

Gainsborough's range of surface mounted quality door closers are designed to meet the needs of residential and commercial applications. Featuring the economical 3000 Series for value and ease of installation, together with the 3100, 3200 and 3050/3060 Series hydraulic door closers, catering for the mid to top end range of multi-strength power adjustment requirements of the commercial end of the market.

Suitable for timber or metal door installation, Gainsborough's door closers incorporate adjustable arm and bracket, backcheck, independent latching and closing speed adjustment valves. Parallel arm bracket is also supplied as standard for all the closers in the 3000 Series range.

Manufactured from high purity aluminium, featuring rack and pinion hydraulic controlled piston, the Gainsborough door closers are suitable for today's building requirements.

**3003ABC Series****3063 Series****3101 Series****3204A Series****3205 Series**

3000 Series Hydraulic Door Closers

- Range of surface mounted hydraulic door closers.
- Suitable for interior and exterior timber or metal door installations.
- Adjustable arm and bracket, backcheck, independent latching and closing speed adjustment valves.
- Parallel arm bracket is supplied as standard.
- Slide arm version and optional cover plates are available to complement the 3063, 3101 and 3205 series door closers.
- 3003ABC, 3063, 3101 and 3205 series have adjustable backcheck valve as standard.



3003ABC

Slimline Hydraulic Door Closer without Cover Plate

- Hold open.
- Size 3 closer.
- Suits 25kg-65kg doors.

5/10 years



3063

Slimline Hydraulic Door Closer without Cover Plate

- Hold open.
- Size 3 closer.
- Suits 40kg-65kg doors.

5/10 years



3101

Hydraulic Door Closer without Cover Plate

- Hold open.
- Size 4 closer.
- Delayed action.
- Suits 40kg-120kg doors.

5/10 years




\* **Note:** For more information on Fire Ratings please contact your Gainsborough representative.



#### 3204A

Hydraulic Door closer with Cranked Arm.  
 No cover plate.

- Hold Open.
- Cranked arm for Aluminium Doors.
- Size 2-5.
- Suits 40-120Kg doors.


 5/10 years



#### 3205

Hydraulic Door Closer without Cover Plate

- Hold open.
- Delayed action.
- Suits 40kg-120kg doors.

 5/10 years




#### 3063SS

Slimline Hydraulic Door Closer with Cover Plate

- Hold open.
- Size 3 closer.
- Suits 40kg-65kg doors.

**PS SS**

 5/10 years



3000 Series Hydraulic Door Closers continued



3101PS

Hydraulic Door Closer with Cover Plate

- Hold open.
- Delayed action.
- Size 2-4 closer.
- Suits 25kg-70kg doors.

PS SS

🕒 5/10 years



3205SS

Hydraulic Door Closer with Cover Plate

- Hold open.
- Delayed action.
- Size 2-5 closer.
- Suits 40kg-120kg doors.

PS SS

🕒 5/10 years



3101SR, 3063SR<sup>#</sup>, 3205SR

Hydraulic Door Closer with Slide Arm Function

PS SS

🕒 5/10 years



<sup>#</sup> Slide arm channel & arm are silver finish only.

<sup>†</sup> 3101SR model only.

\* **Note:** For more information on Fire Ratings please contact your Gainsborough representative.

**3000 Series Door Closer**

**Gainsborough 3000 Series Hydraulic Door Closers are the ideal solution for those projects where economy and ease of installation are absolute requirements.**

**3003ABC****Technical Data****Adjustable Arm & Bracket**

For jamb installation (timber or metal).

30mm maximum (positioning of arm) adjustment (STD Installation).

Parallel arm installation, bracket supplied as standard.

**Latching Speed Adjustment Valve**

Independent captive latching speed adjustment valve for fine tuning of latch closing speed.

Latching range 0°-15°.

**Closing Speed Adjustment Valve**

Independent captive closing speed adjustment valve for fast-slow closing action of door.

Closing range 15°-180°.

**Power Range**

2 or 3 depending on location of closer on the door (Refer template for details).

**Mechanism & Case**

Rack and pinion hydraulic controlled piston, housed in high purity aluminium body.

**Backcheck**

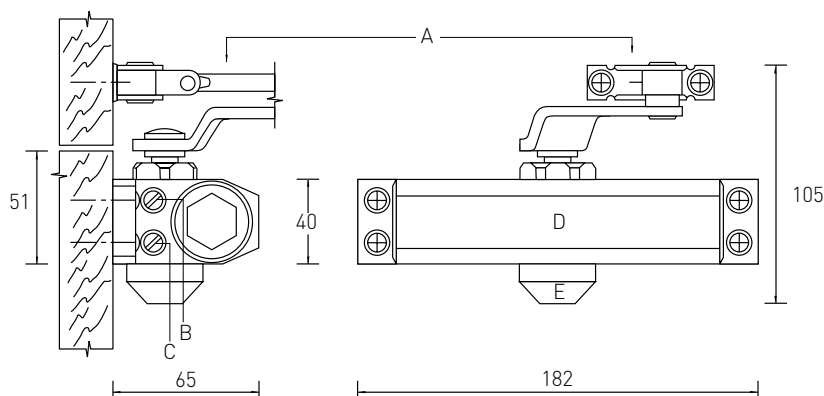
Backcheck standard in 3003ABC and is adjustable by valve at opposite end to latching/speed valves.

Approved on fire door assemblies in accordance with Aust. Std. AS1905.1.2005 – Fire Resistant Doorsets.

Reversible for left or right-handed doors.

**Pinion Cover Cap**

Where left or right-handed installation selected, pinion cap cover complements body design.

**Limiting Dimensions****3000****Legend**

- A.** Adjustable Arm & Bracket
- B.** Latching Speed Adjustment Valve
- C.** Closing Speed Adjustment Valve
- D.** Mechanism & Case
- E.** Pinion and Cover Case

3000 Series Door Closer – Model 3003ABC

Model Selection Table (maximum door width dimension in mm)

Cat No.	Regular Arm		Parallel Arm		Door Weight (Rec) Kgs
	Interior Door	Exterior Door	Interior Door	Exterior Door Swing out	
Position 2	900	800	800	700	25-45
Position 3	1050	900	900	800	40-65

Door Closer can be positioned on door for power 2 or 3 (refer template).

Applications

Suits hinged doors from:

- 800mm-1050mm in width
- 25kg-65kg weight

(refer chart for model selection).

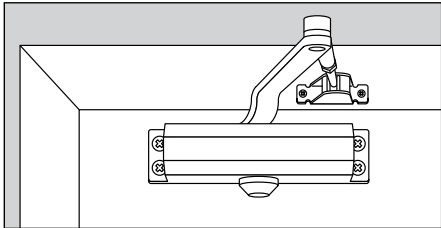
Options

**Standard**  
3003ABC  
Regular Arm and Parallel Bracket with adjustable Backcheck

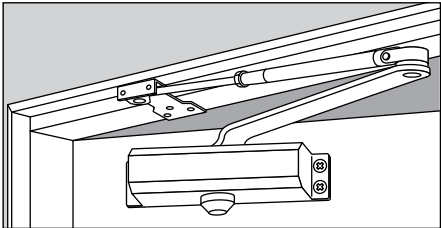
**Hold Open**  
3003ABC/HO  
Regular Arm and Parallel Hold Open

**Accessories**  
3100/PAB    Parallel Arm Bracket  
3101/HO    Hold Open Arm Assembly  
3003/OP    Drop Plate

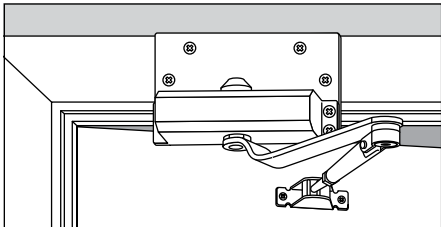
**Finishes**  
Supplied standard in silver finish



**Regular Arm Installation**  
(Bracket supplied as standard)



**Parallel Arm Installation**  
(Bracket supplied as standard)



**Drop Bracket Installation on Frame**  
When direct fixing of closer is not possible.  
Bracket No. 3003/DP should be ordered as an accessory.

## 3060 Series Door Closers

**3063****3063 with full metal cover**

**Gainsborough 3060 Series Slimline Hydraulic Door Closers** feature a minimum projection from the door face of 41mm for the 3063, so designed to reduce risk of damage to closer when door is opened against adjacent walls.

The Slimline series is suitable for interior or exterior doors and is available in size 2 or size 3. The range includes standard and parallel arm functions, with or without backcheck.

### Technical Data

#### Adjustable Arm & Bracket

For jamb installation (timber or metal).

Parallel arm installation, bracket supplied as standard.

#### Latching Speed Adjustment Valve

Independent captive latching speed adjustment valve for fine tuning of latch closing speed.

Valve is located on face of door closer for easy adjustment.

Latching range 0°-15°.

#### Closing Speed Adjustment Valve

Independent captive closing speed adjustment valve for fast-slow closing action of door.

Valve is located on face of door closer for easy adjustment.

Closing range 15°-180°.

#### Delayed Action Adjustment Valve

Holds door in open position for an adjustable number of seconds before closing.

#### Mechanism & Case

Rack and pinion hydraulic controlled piston,

housed in high purity aluminium body.

Backcheck standard but adjustable by valve.

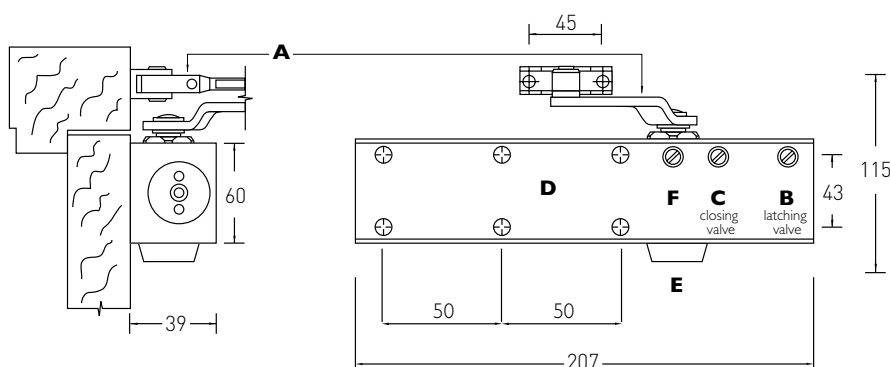
Approved on fire door assemblies in accordance with Aust. Std. AS1905.1.2005 – Fire Resistant Doorsets.

Reversible for left or right-handed doors.

#### Pinion Cover Cap

Where LH or RH installation selected, pinion cap cover complements body design.

### Limiting Dimensions



#### Legend

- A.** Adjustable Arm & Bracket
- B.** Latching Speed Adjustment Valve
- C.** Closing Speed Adjustment Valve
- D.** Mechanism & Case
- E.** Pinion & Cover Case
- F.** Delayed Adjustable Valve

3060 Series Door Closers – Model 3063

Model Selection Table (maximum door width dimension in mm)

Cat No.	Regular Arm		Parallel Arm		Door Weight (Rec) Kgs
	Interior Door	Exterior Door	Interior Door	Exterior Door Swing Out	
3063	1050	900	900	800	46-65

The doors widths are given for standard arm installations. For unusually high or heavy doors subject to wind or draught conditions, select stronger size.

Options

Specify size: 3063

Standard

3063  
Regular Arm and Parallel Bracket  
Backcheck

Hold Open

3063HO  
Regular Arm and Parallel Hold Open

Slide arm with Optional Hold Open

3063SR  
Slide Arm

All above Slimline door closers are supplied in standard silver finish.

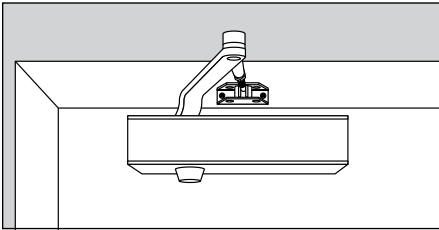
Accessories

3101/PAB1  
Standard Parallel Arm Bracket-Silver

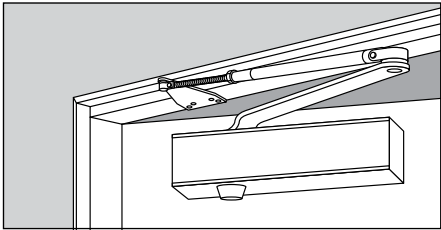
3101/PAB2  
Offset Parallel Arm Bracket-Silver

3101/HO  
Regular & Parallel Hold Open Arm

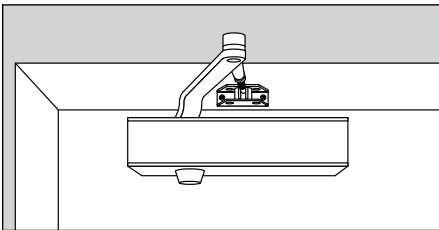
3101/SA  
Slide Arm



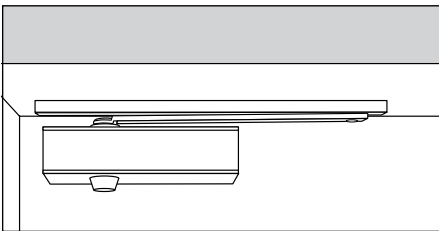
Regular Arm Installation  
(Bracket supplied as standard).



