



Easy-action
Door Closer

DORMA TS 83

Easy-action door closer with “thinking” backcheck

Easy to fix and even easier to adjust. The door closer for almost every door size and application.

Decades of experience have gone into the development of the DORMA TS 83.

The result is user comfort coupled with outstanding versatility. It can be adjusted to suit almost all types of door. It can even be supplied with additional

anti-corrosion protection for exposed applications or aggressive conditions. Fixing couldn't be easier – and last but not least – it's engineered for excellence.

Certified to ISO 9001.

Plus points

For the trade

- Low inventory costs and reduced stocking requirement thanks to streamlined product range.
- Practical and effective solutions to meet special applications thanks to comprehensive choice of accessories.

For the installer

- Easy to fix.
- Can be “tailored” to the requirements of the door by simple adjustment.
- Just one model for RH (DIN-R, ISO 5) and LH (DIN-L, ISO 6) doors, and for standard and frame/lintel fixing.
- Spring strength range EN 2–6 to suit virtually every application.

For the specifier/architect

- Compact closer design and sturdy flat-form arm assembly.
- Wide range of standard functions supplemented by optional extras.
- Suitable for fire doors.

For the user

- Optimum wall and door protection thanks to “thinking” backcheck.
- Closing speed virtually unaffected by temperature fluctuations.
- Proportionately low opening resistance thanks to high mechanical efficiency.



The TS 83 conforms to most recognised international standards and complies with the requirements and/or recommendations of the following: CERTIFIRE approved for fire doors ITT; Ref. CF 118

