

Perfect solution for healthcare facilities, thanks to its delayed closing







GROOM PRODUCT ADVANTAGES

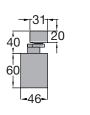
- Adjustable delayed closing by grub screw on front: perfect for healthcare facilities
- . High opening flexibility thanks to its asymmetric pinion technology
- · Latching and closing speed adjustable by grub screw on front
- · Adjustable backcheck by grub screw on front
- · Relief valve as a standard
- Opening range up to 180° on hinged side
- · Invisible fixings hidden by its clipped cover
- · Aesthetic, arm without any visible fixing
- Fitting on any type of support (wood, aluminum, PVC)
- Sustainable and continuous adjustments thanks to its thermostable technology
- · Optional multiple fittings

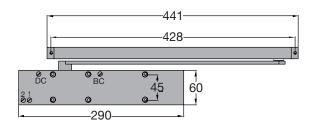
5 YEARS WARRANTY



TECHNICAL CHARACTERISTICS	GR450
Closing force	EN 3
Maximum dimension of the door	< 950 mm
Tested to EN 1154	YES
C ∈ mark for construction products	YES
Disability Compliance < 50 N	YES
Fire door, anti-flame and smoke check doors	YES
Adjustable closing speed by grub screw 180° - 15°	YES
Latching adjustable by grub screw 15° - 0°	YES
Adjustable backcheck by grub screw 65° - 180°	YES
Adjustable delayed closing by grub screw 105° - 70°	YES
Scissor arm	NO
Slide arm	YES
Hold-open arm module (prohibited on fire doors)	OPTION
Cushioned limit stay	OPTION
Standard colors: silver, white, black	YES
RAL colors	OPTION
High Quality finishes	OPTION

DOOR-CLOSER DESIGN





1: adjustable closing speed 180° - 15° 2: adjustable latching 15°-0° BC: adjustable backcheck 65° - 180° DC: adjustable delayed closing 105° - 70°



ALL ACCESSORIES ARE AVAILABLE ON PAGES 44/45



FIXING

> Functions

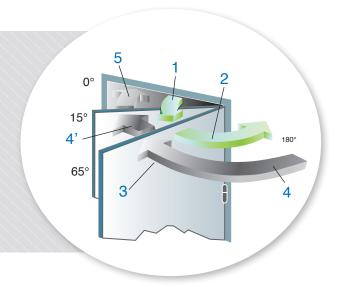
• Zone 1: Regular opening of the door up to 65°

Zone 2: Adjustable backcheck 65° - 180°

Zone 3: Adjustable delayed closing 105° - 70°

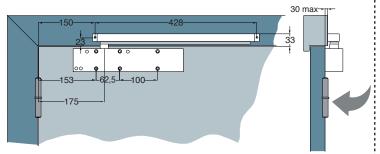
Zone 4 et 4': Adjustable closing speed 180° - 15°

• Zone 5: Adjustable latching 15° - 0°

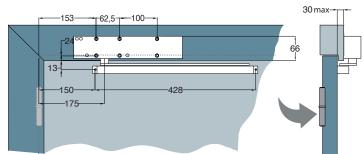


> Installation

Fitted on pull side body on door

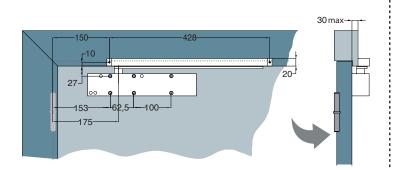


Fitted on push side body on frame

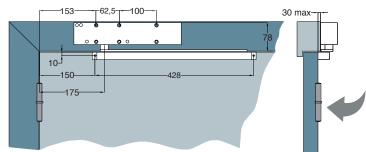


GR450 Reverse

Fitted on push side body on door



Fitted on pull side body on frame



> Description

GROOM door closer GR450, with symmetrical rack and pinion technology and slide arm, compliance with EN 1154, € mark, disability compliance < 50 N.

- Force EN 3 for doors up to 950 mm width and / or 60 kg with an opening angle up to 180°.
- Closing speed and latching adjustments by grub screw on front and hidden under the cover plate.
- Adjustable backcheck by grub screw on front hidden under the cover plate.
- Adjustable delayed closing by grub screw on front hidden under the cover plate.
- Invisible body fixings hidden by its clipped cover.
- Pull or push side installation. Reversible, non-handed.
- Thermostable hydraulic from -20° to +40°, equipped with pressure relief valves.
- Silver, white, black, RAL finishes, high quality finishes.
- Accessories: DIN mounting plate for metal profile mounting, hold-open arm module, cushioned limit stay.

REFERENCES	GR450	
	COMPLETE DOOR CLOSER	
GR45071X	GR450 BC/DC SLIDE ARM	
GR45571X	GR450 BC/DC REVERSE SLIDE ARM	
	BODY ONLY	
GR45021X	GR450 BC/DC BODY ONLY	
GR45521X	GR450 BC/DC REVERSE BODY ONLY	
	SLIDE ARM	
GR50050X	SLIDE ARM 400/450/500	
GR50060X	SLIDE ARM 400/450/500 WITH HOLD-OPEN	
GR509400	HOLD-OPEN ARM MODULE ONLY 400/450/500	
GR509300	CUSHIONED LIMIT STAY (MECHANICAL) 400/450/500	
GR50920X	SUPPORT PLATE FOR SLIDE ARM	
	ACCESSORIES	
GR50900X	GR450 DIN MOUNTING PLATE	
GR50980X	GR450 RIGHT MOUNTING PLATE	
GR50990X	ANGLED GR450 MOUNTING PLATE	
	HIGH QUALITY FINISHES	Code X = Finish Code
GR450310	GRHF450 BC/DC BODY ONLY BODY STAINLESS STEEL BRUSH	0 = RAL 9016 white
GR450315	GRHF450 BC/DC BODY ONLY CHROME DESIGN	1 = silver
GR450318	GRHF450 BC/DC BODY ONLY BRASS STYLE	5 = RAL 9005 black 8 = other RAL (option)
GR500530	SLIDE ARM GR450 STAINLESS STEEL BRUSH	0 – Other HAL (Option)
GR500540	SLIDE ARM GR450 CHROME DESIGN	BC/DC = BackCheck and
GR500520	SLIDE ARM GR450 BRASS STYLE	Delayed Closing