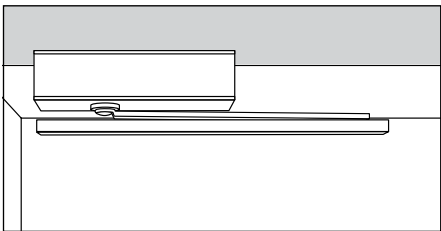
Parallel Arm Installation  
(Bracket supplied as standard).



Hold Open Installation



Standard Slide Arm Installation



Jamb Slide Arm Installation

Slide Arm version to be used where internal fitout requires a minimum projection into room or office environment.

When specifying Slide Arm version, power loss is rated at between 25%-30%



**3060 Series Door Closers – Model 3063****Optional Cover Plate with Arm Assembly**

Specific door closers can also be ordered with cover plate and arm assembly, available in Satin Stainless Steel (SS), Polished Stainless Steel (PS).

(Hold open and slide arm versions are not available with cover plate at this stage.)

**Cover Plate Dimensions**

Length x Width x Depth

244 x 75 x 42mm

Fixed to door closer at the top by two (2) metal threads as supplied.

To order, add finish code to relevant catalogue number e.g. 3063 PS – Regular Arm and Parallel Bracket, Backcheck with Polished Stainless Steel cover plate.

**3350 Series Leaf Selector**

Leaf Selector. For a pair of fire doors requiring the correct sequence.

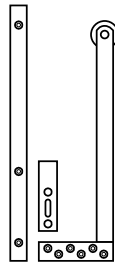
The selector allows one leaf to close before the other.

Tested and approved to Australian Standard AS1905.1.2005

– Fire Resistant Door Sets.



**3063 with Cover Plate**

**Application**

When the door which should close first starts to close in second position, the meeting plates on the head of the door will move ahead while pushing down the sides of the lever, and in response, the hold on the door to close in second position will be released and this door will follow in the wake of the first door, embracing the lever as it closes. Thus, even when the closing order is initially reversed, the closing order regulator will ensure that closing of the doors takes place in the fixed order.

**Applicable Dimensions**

Type	Max. Door Dimensions
Centre Hung	D.W. 2100mm
Offset Hung	D.W. 1300mm

3100 Series Door Closers



Gainsborough 3100 Series Hydraulic Door Closer. Compact design with minimal projection, for internal or external doors. Standard backcheck with regular and parallel arm installation and power adjustment.

3100 Series Door Closer

3100 Series Door Closer with full metal cover

Technical Data

Adjustable Arm & Bracket

For jamb installation (timber or metal).

Closing power adjustment bracket.

30mm maximum (positioning of arm) adjustment (STD installation).

Parallel arm installation, bracket supplied as standard.

Latching Speed Adjustment Valve

Captive latching speed valve for fine tuning of latch closing speed. Independent of closing speed.

Latching range 0°-15°.

Closing Speed Adjustment Valve

Captive closing speed valve for adjustment of door closing speed fast-slow.

Closing range 15°-180°.

Metal Cover Plate

3100 Series supplied with slide cover as standard. Optional full metal cover can be supplied if required.

Delayed Action Valve

Holds door in open position for a number of seconds before closing starts. Adjustable 1-20 seconds.

Backcheck Valve

Adjustable backcheck captive valve for cushioning effect upon opening of door.

Standard on whole range of 3100 Series.

Backcheck range 70°-180°.

Power Adjustment Screw

Captive screw for adjustment for increasing (clockwise) and decreasing (anti-clockwise turn), of closing power (not speed) of the unit.

Closing power 2-4 (see chart).

Mechanism & Case

Rack and pinion hydraulic controlled piston, power adjustable (2-4), high purity aluminium body.

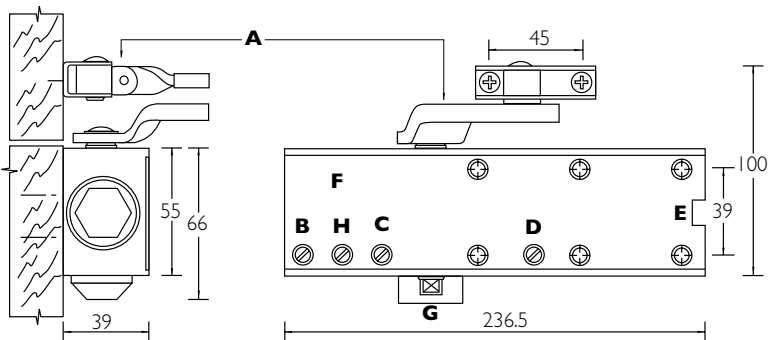
Reversible for left or right-handed doors.

Backcheck standard in all 3100 Series.

Approved on fire door assemblies in accordance with Aust. Std. AS1905.1.2005 – Fire Resistant Doorsets.

Spindle Cap supplied to cover spindle exposed to view, colour complementing closer body, arm and dress plate.

Limiting Dimensions



Legend

- A. Adjustable Arm & Bracket
- B. Latching Speed Valve
- C. Closing Speed Valve
- D. Backcheck Valve
- E. Power Adjustment Screw
- F. Mechanism and Case
- G. Spindle Cap
- H. Delayed Action Valve

\* **Note:** For more information on Fire Ratings please contact your Gainsborough representative.

## 3100 Series Door Closer

**Model Selection Table** (maximum door width dimension in mm)

Adjust to Size No.	Regular Arm			Parallel Arm			Door Weight (Rec) Kgs
	Interior Door	Exterior Door		Interior Door	Exterior Door		
		Swing Out	Swing In		Swing Out	Swing In	
2	900	800	700	800	700	600	25-45
3	1050	900	800	900	800	700	40-60
4	1200	1050	900	1050	900	800	55-75

### Applications

Standard installation.

Parallel arm installation.

Slide Arm Installation.

Drop plate installation  
(refer accessories).

### Options

#### Standard

- 3101 Regular/Parallel Arm  
3101A Aluminium Parallel Fix Closer

#### Hold Open

- 3100HO Regular Arm Hold Open

#### Slide Arm

- 3101SR Slide Arm

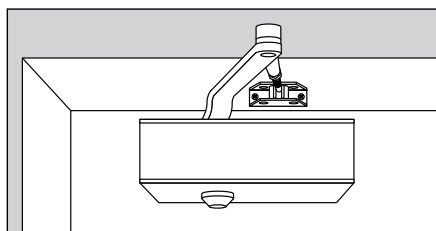
#### Accessories

- 3101/PABI Parallel Arm Bracket  
3101/DP Drop Plate  
3101/SA Slide Arm Assembly  
3101PAB2 Offset Parallel Arm Bracket Silver  
3101/HO Hold Open Arm Assembly

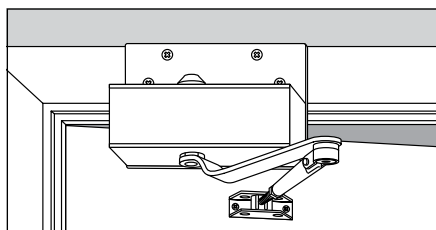
#### Finishes

Supplied standard in silver finish  
unless otherwise shown.

Other finishes available on request.

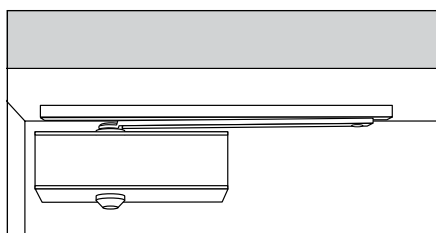


**Regular Arm Installation**



**Drop Bracket Installation on Frame**

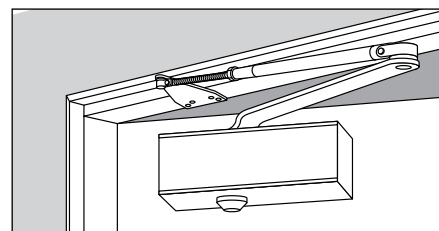
When direct fixing of closer is not possible.  
Bracket No. 3101/DP should be ordered as  
an accessory.



**Standard Slide Arm Installation**

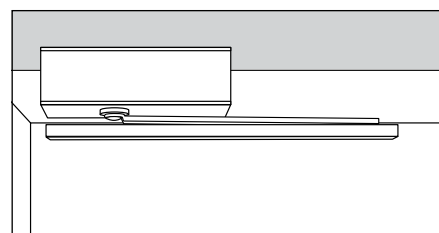
Slide Arm version to be used where internal fitout requires a minimum projection  
into room or office environment.

When specifying Slide Arm version, power loss is rated at between 25%-30%



**Parallel Arm Installation**

(Bracket supplied as standard).



**Jamb Slide Arm Installation**

3100 Series Door Closer

Optional Cover Plate with Arm  
Assembly

Specific door closers can also be ordered with cover plate and arm assembly, available in Satin Stainless Steel (SS)

(Hold open versions with cover plate are only available in SS finish at this stage.)

Cover Plate Dimensions

Length x Width x Depth

249 x 70 x 44mm

Fixed to closer by spring clip.

To order, add finish code to relevant catalogue number e.g. 3101 SS – Regular Arm and Parallel Bracket, Adjustable Backcheck with Stainless Steel cover plate.



3100 with Cover Plate

**3205 Series Door Closer****3205****3205 with full metal cover**

**Gainsborough 3200 Series Hydraulic Door Closer** is a multi-strength, power adjustable surface mounted closer for exterior doors and doors in high traffic areas. The 3200 Series complements the 3100 Series in appearance and has as standard, adjustable regular arm, parallel arm bracket and backcheck.

**Technical Data****Adjustable Arm & Bracket**

For jamb installation (timber or metal).

30mm maximum (positioning of arm) adjustment (STD installation).

Parallel arm installation, bracket supplied as standard.

**Latching Speed Adjustment Valve**

Conveniently located on front of the door closer body – for ease of adjustment.

Captive latching speed valve for fine tuning of latch closing speed. Independent of closing speed.

Latching range 0°-15°.

**Closing Speed Adjustment Valve**

Conveniently located on front of the door closer body – for ease of adjustment.

Captive closing speed valve for adjustment of door closing speed fast-slow.

Closing range 15°-180°.

**Delayed Action Adjustment Valve**

Holds door open position for an adjustable number of seconds.

**Backcheck Valve**

Adjustable backcheck captive valve for cushioning effect upon opening of door.

Standard on whole range of 3200 Series.

Backcheck range 70°-180°.

**Power Adjustment Screw**

Captive screw for adjustment for increasing (clockwise) and decreasing (anti-clockwise turn), of closing power (not speed) of the unit.

Closing power 2-5 (see chart on page 8.11).

**Delayed Action**

All 3200 Series have delayed action as standard feature.

**Mechanism & Case**

Rack and pinion hydraulic controlled piston, power adjustable (2-5), high purity aluminium body.

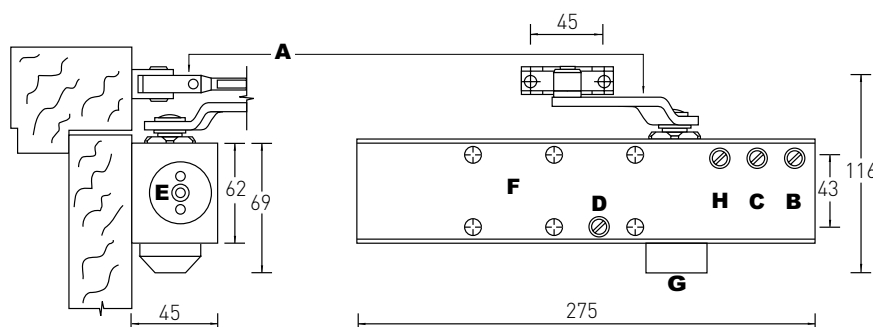
Reversible for left or right-handed doors.

