

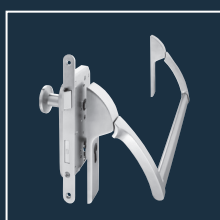
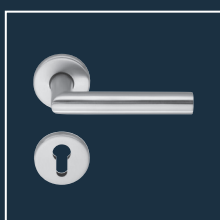
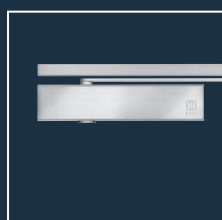
ECO **Newton** TS-41



Product information



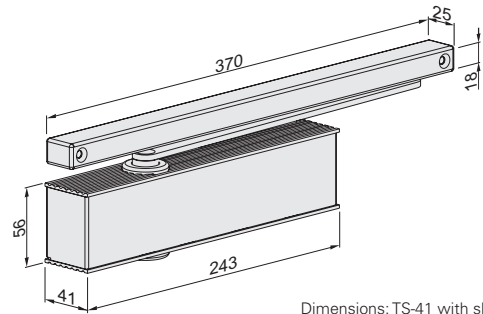
■ SYSTEM TECHNOLOGY FOR THE DOOR



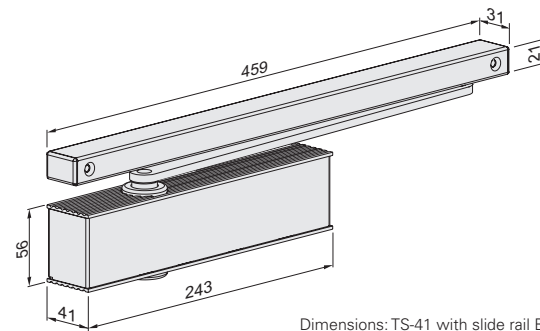
Product characteristics

Closing force (continuously adjustable)	Size acc. to EN	1 - 4
Door width	acc. to EN ≤ 1.100 mm	■
Dimensions (incl. mounting plate)	Length in mm	243
	Depth in mm	41
	Height in mm	56
Mounting plate acc. to EN 1154 (supplementary sheet 1) with GS B		□
Hinge side and hinge-opposite side		■
DIN left / right		■
Latching speed (continuously adjustable)		■
Closing force (continuously adjustable)		■
Back check (constant)		■
Delayed action (continuously adjustable)		-
Tested acc. to EN	EN 1154	
Suitable for fire- and smoke control doors	F	
Certified according to EU-Directive	CE	
Construction of accessible buildings	DIN 18040	

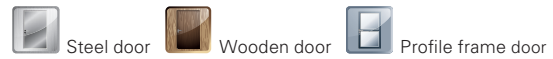
- Yes
- No
- Option



Dimensions: TS-41 with slide rail K



Dimensions: TS-41 with slide rail B

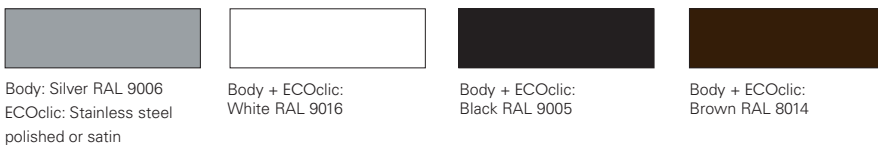


ECO Newton TS-41 - Highlights at a glance

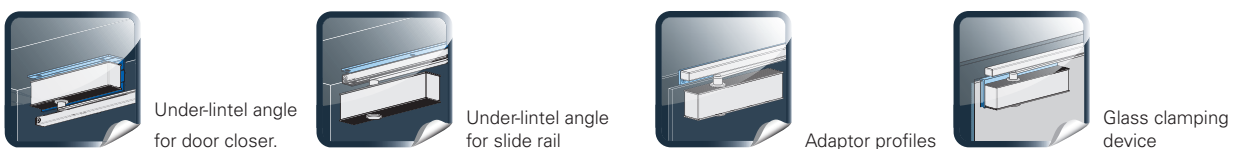


*optional

Details regarding the ECO Newton Highlights can be found in the intro of this chapter.



Slide rail and arm are always delivered in the same colour as the ordered door closer body.



