



BTS 80 F

- EMB
- FLB
- -BSR

Floor spring system



Ironmongery, Curtain Rails, Blinds, Flooring, Carpets, Automatic Sliding & Swing Doors, Movable Partitions Renovations & much more

- **** 0722 493 359 / 0726 399 819
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Door closer system for singleand double-leaf doors

The door closer system BTS 80 perform its function discreetly yet still meet exacting convenience and safety criteria and is suitable for doors up to 300 kg. The technique of floor spring is almost invisible placed in the ground.

The BTS 80 system with its 3 model variants BTS 80 F (Floor spring for fire and

smoke check doors), BTS 80 EMB (with electro-hydraulic hold open), BTS 80 FLB (with free-swing function) and the wide range of accessories allows effective adaptability to various door desingn and -functions. In conjunction with the door-coordinator BSR, a use at double-leaf doors is possible.









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3

Wide range of functions, concealed assembly, assured quality.

DORMA floor springs offer the perfect combination between freedom of creation and greatest reliability by their concealed floor mounting, providing a multitude of functions at the same time. Just as the requirements of preventive fire protection, the desire for barrier-free usage convenience and specific functions, like electrohydraulic hold-open

and free-swing, is fulfilled. Long-term engineering experience and a manufacture certified according to ISO 9001 give the certainty of an assured and high quality.

Plus points	
For the trade	For the architect/specifie

- 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.

- Concealed installation.
- Range of functions to suit
- all applications.
- Proven, robust unit for doors weighing up to 300 kg.

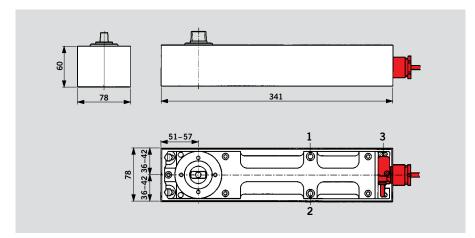
· All models tested and

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 Si	ze	Size EN			
Standard doors					
		1100 mm	4	4	4
	up to	1250 mm	5	5	5
		1400 mm	6	6	6
Fire and smoke					
		1100 mm	4	4	4
		1250 mm	5	5	5
	up to	1400 mm	6	6	6
Handed model					
	LH (I	SO 6)	•	•	•
	RH (ISO 5)	•	•	•
	Unive	ersal	•	•	_
Closing speed v by valve adjustr		е	•	•	•
Latching action		ole			
by valve adjustr	nent		•	•	_
Backcheck, med	chanic	al	•	•	_
Delayed action			_	_	-
Hold-open, elec					
Hold-open point between 75 and			_		_
Free swing 0–1			_		•
Weight in kg	50		7,1	7,7	7,7
Dimensions in r	nm		7,1	,,,	7,7
Difficusions in i	Leng	th	341	341	341
		all depth	78	78	78
	Heigl	nt	60	60	60
Power input in	_		_	2,3	2,3
Operating voltage					
residual ripple i			_	24	24
Rated for contin	nuous	duty	_	100	100
Door closer tested to EN 11	.54		•	•	•
Hold-open device tested to EN 11			_	•	•
CE marking for building produc	ts		•	•	•
• Yes - No		ion			



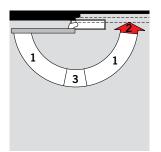
- 1 Closing speed adjustment valve
- 2 Latching speed adjustment valve (not available with the BTS 80 FLB)
- 3 Plug connector with cable for EMB and FLB power supply





DORMA BTS 80 F

Floor spring



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

Example shows LH (ISO 6) door; mirrored arrangement applies to RH (ISO 5) door.

DORMA BTS 80 F can be used on fire and smoke check doors. The doors must be especially designed for the use with the floor spring (distance to door hinge pivot 36 mm). An additional approval of suitability in connection with the particular fire and smoke check door is required. For the use on legally approved fire door assemblies, the regulations of the respective notice of approval must be complied with.

F Approval certification

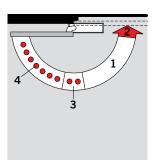
The DORMA BTS 80 F has been approved, and is subject to third-party verification, by the State Material Testing Agency (MPA), / Dortmund, Germany.

certifire

CERTIFIRE approved for fire doors; Cert. no. 128

DORMA BTS 80 EMB

Floor spring with electromagnetic hold-open



- 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 (ISO 6) door; mirrored arrangement applies to RH (ISO 5) door.

DORMA BTS 80 EMB can be used on fire and smoke check doors. The doors must be especially designed for the use with the floor spring (distance to door hinge pivot 36 mm). An additional approval of suitability in connection with the particular fire and smoke check door is required. For the use on legally approved fire door assemblies, the regulations of the respective notice of approval must be complied with.