Backcheck standard in all 3200 Series.

Approved on fire door assemblies in accordance with Aust. Std. AS1905.1.2005 – Fire Resistant Doorsets.

**Spindle Cap**

Spindle Cap supplied to cover spindle exposed to view, colour complementing closer body, arm and dress plate.

**Limiting Dimensions****Legend**

- A.** Adjustable Arm & Bracket
- B.** Latching Speed Valve
- C.** Closing Speed Valve
- D.** Backcheck Valve
- E.** Power Adjustment Screw
- F.** Mechanism and Case
- G.** Spindle Cap
- H.** Delayed Adjustment Valve

3205 Series Door Closer

Model Selection Table (maximum door width dimension in mm)

Cat No.	Adjust to Size No.	Regular Arm			Parallel Arm			Door Weight (Rec) Kgs
		Interior Door	Exterior Door		Interior Door	Exterior Door		
			Swing Out	Swing In		Swing Out	Swing In	
3205	2	900	800	700	800	700	600	25-45
3205	3	1050	900	800	900	800	700	40-60
3205	4	1200	1050	900	1050	900	800	55-75
3205	5	1350	1200	1050	1200	1050	900	70-90

Applications

- Standard installation.
- Parallel arm installation.
- Slide Arm installation.
- Drop plate installation (refer accessories).

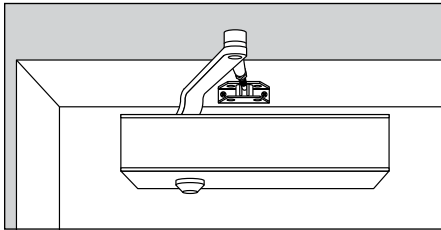
Options

- Standard**
- 3205 Regular/Parallel Arm
- Hold Open**
- 3205HO Regular/Parallel Arm Hold Open

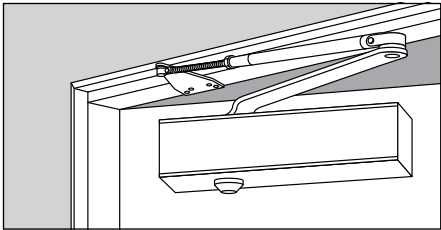
- Slide Arm**
- 3205SR Slide Arm

- Accessories**
- 3101/PAB1 Parallel Arm Bracket
  - 3101/PAB2 Offset Parallel Arm Bracket
  - 3101/HD Regular Arm Hold Open
  - 3205/DP Drop Plate
  - 3101/SA Slide Arm Assembly

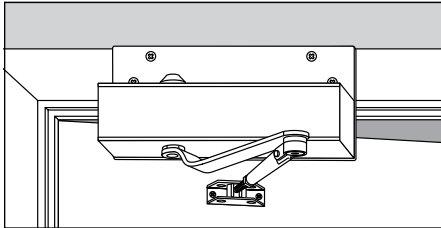
- Finishes**
- Supplied standard in silver finish unless otherwise shown.
  - Other finishes available on request.



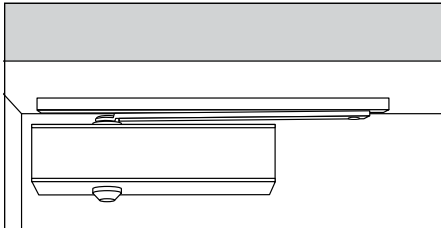
Regular Arm Installation



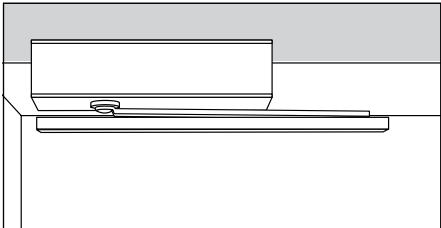
Parallel Arm Installation  
(Bracket supplied as standard)



Drop Bracket Installation on Frame  
When direct fixing of closer is not possible. Bracket No. 3200/DP should be ordered as an accessory.



Standard Slide Arm Installation



Jamb Slide Arm Installation  
Slide Arm version to be used where internal fitout requires a minimum projection into room or office environment.

When specifying Slide Arm version, power loss is rated at between 25%-30%.

## 3205 Series Door Closer

### Optional Cover Plate with Arm Assembly

Specific door closers can also be ordered with cover plate and arm assembly, available in Satin Stainless Steel (SS), Polished Stainless Steel (PS)

(Hold open versions with cover plate are only available in SS finish at this stage.)

### Cover Plate Dimensions

Length x Width x Depth

282 x 77 x 47mm

Fixed to closer by spring clip.

To order, add finish code to relevant catalogue number e.g. 3205PS – Delayed Action, Regular Arm and Parallel Bracket, Adjustable Backcheck with Polished Stainless Steel cover plate.



**3205 with Cover Plate**

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## ECO Newton

High performance  
power retention with  
hydraulic damping,  
Door Closers  
designed for far more  
than 500,000 closing  
operations.

Door closers must cope with routine operation and emergency situations. They make it easier to open the doors, while softening the door strike and ensuring secure closing. In emergency situations they guarantee that fire zones can be separated reliably, thus saving lives. The ECO Newton door closers were designed with disability access standards in mind.

The new ECO Newton door closer generation combines spring force retention with two innovative concepts: the new ECOvalve technology and new ECOclic stainless steel cover. One provides a new level of quality in the precise adjustment of the closer while the other ensures that the adjustment elements are easily accessible, but only by specialists.

















Body unit:  
Silver RAL 9006  
ECOclik: stainless steel satin

## ECO Newton system overview

### Door closer with slide rails

Description	Certificates <sup>1</sup>	Dimensions in EN <sup>2</sup>	L x B x D in mm	Latching speed <sup>3</sup>	Back-check <sup>4</sup>	Closing speed adjustment	Delayed action <sup>5</sup>	DIN L + R / HS + OS <sup>6</sup>
TS-61 EN	 / 	5-6 infinitely variable	267 x 62 x 49	front-mounted	adjustable	front-mounted	optional	yes / yes <sup>7</sup>
TS-61 EN	 / 	2-5 infinitely variable	287 x 62 x 49	front-mounted	adjustable	front-mounted	optional	yes / yes <sup>7</sup>
TS-51 EN	 / 	1-4 infinitely variable	265 x 61 x 46	front-mounted	adjustable	front-mounted	–	yes / yes <sup>7</sup>
TS-41 EN	 / 	1-4 infinitely variable	243 x 56 x 40	end-mounted	constant	end-mounted	–	yes / yes

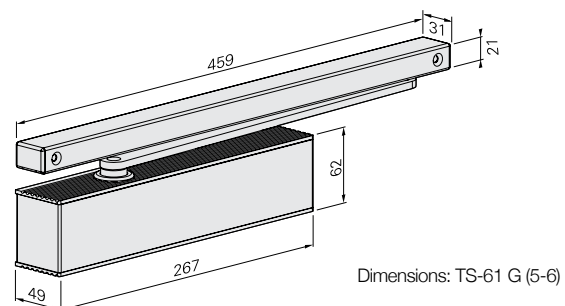
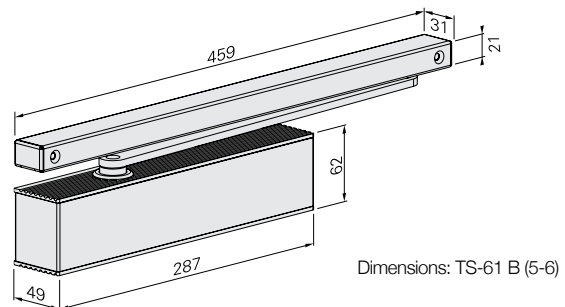
### Articulated arm closer

Description	Certificates <sup>1</sup>	Dimensions in EN <sup>2</sup>	L x B x D in mm	Latching speed <sup>3</sup>	Back-check <sup>4</sup>	Closing speed adjustment	Delayed action <sup>5</sup>	DIN L + R / HS + OS <sup>6</sup>
TS-50 EN	 / 	1-5 infinitely variable	243 x 56 x 40	end-mounted	constant	end-mounted	–	yes / yes
TS-20 EN	 / 	2 / 3 / 5	243 x 56 x 40	end-mounted	constant	end-mounted	–	yes / yes

#### Legend

- 1) EN 1154 – CE mark and fire rated for up to 2 hours on selected cores to AS 1905.1-2005. Please consult your local Gainsborough representative prior to purchase.
- 2) Door size classes in line with European Norm (EN).
- 3) Increases closing force shortly before closing so that the door snaps securely into the lock.
- 4) Regulates the force necessary to open the door.
- 5) Convenience delayed action, eg. for hotel room doors.
- 6) Assembly left and right (L + R) possible, as well as hinge side (HS) or hinge-opposite side (OS).
- 7) Please order version G (= hinge-opposite side).



**Door closer with slide rail**


**TS-61B Hinge Side**  
**TS-61G Hinge opposite side**

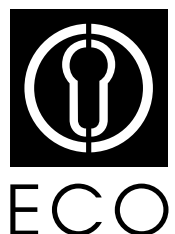
**Part No - T61B3D1UCS10008 (2-5)**  
**T61B3E1UCS10008 (5-6)**

Hinge side with delayed action

- Delayed action
- Adjustable back check
- Adjustable latch and closing speed
- Closing force 2-5 & 5-6
- Door opening angle 180°
- Door widths up to 1,250mm

**Silver**

 5 year mechanical

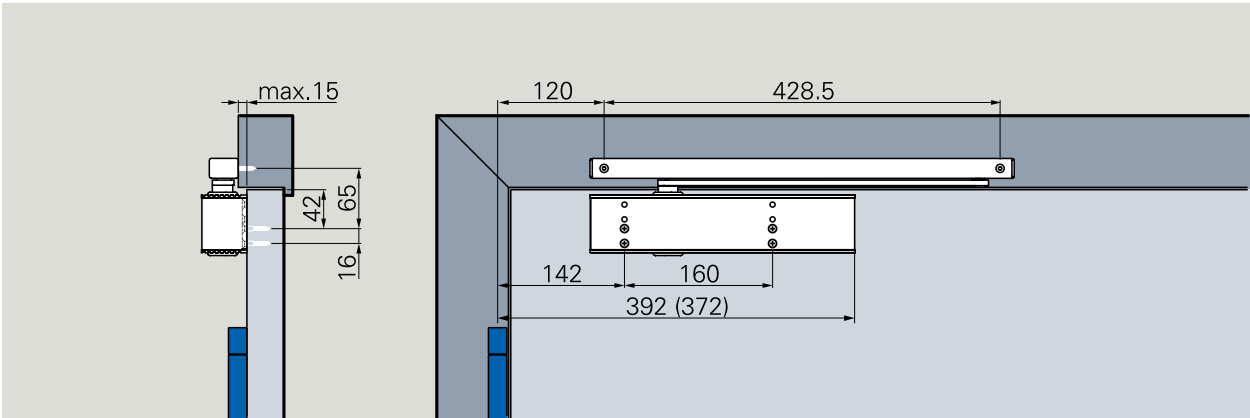


\* **Note:** For more information on Fire Ratings please contact your Gainsborough representative.

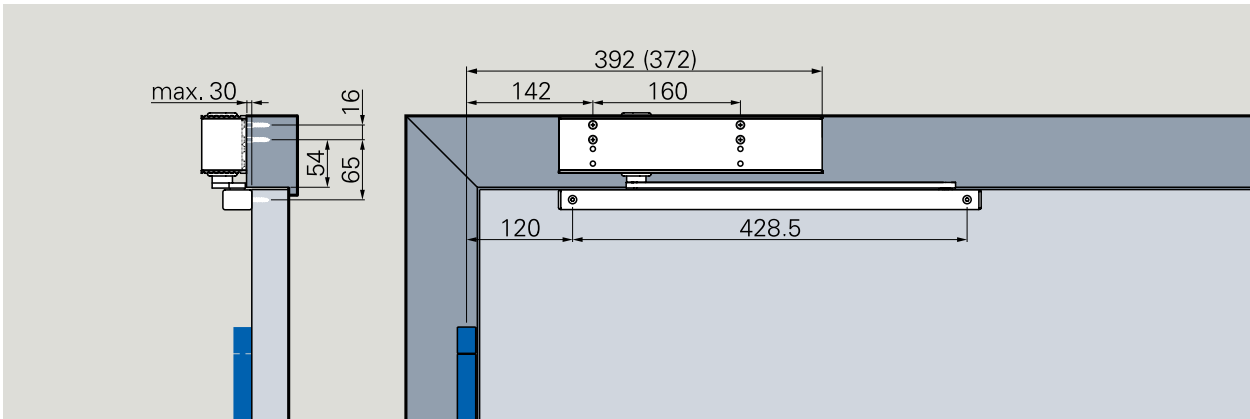
All dimensions in mm

Hinge side TS-61 B

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



Standard mounting with slide rail B, hinge side



Head mounting with slide rail B, hinge side

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°.