Applications for the ECO Newton TS-41

The ECO **Newton TS-41** is designed for light and middle doors (**EN 1154** size 4) and can be used everywhere, where elegant design, functionality, ease of opening and cost-conscious building need to be combined. Closing speed and latching speed can be adjusted continuously. The back-check (from 70° opening) is already preinstalled in every door closer.

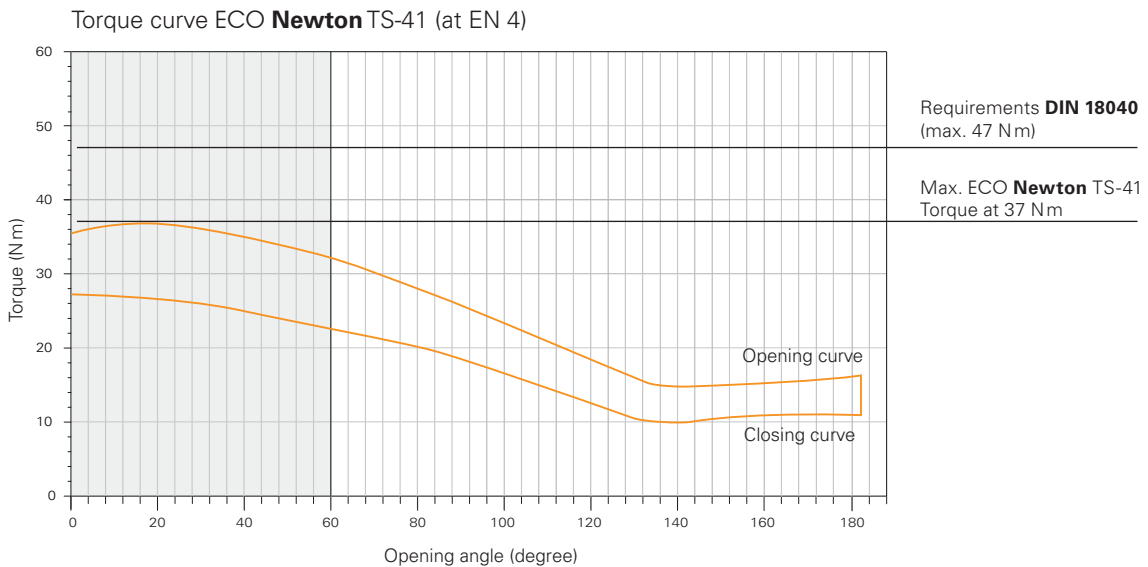
Due to its new gearing design, the ECO **Newton TS-41** achieves a high degree of efficiency and thereby an optimal ratio between opening and closing act. The forces occurring when opening the door are minimized without causing any lower closing safety. This results in a noticeably easier opening moment compared to comparable door closers. This makes the ECO **Newton TS-41** the perfect problem solver on standard- and function doors, especially in the area of clinics, nursing homes, kindergartens and schools.

The ECO **Newton TS-41** meets the **DIN 18040**

Meets requirements of **DIN 18040** (Construction of accessible buildings with requirements for smooth-running doors with high efficiency). The maximum opening moment for closing force EN 4 is just about 37 Nm (the standard **DIN 18040** requires max. 47 Nm).

Germany:
DIN 18040 – Barrier free building

France:
PMR



Extracts from DIN 18040-1:2010-10

4.3.3.3 Requirements on the design of the door

It must be possible to open and close doors with a low force (max. 25 Nm), otherwise, automatic door systems are required, see **DIN 18650-1** and **DIN 18650-2**, according to table 1 in this standard, from line 12. If door closers are required, then they must be set so that the opening torque does not exceed size 3 according to **DIN EN 1154** (max. 47 Nm).

It is recommended to use door closers with smoothly adjustable closing force.

So that people with restricted mobility have enough time to pass safely through the door, closing delays may be necessary.

For fire and smoke safety doors, holding systems (e.g. magnets or a free swing door closer) should be used.