F Approval certification

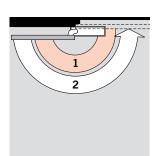
The DORMA BTS 80 EMB has been approved by the Institute for Building Technology, Berlin, for use in combination with all common smoke detector systems. Acceptance inspection of the system is mandatory.



CERTIFIRE approved for fire doors: Cert. no. 128

DORMA BTS 80 FLB

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



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

Example shows LH (ISO 6) door; mirrored arrangement applies to RH (ISO 5) door.

DORMA BTS 80 FLB can be used on fire and smoke check doors. The doors must be especially designed for the use with the floor spring (distance to door hinge pivot 36 mm). An additional approval of suitability in connection with the particular fire and smoke check door is required. For the use on legally approved fire door assemblies, the regulations of the respective notice of approval must be complied with.

F 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. Acceptance inspection of the system is mandatory.

Certifire

CERTIFIRE approved for fire doors; Cert. no. 128

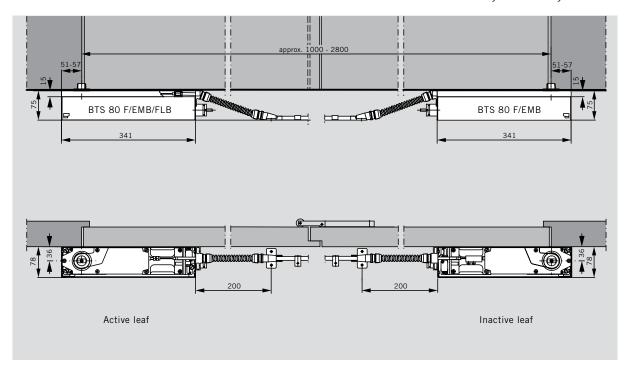


The DORMA BSR door co-ordinator ensures that, in **double doors**, the active leaf always closes after the inactive leaf.

In the case of doors with full emergency escape hardware, the inactive leaf must be equipped with a carry bar.

F Approval certification

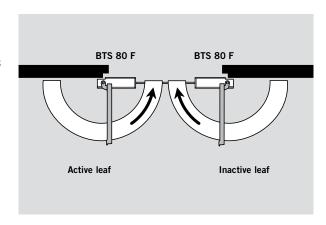
The DORMA BSR is approved in Germany for use in combination with double fire and smoke doors by the State Material Testing Authority, Dortmund. Further fire approvals exist or are pending in other countries. Additional approval certification of the relevant fire and smoke doors may be necessary.



DORMA BSR

The door co-ordinator operates independently of the hydraulics of the floor springs and consists of two mechanisms, one for the active and one for the inactive leaf, which are interconnected by a Bowden cable.

The DORMA BSR door co-ordinator is non-handed and is combined with DORMA BTS 80 F/EMB/FLB floor springs.

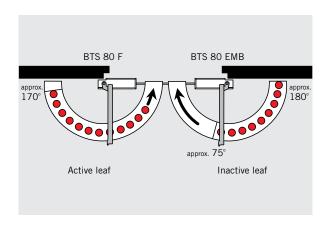




DORMA BSR EMB 1

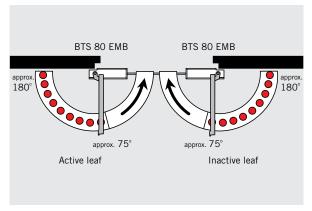
With just one hold-open device for the inactive leaf, this door co-ordinator enables both door leafs to be held open. The inactive leaf can be held open at a point between approx. 75° and 180° (fall-back approx. 3°),

while the active leaf is held open by the door co-ordinator at any desired an



DORMA BSR EMB 2

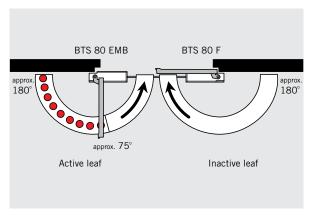
With this door co-ordinator, the active leaf can be held open independently of the inactive leaf. The hold-open points of both leaves lie between approx. 75° and 180° (fall-back approx. 3°).



DORMA BSR EMB 1 G

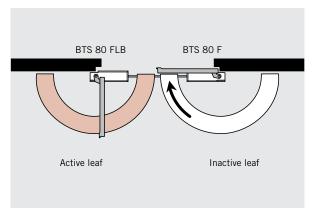
With this door co-ordinator for special door designs incorporating, for example, fixed side panels, or a narrow inactive leaf in asymmetric double door sets, etc., the active leaf can be held open separately.