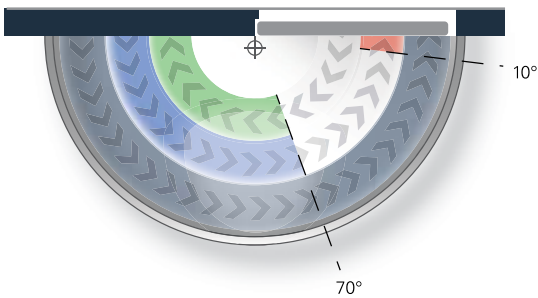
Back-check

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

Delayed action

Reduces the closing speed and allows a safer passing for people and transport. Especially suitable for use in nursing homes and hospitals. Delay action continuously adjustable. Works between 180° to 70°.

Closing force diagram ECO Newton TS-61 B, hinge side

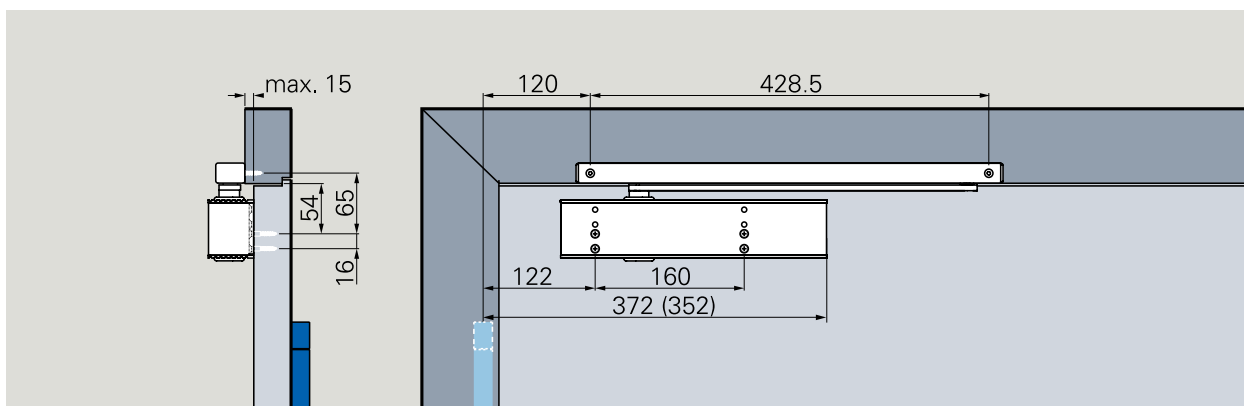


CLOSING FORCE

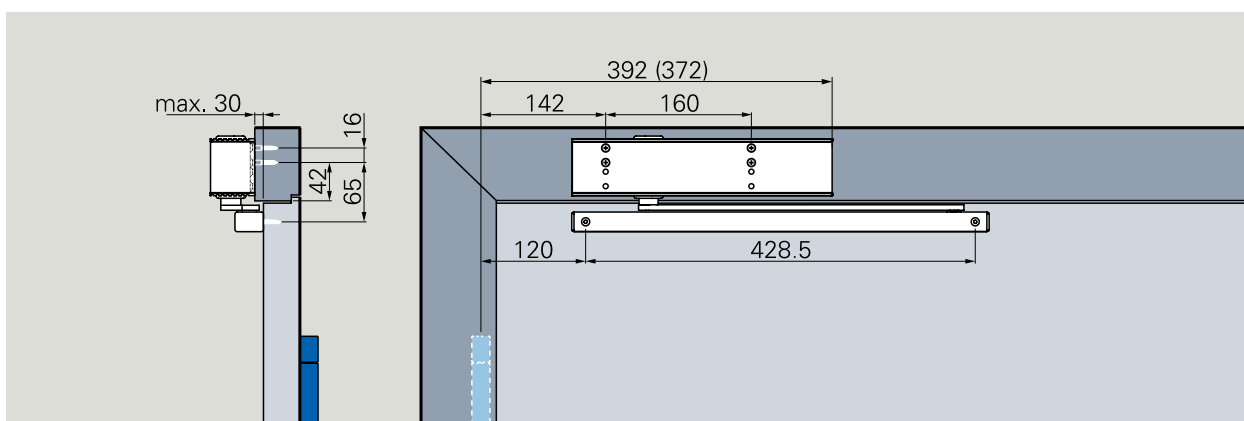
Continuously adjustable TS-61 (5-6)	min. size 5 max. size 6
OR	
Continuously adjustable TS-61 (2-5)	min. size 2 max. size 5
Default delivery condition:	size 3

**Hinge opposite side TS-61 G**

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



Standard mounting with slide rail B, hinge-opposite side



Head mounting with slide rail B, hinge-opposite side

**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**

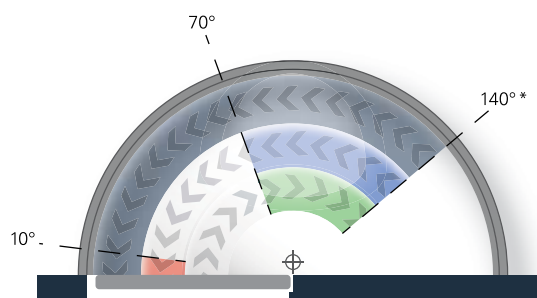
Reduces the opening speed starting at 70° and avoids the slamming of the door. Back-check continuously adjustable.

Note: Back-check not appropriate for head-mounting/ mounting on hinge-opposite side.

**Delayed action**

Reduces the closing speed and allows a safer passing for people and transport. Especially suitable for use in nursing homes and hospitals. Delay action continuously adjustable. Works between 140° to 70°.

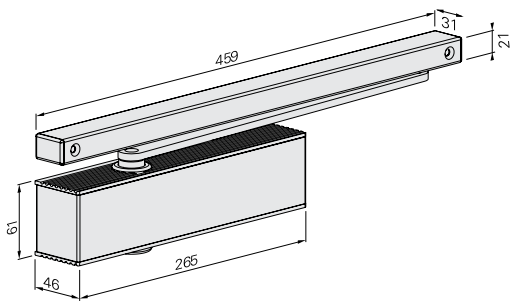
Closing force diagram ECO Newton TS-61 G, hinge-opposite side



\*Varies according to door thickness and type of hinge.

**A door stopper for opening limit is a must!**

Door closer with slide rail



Dimensions: TS-51

TS-51B

Part No - **T51B2B1UCS10008 (1-4)**  
Hinge side  
**T51G2B1UCS10008 (1-4)**  
Hinged opposite side

- Delayed action
- Adjustable back check
- Adjustable latch and closing speed
- Closing force 1-4
- Door opening angle 180°
- Door widths up to 1,100mm

Silver

🕒 5 year mechanical

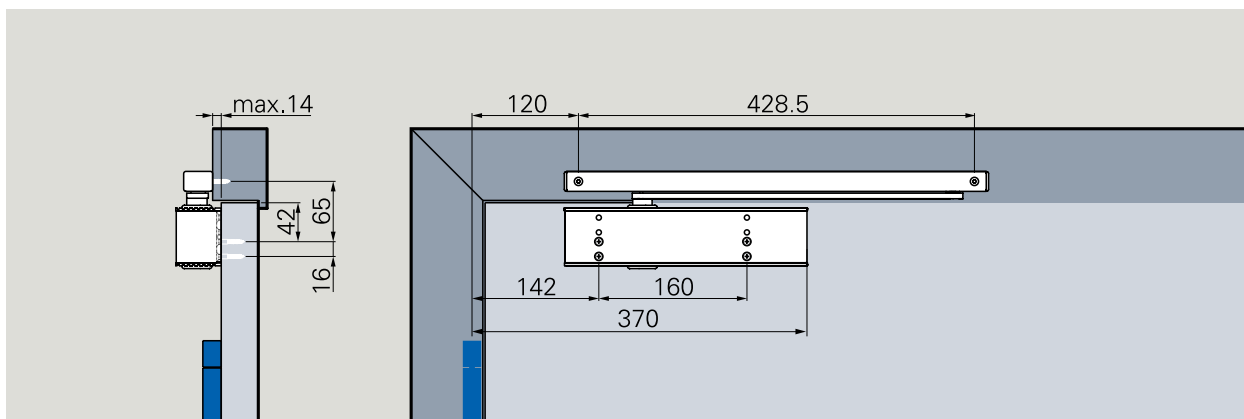


ECO

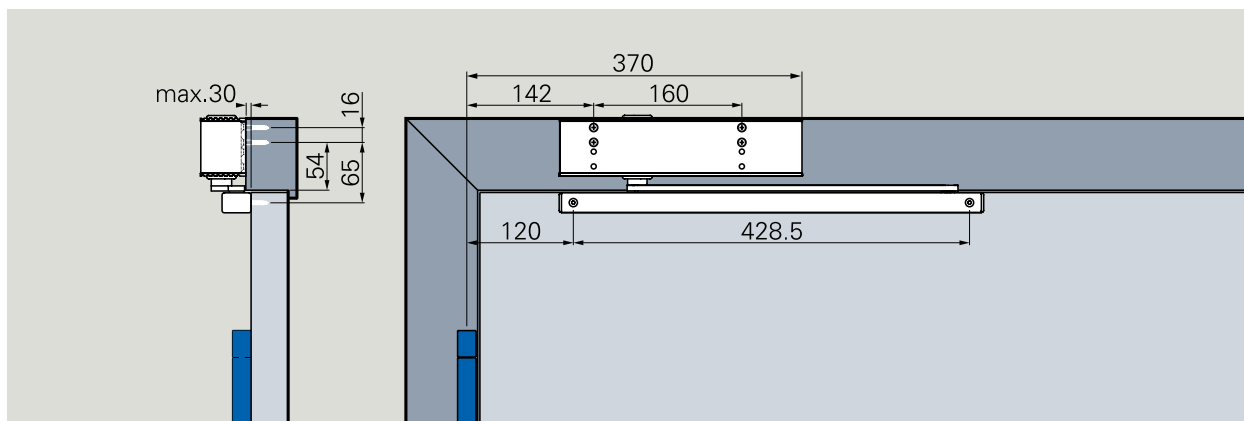
\* **Note:** For more information on Fire Ratings please contact your Gainsborough representative.

