

Door closers

TESA

ASSA ABLOY



Safety that begins when door opens



The TESA Door Closer range offers solutions for controlled closing of any kind of door, be it made of wood, aluminium, steel or glass, and of course, Fire Doors.

Regardless the door material, dimensions or weight, this catalogue offers a wide scope of solutions for each need, from the entrance door to an

apartment building to very specific applications like the access to surgery areas in a hospital, corridors and rooms in a Hotel or outstanding doors in museums or historic buildings.

If you could not find a solution for your specific need in the TESA closer range, it simply does not exist.

Versatility

The scope of installation possibilities of TESA door closers, combined with their accessories, is as wide as that of doors in real life.



Fire doors and en1154 standard: alliance for safety

The standardisation of minimum performance requirements for a Door Closer came in 1996 with EN1154 standard, which was later on revised and updated in 2002.

Nowadays, most of the European Countries request a EN1154 certified Door Closers for every Fire Door involved in a Fire Prevention plan.

This is why certified and CE marked Door Closers play a central role in the Fire Protection of any building.

Bearing in mind the importance of protecting people's lives, the fulfilment of minimum requirements of EN1154 has never been a goal in TESA, but the very starting point of development for all CE marked models in our range.



Guaranteed by TESA

Buying TESA is a quality guarantee. All our products boast the highest guarantees, such as the ISO 9001 Quality certificate, the environmentally-conscious ISO 14001 and the Occupational Hazard Prevention standard. TESA offers ecologically sustainable quality products, manufactured by highly dedicated staff.

Controlled and efficient closing

Every TESA door closers features at least two speed control valves, and, of course, the closing power can be adjusted to door size.

That is the case in our multi-size models, which offer 2 or 3 sizes in a single closer or the more advanced models featuring continuously adjustable size, which allows perfect adaptability of closing power to the exact requirements of each specific door.



Disabled, Elderly and Children... a growing population sector that needs easier access through every door.

This is a high challenge when a door closer takes care of a door's closing, as it requires energy from our muscles to reload the spring power in each opening.

TESA is proud to offer a complete range of CAM MOTION door closers which feature SOFT TOUCH opening:

CT4500 and CT5000 models with guide rail system as well as TEX14 and TEX26 for concealed installation.

Their outstanding efficiency and CAM MOTION design will assure the softer opening that a mechanical device can provide.

The four of them can equip single or double doors, with integrated closing selection and/or electrically controlled Hold Open for safety in Fire Doors.

Wouldn't it be better making a door swing without any effort at all ?

This is now possible with CT3000LE which needs to be loaded only the first time the door is opened. The CT3000LE will disengage itself from the door and it will wake up only in case a Fire alarm occurs.

Closer selection

Standard Arm

EN Size	Width	Weight	CT500	CT1800 CT2000 CT2500	CT2700	CT2800	CT300036 + BN3000	CT300057 + BN3057
1	75 cm	20 Kgs						
2	85 cm	40 Kgs	•	•	•		•	
3	95 cm	60 Kgs	•	•	•	•	•	
4	110 cm	80 Kgs		•	•	•	•	
5	125 cm	100 Kgs				•	•	•
6	140 cm	120 Kgs				•	•	•
7	160 cm	160 Kgs						•
Traffic intensity			Medium	High	High	Very High	Extreme	Extreme



Sliding guide rail

EN Size	Width	Weight	CT2000D	CT300036 + GD3000	CT4500	CT5000	CT5700
1	75 cm	20 Kgs		•	•	•	
2	85 cm	40 Kgs	•	•	•	•	
3	95 cm	60 Kgs	•	•	•	•	
4	110 cm	80 Kgs		•	•	•	
5	125 cm	100 Kgs				•	•
6	140 cm	120 Kgs				•	•
7	160 cm	160 Kgs					•
Traffic intensity			Medium	Extreme	Very High	Extreme	Extreme



Concealed

EN Size	Width	Weight	TEB 700	TEX14	TEX26
1	75 cm	20 Kgs			•
2	85 cm	40 Kgs	•	•	•
3	95 cm	60 Kgs	•	•	•
4	110 cm	80 Kgs		•	•
5	125 cm	100 Kgs			•
6	140 cm	120 Kgs			•
7	160 cm	160 Kgs			•
Traffic intensity			Medium	Very High	Very High



Floor springs

EN Size	Width	Weight	CTSU70	CTSU100	CTSU200	CTSU300
1	75 cm	100 Kgs				
2	85 cm	100 Kgs	•	•	•	
3	95 cm	100 Kgs	•	•	•	•
4	110 cm	100 Kgs	•	•	•	•
5	125 cm	300 Kgs				•
6	140 cm	300 Kgs				•
7	160 cm	300 Kgs				•
Traffic intensity			Medium	High	High	Very High



Size coding: • Single fixed size • Selectable sizes by position
 • Continuously Adjustable size with fine tune control

Link arm door closers

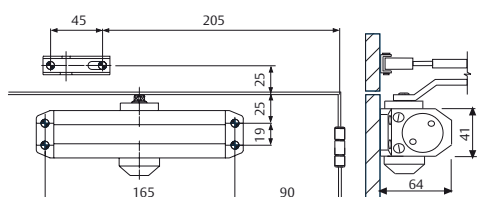
CT500

The CT500 is a door closer that offers good performance in a compact size.

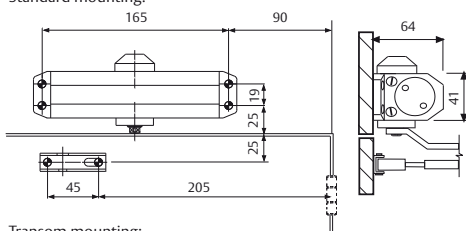
It can drive doors from size 2 to 3. This means that the CT500 will feel comfortable closing doors weighing from 40 to 60 Kg. and up to 95 cm. door width.

This capability is achieved in a single model thanks to the variable position installation system.

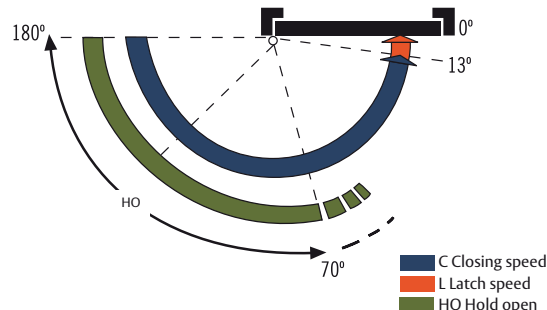
- » Rack and pinion mechanism for smooth and reliable operation.
- » Two valves to adjust both sweep and latch speeds separately.
- » Two sizes (EN2&EN3) in a single model.
- » Reversible.
- » CT501 model permits to hold the door open at any position between 0° and 180°.
- » Suitable for doors opening inwards or outwards.:
 - Standard mounting: Door opens INWARDS, mounting on the pull side.
 - Transom mounting: Door opens OUTWARDS, mounting on the push side.
- » Four finishes: BL: White, BR: Bronze, NE: Black, PL: Silver



Standard mounting:



Transom mounting:



Model	Size	Door width cm	Door weight Kg	Opening	Adjustable
CT500	2	85	40	180°	S L
(non hold open)	3	95	60	180°	S L
CT501	2	85	40	180°	S L (70-180°)
(hold open)	3	95	60	180°	S L (70-180°)

Link arm door closers

CT1800

Multi size door-closer (2-3-4) by means of three mounting positions.
CT1800 has been EN1154 certified and hence valid for Fire Doors.

- » One model for three sizes: EN2, EN3 and EN4
- » Maximum opening up to 180° (depending on door hinges and environment). Up to 105° mounted at size 4.
- » Distance between fixing holes is 19 mm:
CT1800 closers fit any aluminium door.
- » Reversible, non handed.
- » Finishes: White (BL), Black (NE), Silver (PL).

Classification with EN1154:1996+A1:2002

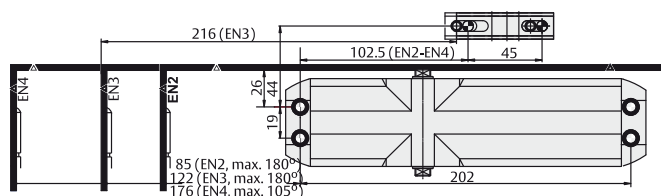
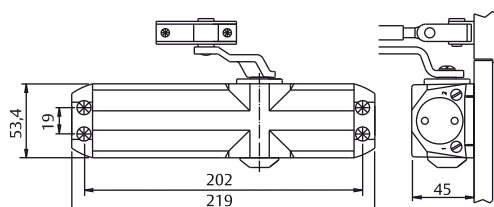
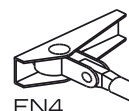
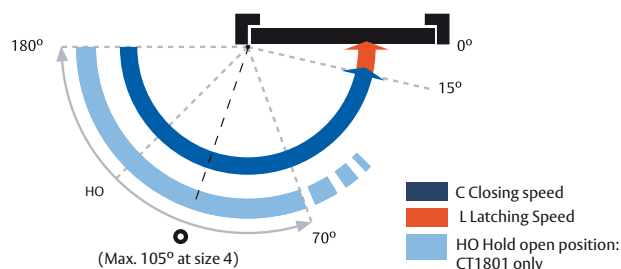
Standard arm transom mountings:

3 8 2/4 1 1 4

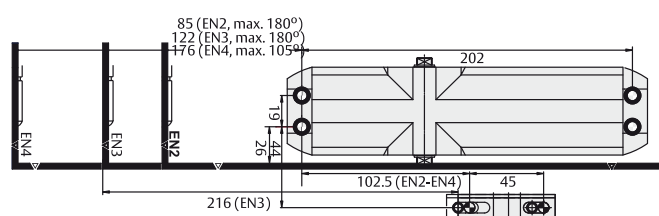
With parallell arm bracket SOP1800

3 8 3 1 1 4

EN 1154 CERTIFIED
Fire door



Standard mounting: Pull side



Transom mounting: Push side

Non hold open (EN1154 Certified)		
Size	Model	Finish
2 - 4	CT180034	BL - NE - PL - BR - OR
Hold open (Not suitable for fire doors)		
Size	Model	Finish
2 - 4	CT180134	BL - NE - PL - BR - OR
Paralell arm installation bracket		
Reference	Finish	
SOP1800	BL - BR - NE - OR - PL	

Size	Door Width cm	Door Weight Kg	Adjustment
2	85	40	VC - GF
3	95	60	VC - GF
4	110	80	VC - GF



SOP1800 Parallel Arm installation bracket.

Link arm door closers

CT2500

CT2500 closers stand out for their versatility and stylish design.

- » One model for three sizes: EN2, EN3 and EN4
- » Unique body and arm hole pattern for three sizes.
- » Maximum opening up to 180° (depending on door hinges and environment).
- » Sweep speed and latching speed fully adjustable with separate valves.
- » Backcheck valve to protect the door against violent openings. CT2500 model only.
- » CT2501: Includes adjustable hold open arm, for any door open position up to 180°.
- » Reversible, non handed.
- » Finishes: White (BL), Black (NE), Gold (OR), Silver (PL).

EN 1154 CERTIFIED
Fire door



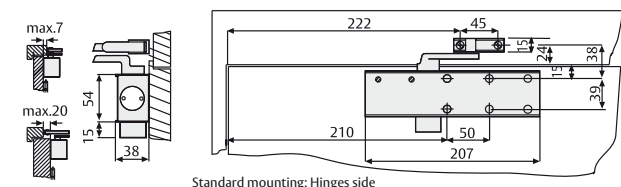
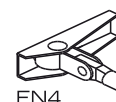
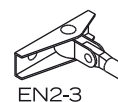
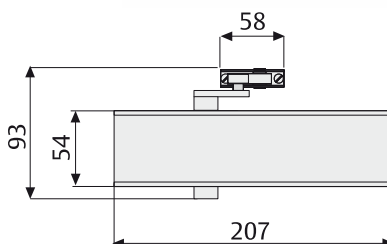
Classification according EN1154:1996+A1:2002

Standard arm transom mountings:

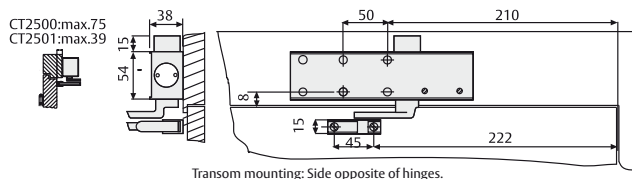
4 8 2/4 1 1 4

With parallell arm bracket SOP2500

3 8 3 1 1 4

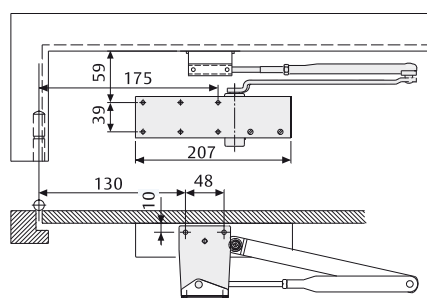
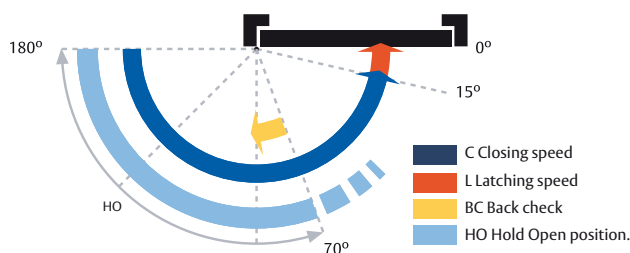


Standard mounting: Hinges side



Transom mounting: Side opposite of hinges.

Size (EN 1154)	Ancho puerta cm	Peso puerta Kg
2	85	40
3	95	60
4	110	80



SOP 2500
(Parallel arm installation bracket.)

Non hold open (EN1154 certified)		
Size	Model	Finish
2 - 4	CT250034	BL - NE - PL - OR
Hold open (Not suitable for fire doors)		
Size	Model	Finish
2 - 4	CT250134	BL - NE - PL - OR
Paralell arm installation bracket		
Reference	Finish	
SOP2500	BL - NE - PL - OR	

The CT2500 and CT2501 are size 3 when parallell arm mounting is used.

Link arm door closers

CT2700

EN 1154 CERTIFIED
Fire door



The Architectural grade closer which combines stylish design and high performance with link arm.

Classification with EN1154: 4 8 2/4 1 1 4

- » Quick and easy mounting with one single fixing position for any door.
- » Optional flat mounting plate which is concealed after completing installation: APCT4500HZ
- » High precision adjustments for hydraulic control with three independent valves:
C: Closing speed
L: Latching Speed
BC: Back Check
- » Easy frontal access for all valves.
- » The Valves and fixings are kept concealed under the metallic clip-on cover plate.
- » Extendable grooved spindle with 14 mm. height adjustment.
- » To be used with BN3000 (standard arm) or BR3001 (Hold Open arm) which are ordered separately.
- » BR3001 allows door Hold Open function at any angle up to 150°

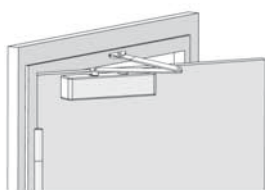
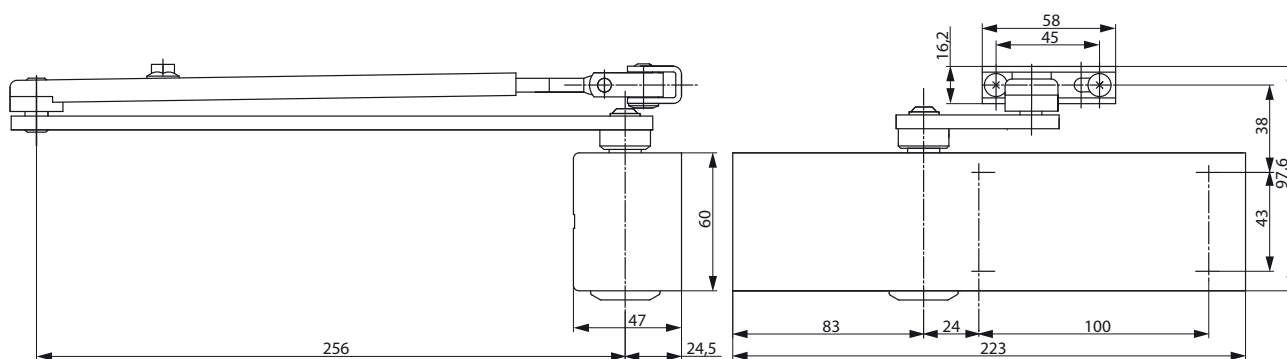
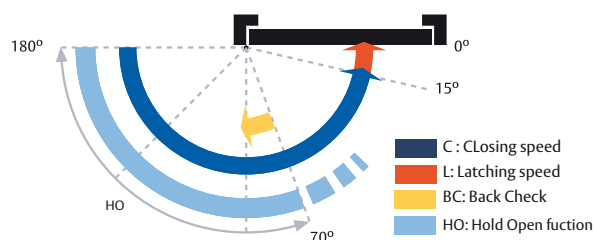
Size	Model	Finish
2 - 4	CT270024	BL - BR - NE - PL - OR

Arms

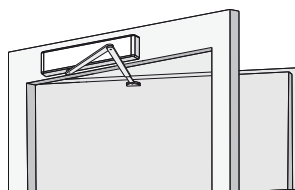
Model	Finish
BN3000	BL - BR - NE - PL - OR
BR3001	BL - BR - NE - PL - OR



CT2700 with BN3000



Standard mounting: Pull side



Transom mounting: Push side



Extendable height spindle 14 mm.

Link arm door closers

CT2800

The Arquitectural grade closer which combines stylish design and high performance with link arm.

EN 1154 CERTIFIED
Fire door



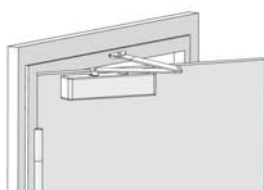
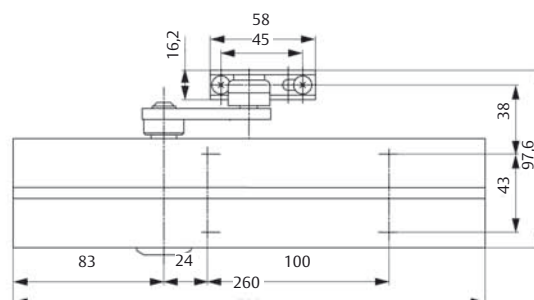
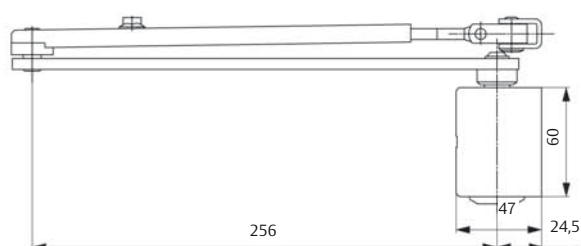
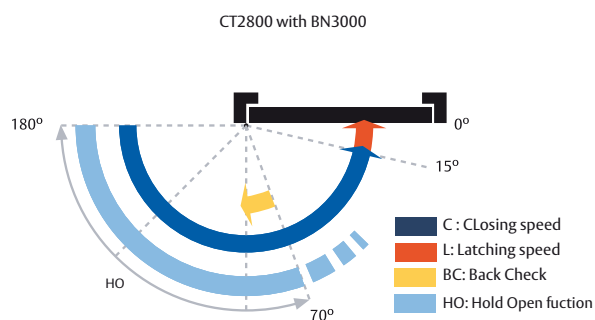
Classification with EN1154: 4 8 3/6 1 1 4

- » Quick and easy mounting with one single fixing position for any door.
- » Optional flat mounting plate which is concealed after completing installation: APCT4500HZ
- » High precision adjustments for hydraulic control with three independent valves:
C: Closing speed
L: Latching Speed
BC: Back Check
- » Easy frontal access for all valves.
- » The Valves and fixings are kept concealed under the metallic clip-on cover plate.
- » Extendable grooved spindle with 14 mm. height adjustment.
- » To be used with BN3000 (standard arm) or BR3001 (Hold Open arm) which are ordered separately.
- » BR3001 allows door Hold Open function at any angle up to 150°

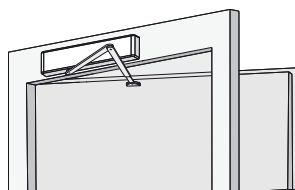
Size	Model	Finish
2 - 4	CT280036	BL - BR - NE - PL - OR

Arms

Model	Finish
BN3000	BL - BR - NE - PL - OR
BN3001	BL - BR - NE - PL - OR



Standard mounting: Pull side



Transom mounting: Push side



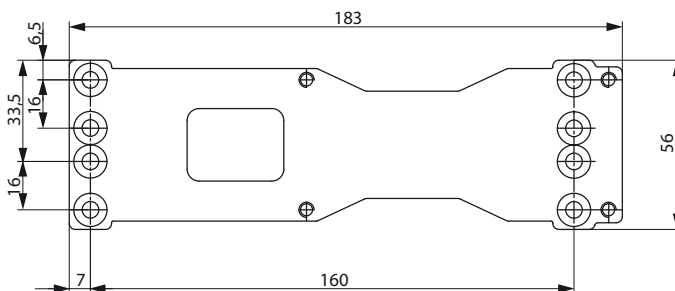
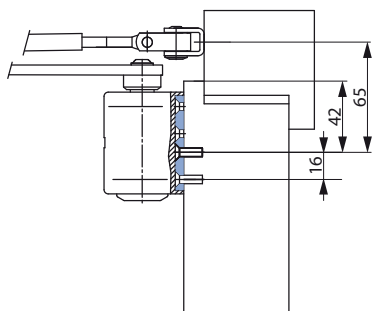
Extendable height spindle 14 mm.