The hold-open point lies between approx. 75° and 180° (fall-back approx. 3°).



DORMA BSR FLB 1 G

This door co-ordinator with integral free-swing function for the active leaf can also be installed where the doors are to remain free-moving but must nevertheless close.



Application for LH (ISO 6)

offset pivoted door

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.

Cover plate BSR

The cover plate in the version for LH- or RH-doors is available in stainless steel

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

or satin brass (material thickness 1.5 mm).

BSR 388 T9 Example shows LH (ISO 6) door; mirrored arrangement applies to RH (ISO 5) door.

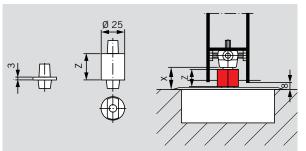
Application for RH (ISO 5)

offset pivoted door

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.



Calculating the necessary length of spindle extension:

Extension = **X** - Floor clearance (normally 8 mm)

Collar height **Z** of the extended spindle inserts = Spindle extension length + 3 mm (collar height of the standard spindle insert)

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.





Floor spincludi without	rd equipment and pring BTS 80 F/E ng cement box t spindle		Normal (F)	dles 200402 5	7,5 7,5 7,5 7,5 7,5 7,5 7,5 7,5 7,5 7,5	45200404 0	12,5	45200405 51	Exten 0 2200406 0 245200406 0 245200406	25 2407	28	45200408 & (T)		45200410 &		0412 6	Sealing compound, 2300
			45200401	4520	4520	4520	4520	4520	4520	45200407	45200414	4520	45200409	4520	45200411	45200412	45090086
BTS 80) F		,	,	,	'	,	,	7	,	'	'	'	'	,	7	43090080
EN 4	LH (ISO 6) RH (ISO 5) Universal	80220101 80220201 80220001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 5	LH (ISO 6) RH (ISO 5) Universal	80210101 80210201 80210001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 6	LH (ISO 6) RH (ISO 5) Universal	80230101 80230201 80230001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
BTS 80		00200001															
EN 4	LH (ISO 6) RH (ISO 5) Universal	82224101 82224201 82224001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 5	LH (ISO 6) RH (ISO 5) Universal	82214101 82214201 82214001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 6	LH (ISO 6) RH (ISO 5) Universal	82234101 82234201 82234001	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
BTS 80	LH (ISO 6) RH (ISO 5)	82124101 82124201	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 5	LH (ISO 6) RH (ISO 5)	82114101 82114201	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EN 6	LH (ISO 6) RH (ISO 5)	82134101 82134201	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
Stainle	ss steel	46700000											#				
Satin b	prass	56700100		1												,	

= Accessories

BSR										
Door co-ordinato	Floor spring				pindl	es	Cover Plates			
							LH (ISO 6)			
				Normal	Exte	nsion	Stainless steel	46700080		
					in mm		Satin brass 46700			
					5 -	25	RH (ISO 5)			
				45200470	520047	45200477				
		BTS 80 F	BTS 80	BTS 80	320(320	200	Stainless steel	46700081	
Variant	45700900		EMB	FLB	45	4	4	Satin brass	46700281	
BSR	1x	2x								
BSR-EMB 1	1x	1x	1x		#	#	#	#		
BSR-EMB 2	BSR-EMB 2 1x			2x				1x LH		
BSR-EMB 1 G	1x	1x	1x		2x	2x	2x	1x RH		
BSR-FLB 1 G	1x	1x		1x						

Specification text

Ploor spring to EN 1154, with CE mark, with fully hydraulic control of the closing action from 180°, adjustable latching action and backcheck. Including cement box.		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 Spindle standard standard sealing compound Make: DORMA BTS 80 F
DORMA BTS 80 EMB			
Floor spring to EN 1154, with CE mark, with electrohydraulic hold-open, to EN 1155 and integrated pressure compensation for constant, adjustable, temperature-immune hold-open between door opening angles of approx. 75° and 180°. With adjustable closing speed under full hydraulic control, adjustable latching action and backcheck.	Including cement box. Operating voltage: 24vDC Power input: 2.3 W Approved by the German Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance inspection of the system is mandatory.	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 Spindle standard standard sealing compound Make: DORMA BTS 80 EMB
DORMA BTS 80 FLB			
Floor spring to EN 1154, with CE mark, with electrohydraulic free-swing function to EN 1155 between door opening angles of 0° and 180°, closer function (non-powered) effective from 180°, and with backcheck (non-powered). Including cement box.	Operating voltage: 24vDC Power input: 2.3 W Approved by the German Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance inspection of the system is mandatory.	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 Spindle standard mm extension Sealing compound Make: DORMA BTS 80 FLB
DORMA BTS 80 BSR			
DORMA BTS 80 BSR Floor spring to EN 1154, with CE mark, with fully hydraulic control of the closing action from 180°, adjustable latching action, backcheck and door coordination function conforming to EN 1158, operating independently of the closer hydraulics, comprising an active leaf and an inactive	nected by a bowden cable. Including cement box, non-handed.	Size □ EN 4 □ EN 5 □ EN 6	Accessories Universal cover plate (1.5 mm thick) stainless steel satin brass Spindle standard standard sealing compound Make: DORMA BTS 80 BSR