**Hinge side TS-51 B**

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



Standard mounting with slide rail B, hinge side



Head mounting with slide rail B, hinge side

**Closing speed**

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

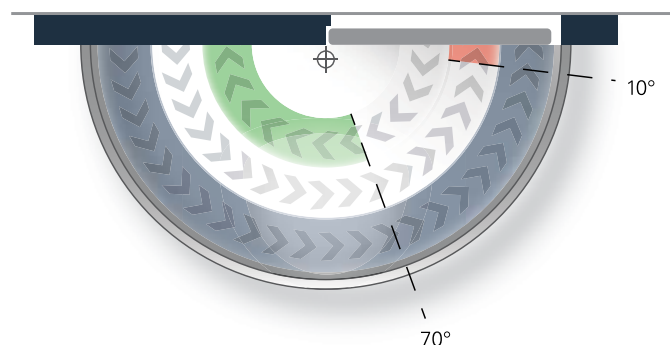
**Latching speed**

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**

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

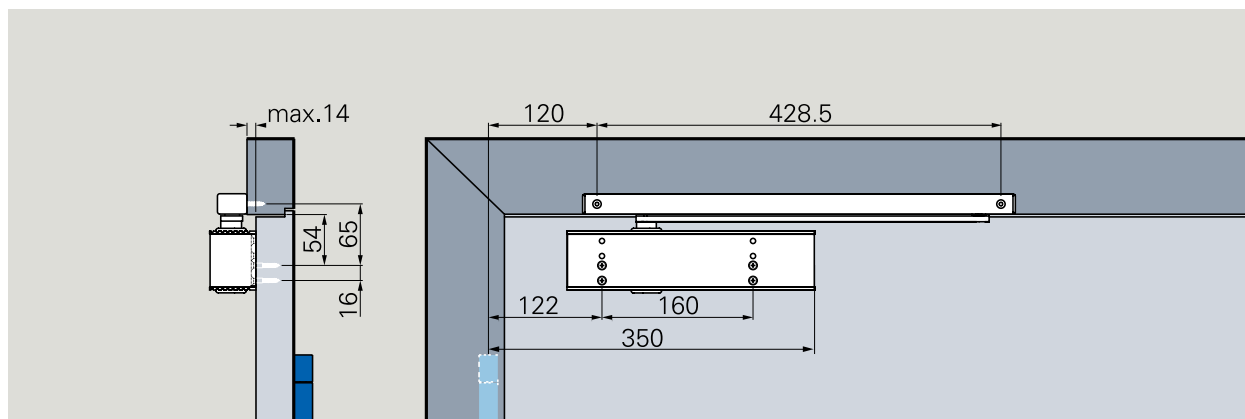
Closing force diagram ECO Newton TS-51 B, hinge side

**CLOSING FORCE**

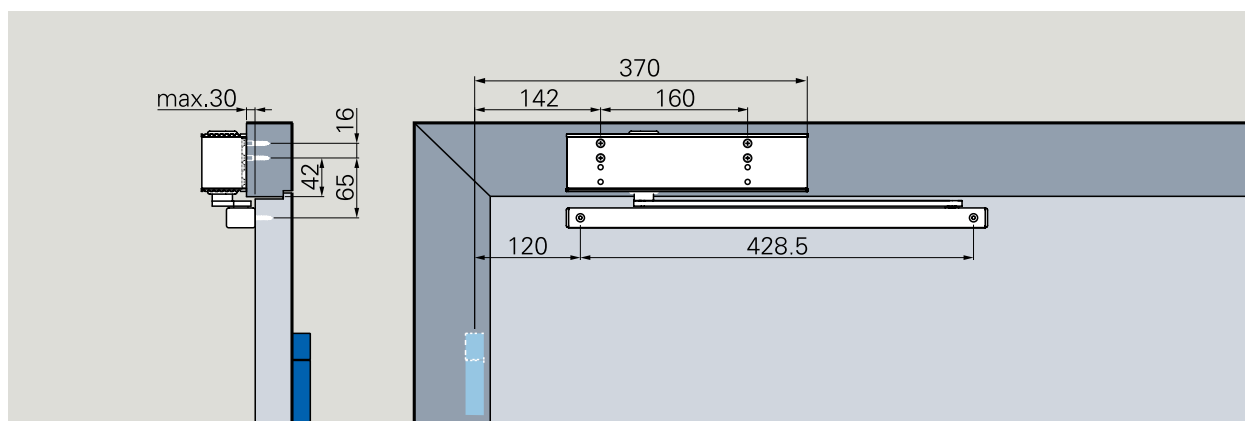
Continuously adjustable min. size 1  
max. size 4  
Default delivery condition: size 3

### Hinge opposite side TS-51 G

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



Standard mounting with slide rail B, hinge-opposite side



Head mounting with slide rail B, hinge-opposite side

#### Closing speed

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

#### Latching speed

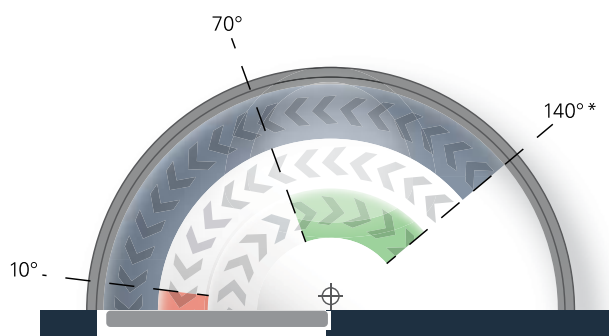
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.

#### Back-check

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

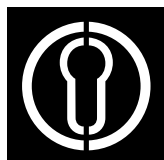
Note: Back-check not appropriate for head-mounting/ mounting on hinge-opposite side.

Closing force diagram ECO Newton TS-51 G, hinge-opposite side



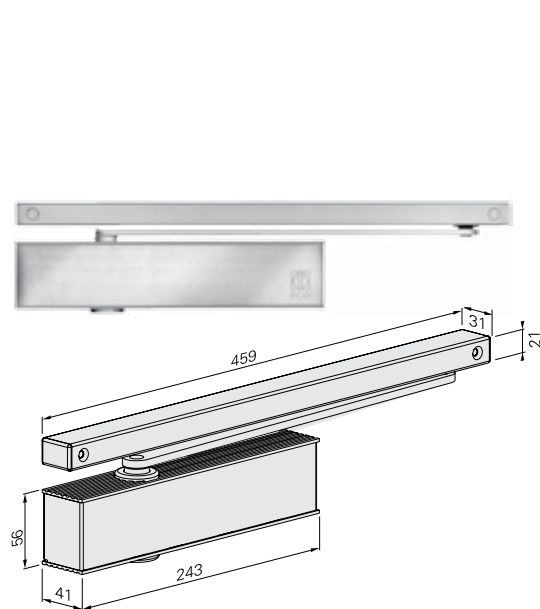
\*Varies according to door thickness and type of hinge.

**A door stopper for opening limit is a must!**



ECO



**Door closer with slide rail**

Dimensions: TS-41 with slide rail B

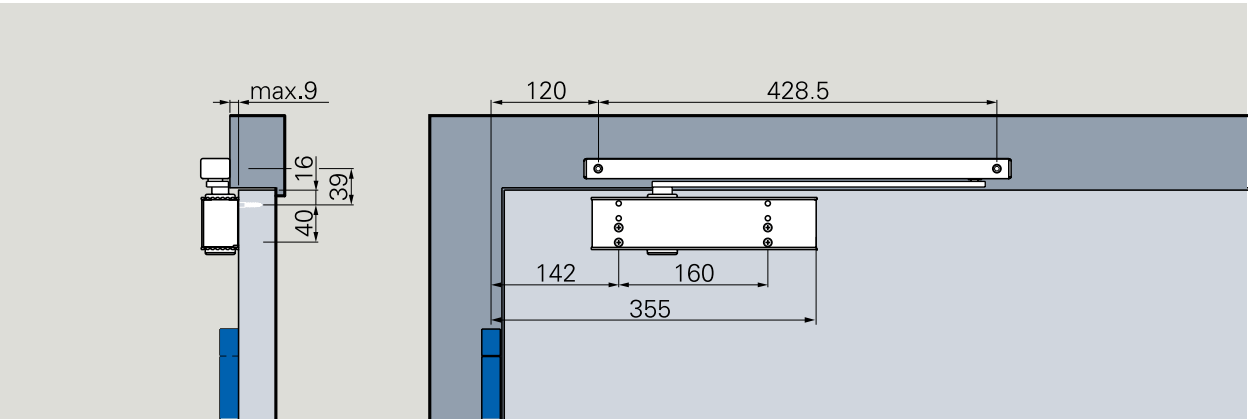
**TS-41****Part No - T41B2B1UCS20008 (1-4)**

- Delayed action
- Fixed back check
- Adjustable latch and closing speed
- Closing force 1-4
- Weight 1,380g
- Door opening angle 180°
- Door widths up to 1,100mm

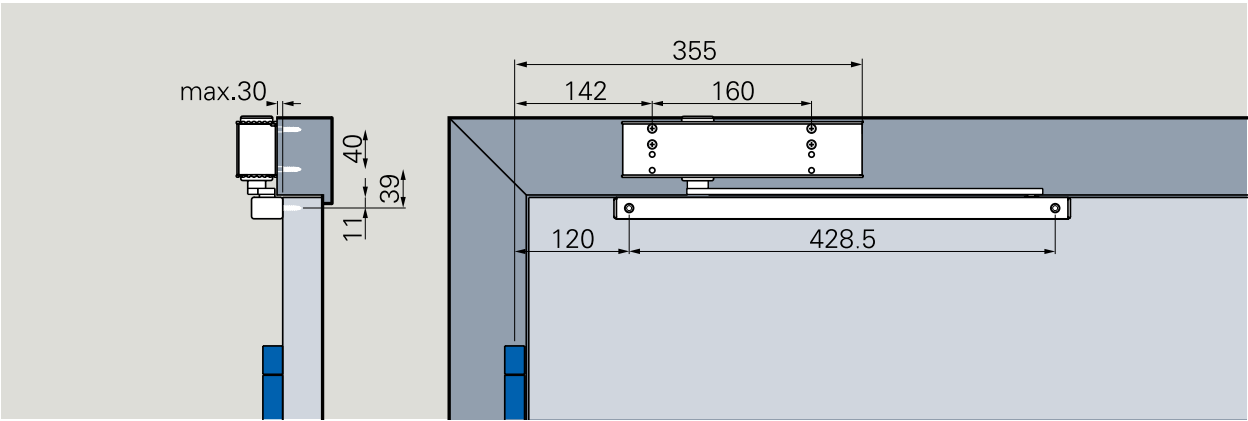
**Silver**
 **5 year mechanical**


Hinge side TS-41




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



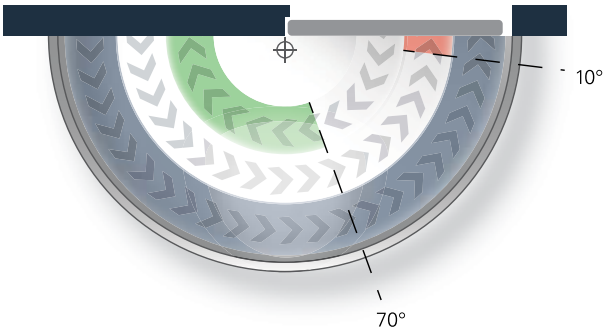
Standard mounting with slide rail B, hinge side (with optional mounting plate with DIN holes)



Head mounting with slide rail B, hinge side (with optional mounting plate with DIN holes)

-  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  
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



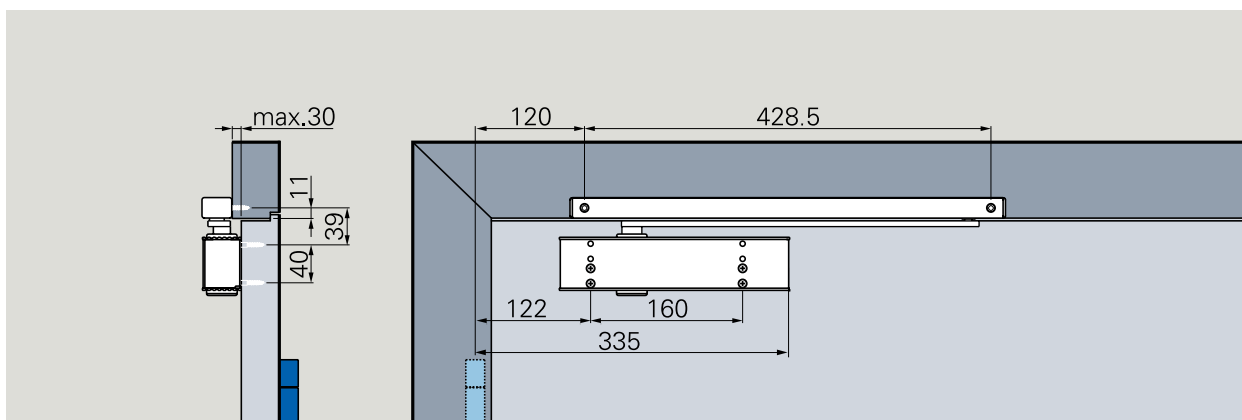
CLOSING FORCE

Continuously adjustable min. size 1  
max. size 4  
Default delivery condition: size 3

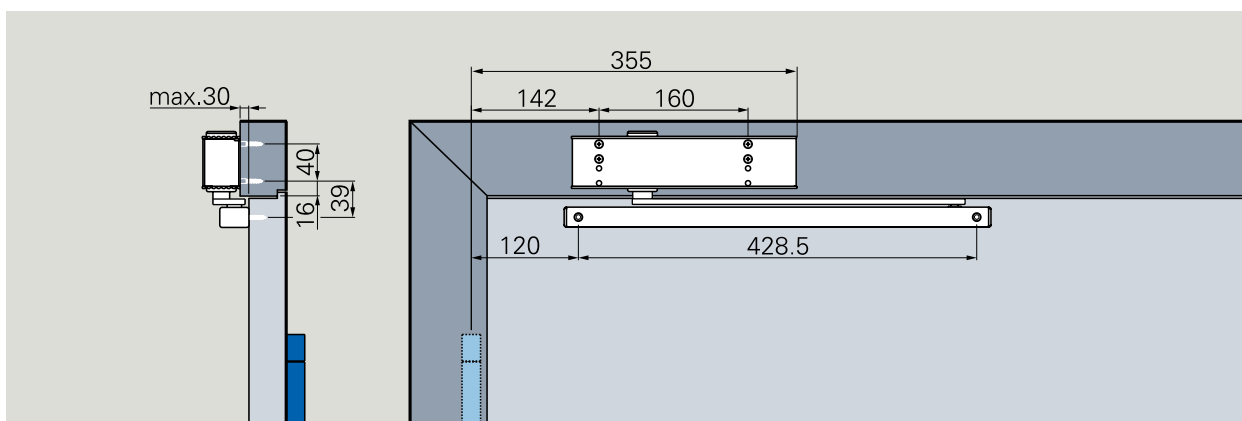


**Hinge-opposite side TS-41**

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



Standard mounting with slide rail B, hinge-opposite side (with optional mounting plate with DIN holes)



Head mounting with slide rail B, hinge-opposite side (with optional mounting plate with DIN holes)

**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°.

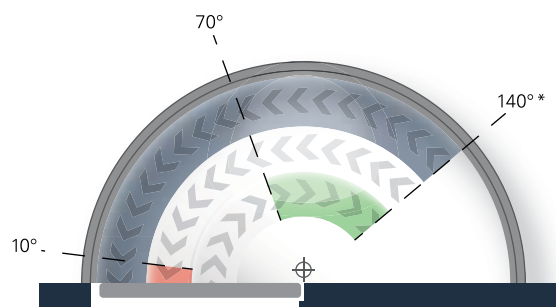
**Back-check**

Reduces the opening speed starting at 70° and avoids the slamming of the door.