Accessories for CT2700 - CT2800

APCT4500HZ

- » Flat mounting plate for easier closer installation.
- » It can be used with CT2700-CT2800-CT4500 closer bodies.
- » It stays hidden under the closer body after the installation is completed.
- » Zinc plated steel for firm fixing and corrosion resistance.

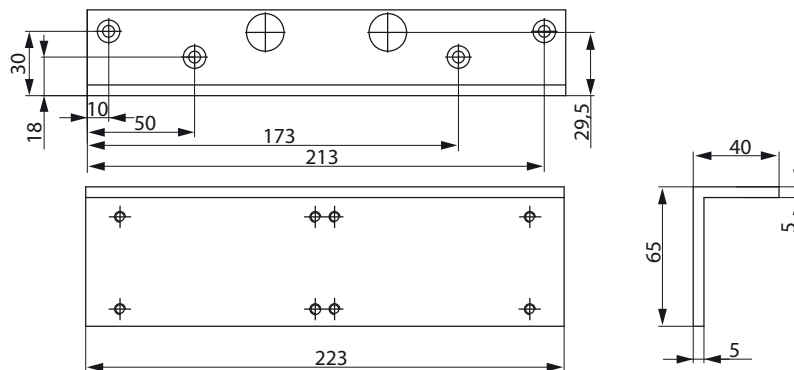
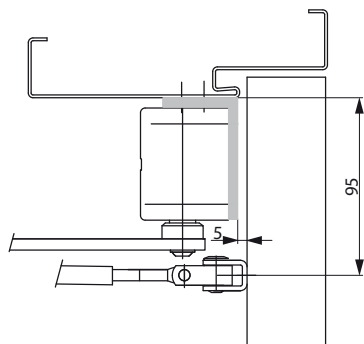
Model	Finish
APCT4500	HZ



ALCT4500

- » L type mounting plate for easier installations under deep frames or ceilings.
- » It can be used with CT2700-CT2800-CT4500 closer bodies.
- » It can be ordered to match the same finish of the door closer.

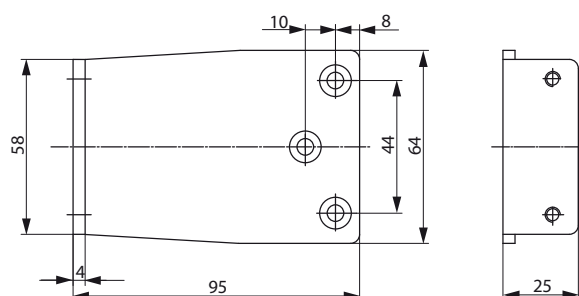
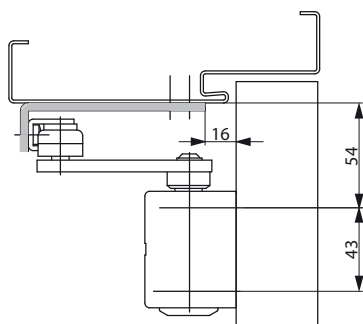
Model	Finish
ALCT4500	BL - BR - NE - OR - PL



SOP278

- » Special bracket for parallel arm mounting at the PUSH side.
- » Allows mounting either the CT2700 or CT2800 on the door leaf at the PUSH side
- » The arm (BN3000 or BR3001) is connected to the SOP278 under the door frame or ceiling.
- » It can be ordered to match the same finish of the door closer

Model	Finish
SOP278	BL - BR - NE - OR - PL



Link arm door closers

CT3000

CT3000 closers offer the most refined size and speed adjustment capability, an outstanding power adjustment scope and impressive hydraulic control for heavy doors up to 160 kg. These and other characteristics make it be the professional's choice for any heavy duty door subjected to high traffic volumes, wind draughts or even abuse.

» EN1154 certified: EN1154:1996+A1:2002

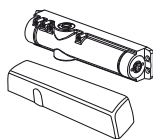
CT300036 with BN3000 / BN3057: 4 8 2/6 1 1 4

CT300036 with GD3000/GD300F: 4 8 1/4 1 1 4

- » Continuously adjustable size from EN2 to EN6. The lowest power capable of closing the door is always achieved with exquisite refinement.
- » CT300036 combined with GD3000 or GD300F guide rails is size adjustable from EN1 to EN4.
- » Backcheck valve to protect the door against violent openings.
- » CT300036 includes Delayed Action valve, which allows to choose how long the door will remain open before starting the closing cycle.
- » BR3001: Adjustable hold open arm, for any door open position up to 150° and Hold Open engage/disengage lever.
- » Internal Safety Valves protect the closer mechanism and door environment from rough or abusive use thanks to, their pressure relief action.
- » Outstanding thermal behaviour: -2 sec. / +1 sec. closing time variation from 20°C to -15°C and from 20°C to +50°C. Working temperature: -35°C to 50°C
- » Reversible, non handed.
- » Finishes: White (BL), Bronze (BR), Black (NE), Gold (OR), Silver (PL), Satin Stainless steel (IM) and Polished brass (LP).

Closer body and arm:

- CT300036: Size adjustable 2 to 6
- CT300036: Size adjustable 2 to 6 plus delayed action.
- Packing: 1/6 unidades.

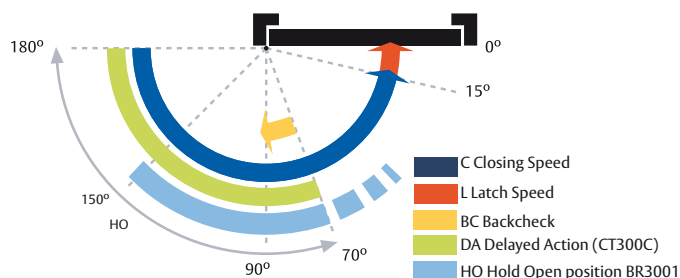
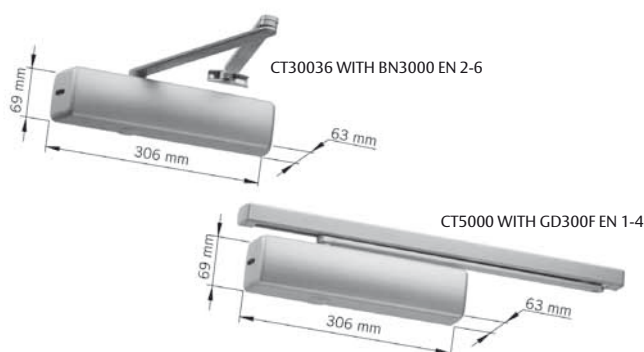


CT300036 - CT300036				
Size	B.C (Back check)	D.A (Delayed action)	Model	Finish
2 - 6	Yes	-	CT300036	BL - BR - NE - OR - PL - IM
2 - 6	Yes	Yes	CT300036	BL - BR - NE - OR - PL - IM

Size (EN 1154)	Door width cm	Door weight Kg
2	85	40
3	95	60
4	110	80
5	125	100
6	140	120
7	160	160

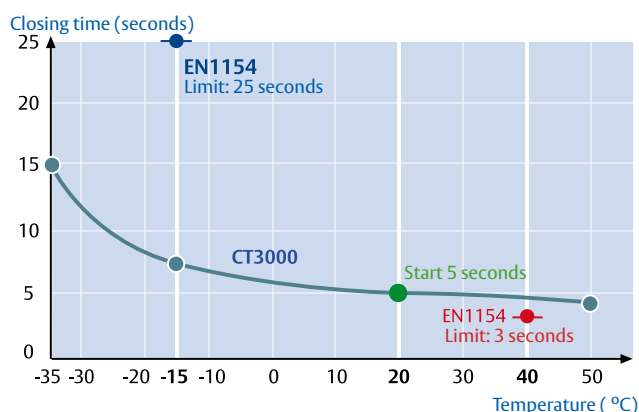


EN 1154 CERTIFIED
Fire door



CT3000: Stable under any circumstance

Closing time versus temperature



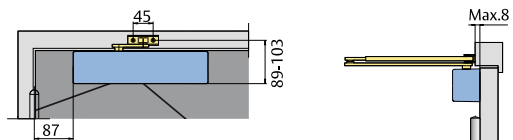
Link arm door closers

CT3000 with standard arm

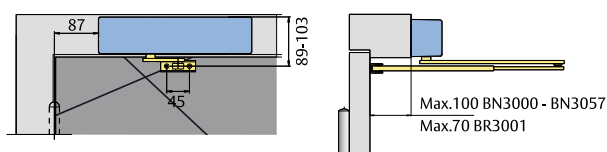
EN 1154 CERTIFIED
Fire door



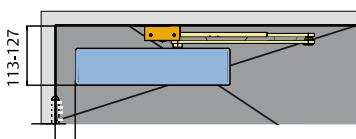
Standard mounting: - pull side



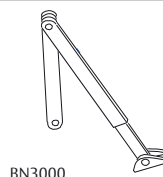
Transom mounting: push side



Paralell arm mounting at the PUSH side with SOP3000



BN3000 Standard arm	
Model	Finish
BN3000	BL - BR - NE - OR - PL
BN3057	IM



BN3000

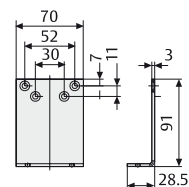
BR3001 hold open arm	
Model	Finish
BR3001	BL - BR - NE - OR - PL



BR3001

Paralell arm bracket	
Model	Finish
SOP3000	BL - BR - NE - OR - PL

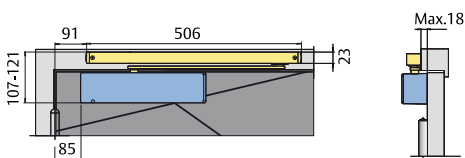
Parallel arm mounting bracket. For CT300036 and CT3000C36, using arms BN3000 or BR3001. Size 1-6. Max. door opening: 180°. All hydraulic controls remain operative



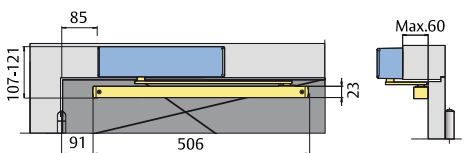
SOP3000

CT3000 with guide rail

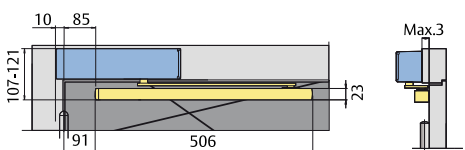
Standard mounting: pull side



Transom mounting: push side



Transom mounting: pull side



GD3000 Guide rail	
Model	Finish
GD3000	BL - BR - NE - OR - PL



GD3000 Guide rail	
Model	Finish
GD300F	BL - BR - NE - OR - PL - IM



Accessories for guide rails	
Model	Description
MR3000	Hold open module (Max. 150°)
MT3000	Opening limit module

Hold open device for GD3000/ GD300F guide rails. Max. Hold Open position: 150°. Includes Hold Open force adjustment.

Opening limit device for GD3000/ GD300F guide rails. Max. door stop position: 120°.



Link arm door closers

CT300057

The powerful closer for big doors, keeping the continuously adjustable size capability for a smooth door opening.

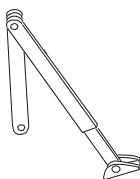
» Certified with UNE-EN1154: 1996 + A1:2002

4 8 5/7 1 1 4

- » Adjustable size EN5-EN7.
- » Valve adjustable closing speed.
- » Valve adjustable latching speed.
- » Valve adjustable backcheck.
- » Double internal safety valves
- » Extendable spindle height 14 mm.
- » Same body size and external design as CT300036.
- » To be use with BN3057 only.

CT300057				
Size	B.C. (Backcheck)	D.A. (Delayed Action)	Model	Finish
5 - 7	Yes	-	CT300057	BL - BR - NE - OR - PL - IM

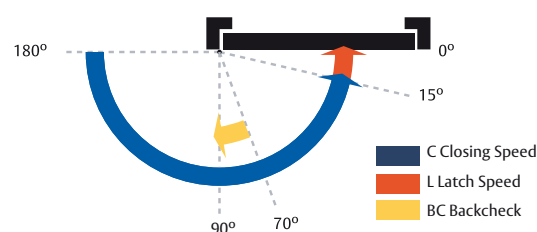
BN3057 Standard arm	
Model	Finish
BN3057	BL - BR - NE - OR - PL - IM



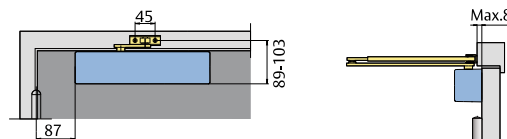
Size (EN 1154)	Door width cm	Weigth door Kg
5	125	100
6	140	120
7	160	160



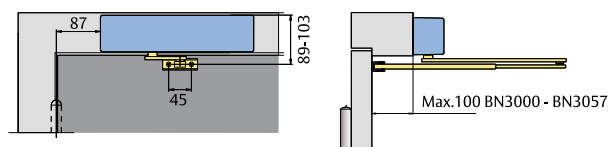
CT3000 with BN3057



Standard mounting: PULL side



Standard mounting: PUSH side



Extendable spindle height 14 mm.

L

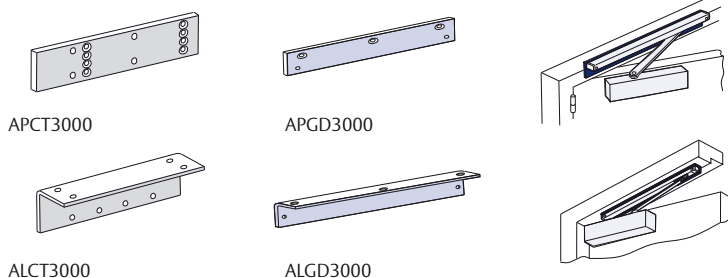
Link arm door closers

CT3000

Installation accessories

Installation accessories		
Model	Finish	Description
APCT3000	BL - BR - NE - OR - PL - IM	Flat plate for all CT3000 bodies
ALCT3000	BL - BR - NE - OR - PL	"L" shape plate for all CT3000 bodies
APGD3000	BL - BR - NE - OR - PL	Flat plate for GD3000 and GD300F
ALGD3000	BL - BR - NE - OR - PL	"L" shape plate for GD3000 and GD300F

Spare covers		
Model	Finish	Description
CARCT3000	BL - BR - NE - OR - PL - IM	Spare cover for all CT3000 bodies



CT3000 Stainless Steel finish

The IM finish for CT300036, CT300057, BN3057 and GD300F has been performed by manufacturing all visible parts in solid satin stainless steel, AISI-304 grade, except the extendable height spindle. This includes the closer cover, the fixing screws for closers-arms-guide rail, the arm parts, the guide rail cover and even the threaded part for arm to guide rail connection.

CT300036EP

The EP finish has been conceived for outdoors installation. It extends the equipment life and aesthetics thanks to the protective multi-layer coatings that have been applied on all exposed parts before giving them the final silver-grey colour. Moreover, the extendable height spindle has been zinc plated. The result is a salt-spray test endurance of more than 400 hours. (The grade 4 is the maximum corrosion resistance level in EN1670, which is equivalent to 240 hours)

The EP finish can be ordered for CT300036 or CT300057 closers and for B3057 arm. The flat mounting plate APCT3000 has been also included for the EP range as it is very useful for outdoor installation with narrow frames.

Model	Colour
CT300036EP	Silver
CT300057EP	Silver
BN3057EP	Silver
APCT3000EP	Silver

Link arm door closers

CT3000LE free swing function

Fire safety and maximum accessibility are finally binded together with CT3000LE

The CT3000LE is a must have in elderly residences, kindergartens and many health care environments.

» Certified with EN1154: 1996 + A1:2002

With BN3000 and BLE3000: 4 8 3/6 1 1 3

With GD300F and GLE300F: 4 8 3/4 1 1 3

» Certified with EN1155: 1997 + A1:2002

With BN3000 and BLE3000: 3 8 3/6 1 1 3

With GD300F and GLE300F: 3 8 3/4 1 1 3

- » The CT3000LE is equipped with an electro-hydraulic valve capable of blocking the internal fluid circuit. This can be used for free-swing function or for hold open function by choosing the appropriate arms or guide rails.
- » Adjustable size EN3-EN6 with link arms BN3000 or BLE3000
- » Adjustable size EN3-4 with guide rails GD300F or GLE300F
- » Independent valve adjustment for closing and latching speeds.
- » Steel cover included with painted finish.
- » Zinc plated steel mounting plate included.
- » Extendable height spindle (14 mm.)
- » Double internal safety valves with pressure relief action.
- » Power supply: 24 VDC; 90 mA; polarity free connection.

Free-Swing function

When combined with link type arm BLE3000 or sliding guide rail GLE3000, the CT3000LE provides free-swing function:

The spring is loaded in the first opening only.

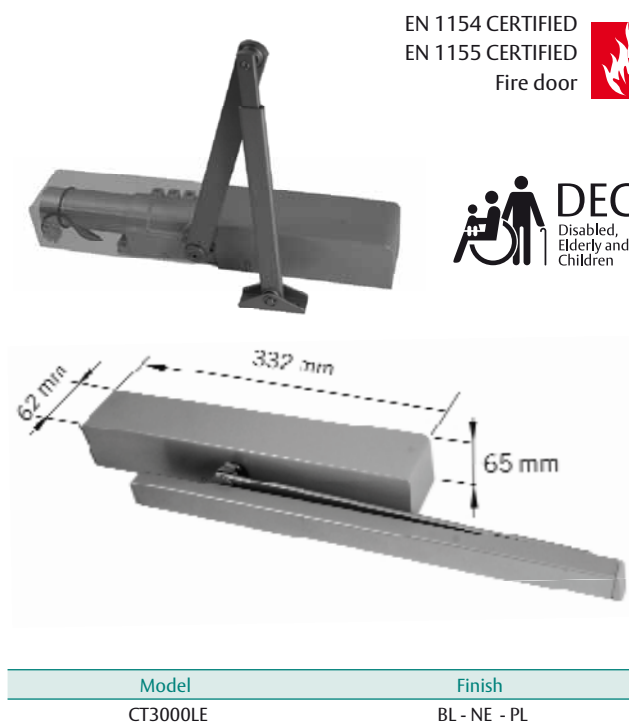
Then the door will swing freely, with no action from the door closer. Moving the door will require no effort at all.

If the power supply is cut (for example, by the fire alarm) the CT3000LE "awakens" and will close the door wherever it is.

It will work as a normal CT3000 door closer while the power is off.

BLE3000 Free swing function	
Model	Finish
BLE3000	BL - NE - PL

GLE300F Free swing function	
Model	Finish
GLE300F	BL - NE - PL



Model	Finish
CT3000LE	BL - NE - PL

Hold Open function

When combined with standard arm BN3000 or standard guide rail GD300F, the CT3000LE provides Hold Open function:

The door can be opened at any position (Min 70°) and it will stay open.

If the door open position needs to be expanded, the door can be just pushed further, up to 160°

If the power supply is cut (for example, by the fire alarm) the CT3000LE "awakens" and will close the door wherever it is.

It will work as a normal CT3000 door closer while the power is off.