Order information

ECO **Newton** TS-41 ■ Door closer with slide rail

Product information

Closing force 1 – 4, tested acc. to **EN 1154** (for door width up to 1.100 mm) continuously adjustable. Latching speed and closing speed continuously adjustable. Back-check fixed. Same version DIN left and DIN right. Mounting height only 41 mm. Weight: 1.380 g. Max. door opening angle: 180°

- **ECOunity**: The ECO **Newton** closer portfolio covers all door dimensions with only two basic closer units. One execution for all four mounting types.
- **ECOphysis**: Door closer and slide rail build a unit in aluminium and stainless steel
- **ECOcllic**: The stainless steel cover encloses the aluminium body with the power of spring steel and conceals all of the adjusting elements, thus securing the closer against unauthorized access.
- **ECMount**: Optional mounting plate, acc. to **EN 1154**, supplementary sheet 1 – only with slide rail B
- **ECOvalve**: Simple, high-precision and permanently secure adjustment of all parameters of the closing process with one conventional Allen key.
- **ECOcover²**: Optional stainless steel cover for the ECO **Newton** door closers and related slide rails. Please order the lever arm in stainless steel look for the perfect overall appearance.
- **ECOgreen**: The intelligent construction and carefully planned use of materials help considerably to save resources
- **ECOline**: The mounted slide rail and door closer are flush when the door is closed. The colours of all materials are perfectly matched- right down to the end caps of the slide rail K
- **ECOVario**: Allows the use of all slide rail door closers and can even be combined with different door leaf widths. In this way, optimum value for money can be achieved for each individual door situation.

New packaging:

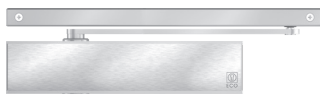
TS-41 B: (Mounting acc. DIN holes) Set incl. door closer, slide rail B, arm for slide rail B, mounting plate, mounting instructions, paper template and fixing material.

TS-41 K: Mounting set incl. door closer, slide rail K, arm for slide rail K, paper template and fixing material

Article numbers



Closer body with arm and slide rail B	Colour	Article number	Closer body with arm, without slide rail B	Colour	Article number
TS-41 B (1 – 4)	Silver RAL 9006*	304152F11A00590	TS-41 (1 – 4)	Silver RAL 9006*	354152F11A00290
TS-41 B (1 – 4)	White RAL 9016	304152F11E00590	TS-41 (1 – 4)	White RAL 9016	354152F11E00290
TS-41 B (1 – 4)	Brown RAL 8014	304152F11D00590	TS-41 (1 – 4)	Brown RAL 8014	354152F11D00290
TS-41 B (1 – 4)	Black RAL 9005	304152F11G00590	TS-41 (1 – 4)	Black RAL 9005	354152F11G00290

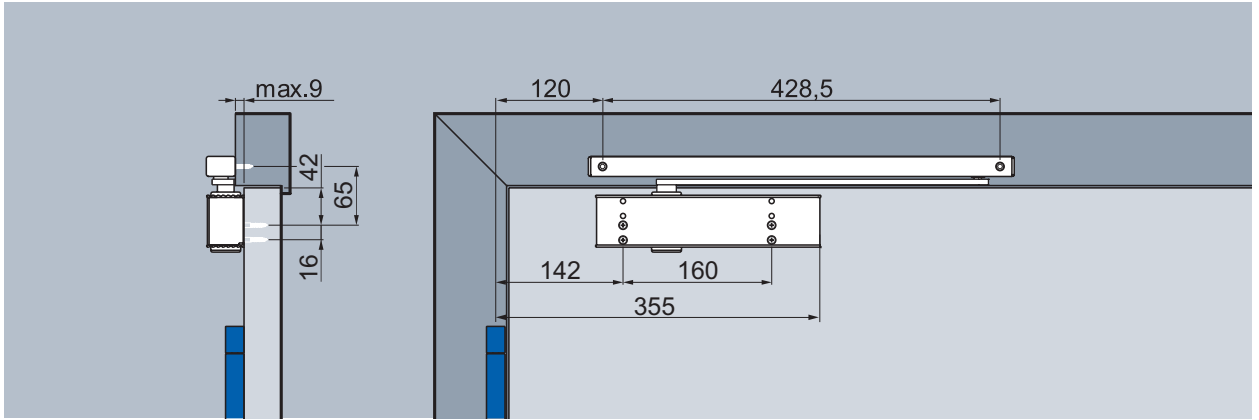


Closer body with arm, with slide rail K	Colour	Article number
TS-41 K (1 – 4)	Silver RAL 9006*	304152F11A00910
TS-41 K (1 – 4)	White RAL 9016	304152F11E00910
TS-41 K (1 – 4)	Brown RAL 8014	304152F11D00910
TS-41 K (1 – 4)	Black RAL 9005	304152F11G00910