Back-check fixed.

Note: Back-check not appropriate for head-mounting/ mounting on hinge-opposite side.

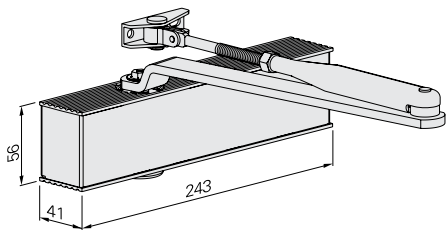
Closing force diagram ECO Newton TS-41, hinge-opposite side



\*Varies according to door thickness and type of hinge.

**A door stopper for opening limit is a must!**

Door closers with standard arm



Dimensions: TS-50

TS-50

Part No - T50B2K1UCA20008

Hinge side with delayed action

- Delayed action
- Constant back check
- Adjustable latch and closing speed
- Closing force 1-5
- Weight 1,280g
- Door opening angle 180°
- Door widths up to 1,250mm

Silver

🕒 5 year mechanical

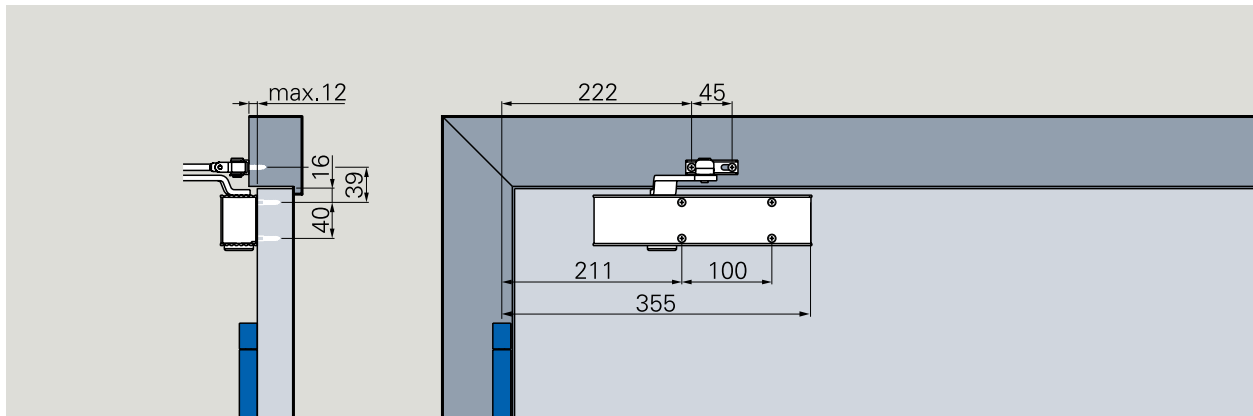


ECO

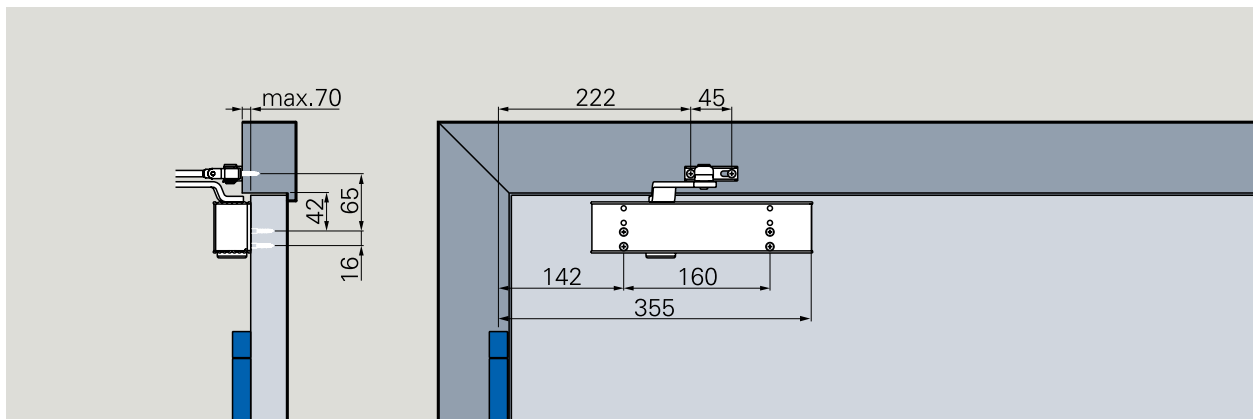
\* **Note:** For more information on Fire Ratings please contact your Gainsborough representative.

## Hinge side TS-50

Illustration DIN left door, DIN right laterally reversed



Standard mounting, hinge side (direct mounting, without mounting plate)



Standard mounting, hinge side (with optional mounting plate with DIN holes)

### 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.

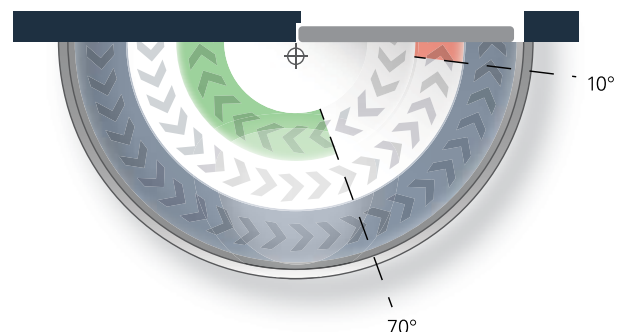
Continuously adjustable, works between 10° to 0°.

## Back-check

Reduces the opening speed starting at 70° and avoids the slamming of the door.

Back-check fixed.

Closing force diagram ECO Newton TS-50, hinge side



## CLOSING FORCE

Continuously adjustable

min. size 1  
max. size 5

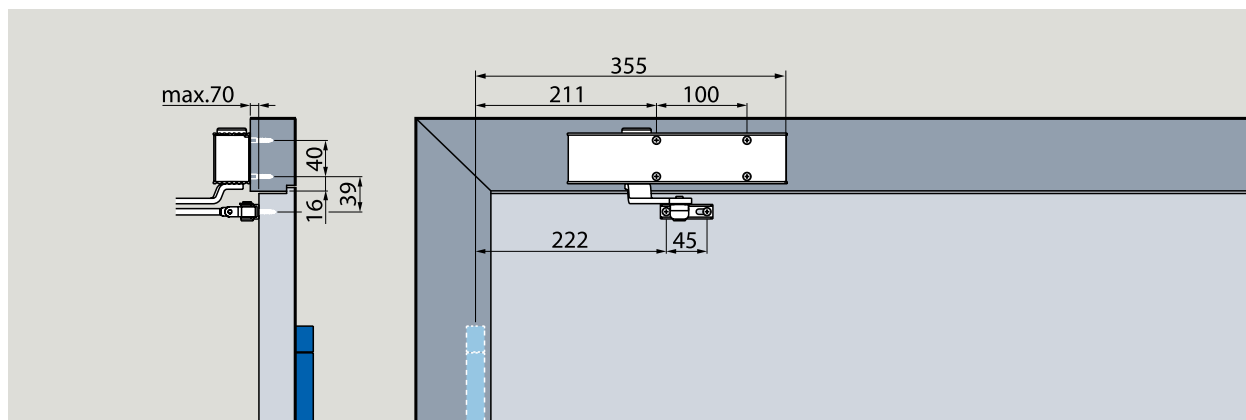
Default delivery conditon:

size 3

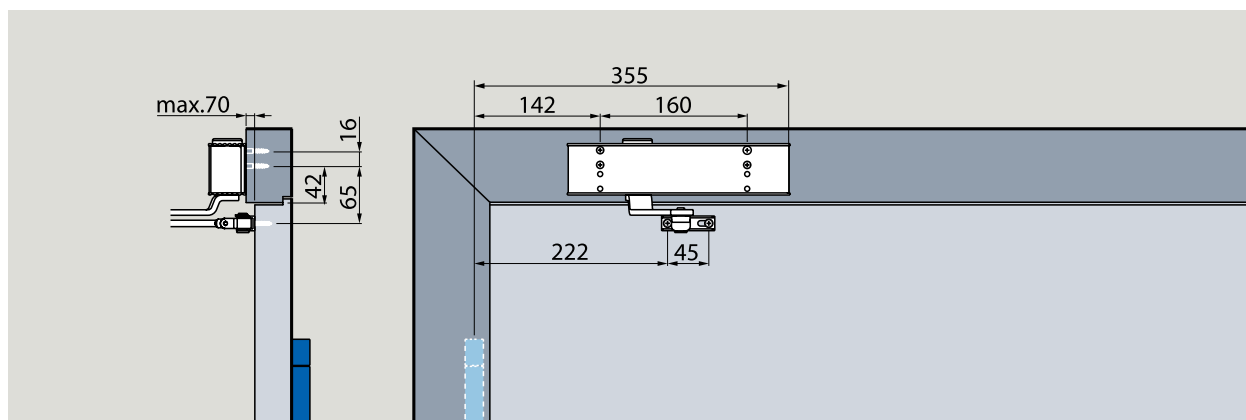


## Hinge-opposite side TS-50

Illustration DIN right door, DIN left laterally reversed



Head mounting, hinge-opposite side (direct mounting, without mounting plate)



Head mounting, hinge-opposite side (with optional mounting plate with DIN holes)

### Closing speed

Continuously adjustable closing speed from approx. 170° to 0°.

### Latching speed

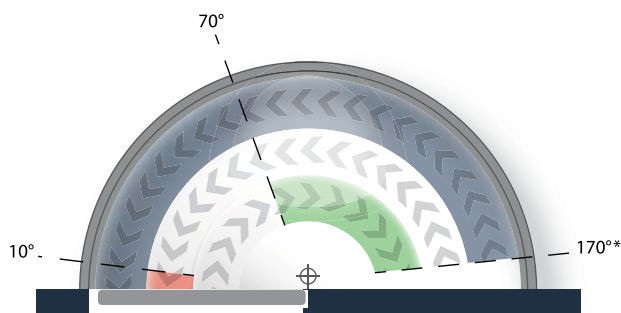
Increases the closing speed and thus the safe closing of the door, for example to overcome door seals, door locks and high air pressure. Continuously adjustable, works between 10° to 0°.

### Back-check

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

Note: Back-check not appropriate for head-mounting/ mounting on hinge-opposite side.

Closing force diagram ECO Newton TS-50, hinge-opposite side



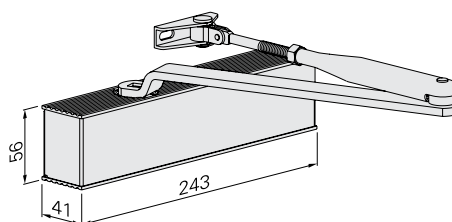
\*Varies according to door thickness and type of hinge.