BN3000 Standard arm	
Model	Finish
BN3000	BL - NE - PL

GD300F Guide rail	
Model	Finish
GD300F	BL - NE - PL

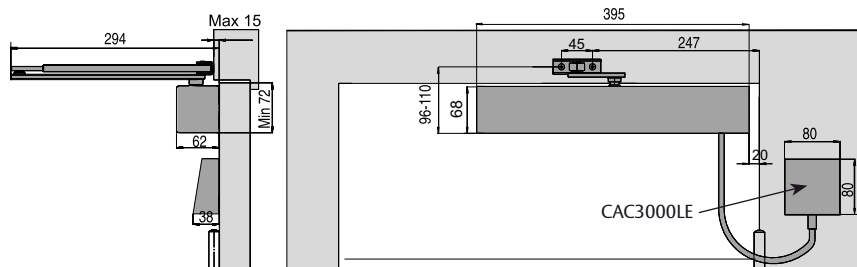
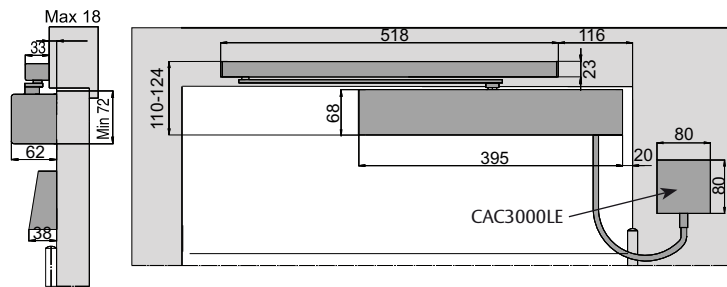
CAC3000LE electric connection box	
Model	Finish
CAC3000LE	BL

Electric connections box, recommended when the CT3000LE is mounted on the door leaf

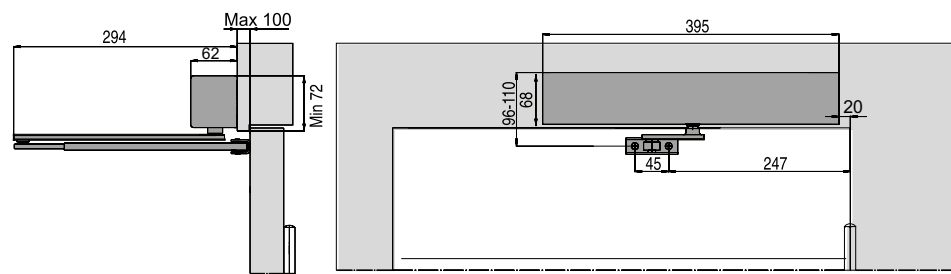
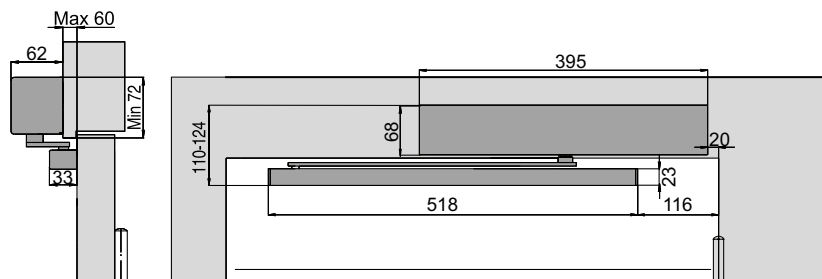


Link arm door closers

PULL side mountings



PUSH side mountings



Sliding guide rail closers

CT2000D

Slim design guide rail closer for Standard and Fire Doors.

EN 1154 CERTIFIED
Fire door



» EN 1154:1996 + A1:2002 certified:

Pull side mounting:

4 8 3 1 1 3

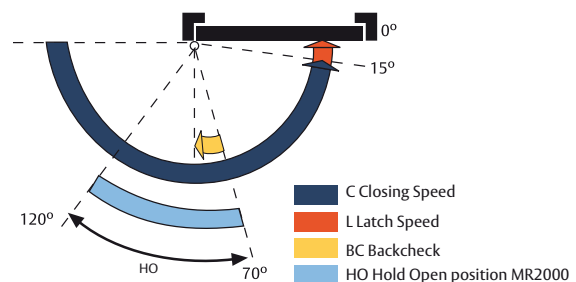
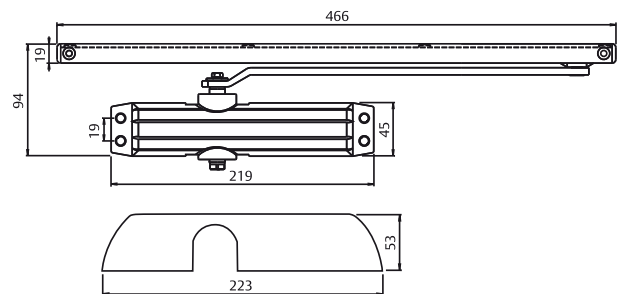
Push side mounting:

3 8 3 1 1 3

- » Two closing sizes in a single model: Size 2 and 3, just changing closer body position.
- » Two separate valves for closing and latching speed adjustment.
- » Backcheck valve for customized door protection that prevents door bumping.
- » Distance between fixing holes is 19 mm: CT2000D closers fit any aluminium door.
- » MR2000 Hold open module allows holding door open up to 120°
- » Closer, guide rail and ABS cover supplied in a single pack.
- » Finishes: White (BL), Black (NE), Bronze (BR), Gold (OR), Silver (PL).

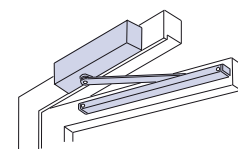
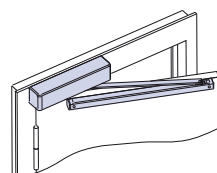
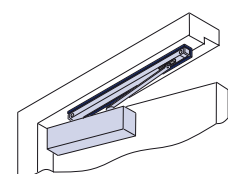
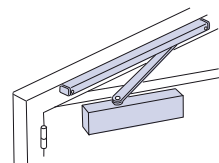
Description	Model	Finish
Closer	CT2000D3	BL - NE - PL
Hold open set	MR200 (not valid for FD)	-

Size (EN 1154)	Door width cm	Door weight Kg	Adjustment
2	85	40	VC -GF - FA
3	95	60	VC -GF - FA



Pull side

Push side



Sliding guide rail closers

CT2200

Slim design guide rail closer for Standard and Fire Doors of medium and high pedestrian traffic.

EN 1154 CERTIFIED
Fire door



» EN 1154:1996 + A1:2002 certified:

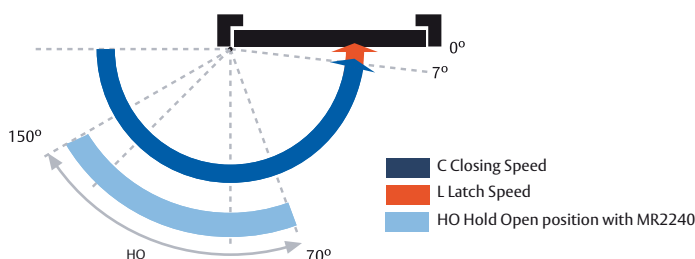
Mounting at pull side:

4 8 3 1 1 4

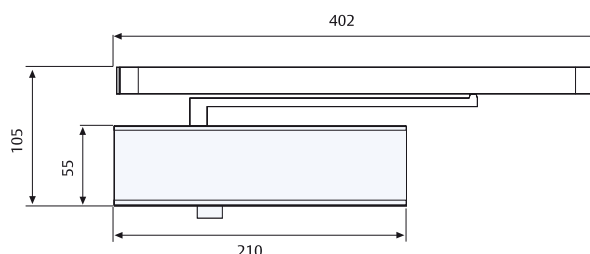
Mounting at push side:

3 8 3 1 1 4

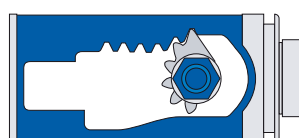
- » Progressive rack and pinion mechanism for high efficiency and easy opening.
- » Two closing sizes in a single model: Size EN 2 and EN 3, just changing the closer body position.
- » Two separate valves for closing and latching speed adjustment.
- » Guide rail GD2200 is ordered separately.
- » MR2240 Hold open module allows holding door open up to 120°.
- » Finishes: White (BL), Black (NE), Silver (PL), Stainless steel (IM).



CT2200 with CARCT2200IM and GD2200IM



Model	Size (EN 1154)	Door width cm	Door weight Kg	Adjustment
CT2200	2	85	40	VC -GF
	3	95	60	VC -GF



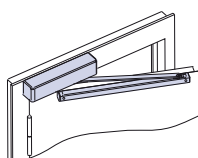
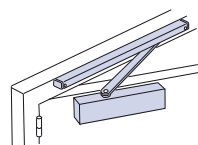
The specific rack and pinion design, with variable gearing radius achieves an outstanding Torque output.

Model	Size	Finish
CT220023	2 - 3	BL - NE - PL
CARCT2200	Stainless steel cover	IM

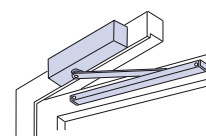
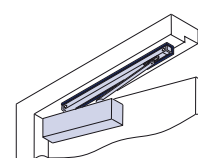
Guide rail	
Model	Finish
GD2200	BL - NE - PL - IM

Accessories	
Reference	Description
MR2240 (not valid for FD)	Hold open set (max. 120°)
MT2240	Door opening stop (max. 120°)

Pull side



Push side



MR2240



MT2240

Sliding guide rail closers

CT4500

The architectural grade closer offering superior performance and aesthetics with sliding guide rail.

- » Size is continuously adjustable EN1-EN4
- » The symmetric CAM MOTION mechanism provides universal versatility, allowing all mounting possibilities with a single model.
- » Designed to work with GD300F (or GD3000) guide rails for superior aesthetics.
- » Independent valve adjustment for closing and latching speeds.
- » Extendable height spindle (14 mm.)
- » Internal safety valve with pressure relief action.
- » Optional flat mounting plate which is concealed after completing installation: APCT4500HZ
- » Compatible for use with the GD15EM, GD25SC and GD25EM guide rail system for the widest solutions range in single or double Fire Door equipment. (Pages 23-25)

PULL side

4 8 1/4 1 1 3

PUSH side:

3 8 1/4 1 1 3

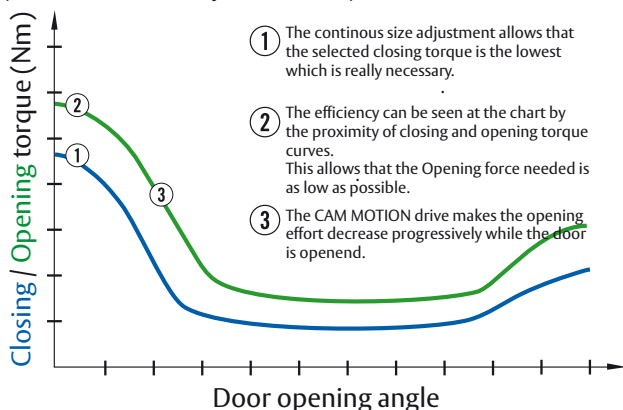
The CAM MOTION drive:

CT4500 works with the exclusive symmetric CAM MOTION drive that the brilliant CT5000 has made famous.

By achieving the highest efficiency and torque output characteristics, the CT4500 makes the door opening feel smooth as silk while assuring a reliable door closing under all circumstances.

Approved for use in DEC environment like Elderly homes, health care facilities and kindergartens.

(DEC= Disabled, Elderly and Children)



Size (EN 1154)	Door width cm	Door weight Kg
1	75	20
2	85	40
3	95	60
4	110	80

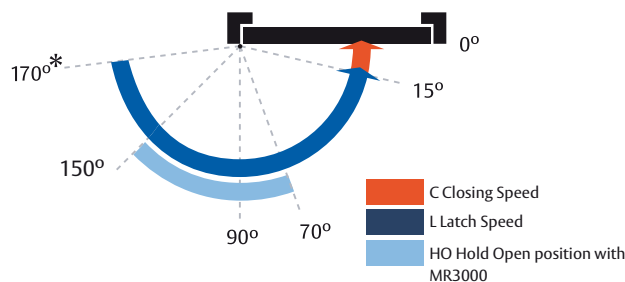
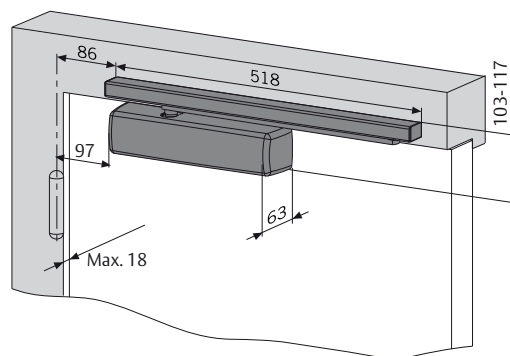
Mecanismos		
Model	Size	Finish
CT450014	1 - 4	BL - BR - NE - OR - PL - IM
CARCT4500	Carcasa repuesto	BL - BR - NE - OR - PL - IM



EN 1154 CERTIFIED
Fire door



CT4500 con GD300F



*When mounted at the PUSH side.

Accessories for GD3000-GD300F

MR3000: Hold Open device fully adjustable for door position (Max. 130°) and door holding strength.



MT3000: Door opening damper (Max. 130°) It does not replace a door stop.



GD3000 Guide rails	
Model	Finish
GD3000	BL - BR - NE - OR - PL

GD3000 Guide rails	
Model	Finish
GD300F	BL - BR - NE - OR - PL - IM



Accesorios para guías	
Model	Description
MR3000	Hold open set (Max. 150°)
MT3000	Opening damper

Sliding guide rail closers

CT5000

The full featured architectural grade closer that has revolutionized the concept of door closing.

- » Size is continuously adjustable EN1-EN6. The widest size scope achievement ever with a sliding guide closer.
- » The symmetric CAM MOTION mechanism provides universal versatility, allowing all mounting possibilities with a single model.
- » Designed to work with GD300F (or GD3000) guide rails for superior aesthetics.
- » Independent valve adjustment for closing and latching speeds.
- » Independent valve adjustment for Backcheck that provides door protection.
- » Delayed Action function for easier door access available by ordering the CT500C26 model.

The delayed action adjustment valve allows an easy setting of the delay time before normal closing. (After the door has been opened beyond 70° aprox.)

- » Extendable height spindle (14 mm.)
- » Internal safety valve with pressure relief action.
- » Optional flat mounting plate APCT3000 can be ordered for easier mounting on narrow spaces.
- » Optional L-type mounting plate ALCT3000 can be ordered for easier mounting under deep frames or ceilings.
- » The CT5000 is not only a closer but the Motion driver for the GD15EM, GD25SC and GD25EM guide rail system for the widest solutions range in single or double Fire Door equipment. (Pages 23-25)

PULL side

4 8 1/6 1 1 3

PUSH side:

3 8 1/6 1 1 3

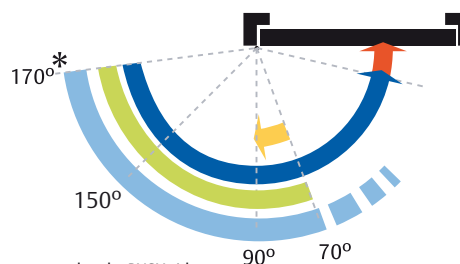
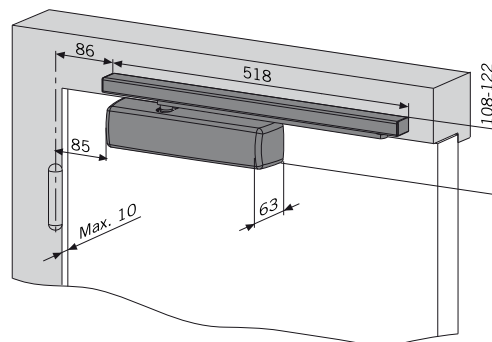
Size (EN 1154)	Door width cm	Door weight Kg
1	75	20
2	85	40
3	95	60
4	110	80
5	125	100
6	140	120

Door closers		
Model	Size	Finish
CT500026	2 - 6	BL - BR - NE - OR - PL - IM
CT500C26	2 - 6	BL - BR - NE - OR - PL - IM
CARCT3000	Spare cover	BL - BR - NE - OR - PL - IM

EN 1154 CERTIFIED
Fire door



CT5000 with GD300F



* When mounted at the PUSH side

- L Latch Speed
- C Closing speed
- BC Backcheck
- HO Hold Open position with MR3000
- Delayed guide action (CT5006)

GD3000 Guide rails	
Model	Finish
GD3000	BL - BR - NE - OR - PL

GD3000 rails	
Model	Finish
GD300F	BL - BR - NE - OR - PL - IM



Accessories for the guide rails	
Model	Description
MR3000	Hold open set (Max. 150°)
MT3000	Opening damper

Sliding guide rail closers

CT5000

The CAM MOTION drive:

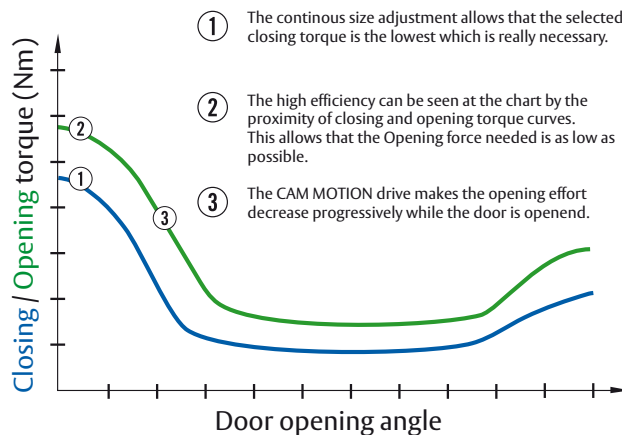
- » The symmetric CAM motion drive is based in three cornerstones:
- » The Cam to Piston direct contact by rolling motion
- » The exquisitely engineered Cam contour
- » The outstanding quality of materials and manufacture of all components.
- » The result is that the CT5000 achieves the highest efficiency and torque output characteristics.
- » Any door will be lighter to open than ever before, while assuring a reliable door closing under all circumstances.
- » Approved for use in DEC environment like Elderly homes, health care institutes and kindergartens.
(DEC= Disabled, Elderly and Children)

Accessories for GD3000-GD300F

MR3000: Hold Open device fully adjustable for door position (Max. 130°) and door holding strength.



MT3000: Door opening damper (Max. 130°) It does not replace a door stop.



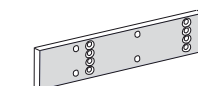
Installation accessories

Installation accessories		
Model	Finish	Description
APCT3000	BL - BR - NE - OR - PL - IM	Flat plate for all CT5000 bodies
ALCT3000	BL - BR - NE - OR - PL	"L" shape plate for all CT5000 bodies
APGD3000	BL - BR - NE - OR - PL	Flat plate for GD3000 - GD300F
ALGD3000	BL - BR - NE - OR - PL	"L" shape plate for GD3000 - GD300F

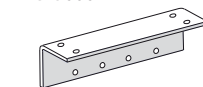
Spare covers		
Model	Finish	Description
CARCT3000	BL - BR - NE - OR - PL - IM	Spare cover for all CT5000 bodies

CT5000 Stainless Steel finish

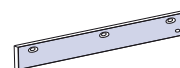
The IM finish for CT500026, CT500C26 and GD300F has been performed by manufacturing all visible parts in solid satin stainless steel, AISI-304 grade, except the extendable height spindle. This includes the closer cover, the fixing screws for closers-arms-guide rail, the arm parts, the guide rail cover and even the threaded part for arm to guide rail connection.



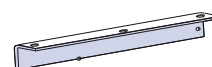
APCT3000



ALCT3000



APGD3000

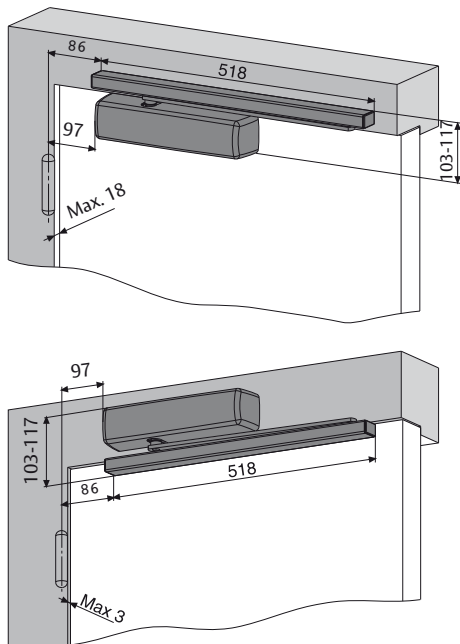


ALGD3000

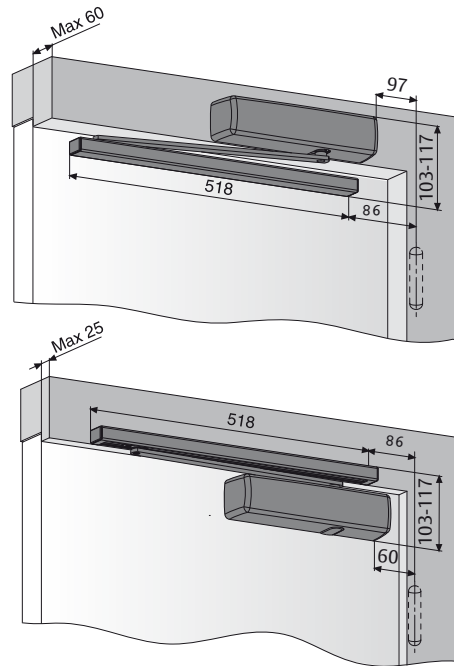
Sliding guide rail closers

CT4500 universal mountings

Pull side

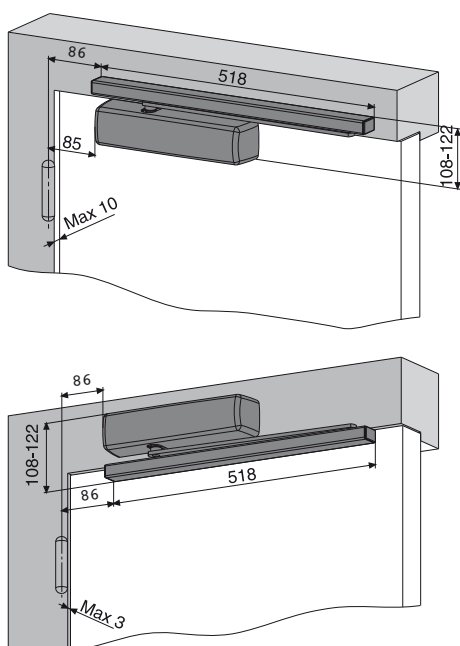


Push side

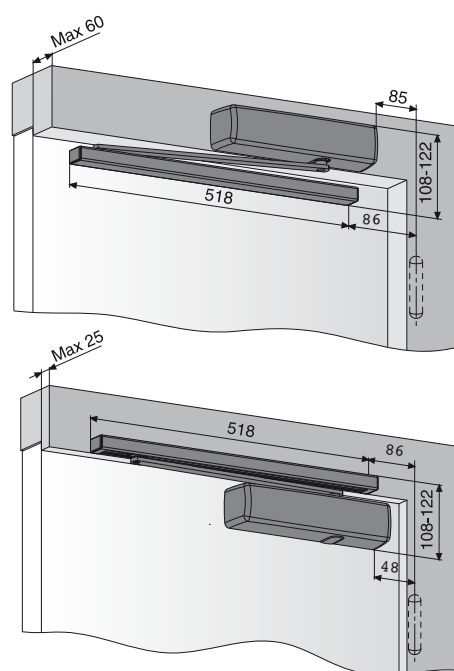


CT5000 universal mountings

Pull side



Push side



Sliding guide rail closers

CT5700

Slide track closer for large doors.