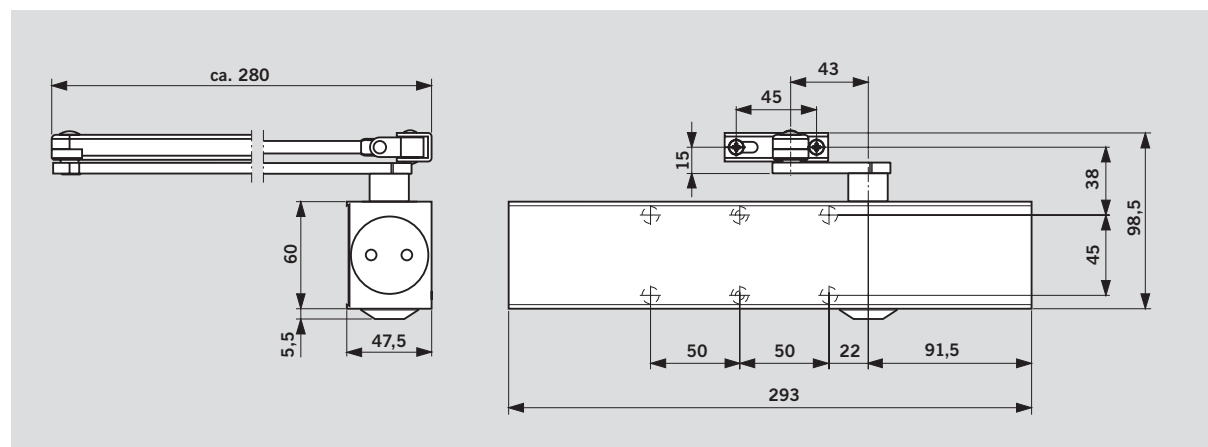
Data and features

TS 83

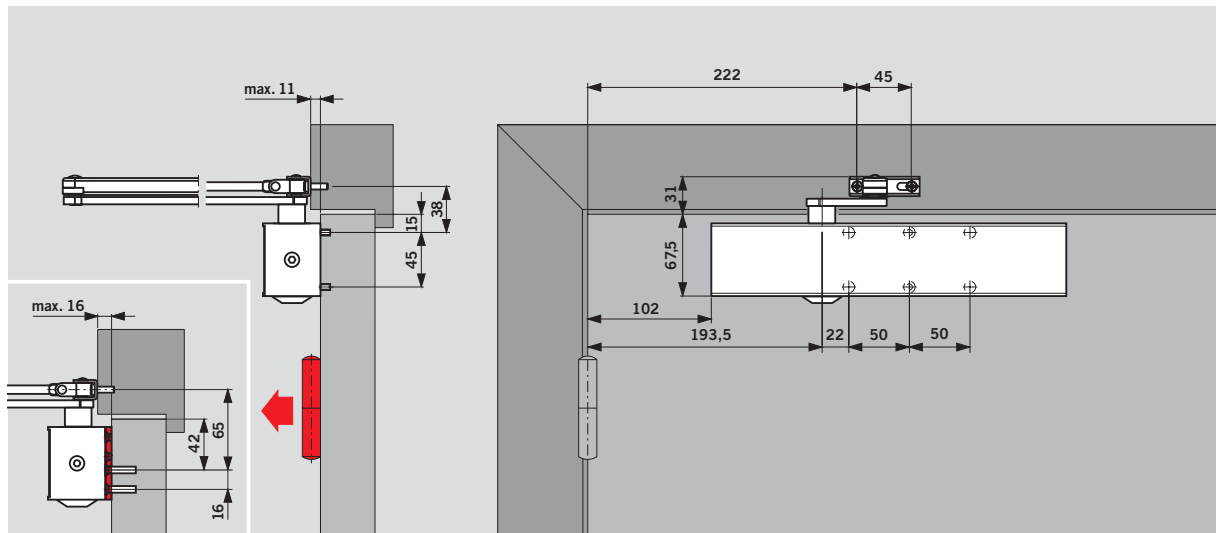
Variable closing force	Spring strength	EN 2 – 6	EN 7
Standard doors ¹⁾	≤ 1400 mm ≤ 1600 mm	● –	– ●
External doors, outward opening ¹⁾	≤ 1400 mm ≤ 1600 mm	● –	– ●
Fire and smoke check doors ¹⁾	≤ 1400 mm ≤ 1600 mm	● –	– ●
Same model for RH (DIN-R, ISO 5) and LH (DIN-L, ISO 6)		●	●
Arm assembly type	Standard	●	●
	Flat-form	●	●
	Slide channel	–	–
Closing force variable by means of adjustment screw		●	–
Sweep speed variable by means of valve adjustment		●	●
Latching speed adjustable	at arm	●	●
	at valve	–	–
Backcheck	self-regulating	●	●
	adjustable at valve	●	●
Delayed action variable at valve		○	–
Hold-open		○	○
Weight in kg		3.3	3.3
Dimensions in mm	Length	293	293
	Overall depth	47.5	47.5
	Height	60	60
Door closer tested to EN 1154		●	●

● yes – no ○ option

¹⁾ For applications involving particularly heavy or wide doors, and doors which have to close against wind resistance, the next highest closer size or a higher spring strength should be applied.

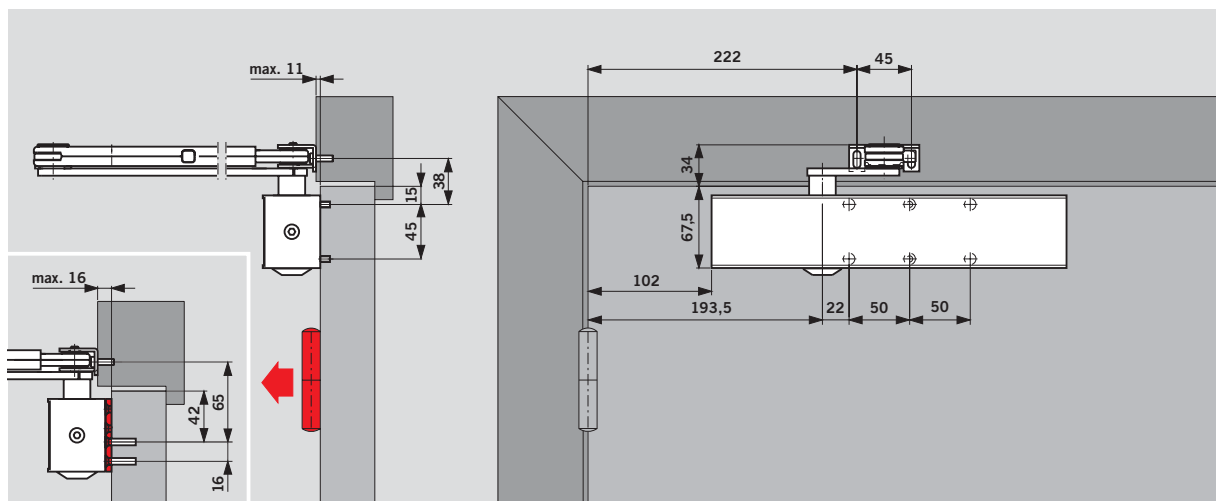


Door leaf fixing, pull side (example shows LH (ISO 6) door; RH (ISO 5) doors mirrored arrangement)

