

# The cam action door closer system

Under the designation TS 93, DORMA is able to offer an impressive range of cam action door closers in the Contur design ensuring not only aesthetic appeal but also unbeatable ease of use. The DORMA TS 93 system is based on a modular concept designed to meet almost every conceivable functional requirement.

### Force profiles

The linear drive of the DORMA TS 93 door closer system features a heart-shaped cam that ensures an almost immediate reduction in resistance as the door is opened.

### Approval certification

The DORMA TS 93 B has been tested and approved to EN 1154 by the State Material Testing Authority, Dortmund/Germany and is subject to third-party quality verification. Regular audit testing is undertaken. Test reports and/or certificates are available on request. In the case of the transom-fixed DORMA TS 93 B and the DORMA TS 93 G for door leaf and transom fixing, additional approval certification may be required in conjunction with the fire and smoke check door concerned – check local regulations. The TS 93 carries the CE mark.

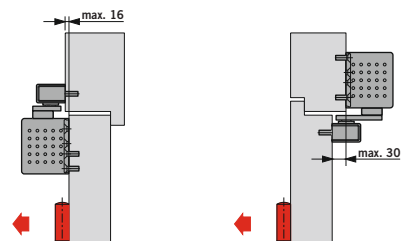
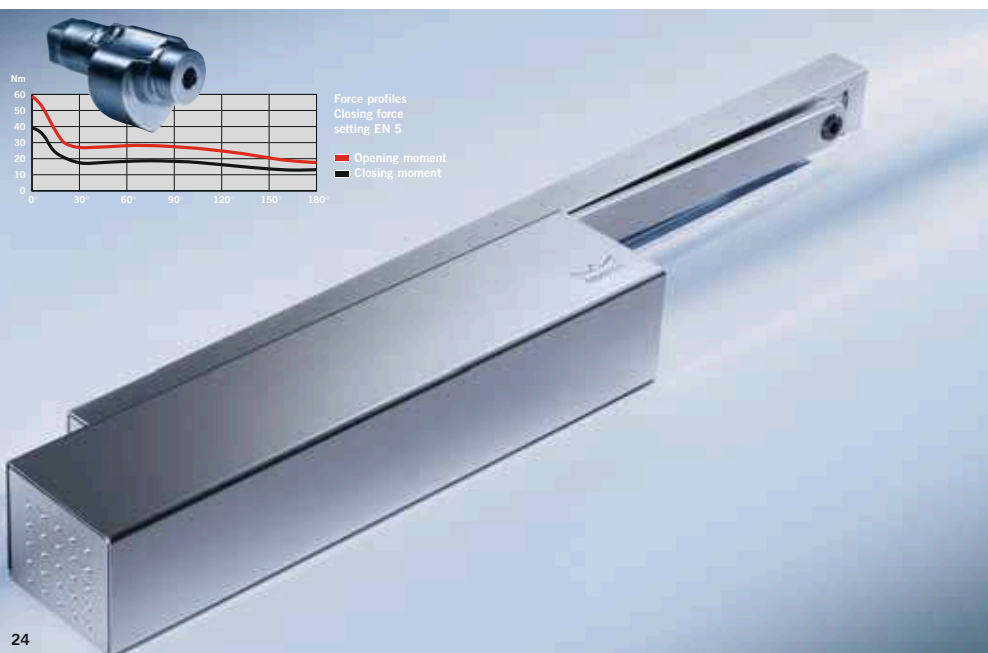
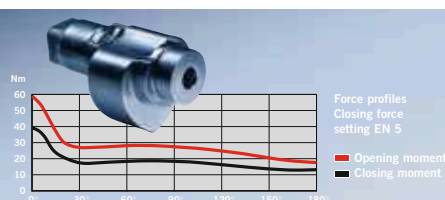


### Standard backcheck – BC/ÖD

The backcheck serves to absorb a large proportion of the energy generated when a door is thrown open or caught by the wind. This protects both the door and wall from damage.

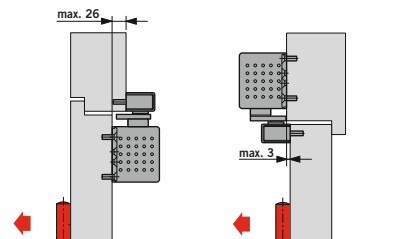
### Standard delayed closing action – DC/SV

The delayed action feature reduces the closing speed between door opening angles of 120° and 70°. This gives more time e.g. to the disabled, mothers with prams or nurses with hospital beds to pass through a doorway.



**Door leaf fixing on the pull side DORMA TS 93 B**  
Structural conditions permitting, opening angle = approx. 180°

**Transom fixing on the push side DORMA TS 93 B**  
Structural conditions permitting, opening angle = approx. 120° to 145°; backcheck and delayed closing action non-operative



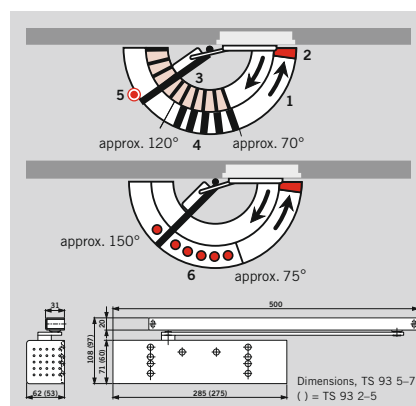
**Door leaf fixing on the push side DORMA TS 93 G**  
Structural conditions permitting, opening angle = approx. 120° to 145°; a door stop must be installed for fire and smoke check doors

**Transom fixing on the pull side DORMA TS 93 G**  
Structural conditions permitting, opening angle = approx. 180°

Data and features		TS 93 B/G	
Closing force, adjustable	Spring strength	EN 2–5	EN 5–7
Standard doors and fire/smoke check doors <sup>1)</sup>	≤ 1250 mm	•	–
	≤ 1600 mm	–	•
External doors, outward opening <sup>1)</sup>	≤ 1250 mm	•	–
	≤ 1600 mm	–	•
Non-handed		•	•
Slide channel		•	•
Closing force adjustable by screw		•	•
Closing speed adjustable by valve		•	•
Latching speed adjustable by valve		•	•
Backcheck (BC) adjustable by valve		•	•
Delayed closing action (DC/SV) adjustable by valve		•	•
Hold-open (not for fire and smoke check doors)		○	○
Dimensions in mm	Length (L)	275	285
	Overall depth (B)	53	62
	Height (H)	60	71
CE mark for construction products		•	
Door closer system compliant with EN 1154, EN 1155 and 1158			
• yes – no ○ optional			

<sup>1)</sup> For applications involving particularly heavy or wide doors, and doors that have to close against wind resistance, the next highest door closer size should be selected, or the closing force adjusted to a higher setting.

All examples refer to left-hand (ISO 6) doors; mirror image applies to right-hand (ISO 5) doors.



- DORMA TS 93 N**
- Non-handed model for RH (ISO 5) and LH (ISO 6)
  - Adjustable closing force (EN 2–5, 5–7)
  - Adjustable closing speed (1)
  - Adjustable latching action (2)
  - Adjustable backcheck (3)
  - Delayed closing action (4)
  - Floor stop OGRO TZ 5000 (5)
  - Optional mechanical RF hold-open with on/off switch (not suitable for fire and smoke check doors) (6)
  - Mounting backplate, incl. universal fixing hole pattern
  - Cushioned limit stay, optional
- For specification texts, see page 288 ff.