leaf mechanism intercon-



DORMA BTS 80 BSR-EMB 1

Floor spring to EN 1154, with CE mark, with electrohydraulic hold-open to EN 1155 at the inactive leaf and integrated pressure compensation for constant, adjustable, temperature-immune hold-open between door opening angles of approx. 75° and 180°. With adjustable closing speed under full hydraulic control, adjustable latching action,

backcheck and door coordination function conforming to EN 1158, operating independently of the closer hydraulics, comprising an active leaf and an inactive leaf mechanism interconnected by a bowden cable. Including cement box, nonhanded. Operating voltage: 24vDC Power input: 2.3 W Approved by the German Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance inspection of the system is mandatory.

Size □ EN 4

□ EN 5
□ EN 6

Accessories	
□ Cover plate	es
(1.5 mm t	hi

(1.5 mm thick)

☐ stainless steel

☐ satin brass

☐ Spindle ☐ standard

□ . . . mm extension□ Sealing compound

Make:

DORMA BTS 80 BSR-EMB 1

DORMA BTS 80 BSR-EMB 2

Floor spring to EN 1154, with CE mark, with electrohydraulic hold-open to EN 1155 at the inactive and active leaf and integrated pressure compensation for constant, adjustable, temperature-immune hold-open between door opening angles of approx. 75° and 180°. With adjustable closing speed under full hydraulic control, adjustable latching

action, backcheck and door co-ordination function conforming to EN 1158, operating independently of the closer hydraulics, comprising an active leaf and an inactive leaf mechanism interconnected by a bowden cable. Including cement box, non-handed.

Operating voltage: 24vDC Power input: 4.6 W Approved by the German Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance inspection of the system is mandatory.

Size

□ EN 4

□ EN 5

□ EN 6

Accessories

☐ Cover plates
(1.5 mm thick)
☐ stainless steel

□ satin brass
□ Spindle
□ standard

□ . . . mm extension□ Sealing compound

Make:

DORMA BTS 80 BSR-EMB 2

DORMA BTS 80 BSR-EMB 1G

Floor spring to EN 1154, with CE mark, with electrohydraulic hold-open to EN 1155 at the active leaf and integrated pressure compensation for constant, adjustable, temperature-immune hold-open between door opening angles of approx. 75° and 180°. With adjustable closing speed under full hydraulic control, adjustable latching action,

backcheck and door coordination function conforming to EN 1158, operating independently of the closer hydraulics, comprising an active leaf and an inactive leaf mechanism interconnected by a bowden cable. Including cement box, nonhanded. Operating voltage: 24vDC Power input: 2.3 W Approved by the German Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance inspection of the system is mandatory.

Size ☐ EN 4 ☐ EN 5

□ EN 6

Accessories

☐ Cover plates
(1.5 mm thick)

☐ stainless steel ☐ satin brass

☐ Spindle ☐ standard

☐ . . . mm extension

☐ Sealing compound

Make:

DORMA BTS 80 BSR-EMB 1G

DORMA BTS 80 BSR-FLB 1G

Floor spring to EN 1154, with CE mark, with electrohydraulic free-swing function at the active leaf between door opening angles of approx. O° and 180°, closer function (non-powered) effective from 180°, with backcheck (non-powered) and door co-ordination function conforming to EN 1158, operating independently of the closer

hydraulics, comprising an active leaf and an inactive leaf mechanism interconnected by a bowden cable. Including cement box, nonhanded.

Operating voltage: 24vDC Power input: 2.3 W Approved by the German Institute for Building Technology, Berlin, for use in hold-open systems. Acceptance inspection of the system is mandatory.

Size

□ EN 4

□ EN 5

□ EN 6

Accessories

☐ Cover plates (1.5 mm thick)

☐ stainless steel
☐ satin brass

☐ Spindle

☐ standard☐ . . . mm extension

☐ Sealing compound

Make:

DORMA BTS 80 BSR-FLB 1G







0722 493 359 / 0726 399 819

info@nextcraftke.com

Gate No. 95A Limuru Road, Parklands.

www.nextcraftke.com