**A door stopper for opening limit is a must!**



ECO

## Door closers with standard arm




Dimensions: TS-20

### TS-20

**Part No - T20B2G1UCA20008**  
**Fixed sizes 2, 3 or 5**

- Delayed action
- Fixed back check
- Adjustable latch and closing speed
- Closing force fixed 2, 3 or 5
- Weight 1,320g
- Door opening angle 180°
- Door widths up to 1,250mm

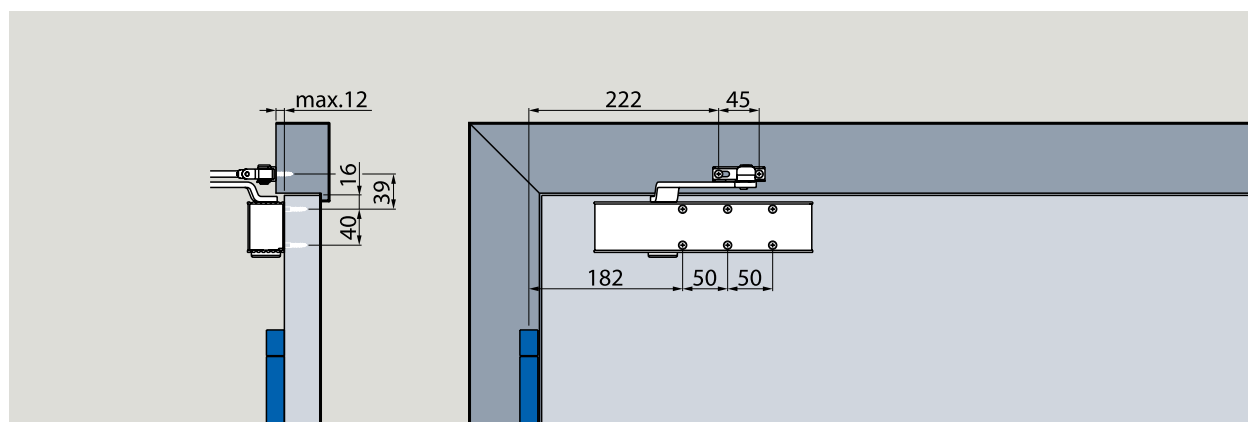
### Silver

 5 year mechanical

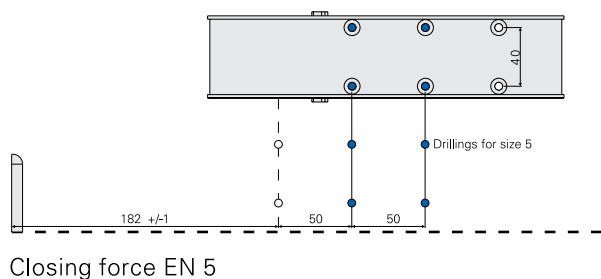
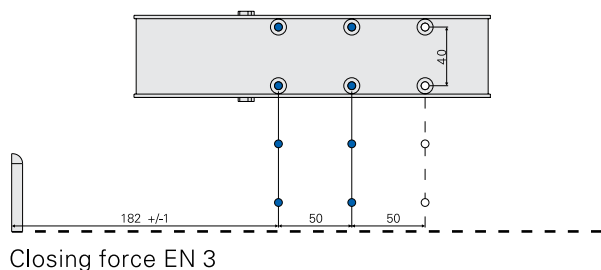
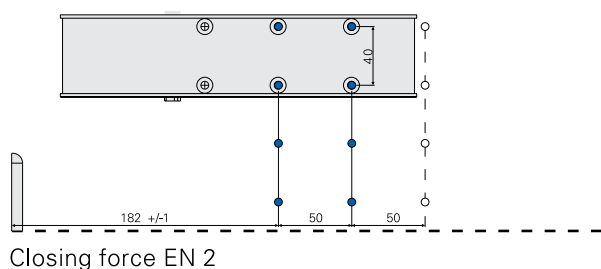


## Hinge side TS-20

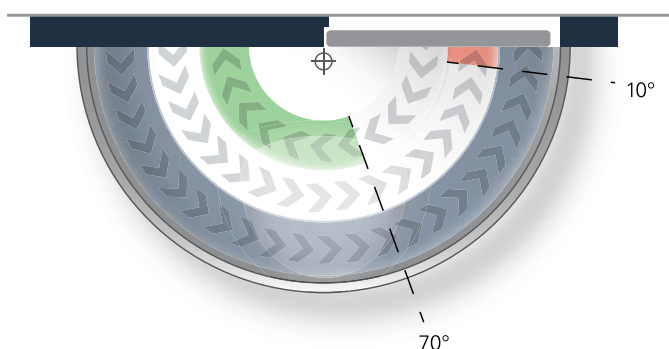
Illustration DIN left door, DIN right laterally reversed



Standard mounting, hinge side (direct mounting, without mounting plate)



Closing force diagram ECO Newton TS-20, hinge side



### 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

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

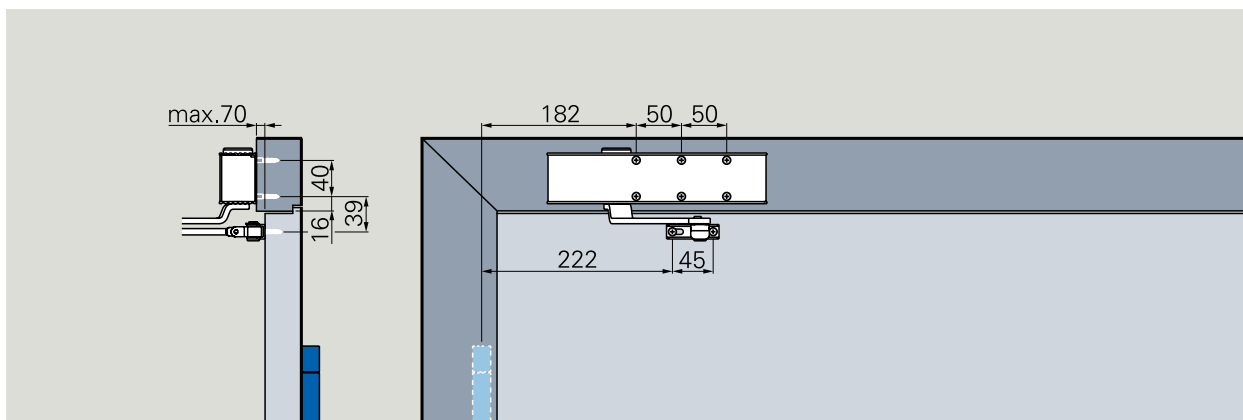
### Closing Forces

The different sizes are reached by moving the door closer on the door leaf. Additional drilling only necessary for size EN 5.

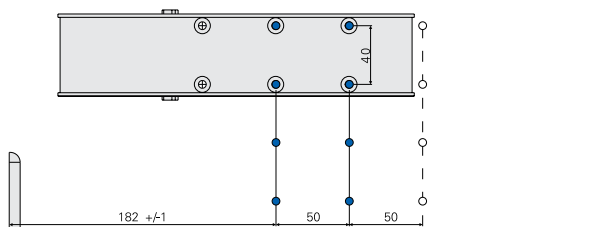


**Hinge-opposite side TS-20**

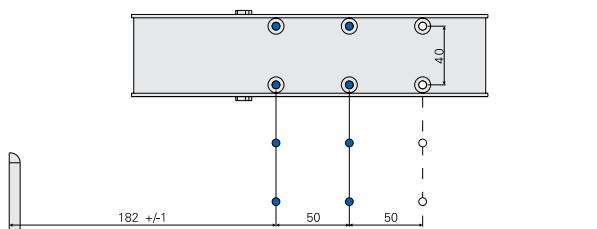
Illustration DIN right door, DIN left laterally reversed



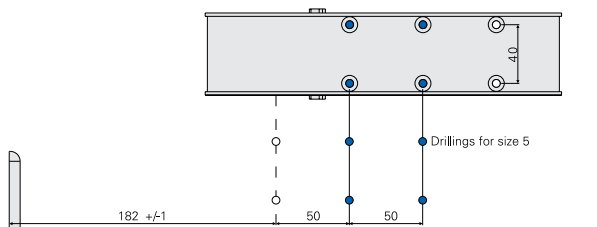
Head mounting, hinge-opposite side (direct mounting, without mounting plate)



Closing force EN 2



Closing force EN 3

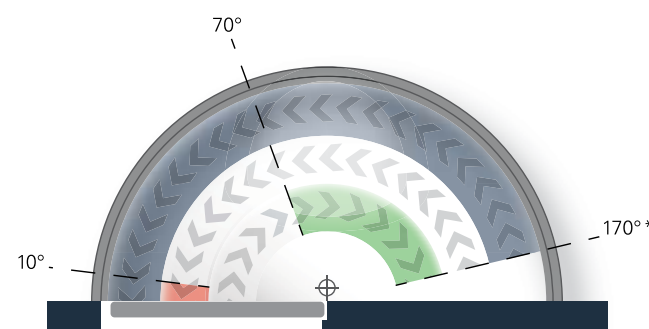


Closing force EN 5

**Closing Forces**

The different sizes are reached by moving the door closer on the door leaf. Additional drilling only necessary for size EN 5.

Closing force diagram ECO Newton TS-20, hinge-opposite side

**Closing speed**

Continuously adjustable closing speed from approx. 170°\* 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**

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

Note: Back-check not appropriate for head-mounting/ mounting on hinge-opposite side.

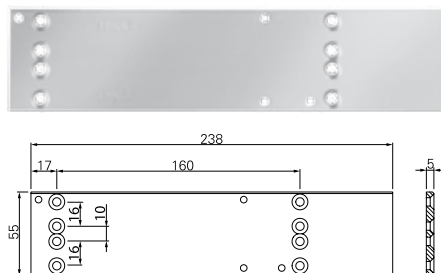
\*Varies according to door thickness and type of hinge.

**A door stopper for opening limit is a must!**

## Mounting plate

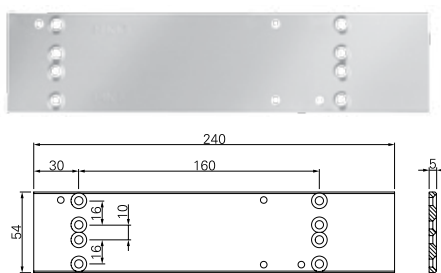
The special feature of the ECO Newton assembly system is that the mounting plate is completely concealed by the aluminium body of the closer, thus making it invisible. The mounting plate has standardised drill holes which guarantee time-saving, secure and simple attachment. Same version DIN left and DIN right.

### Mounting plate TS-61



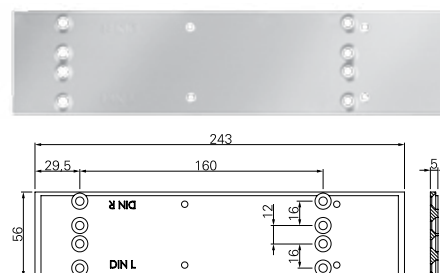
Part No - 9T615022LO

### Mounting plate TS-51



Part No - 9T515022LO

### Mounting plate TS-41, TS-50



Part No - 9T31502LA

## Full cover for ECO Newton TS-61, TS-51, TS-41, TS-50 & TS-20

The full cover is an optional stainless steel covering for the ECO Newton door closers and related slide rails. The overall appearance is perfected by a lever arm with a stainless steel look. A cover on the closer body is available for standard arm closers.

### In rail buffer to suit guide rail B

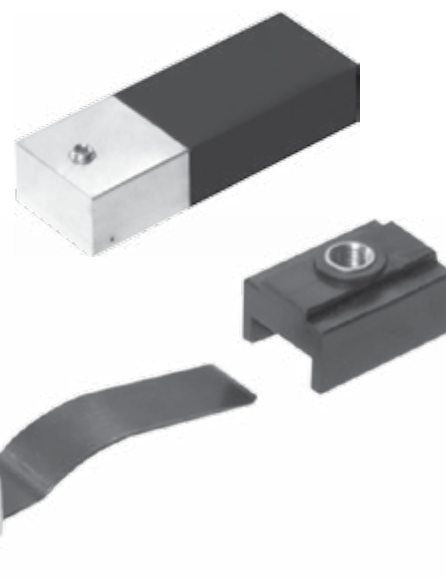
Part No - 350100000054000

Mechanically adjustable opening limit (MOL) for the slide rail B. The opening angle can be locked by moving the MOL in the slide rail 30 x 20mm.

