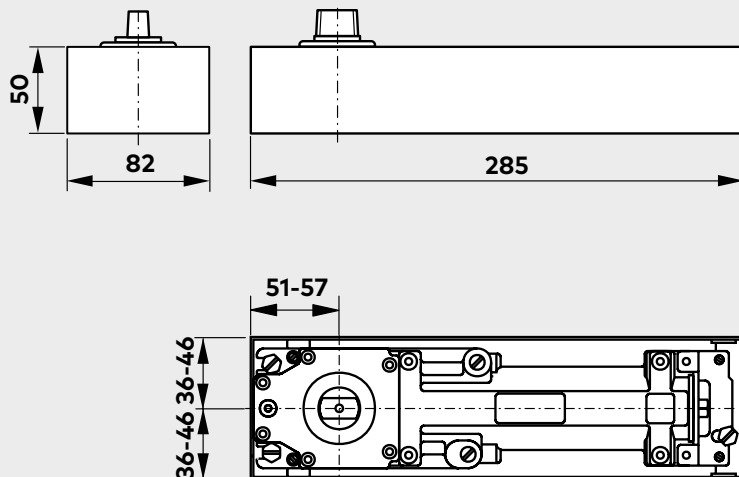
Backcheck

The integrated mechanical backcheck protects the wall and door against damage in the event of a violent opening of the door.

Delayed closing

The delayed closing causes a reduction in closing time which allows e.g. people with disabilities, mothers with pushchairs or staff with utility vehicles or hospital beds to pass through the door unobstructed.

BTS 75 V



- 1 Continuously adjustable closing time in the range from 175°–15°
- 2 Continuously adjustable closing time in the range from 15°–0°
- 3 Mechanical backcheck (from approx. 70°)
- 4 Constant hold open at 90° or 105° (optional)
Continuously adjustable closing force EN 1–4

Closing time

With two independently adjustable closing ranges of 175°–15° and 15°–0°, the BTS 75 V can be optimally adapted to structural conditions.

Backcheck

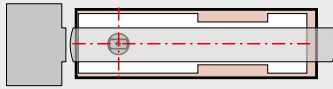
The integrated mechanical backcheck protects the wall and door against damage in the event of a violent opening of the door.

Constant hold open (optional)

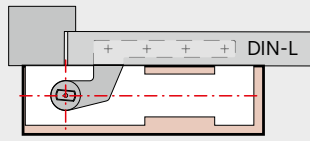
With the help of the constant hold open, the door can be held open at an opening angle of 90° or 105°, depending on the version.

Not suitable for fire and smoke doors.

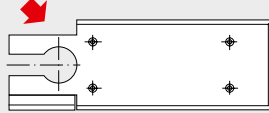
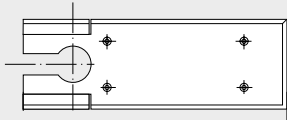
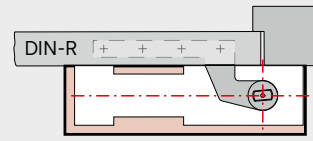
Application and installation