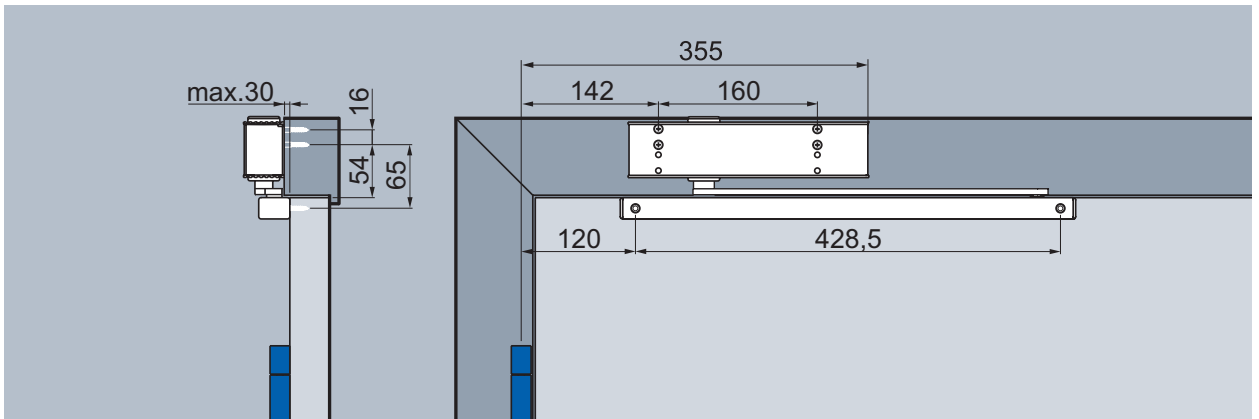
*Door closer body in silver RAL 9006, ECOcllic stainless steel satin, polished on request.

Hinge side

Mounting with slide rail B, illustration DIN left door, DIN right laterally reversed



Standard mounting with slide rail B, hinge side (Mounting, with mounting plate)



Head mounting with slide rail B, hinge side (Mounting, with mounting plate)

Closing speed

Continuously adjustable closing speed from approx. 180° to 0°

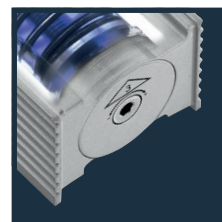
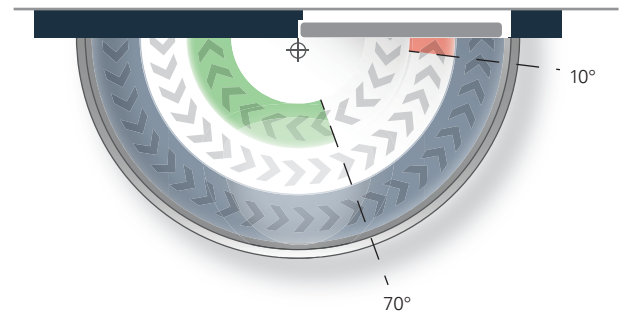
Latching speed

Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10 to 0°

Back-check (constant)

Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed

Closing force diagram ECO **Newton TS-41**, hinge side



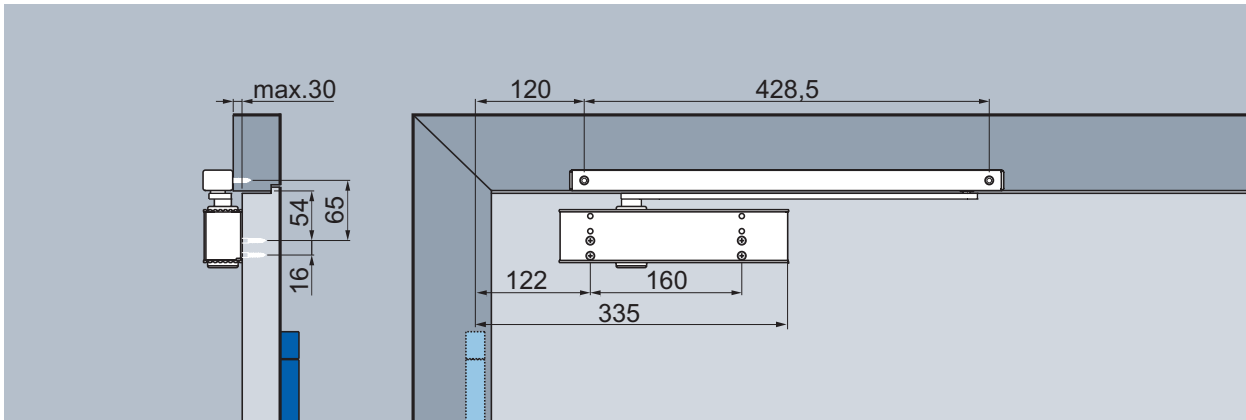
Closing force:

Continuously adjustable min. size 1
max. size 4

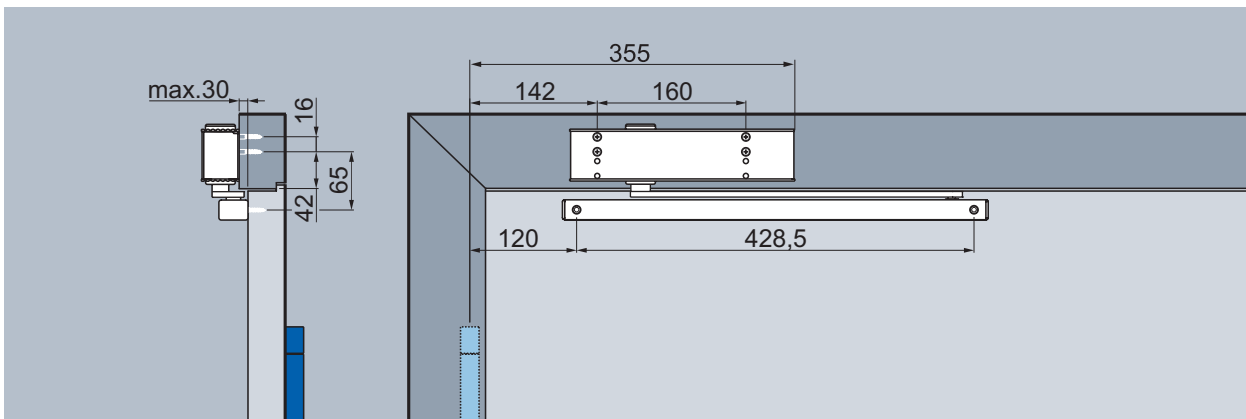
Default delivery condition: size 3

Hinge-opposite side

Mounting with slide rail B, illustration DIN right door, DIN left laterally reversed



Standard mounting with slide rail B, hinge-opposite side (Mounting, with mounting plate)



Head mounting with slide rail B, hinge-opposite side (Mounting, with mounting plate)

Closing speed

Continuously adjustable closing speed from approx. 140°* to 0°

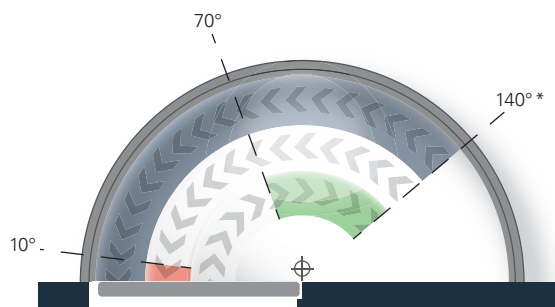
Latching speed

Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10 to 40°

Back-check (constant)

Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed

Closing force diagram ECO Newton TS-41, hinge opposite side



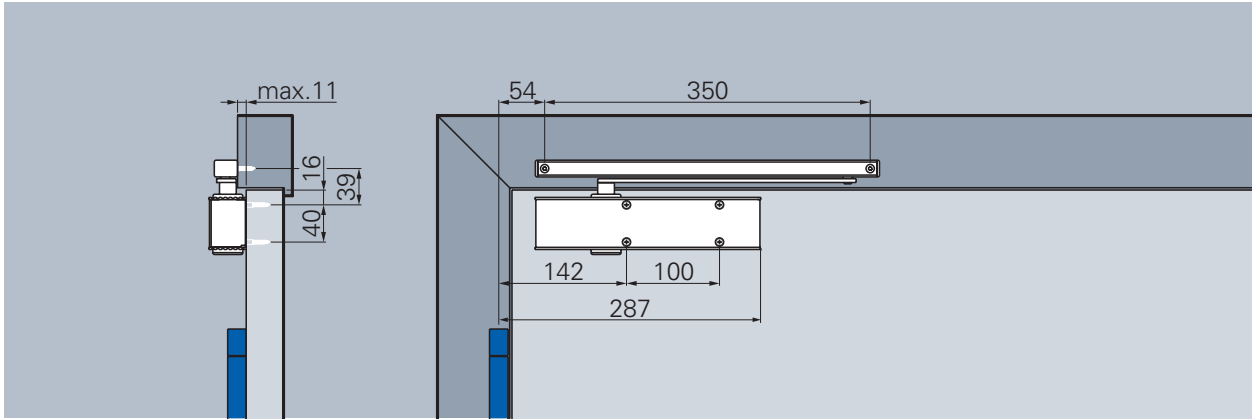
*Varies according to door thickness and type of hinge