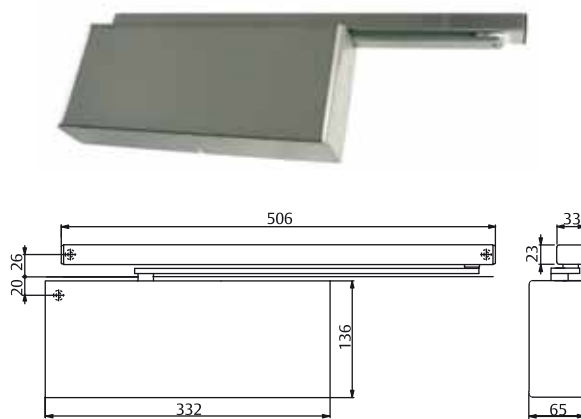
Certification: UNE-EN 1154:1996 + A1: 2003

EN 1154 CERTIFIED
Fire door



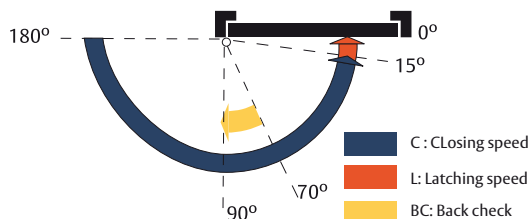
Classification: 4 8 5/7 1 1 4

- » Continuous size adjustment from 5 to 7.
- » Double mechanism acting over one spindle. Able to control the motion of doors weighing up to 400 kg.
- » Including pre-installation over steel mounting plate and custom stainless steel cover.
- » Two separate valves for closing and latching speeds.
- » To be installed with the GD300F slide track, which is ordered separately.
- » Fully reversible.
- » Finishes: BL, BR, NE, OR, PL, IM.

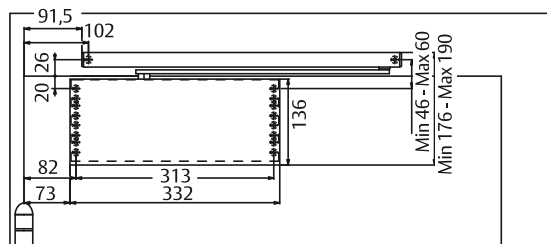


CT5700				
Size	B.C (Back check)	D.A (Delayed action)	Model	Finish
5 - 7	Yes	-	CT570057	BL - BR - NE - OR - PL - IM

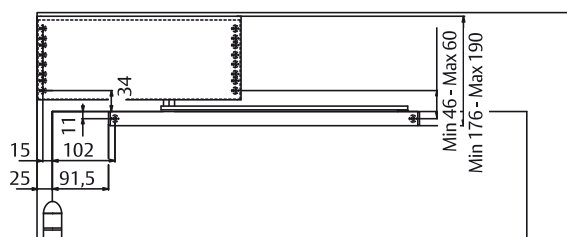
Guide rails	
Model	Finish
GD300F	BL - BR - NE - OR - PL - IM



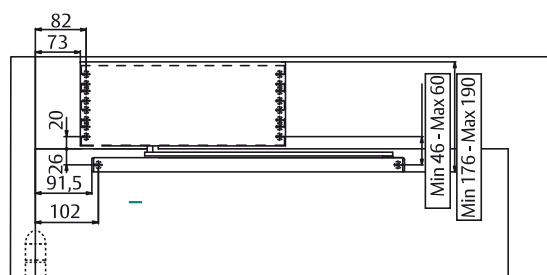
Size (EN 1154)	Door width cm	Door weight Kg	Adjustment
5	125	Maximun 400	VC - GF - FA
6	140	Maximun 400	VC - GF - FA
7	160	Maximun 400	VC - GF - FA



Standard mounting: Pull side



Transom mounting: Push side



Transom mounting: Push side

Sliding guide rails for CT5000 - CT4500

GD15EM

EN 1154 CERTIFIED
Fire door



Sliding guide rail for CT5000 and CT4500 with integrated Electro Mechanical door hold open.

Hold open function can be connected to the fire alarm so that the door will immediately close in case of fire.

» Classification with EN1155:1997 + A1:2002

3 8 3/6 1 1 3

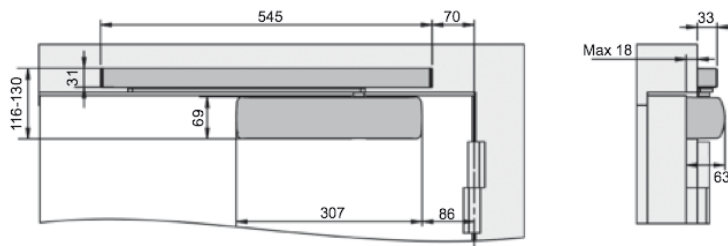
- » Adjustable Hold Open position 70°-130°
- » Adjustable Hold open strenght by potentiometer.
- » Power supply 24VDC, 60 mA. Quick and easy connection, polarity free.
- » Fully reversible for PULL and PUSH side mounting.



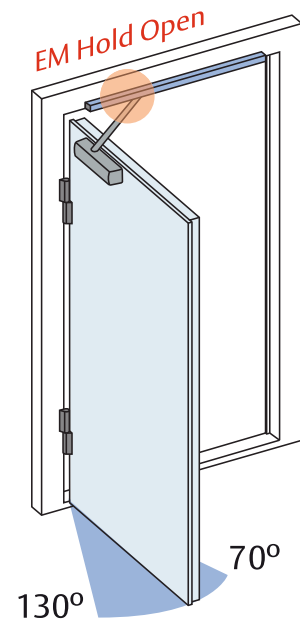
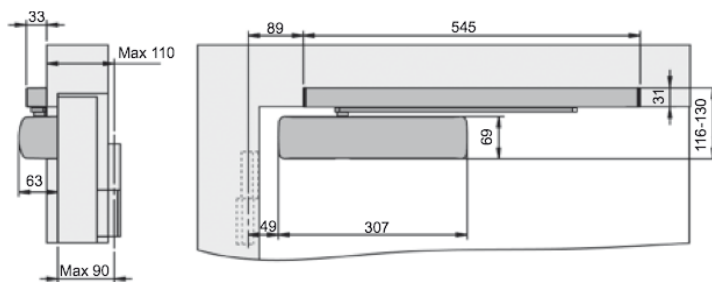
GD15EM with CT5000

GD15EM	
GD15EM	BL - BR - NE - OR - PL
GD15EM IM	Satin stainless steel

Pull side



Push side



Sliding guide rails for CT5000 - CT4500

GD25SC

EN 1158 CERTIFIED
Fire door



The architectural choice for safe double doors with slim desing and superior performance and durability.

- » Sliding guide rail set for CT5000 and CT4500 with integrated » Closing Sequence selection for double doors.
- » The first door to close will be the Pasive, as the Active door will be prevented from closing by the selection mechanism until the Pasive leaf is fully closed.

Classification with EN1158:1997 + A1:2002

3 8 3/6 1 1 3

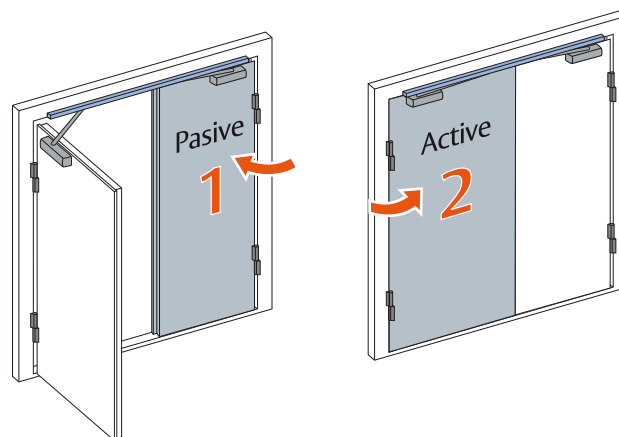
- » Maximum door opening: Pull side
 - 150° at the Active side
 - 170° at the Inactive side
- » Fully reversible for right or left handed doors and PULL or PUSH side monting.
- » The accessory ACB25 must be used for mounting at the PUSH side. (Page 25)
- » For double doors from 1250 to 2800 mm. at the PULL side
- » For double doors from 1400 to 2800 mm. at the PUSH side.

GD25SC	
Model	Finish
GD25SC	BL - BR - NE - OR - PL - IM

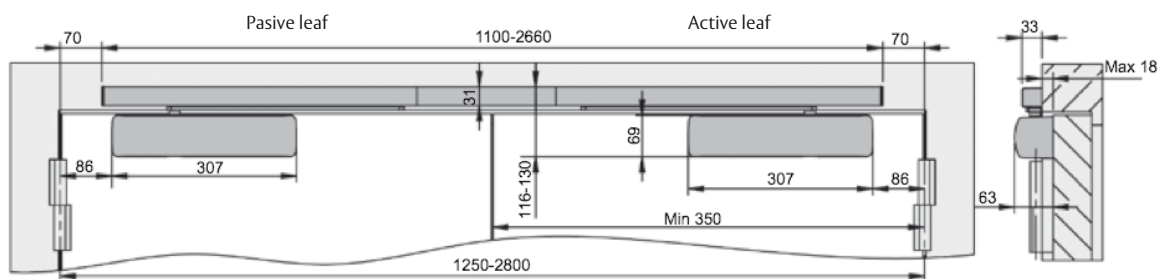
ACB25	
Model	Finish
ACB25	BL - BR - NE - OR - PL - IM



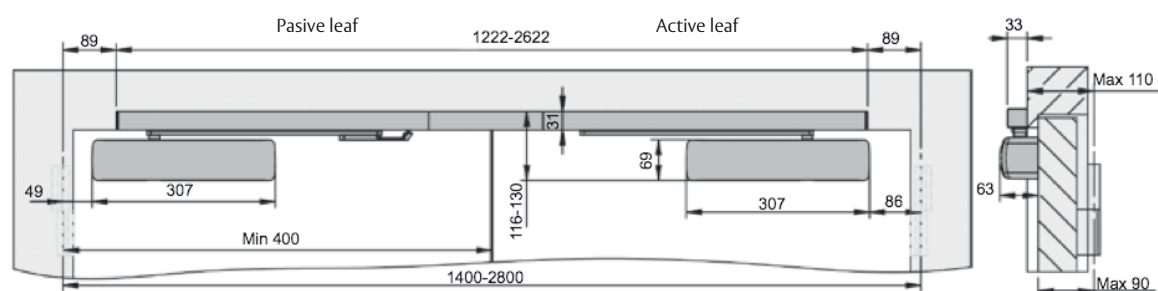
GD25SC with CT5000



Pull side mounting



Push side mounting with ACB25



Sliding guide rails for CT5000 - CT4500

GD25EM1

EN 1155 CERTIFIED
EN 1158 CERTIFIED
Fire door



The architectural choice for safe double doors with slim desing and superior performance and durability.

- » Sliding guide rail set for CT5000 and CT4500 with integrated Closing Sequence selection and Electro-Mechanical door Hold Open for double doors.
- » The first door to close will be the Pasive, as the Active door will be prevented from closing by the selection mechanism until the Pasive leaf is fully closed.

- » Classification with EN1158:1997 + A1:2002

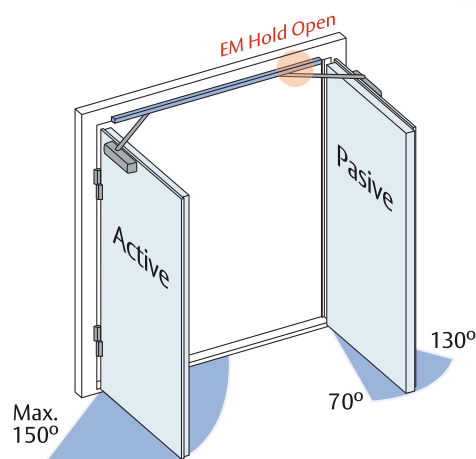
3 8 3/6 1 1 3

- » Classification with EN1155:1997 + A1:2002

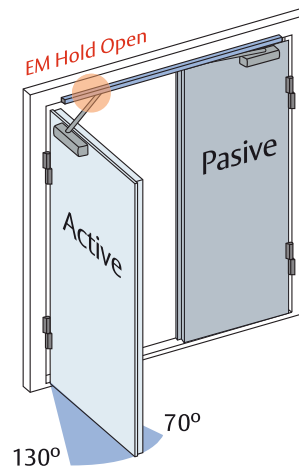
3 8 3/6 1 1 3

- » One EM hold open set is pre-assembled in the Pasive side guide rail which allows keeping both doors open at the same time.
- » If keeping open the Active door only is preferred then the EM Hold Open set can be easily changed to the Active side guide rail.
- » Adjustable Hold Open position 70°-130°
- » Adjustable Hold open strenght by potentiometer.
- » Integrated Safety switch that avoids door or product damage if the Active door is forced to close manually.
- » Any manual closing attempt on the Active leaf is detected and the Hold Open device is released immediately, thus assuring a correct and safe closing of both doors.
- » Power supply 24VDC, 60 mA. Quick and easy connection, polarity free.
- » Fully reversible for right or left handed doors and PULL or PUSH side monting.
- » The accessory ACB25 must be used for mounting at the PUSH side. (Page 25)
- » For double doors from 1250 to 2800 mm. at the PULL side.
- » For double doors from 1400 to 2800 mm. at the PUSH side.

GD25EM1	
Model	Finish
GD25EM1	BL - BR - NE - OR - PL - IM

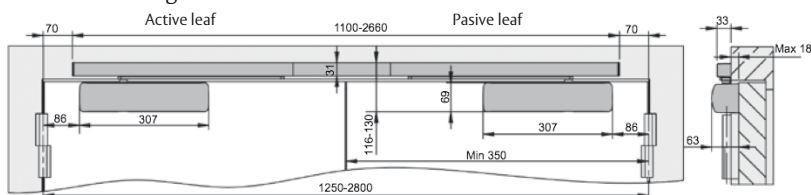


Factory setting with EM Hold Open at the Pasive door

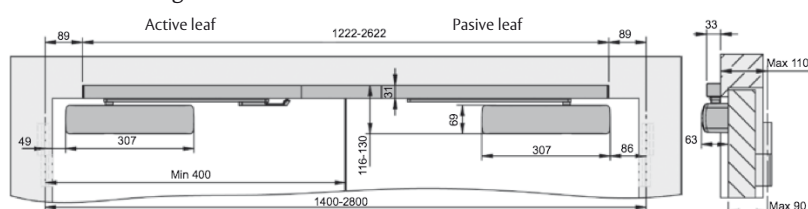


Changing the EM Hold Open to the Active side

Pull side mounting



Push side mounting with ACB25



Sliding guide rails for CT5000 - CT4500

GD25EM2

EN 1155 CERTIFIED
EN 1158 CERTIFIED
Fire door



The architectural choice for safe double doors with slim desing and superior performance and durability.

- » Sliding guide rail set for CT5000 and CT4500 with integrated Closing Sequence selection and Electro-Mechanical door Hold Open for double doors.
- » The first door to close will be the Pasive, as the Active door will be prevented from closing by the selection mechanism until the Pasive leaf is fully closed.

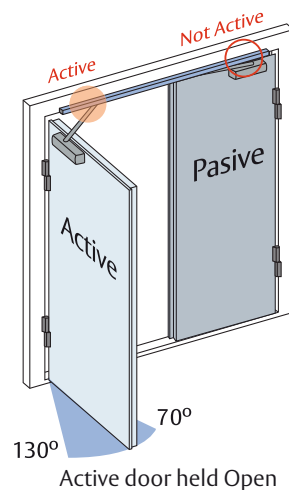
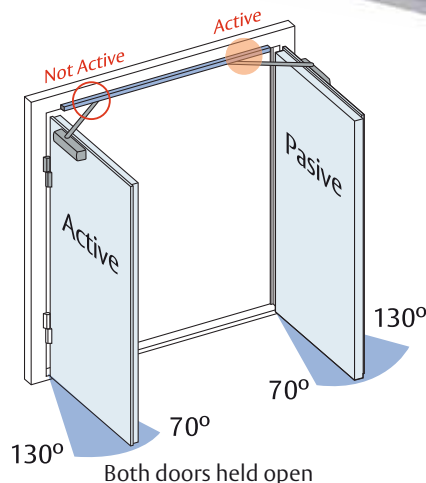
Classification with EN1158:1997 + A1:2002

3	8	3/6	1	1	3
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Classification with EN1155:1997 + A1:2002

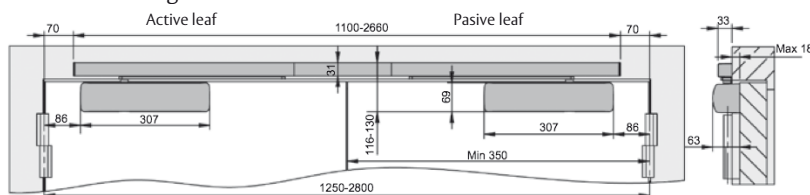
3	8	3/6	1	1	3
---	---	-----	---	---	---

- » Two EM hold open sets are pre-assembled in both the Active and Pasive side guide rails.
- » GD25EM2 allows having both doors open or just the Active door open only.
- » Adjustable Hold Open position 70°-130°
- » Adjustable Hold open strenght by potentiometer.
- » Integrated Safety switch that avoids door or product damage if the Active door is forced to close manually.
Any manual closing attempt on the Active leaf is detected and the Hold Open device is released immediately, thus assuring a correct and safe closing of both doors.
- » Power supply 24VDC, 60 mA. Quick and easy connection, polarity free.
- » Fully reversible for right or left handed doors and PULL or PUSH side monting.
- » The accessory ACB25 must be used for mounting at the PUSH side. (Page 25)
- » For double doors from 1250 to 2800 mm. at the PULL side.
- » For double doors from 1400 to 2800 mm. at the PUSH side.

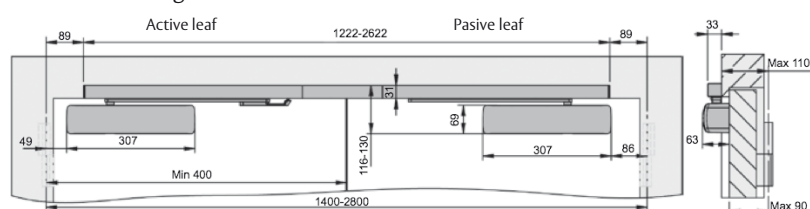


GD25EM2	
Model	Finish
GD25EM2	BL - BR - NE - OR - PL
GD25EM2 IM	Inox mate

Pull side mounting



Push side mounting with ACB25

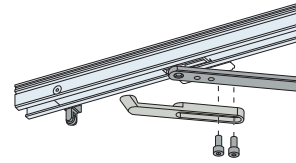


Accessories for GD15- GD25

ACB25

- » The ACB25 is an accessory that must be used for PUSH side mounting with the GD25 SC-EM1-EM2 guide rails for double doors.
- » It is a set with a trigger hook and a roller to be fitted at the guide rail at the pasive door.
- » They can be chosen in any finish to match the guide rails.