### In rail mechanical hold open device to suit guide rail B

Part No - 35010000005620

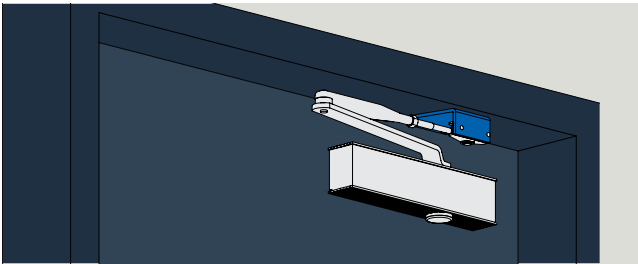
Mechanical locking device for belated assembly in slide rail B. Not permitted for use in fire protection. 30 x 21mm.



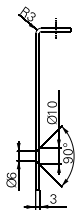
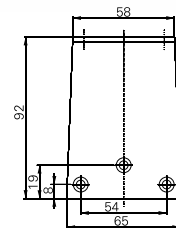
ECO

**Parallel arm bracket for TS-50/TS-20****Part No - 350300B00A00000**

For mounting the standard arm on the hinge-opposite side on profile frame constructions as well as over-rebated wooden doors with slim steel frames.



Angle bracket parallel arm mounting door closer with standard arm



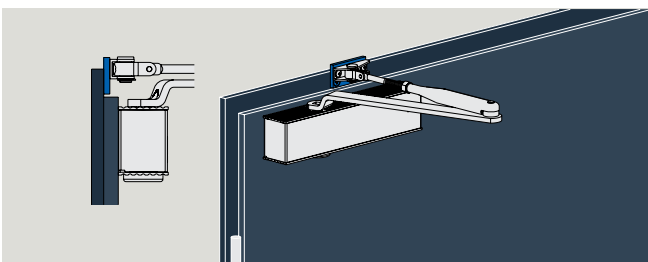
Angle bracket for standard arm

**Hold open arm for TS-50/TS-20****Part No - 9A401003P**

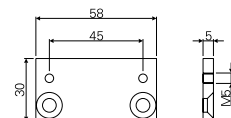
The hold-open arm offers an additional hold-open function to fix the door. Steel zinc-plated. Hold-open angle 70° – 130°. Hold-open force adjustable. Not allowed on fire-protection doors.

**Adaptor profile for door closer with standard arm or hold open arm****Part No - 300300A00000000**

For installation of the standard or hold open arm on the pull side on profile door constructions as well as over-rebated wooden doors with slim steel frames.



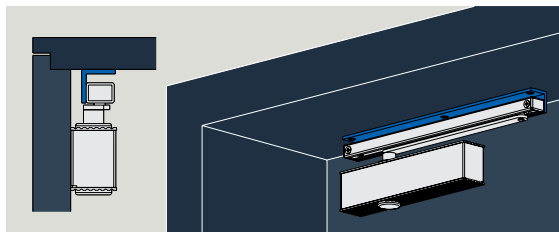
Adaptor profile for standard mounting door closer with standard arm



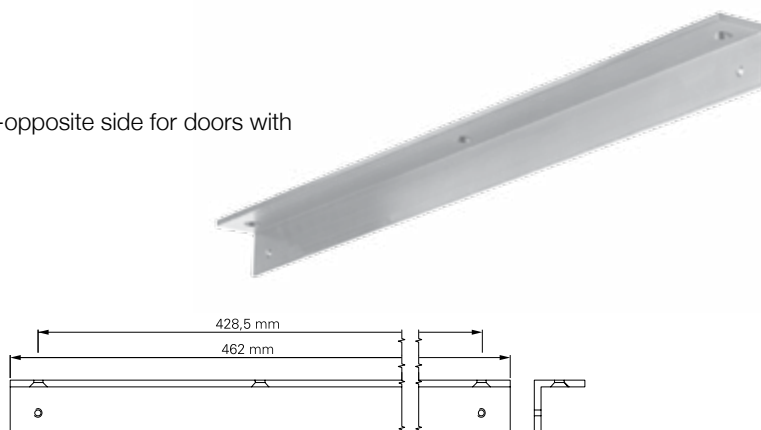
## Under-lintel angle for slide rail B

Part No - 350300J00A0000

For standard mounting installation on the slide rail on hinge-opposite side for doors with deep door lintels. Under-lintel angle made of aluminium.



Under-lintel angle for standard mounting door closer with slide rail

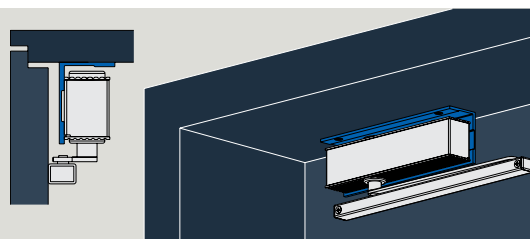
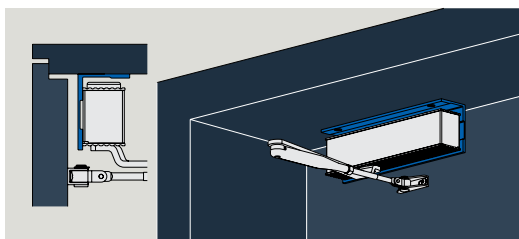


Under-lintel angle for slide rail B

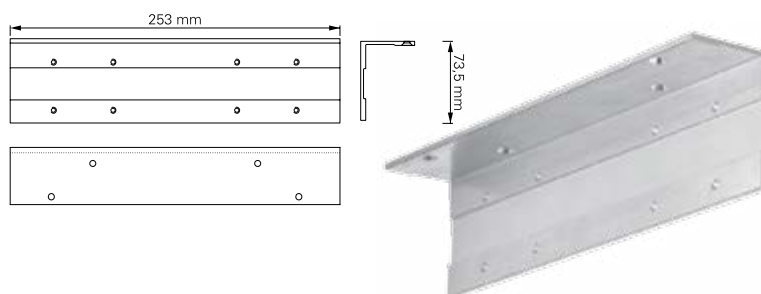
## Under-lintel angle for door closers with slide rail/standard arm

Part No - 300330E00A00000

For head mounting of the door closer on hinge-opposite side for doors with deep door lintels. Under-lintel angle made of aluminium.



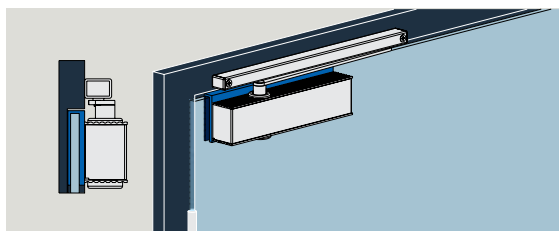
Under-lintel angel for head mounting door closer with standard arm (l.) or door closer with slide rail (r.).



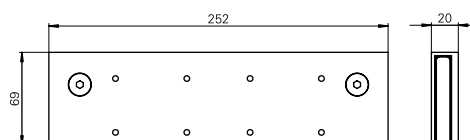
## Glass clamping device for TS-41

Part No - 350310600A00000

Clamping device made of aluminium, silver coated for fixing an ECO door closer ECO Newton TS-41 onto a glass door. Suitable for 8-10mm glass (toughened safety glass). Same version DIN left and DIN right. Including threaded holes for the door closer. Aluminium F1 silver coated.



Mounting of glass clamping device



Glass clamping device ECO Newton TS-41



## Floor Springs

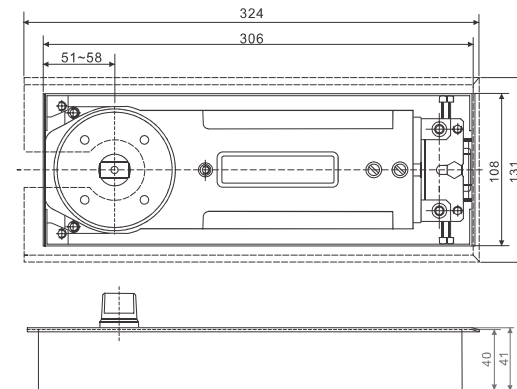
German designed and precision engineered for durability.  
EN 1154 rated 500,000 cycles. Supplied with fully galvanised,  
powder coated cement box and stainless steel cover plate.  
Accessories sold seperately.



FH 840 series

Floor spring model	EN size	Max. door width (mm)	Max. door weight (kg)	Cam-action	Angle of opening	Arm		Adjustable functions		Hold open		
						Standard arm	Offset arm	Latching	Closing speed	Without hold open	Hold open at 90°	Hold open at 105°
FH 842	2	850	120	✓	130°	✓	◆	✓	✓	◆	✓	◆
FH 843	3	950	120	✓	130°	✓	◆	✓	✓	◆	✓	◆
FH 844	4	1100	150	✓	130°	✓	◆	✓	✓	◆	✓	◆

✓ Standard ◆ Optional

**ECO Floor Spring****Part Number****EN size****Door Width****Door Weight****FH 842 including cement box and SSS cover, without accessory set**

Non Hold Open (NHO)	80JF42232200105	2	850mm	120 kg
90° Hold open	80JF42232202105	2	850mm	120 kg
105° Hold open	80JF42232201105	2	850mm	120 kg

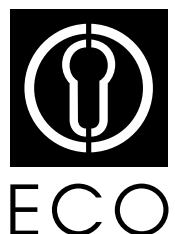
**FH 843 including cement box and SSS cover, without accessory set**

Non Hold Open (NHO)	80JF43232200105	3	950mm	120 kg
90° Hold open	80JF43232202105	3	950mm	120 kg
105° Hold open	80JF43232201105	3	950mm	120 kg

**FH 844 including cement box and SSS cover, without accessory set**

Non Hold Open (NHO)	80JF44232200105	4	1100mm	150 kg
90° Hold open	80JF44232202105	4	1100mm	150 kg
105° Hold open	80JF44232201105	4	1100mm	150 kg

<b>Accessory set</b>	80JF43000003002	top pivot (2 part), bottom strap		
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ECO Floor Spring	Part Number	EN size
<b>Floor spring spindle inserts</b>		
extended by 5mm	80JA0026	5
extended by 10mm	80JA0027	10
extended by 15mm	80JA0028	15
extended by 20mm	80JA0029	20
extended by 25mm	80JA0030	25
extended by 30mm	80JA0031	30
extended by 35mm	80JA0032	35
extended by 40mm	80JA0033	40
extended by 45mm	80JA0034	45
extended by 50mm	80JA0035	50

<b>Floor pivot with standard spindle</b>	80JA0036 silver
<b>Floor pivot cover plate</b>	80JA0037 satin stainless steel

<b>Offset pivot for single action doors with SSS universally handed covers</b>	80JA0038
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<b>Pivot set with lateral adjustment</b>	
100kg	80JA00724300012
300kg	80JA00734300012

<b>Extended pivot set 120kg</b>	80JA00744300012
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## FH 840 series

### Extended Spindle Inserts



## Floor Pivot & Cover Plate



## Offset Pivot



## Pivot Set with Lateral Adjustment

### 100kg



### 300kg



## Extended PivotSet 120kg



ECO

## Transom Closer

German designed and precision engineered. Supplied with accessory set, mounting brackets, side load arm and floor pivot. EN 1154 rated to 500,000 cycles.



RT 850 series

Transom closer model	EN size	Max. door width (mm)	Max. door weight (kg)	Cam-action	Angle of opening	Arm		Adjustable functions			Hold open	
						Side load arm	End load arm	Latching	Closing speed	Without hold open	Hold open at 90°	Hold open at 105°
RT 852	2	850	80	✓	130°	✓	◆	✓	✓	✓	◆	◆
RT 853	3	950	100	✓	130°	✓	◆	✓	✓	✓	◆	◆
RT 854	4	1100	120	✓	130°	✓	◆	✓	✓	✓	◆	◆

✓ Standard    ◆ Optional

ECO Transom Closer	Part Number	EN size	Door Width	Door Weight
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### RT 852 with accessory set

Non hold open	80JF52272230105	2	850mm	80kg
90° Hold open	80JF52272232105	2	850mm	80kg
105° Hold open	80JF52272231105	2	850mm	80kg

### RT 853 with accessory set

Non hold open	80JF53222230105	3	950mm	100kg
90° Hold open	80JF53222232105	3	950mm	100kg
105° Hold open	80JF53222231105	3	950mm	100kg

### RT 854 with accessory set

Non hold open	80JF54242230105	4	1100mm	120kg
90° Hold open	80JF54242232105	4	1100mm	120kg
105° Hold open	80JF54242231105	4	1100mm	120kg



RT 850 series accessories