A door stopper for opening limit is a must!

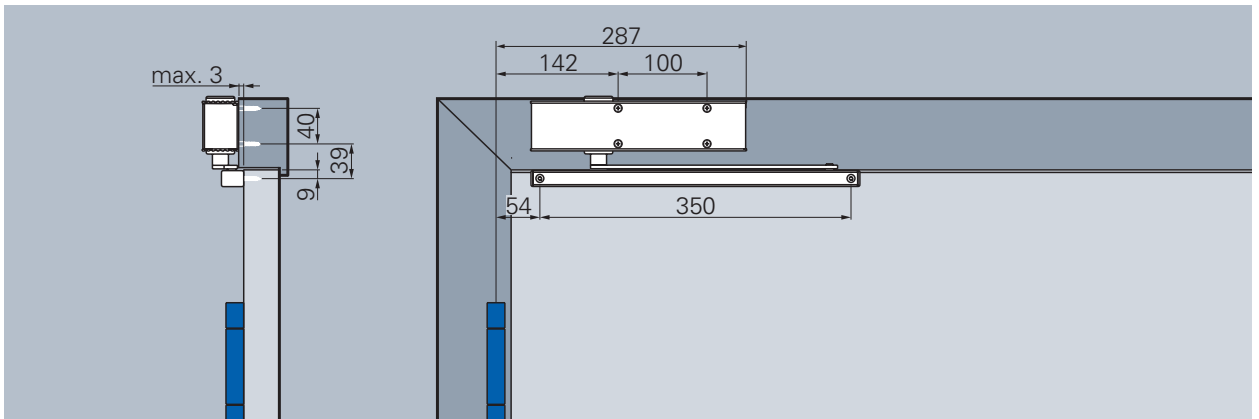


Hinge side

Mounting with slide rail K, illustration DIN left door, DIN right laterally reversed



Standard mounting with slide rail K, hinge side (direct mounting, without mounting plate)



Head mounting with slide rail K, hinge side (direct mounting, without mounting plate)

Closing speed

Continuously adjustable closing speed from approx. 180° to 0°

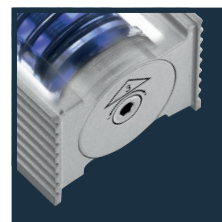
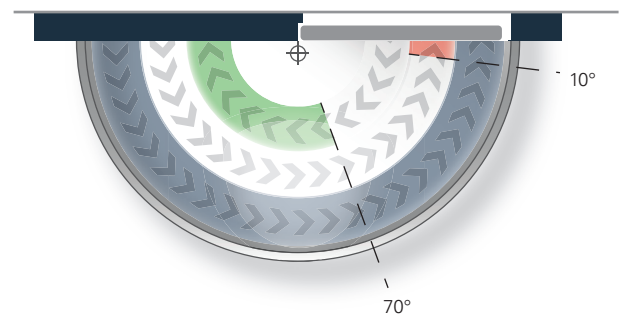
Latching speed

Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10 to 0°

Back-check (constant)

Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed

Closing force diagram ECO Newton TS-41, hinge side



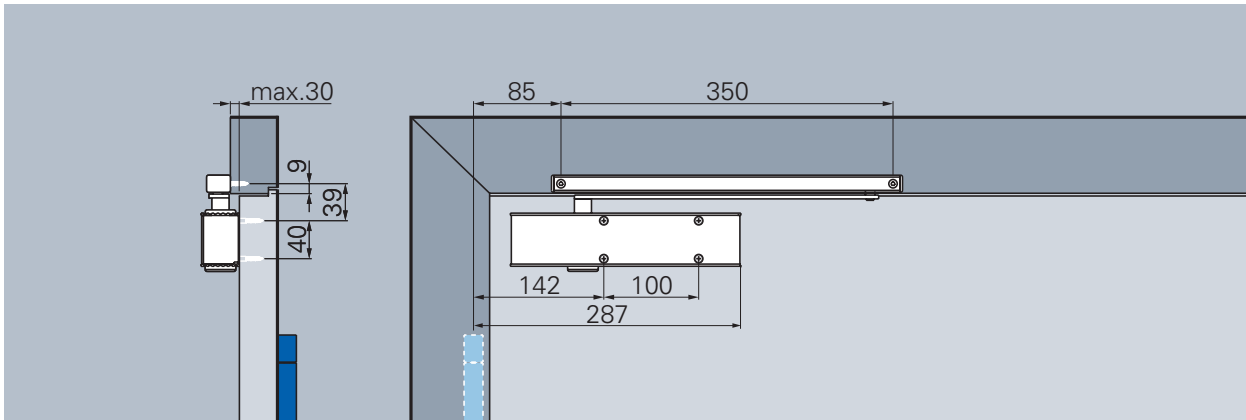
Closing force:

Continuously adjustable min. size 1
max. size 4

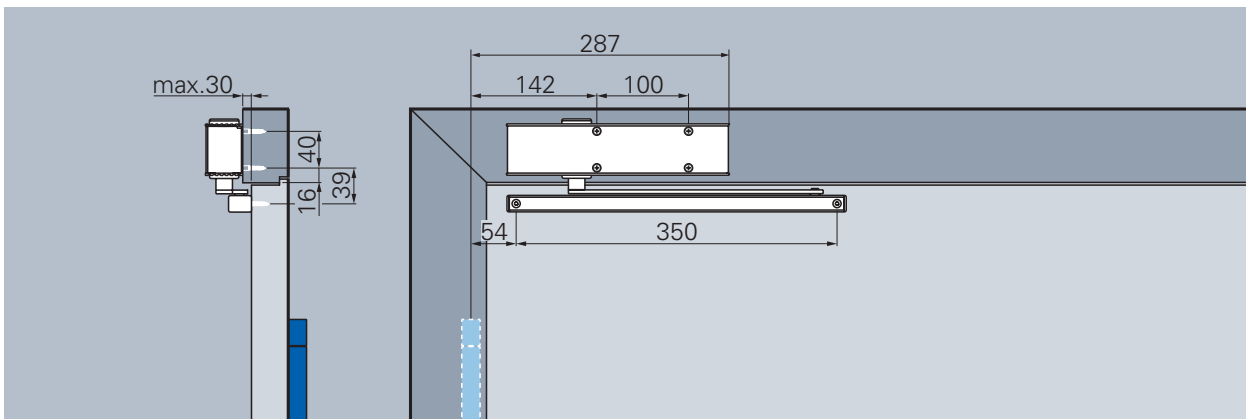
Default delivery condition: size 3

Hinge-opposite side

Mounting with slide rail K, illustration DIN right door, DIN left laterally reversed



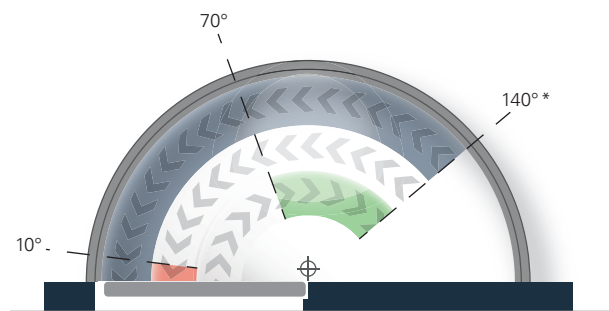
Standard mounting with slide rail K, hinge-opposite side (direct mounting, without mounting plate)



Head mounting with slide rail K, hinge-opposite side (direct mounting, without mounting plate)

- Closing speed**
 Continuously adjustable closing speed from approx. 140°* to 0°
- Latching speed**
 Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10 to 0°
- Back-check (constant)**
 Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check fixed

Closing force diagram ECO Newton TS-41, hinge-opposite side



*Varies according to door thickness and type of hinge

A door stopper for opening limit is a must!

Back-check out of order for head mounting.

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