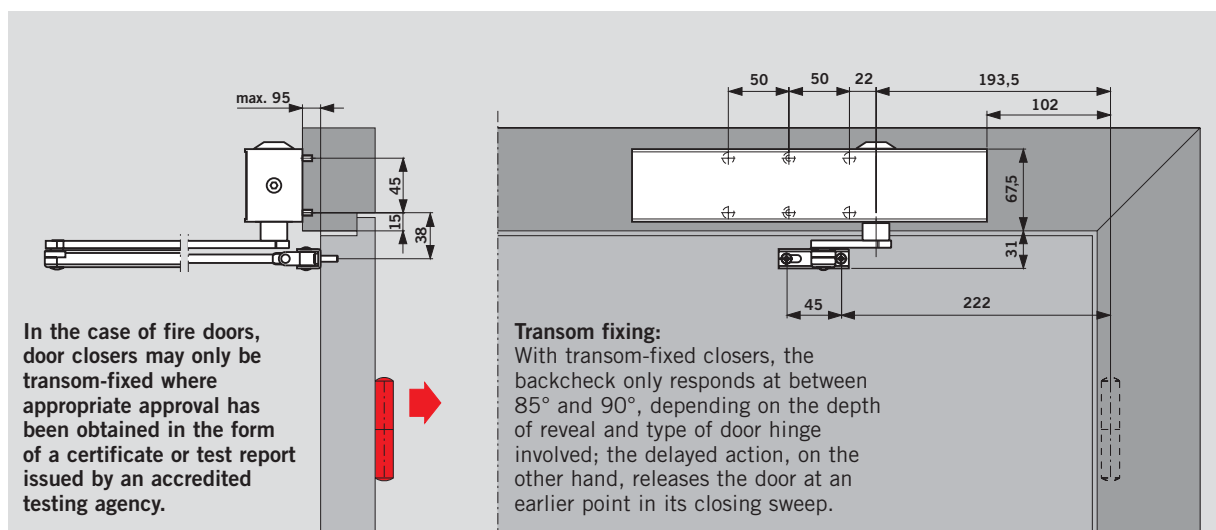


Door leaf fixing with hold-open arm

(example shows LH (ISO 6) door; RH (ISO 5) doors mirrored arrangement)



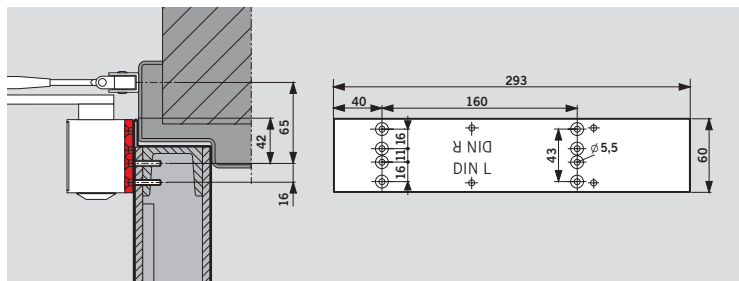
Transom fixing, push side (example shows LH (ISO 6) door; RH (ISO 5) doors mirrored arrangement)



Mounting backplate

Art. No. 8380

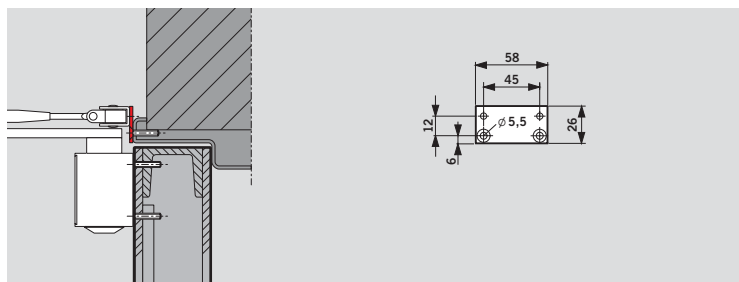
For use with fire and smoke check doors and also as an intermediate plate when direct fixing to the door is not possible; with fixing hole pattern to EN 1154, supplement 1.