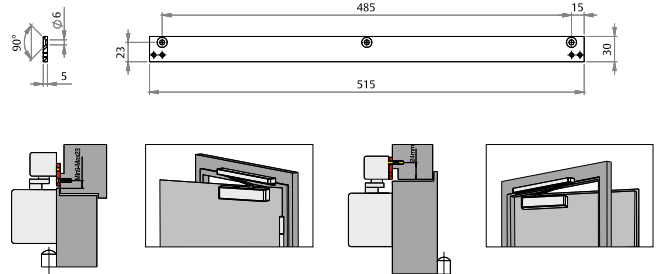
Model	Finish
ACB25	BL - BR - NE - OR - PL - IM



APGD25

- » Flat type mounting plate for the GD15EM and the GD25 SC-EM1-EM2 guide rails.
- » They make installation easier, specially when frames are narrow.
- » They can be chosen in any finish to match the GD25s.

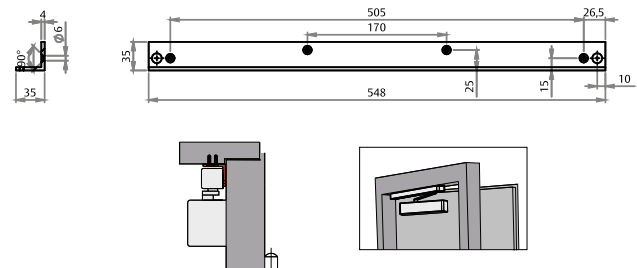
Modelo	Finish
APGD25	BL - BR - NE - OR - PL



ALGD25

- » Angle mounting plate for the GD15EM and the GD25 SC-EM1-EM2 guide rails.
- » Specially suited for installation at the push side, allowing the guide rails to be fitted underneath deep frames or ceilings.
- » They can be chosen in any finish to match the GD25s.

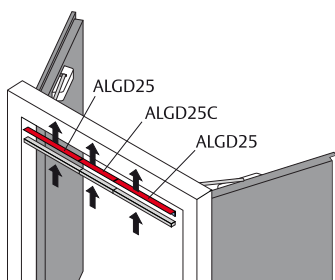
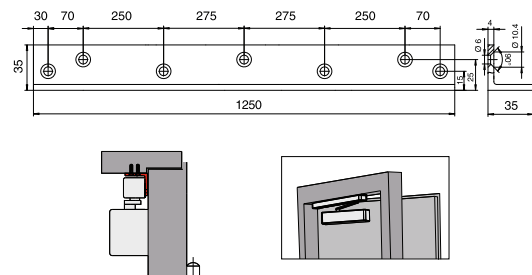
Model	Finish
ALGD25	BL - BR - NE - OR - PL



ALGD25C

- » Angle mounting plate with a plain frontal face, without holes.
- » ALGD25C is cut to the needed length for completing the installations at the PUSH side when ALGD25s have been used for the guide rails.
- » It can be chosen in any finish to match the GD25s.

Model	Finish
ALGD25C	BL - BR - NE - OR - PL



Concealed doorclosers

TEB700

EN 1154 CERTIFIED
Fire door



The basic yet reliable concealed door closer for wooden doors.

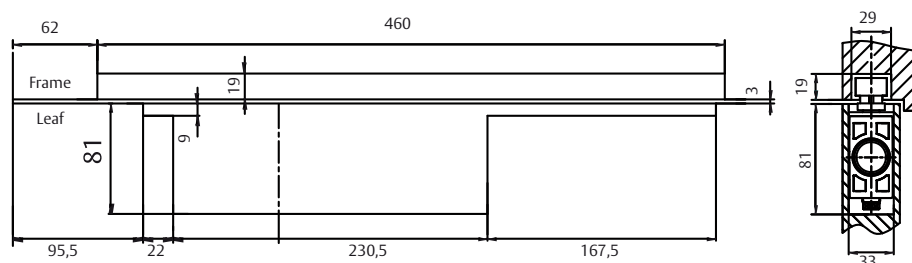
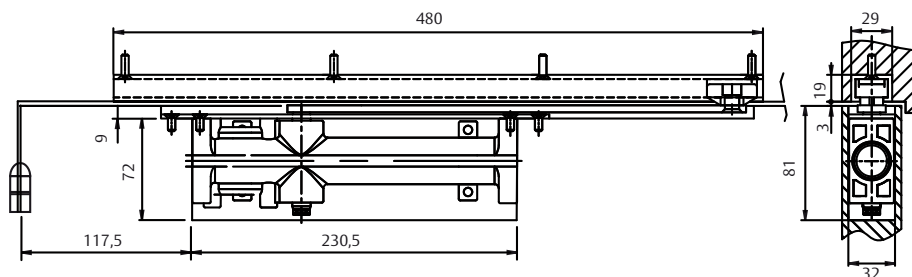
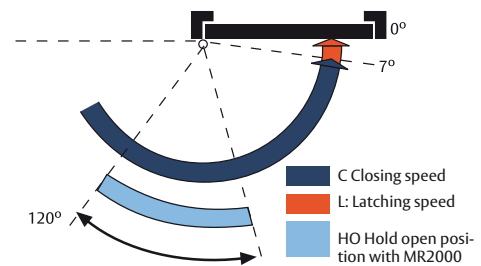
» Clasificación with EN1154:1996 + A1:2002

» Clasificación TEB702: 3 8 2 0 1 4

» Clasificación TEB703: 3 8 3 1 1 4

- » TEB702 model is suitable for door width up to 85 cms. (Not valid for Fire Doors according EN1154)
- » TEB703 model is ideal for door width of 95 cms. and can be used in Fire Doors.
- » Same body dimensions and door machining for both models.
- » Minimum thickness in wooden doors: 40 mm.
- » The closer body and guide rail are supplied together in a single package.
- » Optional Hold Open function can be obtained ordering the MR2000 Hold Open module. (Max. 120°)

Reference	Size	Door width cm	Door weight Kg	Adjustment	Finish
TEB702PL	2	85	40	VC - GF	PL
TEB703PL	3	95	60	VC - GF	PL
MR2000	HD device	-	-	-	-



Concealed doorclosers

TEX14

The architectural grade concealed closer offering superior performance and aesthetics.

» Size is continuously adjustable EN1-EN4

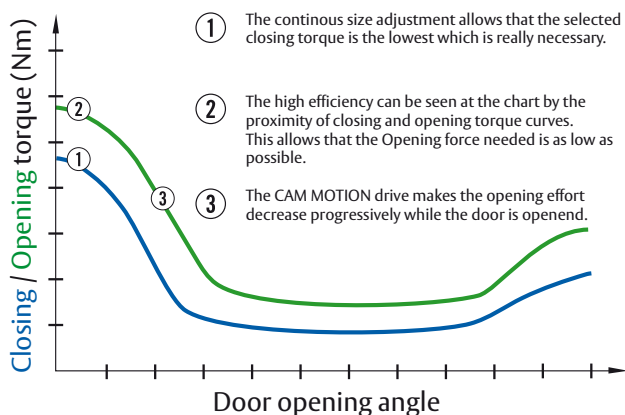
Classification with EN1154: 1996 + A1: 2002

3 8 4/1 1 1 3

- » Suitable for almost any aluminium door thanks to the small cross section: 32 x 42 mm
- » Suitable for any wooden door with thickness from 40 mm.
- » The symmetric CAM MOTION mechanism provides UNIVERSAL versatility, allowing quick and easy mounting in any door.
- » Independent valve adjustment for closing and latching speeds.
- » Internal safety valve with pressure relief action.
- » Compatible for use with the GDXEM, GD2XSC and GD2XEM guide rail system for the widest solutions range in single or double Fire Door equipment. (Pages 30-31)

The CAM MOTION drive:

- » The TEX14 works with the exclusive symmetric CAM MOTION drive that the brilliant CT5000 has made famous.
- » By achieving the highest efficiency and torque output characteristics, the TEX14 makes the door opening feel smooth as silk while assuring a reliable door closing under all circumstances.
- » Approved for use in DEC environment like Elderly homes, health care environments and kindergartens. (DEC= Disabled, Elderly and Children)



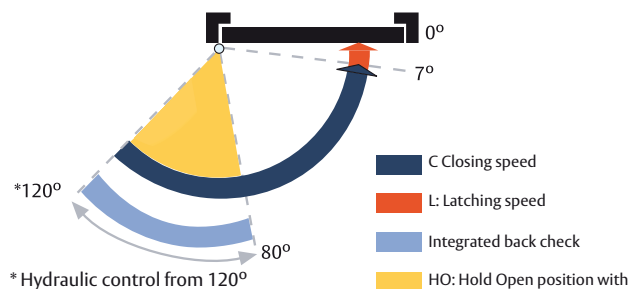
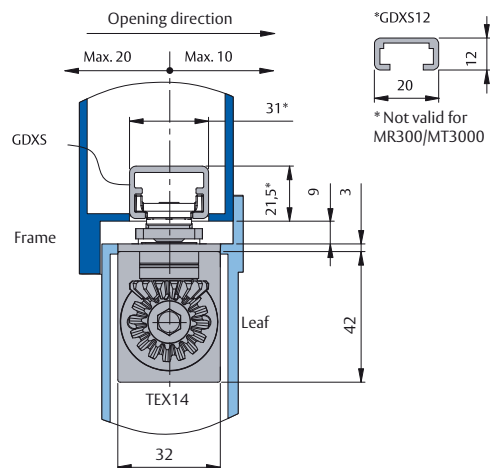
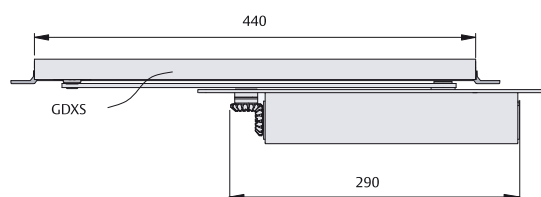
Size (EN 1154)	Door width cm	Door weight Kg	Adjustments
1 - 4	70 - 110	20 - 80	VC - GF

Product code	Description	Finish
TEX14	Concealed doorcloser EN1-4	PL
GDXS	Guide rail 31x21	PL
GDXS12	Guide rail 20x12	PL

Accessories	Description
PLATEX	Mounting KIT for TEX14
MR3000	Hold open device for GDXS
MT3000	Opening damper GDXS

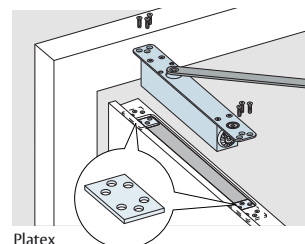


TEX14 with GDXS



PLATEX

Kit of two mounting plates for metal doors. They allow that the closer installation is flush with the door top surface.



MR3000



MT3000

Concealed doorclosers

TEX26

The architectural grade concealed closer offering superior performance and aesthetics.

» Size is continuously adjustable EN1-EN5

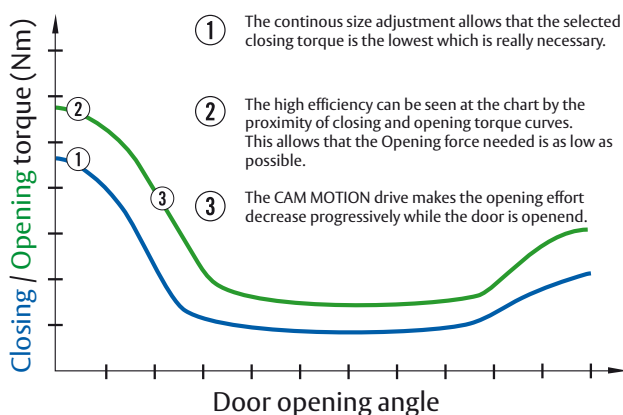
Classification with EN1154: 1996 + A1: 2002

3 8 5/1 1 1 3

- » Suitable for many aluminium door thanks to the cross section of 40 x 51 mm
- » Suitable for any wooden door with thickness from 50 mm.
- » The symmetric CAM MOTION mechanism provides UNIVERSAL versatility, allowing quick and easy mounting in any door.
- » Independent valve adjustment for closing and latching speeds.
- » Integrated Backcheck effect (not adjustable by valve)
- » Internal safety valve with pressure relief action.
- » Compatible for use with the GDXEM, GD2XSC and GD2XEM guide rail system for the widest solutions range in single or double Fire Door equipment. (Pages 30-31)

The CAM MOTION drive:

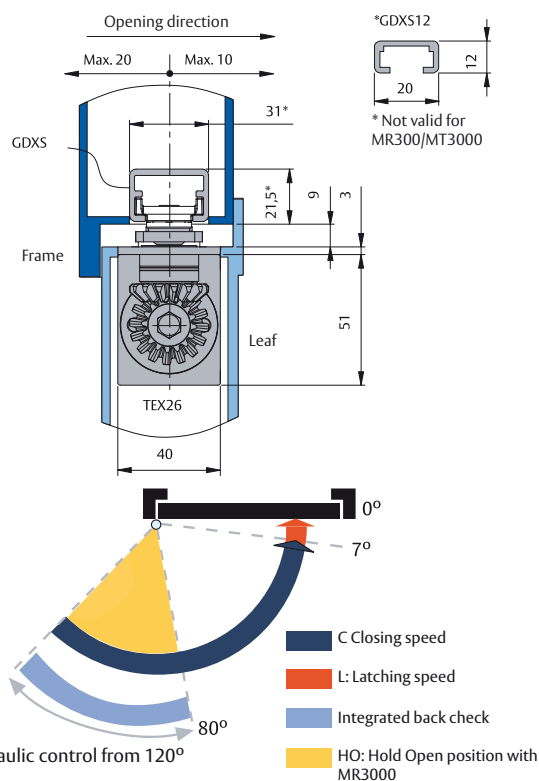
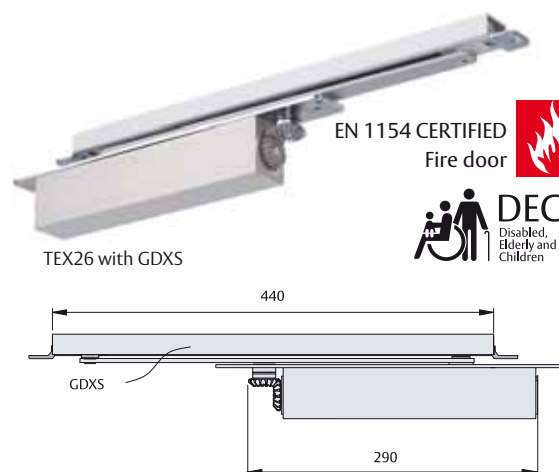
- » The TEX26 works with the exclusive symmetric CAM MOTION drive that the brilliant CT5000 has made famous.
- » By achieving the highest efficiency and torque output characteristics, the TEX26 makes the door opening feel smooth as silk while assuring a reliable door closing under all circumstances.
- » Approved for use in DEC environment like Elderly homes, health care environments and kindergartens. (DEC= Disabled, Elderly and Children)



Size (EN 1154)	Door width cm	Door weight Kg	Adjustments
1 - 5	70 - 125	20 - 100	VC - GF

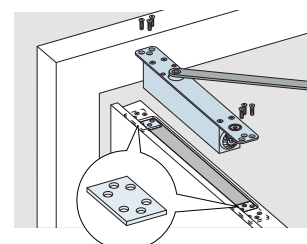
Product code	Description	Finish
TEX26	Concealed doorcloser EN1-5	PL
GDXS	Guide rail 31x21	PL
GDXS12	Guide rail 20x12	PL

Accessories	Description
PLATEX	Mounting KIT for TEX26
MR3000	Hold open device for GDXS
MT3000	Opening damper GDXS



PLATEX

Kit of two mounting plates for metal doors. They allow that the closer installation is flush with the door top surface.



Concealed doorclosers

GDXEM

Sliding guide rail with Electro-Mechanical Hold Open for concealed closers TEX14 - TEX26.
Designed for concealed installation in the frame for excellent aesthetics.

Classification with EN1155:1997 + A1:2002

3 8 3/6 1 1 3

- » GDXEM allows holding the door open at any angle from 70° to 120°.
- » GDXEM will release the door to be closed if there is a Fire alarm.
- » Quick and easy Hold Open position setting and adjustable door holding strength by potentiometer.
- » Power supply 24 VDC, 60 mA. Quick and easy connection, polarity free.
- » Non handed, valid for right or left handed doors.

Model	Finish
GDXEM	PL

Door machining drawings at page 35

EN 1155 CERTIFIED
Fire door



GD2XSC

Sliding guide rail with integrated Closing Sequence selection for double doors with concealed closers TEX14 - TEX26.
Designed for concealed installation in the frame for excellent aesthetics.

Classification with EN1155:1997 + A1:2002

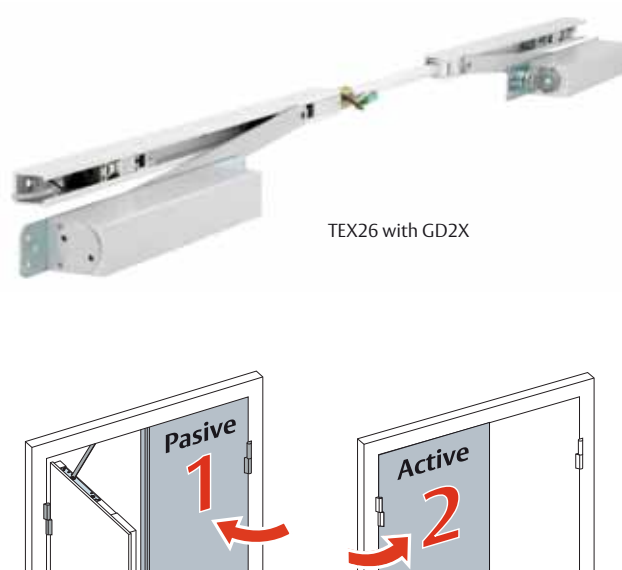
3 5 3/6 1 1 0

- » The first door to close will be the Passive, as the Active
- » Door is prevented from closing by the selection mechanism until the Passive leaf is almost closed.
- » Fully reversible for right or left handed door sets.
- » For double doors from 1350 to 2800 mm.

Model	Finish
GD2XSC	PL

Door machining drawings at page 35

EN 1158 CERTIFIED
Fire door



Concealed doorclosers

GD2XEM1

Sliding guide rail with integrated Closing Sequence selection and Electro-Mechanical door Hold Open function for double doors with concealed closers TEX14 - TEX26.
Designed for concealed installation in the frame for excellent aesthetics.

Classification with EN1158:1997 + A1:2002

3 5 3/6 1 1 0

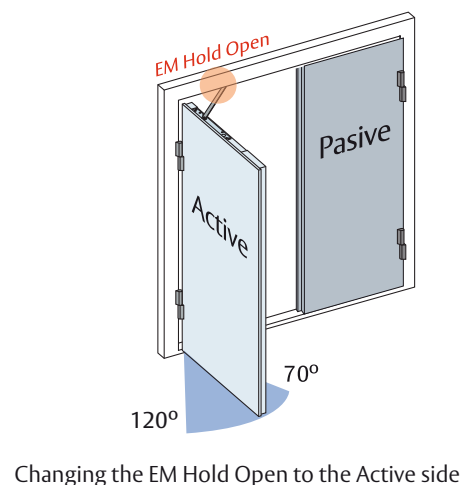
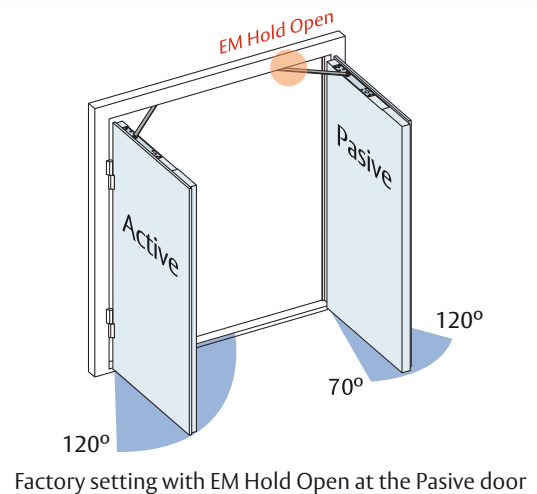
Classification with EN1155:1997 + A1:2002

3 5 3/6 1 1 0

- » The first door to close will be always the Passive, followed by the Active leaf.
 - » The Active door is prevented from closing by the selection mechanism until the Passive leaf is almost closed.
 - » One EM hold open set is pre-assembled in the Passive side guide rail which allows holding both doors open at the same time.
 - » If holding open the Active door only is preferred then the EM Hold Open device can be easily changed to the Active side guide rail.
 - » Adjustable Hold Open position 70°-120°
 - » Adjustable Hold open strenght by potentiometer.
 - » Integrated Safety switch that avoids door or product damage if the Active door is forced to close manually.
- Any manual closing attempt on the Active leaf is detected and the Hold Open device is released immediately, thus assuring a correct and safe closing of both doors.
- » Power supply 24VDC, 60 mA. Quick and easy connection, polarity free.
 - » Fully reversible for right or left handed doors.
 - » For double doors from 1350 to 2800 mm.