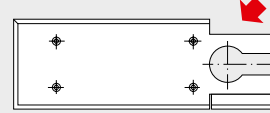
Double action door



Single action door

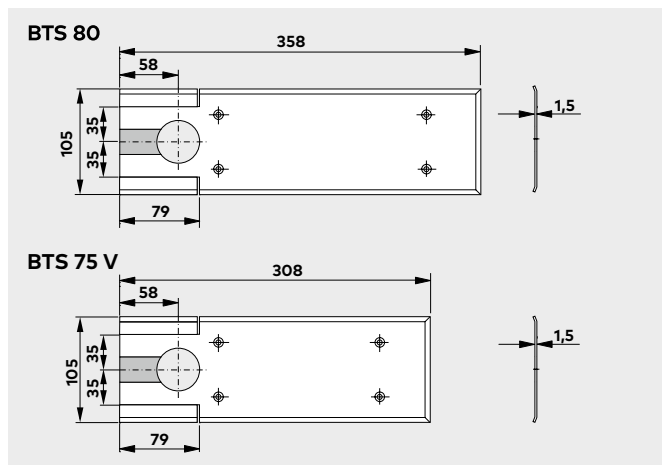


Notch on DIN-L doors



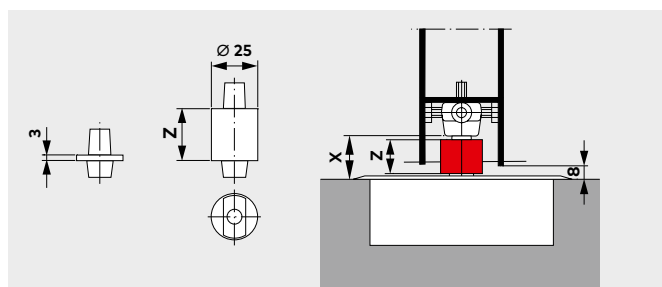
Notch on DIN-R doors

Accessories



Universal cover plate

The universal cover plate can be used on both DIN-L and DIN-R doors by simply ejecting the pre-punched corner parts. In the case of double action doors, it is mounted as delivered. The universal cover plate is optionally available in stainless steel or brass, brushed matt (material thickness 1.5 mm).



Spindles

If necessary, the floor play can be increased with the help of exchangeable spindles (e.g. for doors with thresholds, carpeted floors, etc).

Special designs on request, e.g. flat edge, offset by 3°, square and spindles for non-dormakaba accessories.

Calculation of the required axle extension:

Extension = X – floor clearance (normally 8 mm)


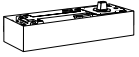



Collar height Z of the extended spindles

= axle extension + 3 mm (collar height of the normal spindle)

dormakaba 2300 sealing compound

For filling the cavities between the closer housing and the cement box to prevent the ingress of moisture (required e.g. for damp rooms according to VOB).

For additional accessories such as door levers and pivot hinges, see technical information "Accessories for dormakaba BTS floor springs".

BTS 80 Floor springs		BTS 75 V Floor springs		Spindles												2300 sealing compound		
				 Normal Extended spindles (extension in mm) 5 7,5 10 12,5 15 20 25 28 30 35 40 45 50												0,5 kg 		
				45200401	45200402	45200403	45200404	45200419	45200405	45200406	45200407	45200414	45200408	45200409	45200410	45200411	45200412	45090086
Includes cement box and normal spindle																		
EN 3 80120000	EN 1-4 61701000	●	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
EN 4 80110000	EN 1-4 with 90° hold-open function 61701200	●	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
EN 6 80130000	EN 1-4 with 105° hold-open function 61701300	●	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Includes cement box without spindle																		
EN 3 80120001	EN 1-4 61701001	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
EN 4 80110001	EN 1-4 with 90° hold-open function 61701201	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
EN 6 80130001	EN 1-4 with 105° hold-open function 61701301	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Universal cover plate																		
46700000	46700059	Stainless steel												△				
46700100	46700159	Brass, brushed matt																

● Closer with spindle △ Accessories

Specification text

BTS 80

Universal floor spring according to EN 1154, for DIN-L, DIN-R and double action doors up to 300 kg door weight, with continuously adjustable closing time, closing effect from approx. 175°, with fully hydraulically controlled closing sequence and backcheck.

With integrated pressure compensation for constant, continuously adjustable, non-temperature sensitive hold open between 75° and 175° (can be deactivated). With continuously adjustable hold-open starting point, delayed closing (end of delayed closing adjustable between 75° and 105°). Includes cement box.

Size

- EN 3
- EN 4
- EN 6

Accessories

- Spindle
 - Normal
 - ... mm extension
 - Special design ...
- Universal cover plate 1.5 mm thick
 - Stainless steel
 - Brass, brushed matt
- Sealing compound

Make:

dormakaba BTS 80

BTS 75 V

Universal floor spring according to EN 1154, for DIN-L, DIN-R and double action doors up to 120 kg door weight, with continuously adjustable closing force (size EN 1-4) and closing time, closing effect from approx. 175°, with fully hydraulically controlled closing sequence and backcheck. Includes cement box.

Version

- With spindle
- Without spindle
- Constant 90° hold open
- Constant 105° hold open

Accessories

- Spindle
 - Normal
 - ... mm extension
 - Special design ...
- Universal cover plate 1.5 mm thick
 - Stainless steel
 - Brass, brushed matt
- Sealing compound

Make:

dormakaba BTS 75 V

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability



Our offering

Access Automation Solutions

Entrance Automation
Entrance Security



Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems



Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems



Services

Technical Support
Installation and commissioning
Maintenance and Repair



WN 05092451532, EN, 04/2024
Subject to technical modifications.



dormakaba.com

dormakaba
International Holding AG
Hofwissenstrasse 24
CH-8153 Rümlang
T +41 44 818 90 11
info@dormakaba.com
dormakaba.com