Arm bracket adapter plate

Art. No. 8365

For fixing the arm bracket to particularly narrow door frames.

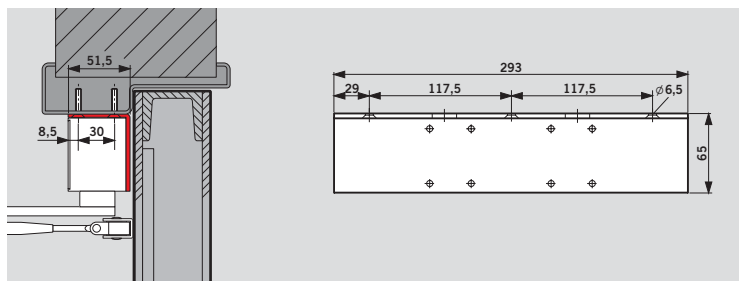


Angle bracket

Art. No. 8357

For frame/lintel fixing of the closer on the push side of doors with deep reveals.

On fire and smoke check doors, proof of suitability required in relation to the individual door concerned.

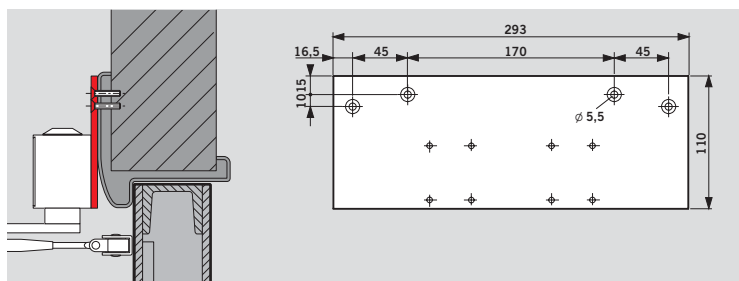


Drop plate

Art. No. 8359

For installation on frame when direct fixing of closer is not possible.

On fire and smoke check doors, proof of suitability required in relation to the individual door concerned.

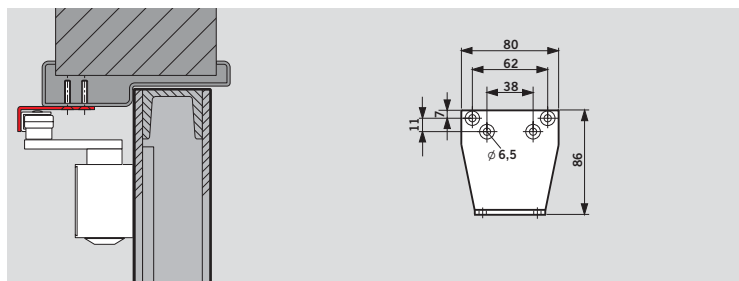


Parallel arm bracket

Art. No. 8382

For parallel arm installation on the push side (see fixing instructions for dimensions).

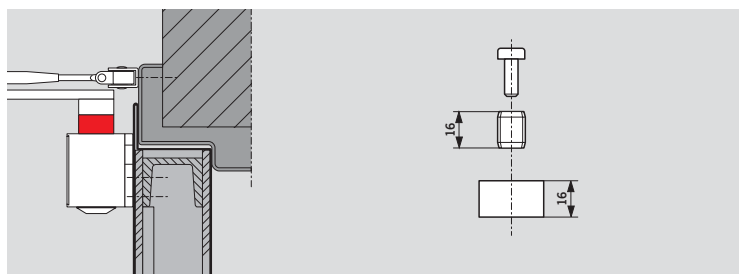
On fire and smoke check doors, proof of suitability required in relation to the individual door concerned.



Spindle extension

Art. No. 8349

For increasing the distance between the closer and the arm assembly in the case of doors with a high overlap; 16 mm high.