Model	Finish
GD2XEM1	PL

EN 1155 CERTIFIED
EN 1158 CERTIFIED
Fire door



Door machining drawings at page 35

Concealed doorclosers

GD2XEM2

EN 1155 CERTIFIED
EN 1158 CERTIFIED
Fire door



Sliding guide rail with integrated Closing Sequence selection and Electro-Mechanical door Hold Open function for double doors with concealed closers TEX14 - TEX26.
Designed for concealed installation in the frame for excellent aesthetics.

Classification with EN1158:1997 + A1:2002

3	5	3/6	1	1	0
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Classification with EN1155:1997 + A1:2002

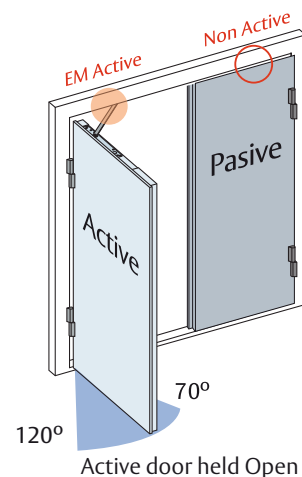
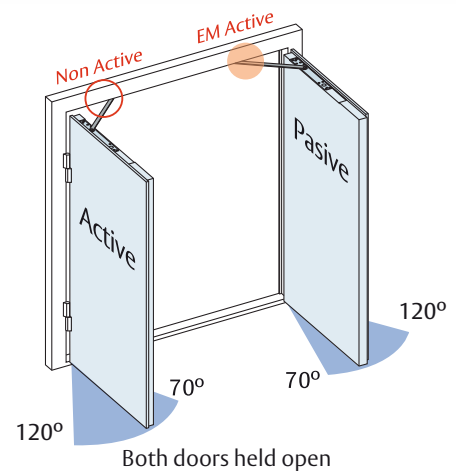
3	5	3/6	1	1	0
---	---	-----	---	---	---

The first door to close will be always the Pasive leaf, followed by the Active leaf.

- » The Active door is prevented from closing by the selection mechanism until the Pasive leaf is almost closed.
- » Two EM hold open devices are pre-assembled in both the Pasive and Active side guide rails.
- » GD2XEM2 allows having both doors open or just the Active door open only.
- » Integrated Safety switch that avoids door or product damage if the Active door is forced to close manually.
Any manual closing attempt on the Active leaf is detected and the Hold Open device is released immediately, thus assuring a correct and safe closing of both doors.
- » Adjustable Hold Open position 70°-120°
- » Adjustable Hold open strenght by potentiometer.
- » Power supply 24VDC, 60 mA. Quick and easy connection, polarity free.
- » Fully reversible for right or left handed doors.
- » For double doors from 1350 to 2800 mm.

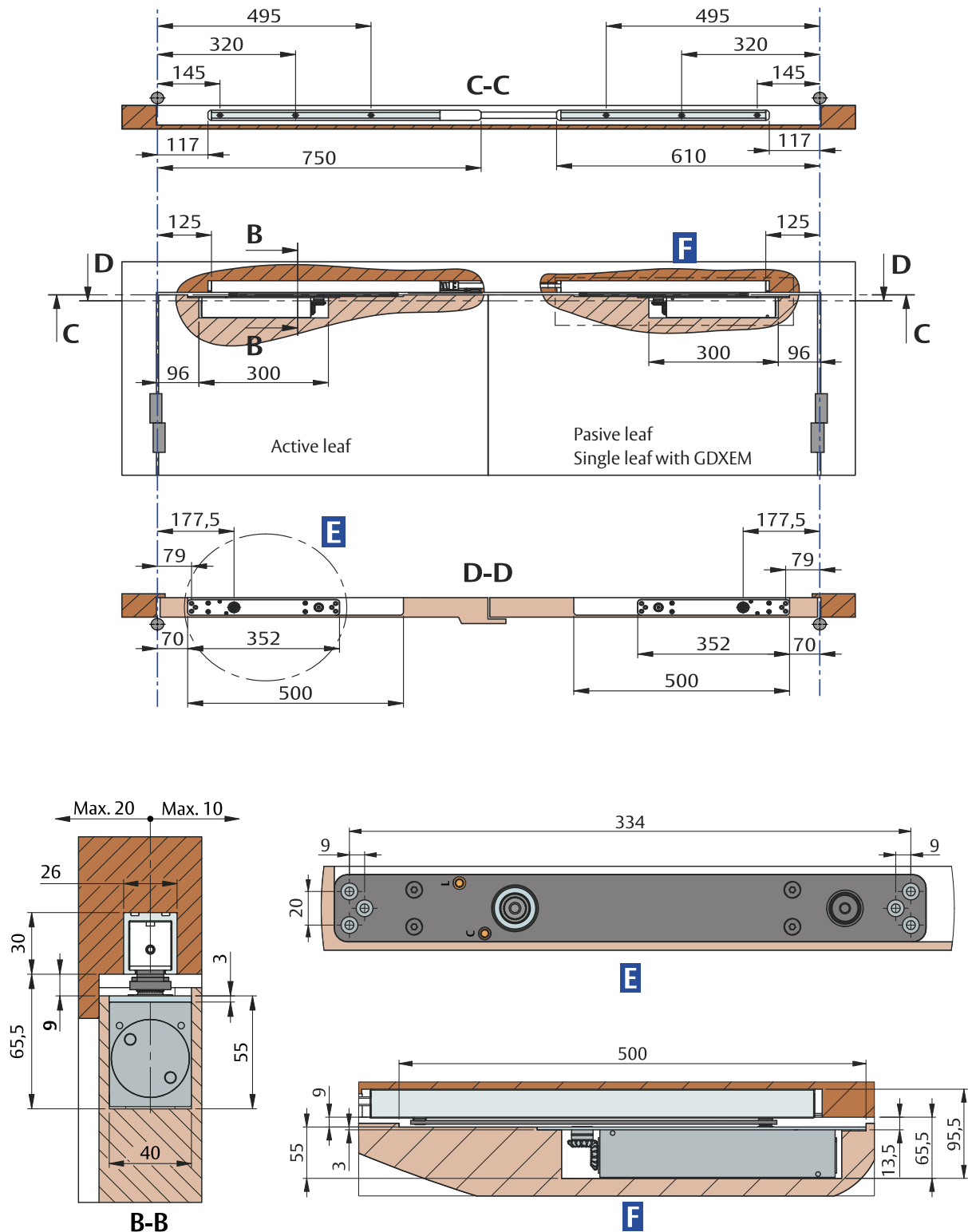
Model	Finish
GD2XEM2	PL

Door machining drawings at page 35



Concealed doorclosers

Door and frame machining for GDXEM and GD2X



Floor springs

CTSU100

The TESA CTSU100 is the most versatile model for door width up to 110 mm and weight up to 100 kg.

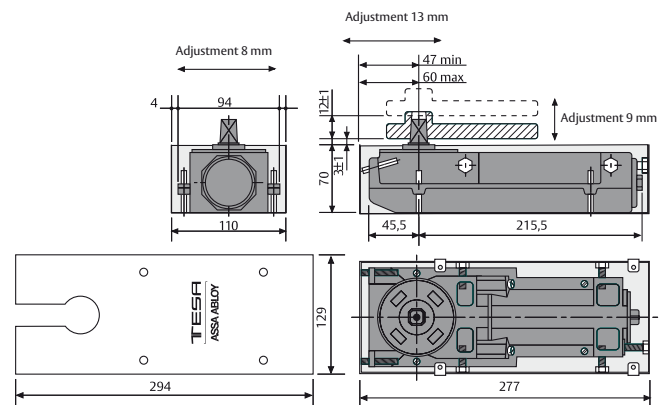
- » Reversible and suitable for single and double action doors.
- » Continuously adjustable size from EN2 to EN4.
- » Two independent valves for closing speed and latching speed adjustments.
- » Internal HO system. Two models available: with HO at 90° (R0) or 105° (R5). Both Hold Open models allows leaving the door open at any angle from 150° to 180° (free swing zone).
- » Non Hold Open model (SR) features a back stop at 150°.
- » Interchangeable spindle
- » Any spindle from the PIC 150° or PIR220 series can be chosen.
- » Closing speed is controlled from 150° of opening.
- » Finishes: IM, LP.

Size (EN 1154)	Door width cm	Door weight Kg
2	85	100
3	95	100
4	110	100

Size	Model	Hold open	Finish
2 - 4	CTSU100SR	-	IM - LP
2 - 4	CTSU100R0	90°	IM - LP
2 - 4	CTSU100R5	105°	IM - LP

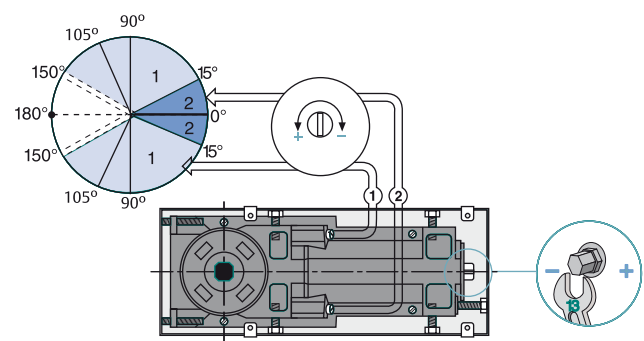


CTSU100 polished brass finish LP



Hold Open position:

- Model CTSU100 R0: 90°
- Model CTSU100 R5: 105°
- Model CTSU100 SR: Non hold open



Floor springs

CTSU200

EN 1154 CERTIFIED
Fire door



The TESA CTSU200 door closer offers the best adaptability to any floor configuration, as the cement box depth is only 47mm deep.

» Classification EN1154: 1996 + A1: 2002

CTSU203SR: 3 8 2 0 1 4

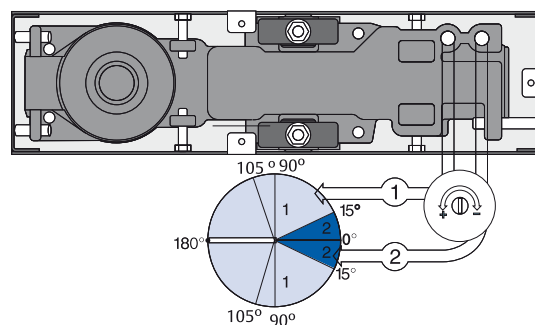
CTSU203SR: 3 8 3 1 1 4

CTSU204SR: 3 8 4 1 1 4

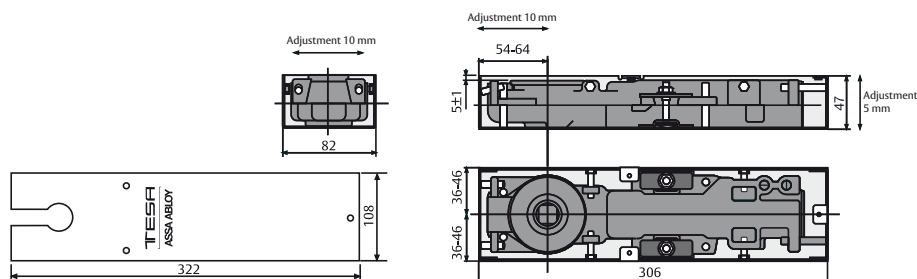
- » Reversible and suitable for single or double action doors.
- » Fixed sizes: EN2, EN3 and EN4.
- » Two independent valves for closing speed and latching speed adjustments.
- » Internal HO system. Two models available: with HO at 90° (R0) or 105° (R5).
- » No spindle supplied. Any spindle from the PIC150 or PIR220 series can be chosen. Other spindles can also be chosen and ordered separately.
- » Closing speed is controlled from 175° of opening.
- » Finishes: IM, LP.

Model	Size (EN 1154)	Door width cm	Door weight Kg
CTSU202	2	85	100
CTSU203	3	95	100
CTSU204	4	110	100

Size	Model	Hold open	Fire door	Finish
2	CTSU202SR	-	-	IM - LP
3	CTSU203SR	-	-	IM - LP
4	CTSU204SR	-	-	IM - LP
2	CTSU202R0	90°	-	IM - LP
3	CTSU203R0	90°	-	IM - LP
4	CTSU204R0	90°	-	IM - LP
2	CTSU202R5	105°	-	IM - LP
3	CTSU203R5	105°	-	IM - LP
4	CTSU204R5	105°	-	IM - LP



Hold Open position:
 - Model CTSU300 R0: 90°
 - Model CTSU300 R5: 105°
 - Model CTSU300 SR: Non hold open



Floor springs

CTSU300

EN 1158 CERTIFIED
Fire door

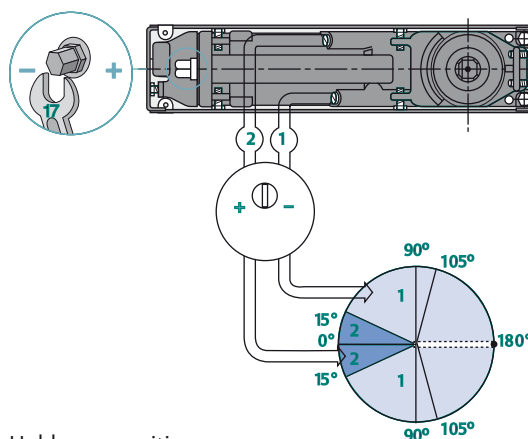


The TESA CTSU300 door closer is the most powerful floor spring, capable of controlling the motion of doors weighing up to 300 kg.

» Classification EN1154: 1996 + A1: 2003

CTSU300SR: 3 8 3/6 1 1 4

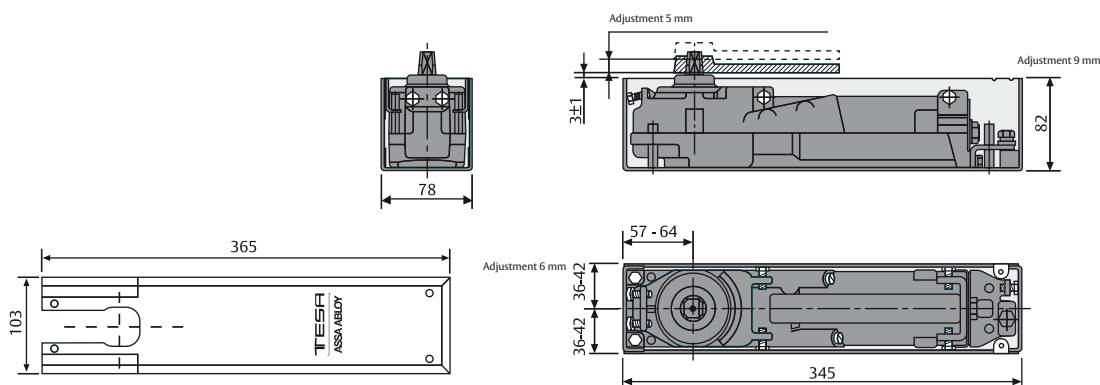
- » Reversible and suitable for single or double action doors.
- » Continuous size adjustment from EN3 to EN6.
- » Two independent valves for closing speed and latching speed adjustments.
- » Internal backcheck for door protection.
- » Internal HO system. Two models available: with HO at 90° (R0) or 105° (R5).
- » Any spindle from the PIC 150 or PIR220 series can be chosen. » Closing speed is controlled from 175° of opening.



Size (EN 1154)	Door width cm	Door weight Kg
3	95	300
4	110	300
5	125	300
6	140	300

Size	Model	Hold open	Fire	Finish
3 - 6	CTSU300SR	-	-	IM - LP
3 - 6	CTSU300R0	90°	-	IM - LP
3 - 6	CTSU300R5	105°	-	IM - LP

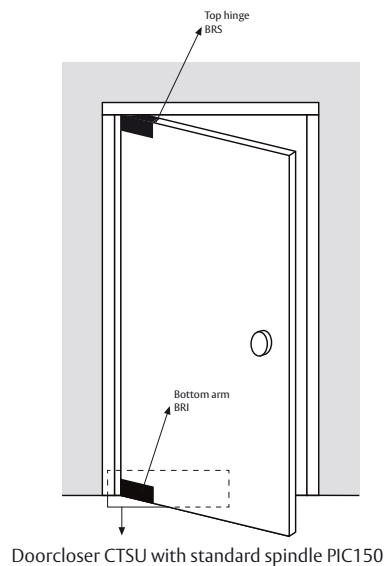
Hold open position:
 - Model CTSU300 R0: 90°
 - Model CTSU300 R5: 105°
 - Model CTSU300 SR: Non hold open



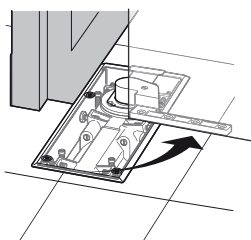
Hinges for metal and wooden doors

The installation of a door with CTSU floor springs is completed with:

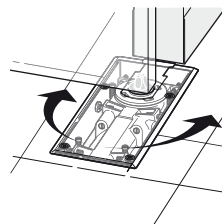
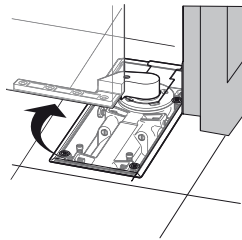
- » Spindle: PIC150 is the standard spindle.
- » Bottom arm: The spindle coupling is square for PIC150 as a standard for all bottom arms. If any other spindle coupling is required, it has to be specified when ordering.
- » Top hinge: Set of door leaf and frame parts in order to provide a top rotating pivot to the door. Always reversible.



Bottom arm types



Offset arms: for single action doors
Page 37-39.

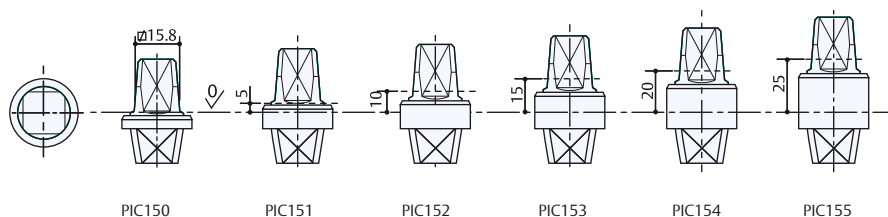


Double action doors
Page 36.

Spindle for CTSU floor spring

PIC150: Standard spindle for all the CTSU range.

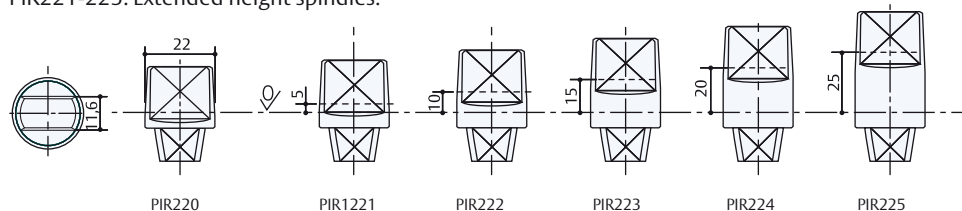
PIC151-155: Extended height spindles.



PIC150

PIR220: Optional German-type (rectangular shape) spindle for all the CTSU range.

PIR221-225: Extended height spindles.

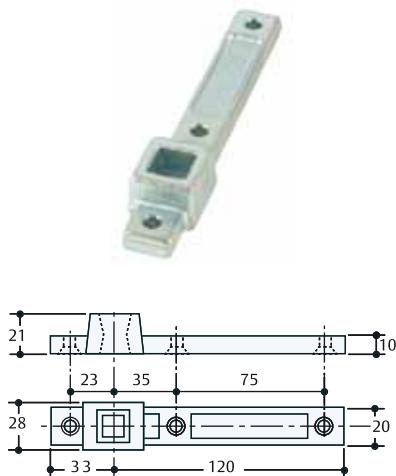


Hinges for metal and wooden doors

Double action doors

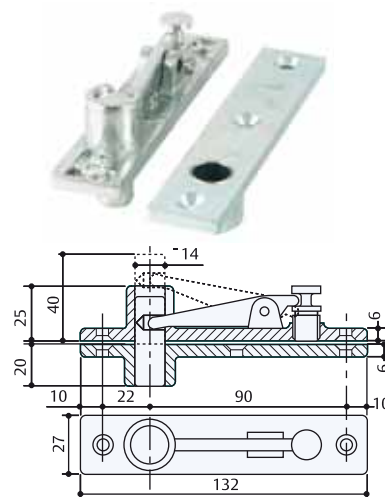
The BRI bottom arms are designed to match square spindles like PIC150, PIC151, etc.

BRI300VHZ



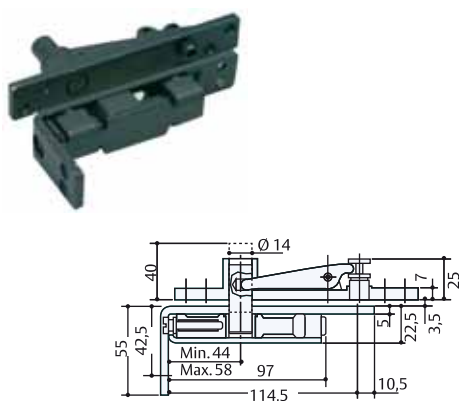
- » Solid steel with zinc plating for corrosion resistance.
- » Dependable and durable.
- » Max. door weight: 300 Kgs.

BRS300VHZ



- » Top hinge with adjustable pivot throw for easy door hanging.
- » Zinc plated for corrosion resistance.

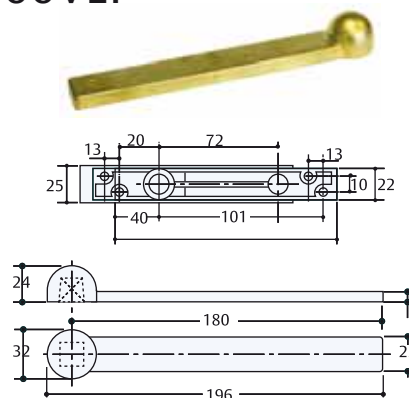
BRSA170VNE



- » Top hinge with pivot position Adjustment
- » Adjustable pivot throw for easy door mounting.
- » Adjustable pivot position from the hanging side edge of the door.
- » Black painted.

Model	Finish	Hand	Type	Door weight Kgs
BRI100VLT	LT	-	Bottom	100
BRS300VHZ	HZ	-	Top	300
BRSA170VNE	NE	-	Top	100
BRI300VHZ	HZ	-	Bottom	300
PICE150	-	-	Ground pivot	120

BRI100VLT



- » Solid brass bottom arm.
- » For light use, Max. door weight: 100 Kg.

PICE 150 ground pivot

Intended for use without a floor spring

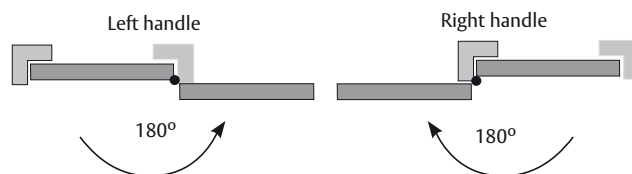


Hinges for metal and wooden doors

Offset arms

They allow full door opening (180°) for single action doors.

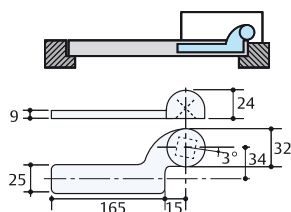
- » Made with high quality brass for door weight up to 100 Kg.
- » Square spindle coupling for PIC150 spindles.
- » If other spindle coupling is desired, it has to be indicated when ordering.



BRI100D



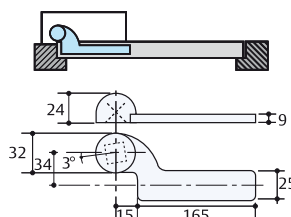
Bottom offset arm for Right handed doors.



BRI100I



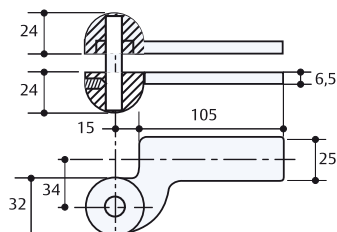
Bottom offset arm for Left handed doors.



BRS100



Top hinge to combine with BRI100 D-I
Reversible, non handed.



PICE 150 ground pivot

Floor pivot used to hang doors
without a floor spring.
Page 53.



Model	Finish	Hand	Type	Door weight Kgs
BRI100 D	LT - LN	Right	Lower	100
BRI100 I	LT - LN	Left	Lower	100
BRS100	LT - LN	Reversible	Top	100

Hinges for metal and wooden doors

Offset arms

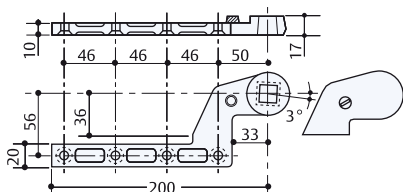
They allow full door opening (180°) for single action doors.

- » Made of high quality steel for door weight up to 300 Kg.
- » With countersunk holes for quick and easy fixing
- » Square spindle coupling for PIC150 spindles.
- » If other spindle coupling is desired, it has to be indicated when ordering.

BRI301



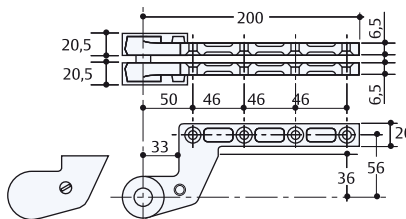
Bottom offset arm for right and left handed doors.
Reversible, non handed.



BRS301



Top hinge to combine with the BRI301 arm
Reversible, non handed.



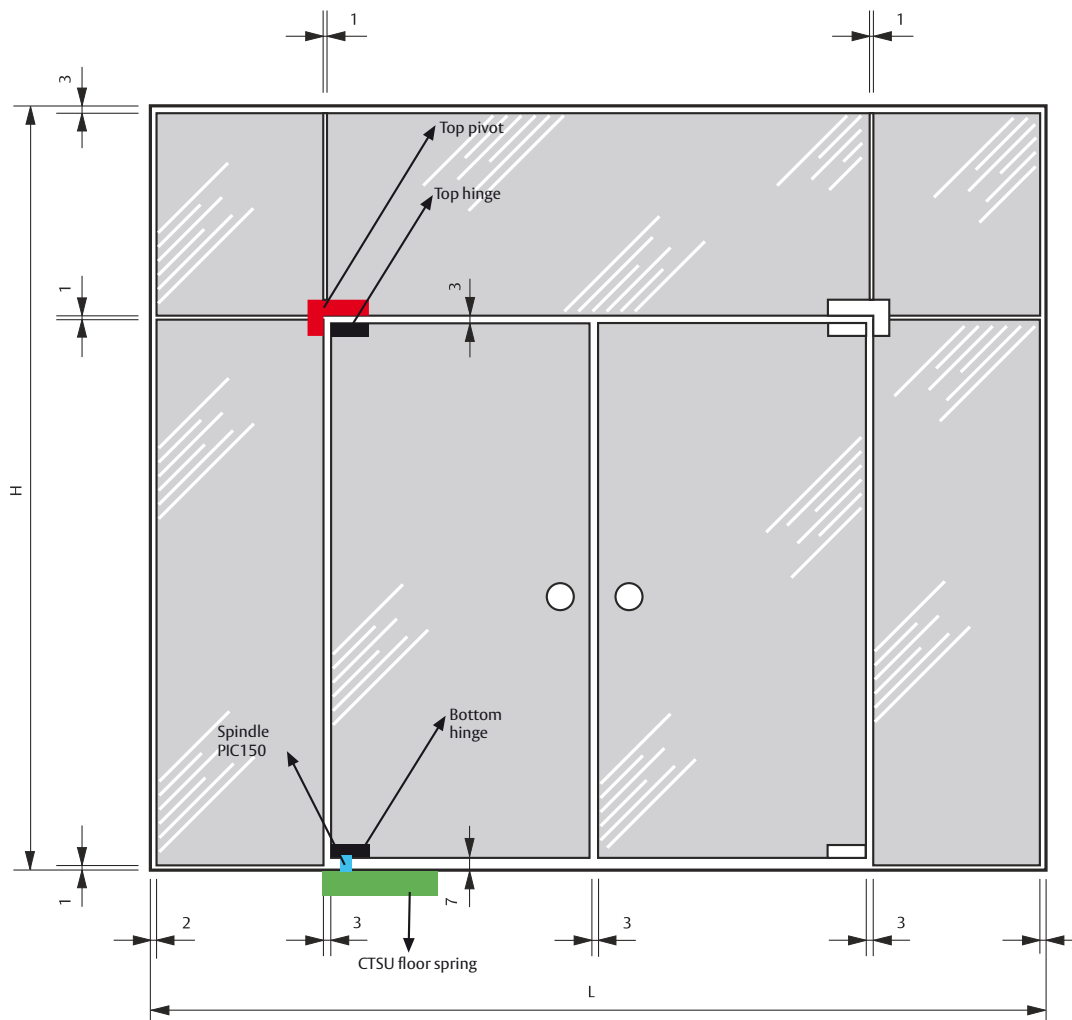
Model	Finish	Hand	Type	Door weight Kgs
BRI301	OR - PL	Reversible	Bottom	300
BRS301	OR - PL	Reversible	Top	300

PICE 150 ground pivot

Floor pivot used to hang doors
without a floor spring.
Page 53.



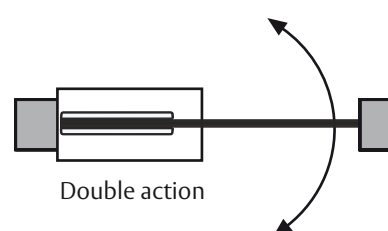
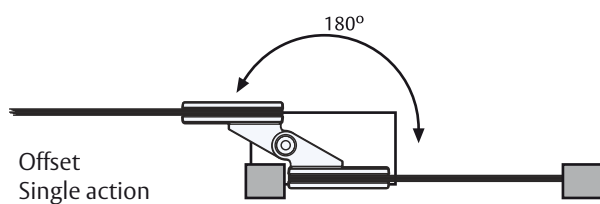
Patch fittings for Glass Doors



Elements required in order to complete installation of glass doors

- Bottom hinge with square spindle coupling for PIC150 spindles.
- Top hinge with cylindric coupling for top pivots
- Top Pivot for frame installation. The configuration of the frame will determine which pivot type should be used.
- CTSU floor spring or PICE floor pivot

Types of top and bottom hinges

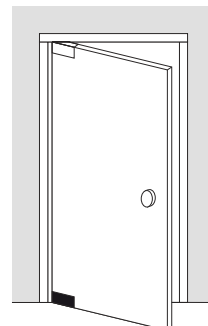
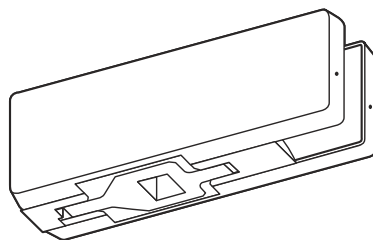


Hinges for glass doors

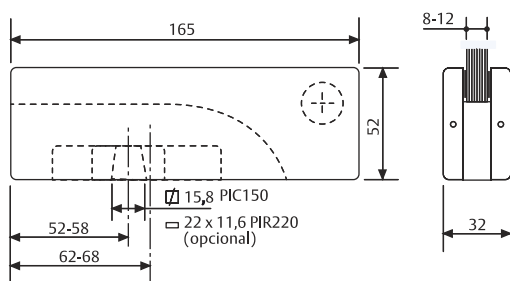
Hinges for glass doors - double action

BVI565V

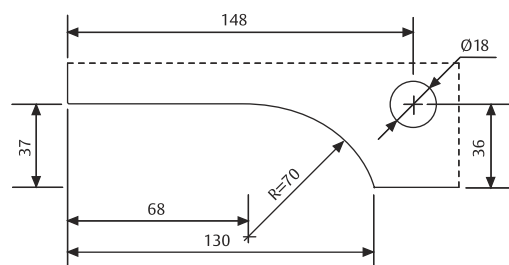
- » Bottom hinge with PIC150 spindle coupling.
- » Spindle position at 55 or 65 mm. Adjustment +/- 3 mm.
- » Optional socket for PIR220 spindles.
- » Glass thickness: from 8 to 12 mm.
- » Maximum weight: 80 kg.
- » Finishes: IB, IM.



Dimensions



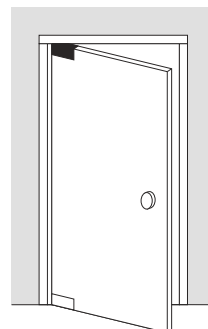
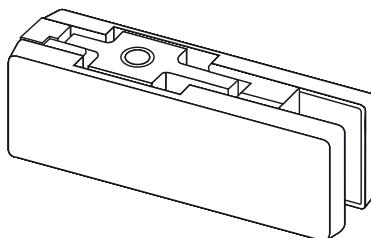
Glass machining



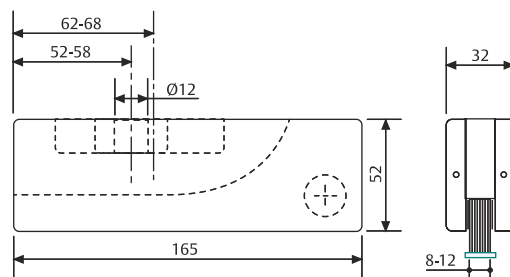
Model	Finish	Hand	Type	Door weight Kgs
BVI565 V	AN - AO	-	Bottom	80
BVI565 V	IM - IB	-	Bottom	80

BVS565V

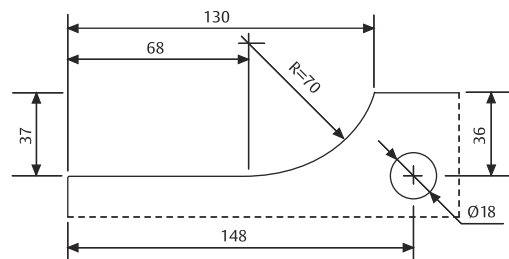
- » Top hinge for double action doors.
- » Pivot position at 55 or 65 mm, adjustment +/- 3 mm.
- » Finishes: IB, IM.



Dimensions



Glass machining



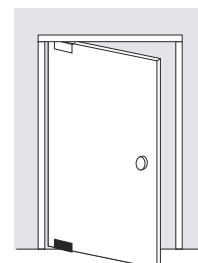
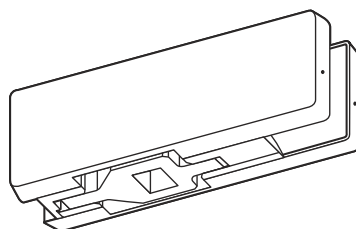
Model	Finish	Hand	Type	Door weight Kgs
BVS565 V	IM - IB	-	Top	80

Hinges for glass doors

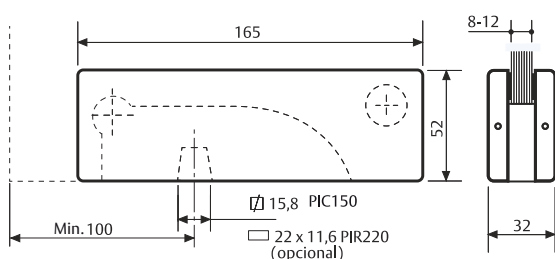
Double action

BVI100V

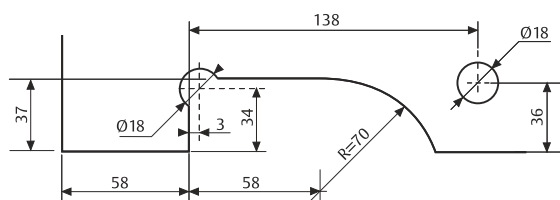
- » Bottom hinge with PIC150 spindle coupling.
- » Spindle position starting from 100 mm. from the door side edge.
- » Optional socket for PIR220 spindles.
- » Glass thickness: from 8 to 12 mm.
- » Maximum weight: 80 kg.
- » Finishes: IB, IM.



Dimensions



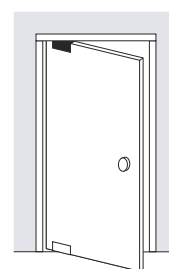
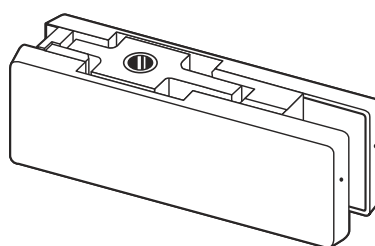
Glass machining



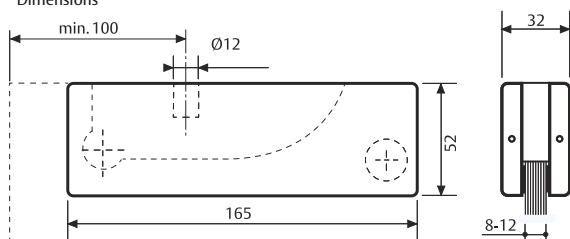
Model	Finish	Hand	Type	Door weight Kgs
BVI100V	IM - IB	-	Bottom	80

BVS100V

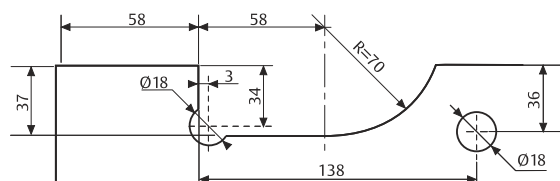
- » Top hinge for double action doors.
- » To combine with BVI100V bottom hinge.
- » Glass thickness: from 8 to 12 mm.
- » Finishes: IB, IM.



Dimensions



Glass machining



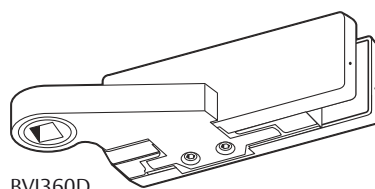
Model	Finish	Hand	Type	Door weight Kgs
BVS100V	IM - IB	-	Top	80

Hinges for glass doors

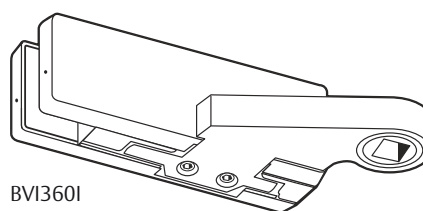
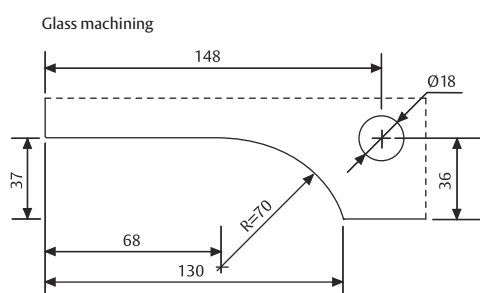
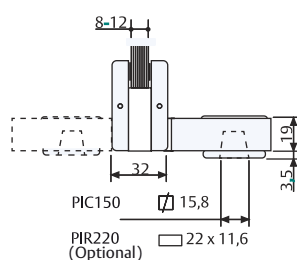
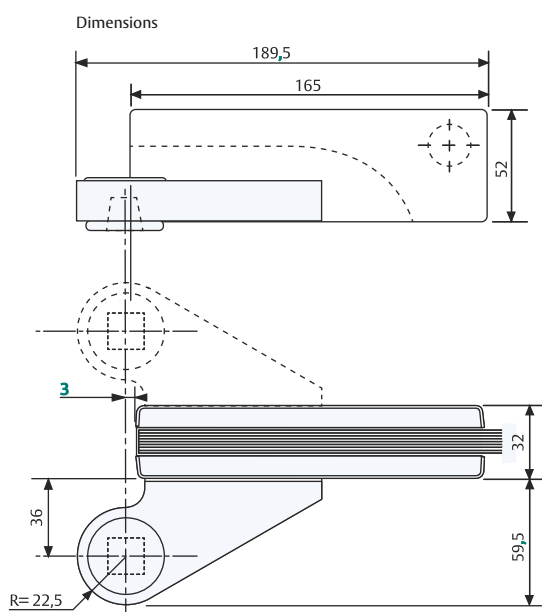
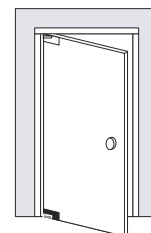
Offset hinges

BVI360D/I

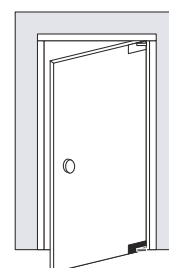
- » Bottom hinge with PIC150 spindle coupling.
- » Spindle offset at 36 mm.
- » 180° opening allowed for single action doors.
- » Glass thickness: from 8 to 12 mm.
- » Finishes: IB, IM.