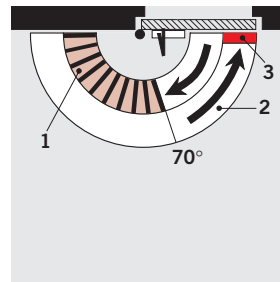
Standard and optional functions

With “thinking” backcheck – Model BC/ÖD

Thanks to an innovative design concept, the resistance developed by this backcheck system as the door is opened beyond approx. 70° is directly proportional to door acceleration. It is almost imperceptible when the door is opened slowly. However, if the door is opened hastily, the backcheck responds in equal measure.

And if the door should be flung open at speed – whether deliberately, thoughtlessly, accidentally or as a result of a gust of wind – the backcheck reacts at full strength, protecting the wall and door from damage.

If no backcheck function is required, the system can simply be switched off.

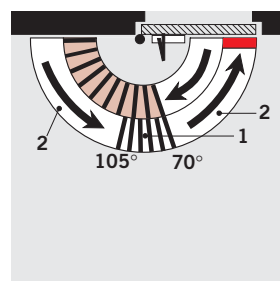
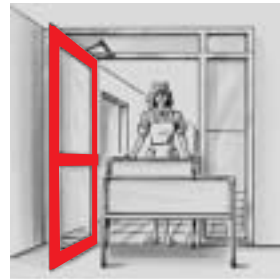


- 1 Self-regulating backcheck
- 2 Fully controlled closing with adjustable speed
- 3 Adjustable latch range

With additional delayed action – Model BC/ÖD + DC/SV

This model with its additional, integrated delayed action enables the closing cycle to be retarded within an adjustable range so that disabled persons, mothers with prams and people carrying bulky items are able to pass through the door without difficulty.

This model can also be used for fire doors.

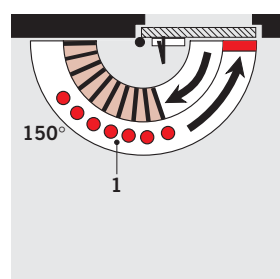


- 1 Adjustable delayed action
- 2 Fully controlled closing with adjustable speed

With hold-open – Model with hold-open arm

Combining the TS 83 with a hold-open arm enables the door to be held open at an appropriate angle (up to approx. 150°).

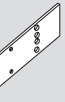
The hold-open function in the standard hold-open arm can be switched on and off by the user by simply pressing a switch.



- 1 Hold-open range

Hold-open arms are not approved for fire and smoke check doors.

Supply and accessory information

Closer body TS 83	Standard arm	Standard arm anti- corrosive type (AC)	Flat-form arm	Hold-open arm with on/off switch	Mounting backplate	Arm bracket adapter plate	Angle bracket	Drop plate	Parallel arm bracket	Spindle extension 16 mm
										
	220023xx		830001xx	220030xx	830011xx	830014xx	830013xx	830012xx	280066xx	83003705
Size EN 2 – 6 BC/ÖD ■ 830101xx					#	#	#	#	#	#
Size EN 2 – 6 BC/ÖD+DC/SV ■ 830401xx					#	#	#	#	#	#
Size EN 2 – 6 BC/ÖD (AC)					#	#	#	#	#	#
Size EN 7 BC/ÖD ■ 830501xx					#	#	#	#	#	#

Order No.:

■ = Body only

□ = Arm only

■□ = Closer with arm,
complete

= Optional accessory

Colour*)

silver

white (RAL 9016)

white (RAL 9010)

other

xx

01

11

10

09

* Anti-corrosion protected
closers and arms
available in silver (01)
only.

Specification text

Easy-action rack and pinion
door closer with integral
self-regulating backcheck;
adjustable closing speed
and adjustable latch range.

Model

- ☐ with additional, adjustable
delayed action
☐ with standard arm
☐ with flatform arm
☐ anti-corrosion protected (AC)
☐ with hold-open arm with
switch

Size

- ☐ EN 2 – 6,
spring strength adjustable
☐ EN 7

Accessories

Colour

- ☐ silver
☐ white (sim. RAL 9016)
☐ white (sim. RAL 9010)
☐ other
(sim. RAL _____)

Model make DORMA TS 83

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