BVI360D



BVI360I



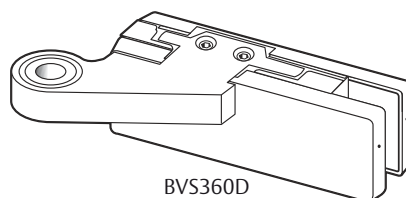
Model	Finish	Hand	Type	Door weight Kgs
BVI360 D	IM - IB	Right	Bottom	80
BVI360 I	IM - IB	Left	Bottom	80

Hinges for glass doors

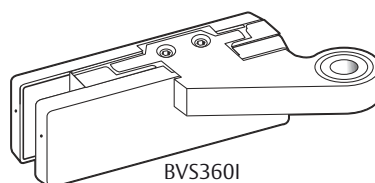
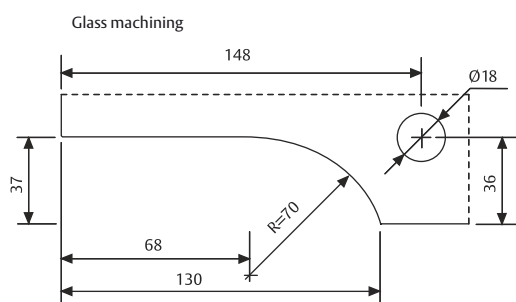
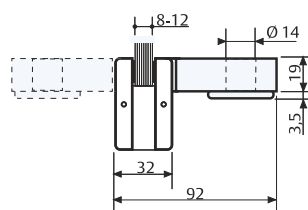
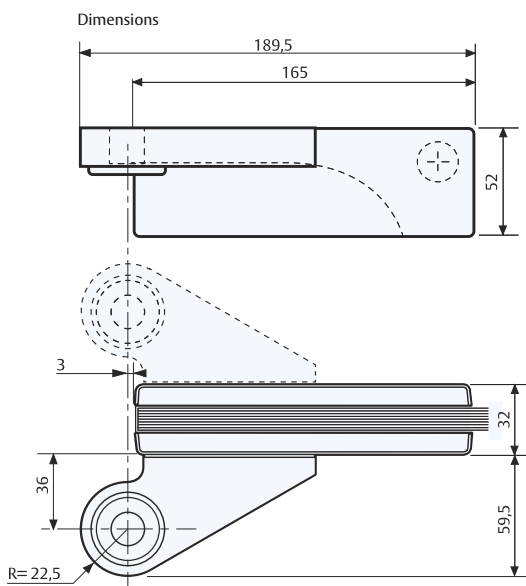
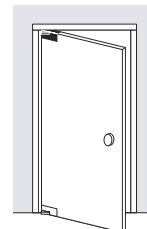
Offset hinges

BVS360D/I

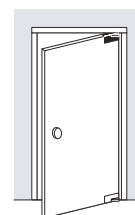
- » Top hinge with cylindric coupling.
- » Spindle offset at 36 mm.
- » 180° opening allowed for single action doors.
- » Glass thickness: from 8 to 12 mm.
- » Finishes: IB, IM.



BVS360D



BVS360I

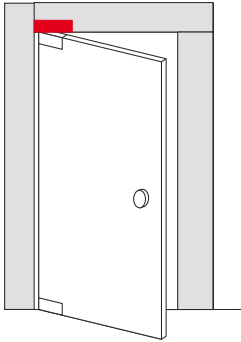


Model	Finish	Hand	Type	Door weight Kgs
BVS360 D	IM - IB	Right	Upper	80
BVS360 I	IM - IB	Left	Upper	80

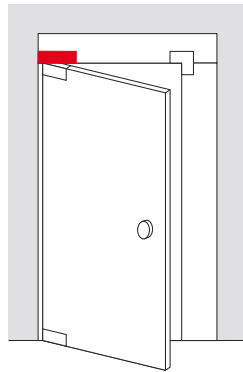
Hinges for glass doors

Top pivot types

» There are 7 top types in order to fit any frame configuration.

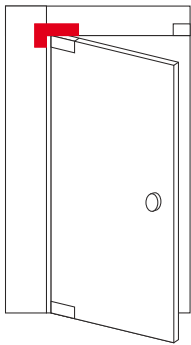


TYPE PV1

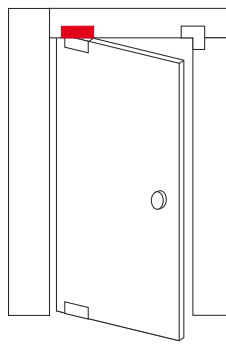


TYPE PV2

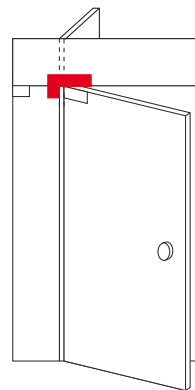
Pivotes	Top frame	Side frame	Notes
Type 1	wooden/metal	-	
Type 2	glass	wooden/metal	
Type 3	glass	glass	
Type 4	glass	-	Pivot at 100 mm. min.
Type 5	glass	glass	Perpendicular glass reinforcement
Type 6	glass	-	Double leaf
Type 7	glass	-	Double leaf+reinforcement.



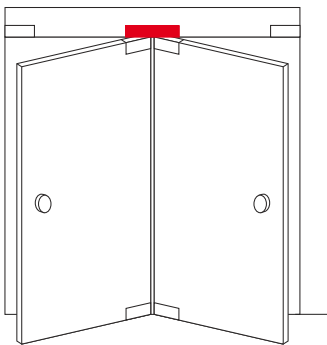
TYPE PV3



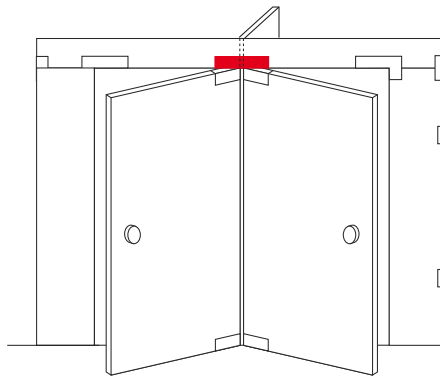
TYPE PV4



TYPE PV5



TYPE PV6



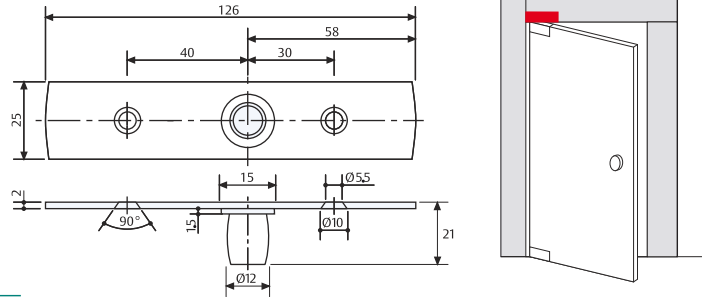
TYPE PV7

Top pivots for glass doors

Double action

PV1565V

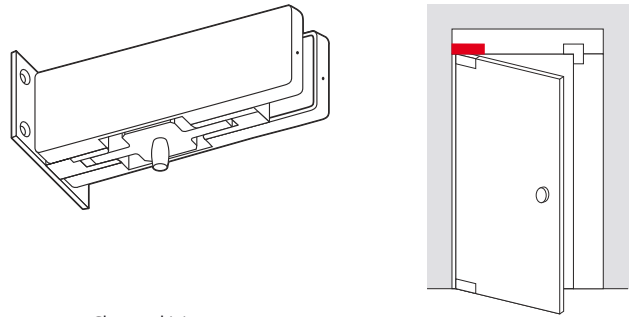
- » Type 1 top pivot.
- » Designed for BVS565V and BVS100V top hinges.
- » Finish: CB.



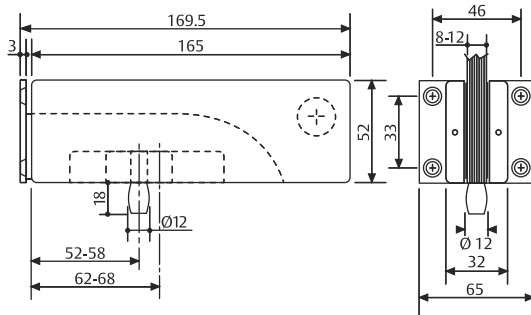
Model	Finish
PV1565V	CB

PV2565V

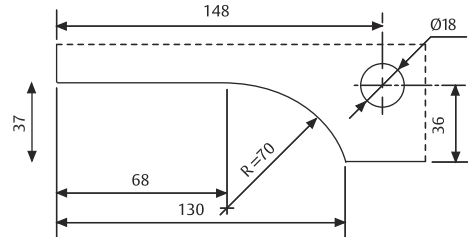
- » Type 2 top pivot with spindle position at 55mm.
- » Pivot position at 55/65 mm. Adjustment +/- 3 mm.
- » Designed for BVS565V top hinge.
- » Finishes: IB, IM.



Dimensions



Glass machining



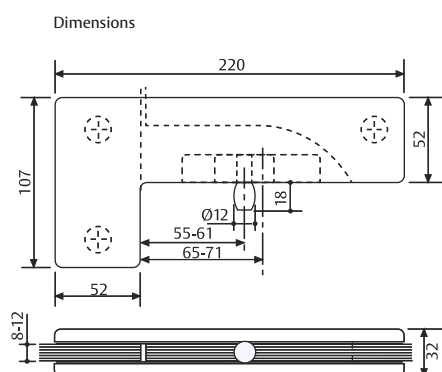
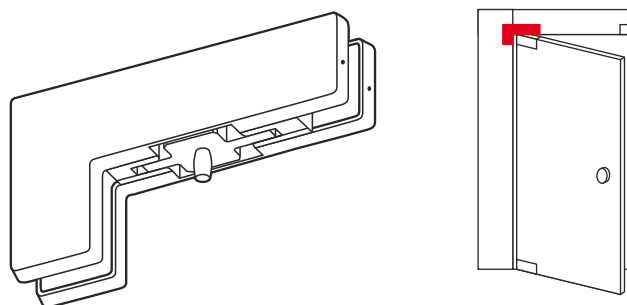
Model	Finish	Hand
PV2565V	IM - IB	-

Top pivots for glass doors

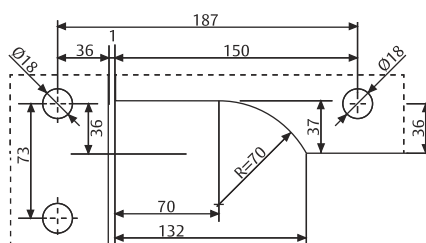
Double action

PV3565V

- » Type 3 top pivot.
- » Pivot position at 55/65 mm. Adjustment +/- 3 mm.
- » Finishes: IB, IM.



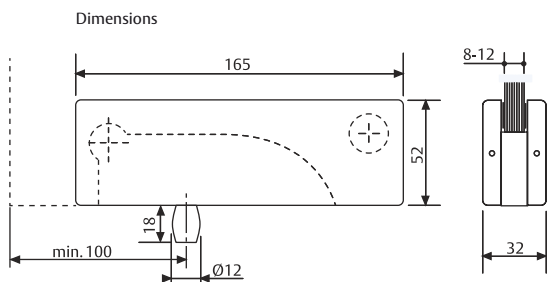
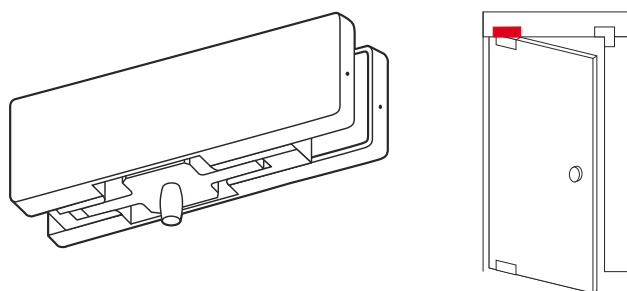
Glass machining



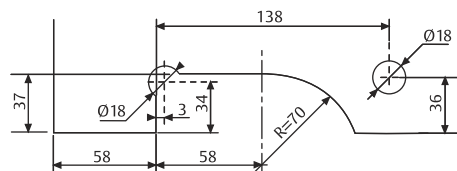
Model	Finish	Hand
PV3565V	IM - IB	-

PV4100V

- » Type 4 top pivot.
- » Pivot distance from door from 100 mm. minimum.
- » Designed for BV100V top hinge.
- » Finishes: IB, IM.



Glass machining



Model	Finish	Hand
PV4565V	IM - IB	-

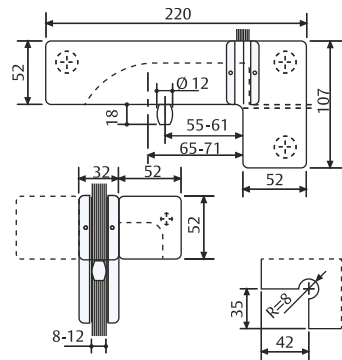
Top pivots for glass doors

Double action

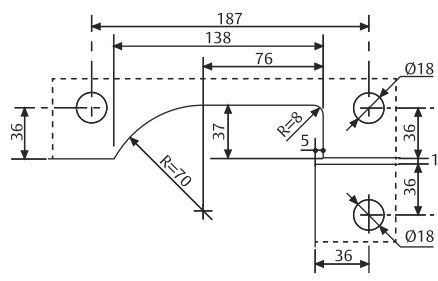
PV5565V

- » Type 5 top pivot with spindle position at 55-65 mm.
- » Spindle position adjustment + 6mm.
- » Designed for BVS565V top hinge.
- » Finishes: IB, IM.

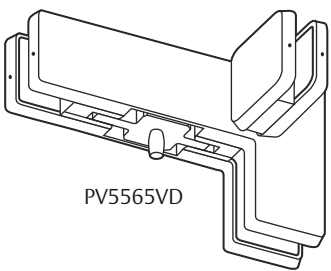
Dimensions



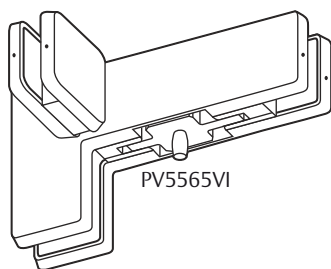
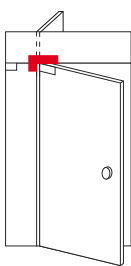
Glass machining



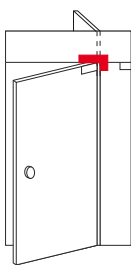
Model	Finish	Hand
PV5565VD	IM - IB	Right
PV5565VI	IM - IB	Left



PV5565VD



PV5565VI

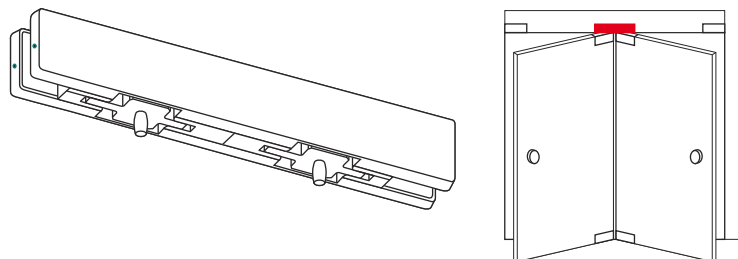


Top pivots for glass doors

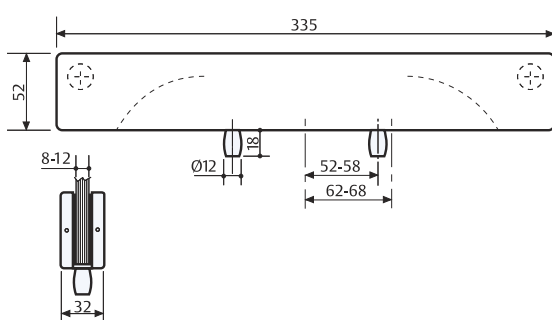
Double action

PV6565V

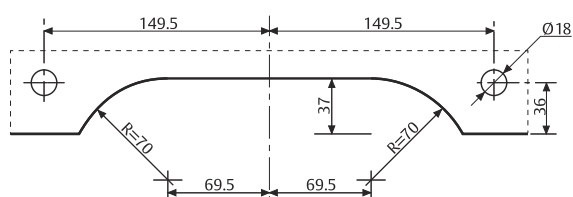
- » Type 6 top pivot with spindle position at 55 - 65 mm.
- » Designed for BVS565V top hinge.
- » Spindle position adjustment ± 3 mm.
- » Finishes: IB, IM.



Dimensions



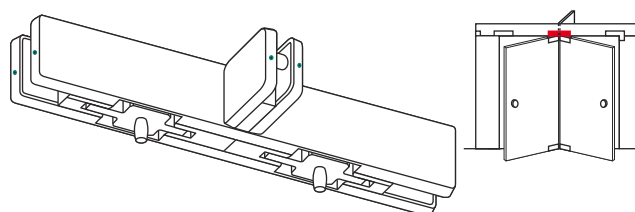
Glass machining



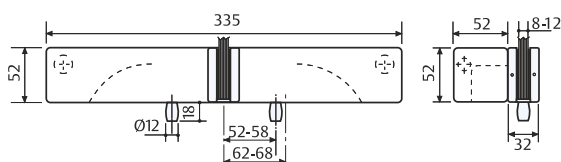
Model	Finish	Hand
PV6565V	IM - IB	-

PV7565V

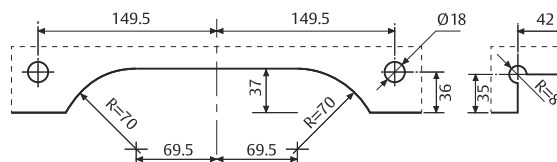
- » Type 7 top pivot with spindle position at 55 - 65 mm.
- » Designed for BVS565V top hinge.
- » Spindle position adjustment ± 3 mm.
- » Finishes: IB, IM.



Dimensions



Glass machining



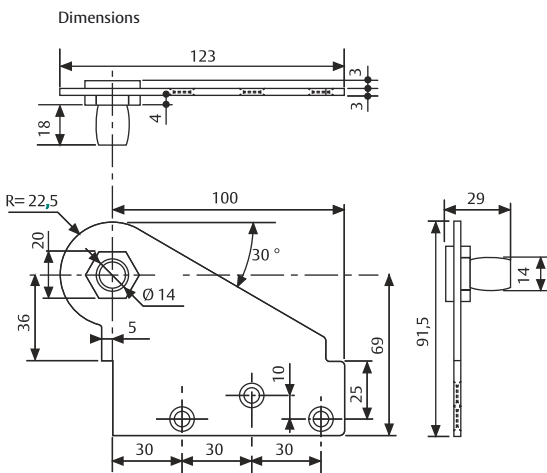
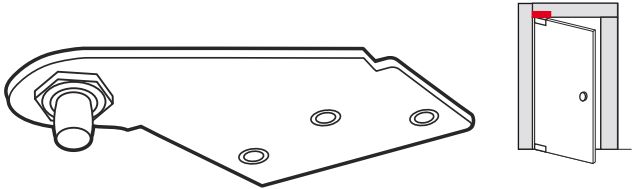
Model	Finish	Hand
PV7565V	IM - IB	-

Top pivots for glass doors

Offset hinges

PV1360

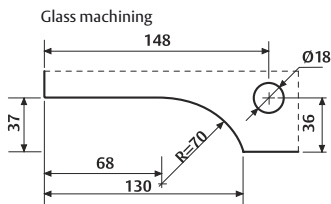
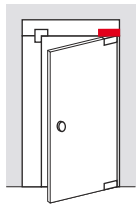
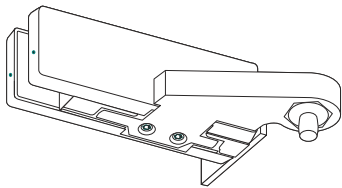
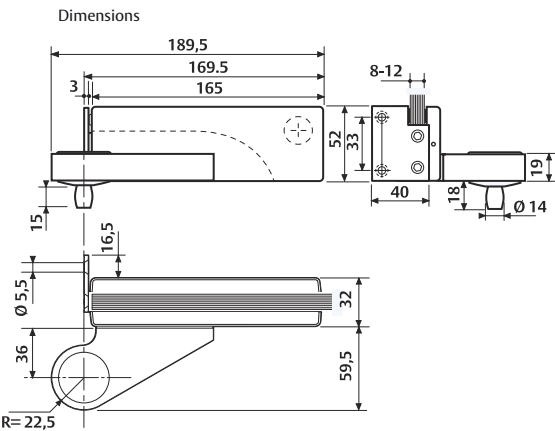
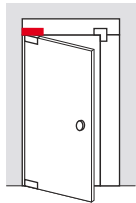
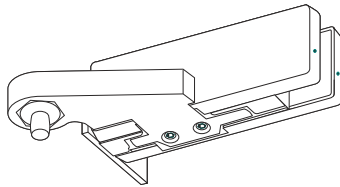
- » Type 1 top pivot with offset of 36 mm.
- » Reversible, for right and left handed doors.
- » Handing is changed by unscrewing the pivot fixing nut.
- » Designed for BVS360 D-I top hinge.
- » Finishes: IB, IM.



Model	Finish	Hand
PV1360	IM - IB	Reversible

PV2360D/I

- » Type 2 top pivot with offset of 36 mm.
- » Designed for BVS360 D-I top hinge.
- » Finishes: IB, IM.



Model	Finish	Hand
PV2360D	IM - IB	Right
PV2360I	IM - IB	Left

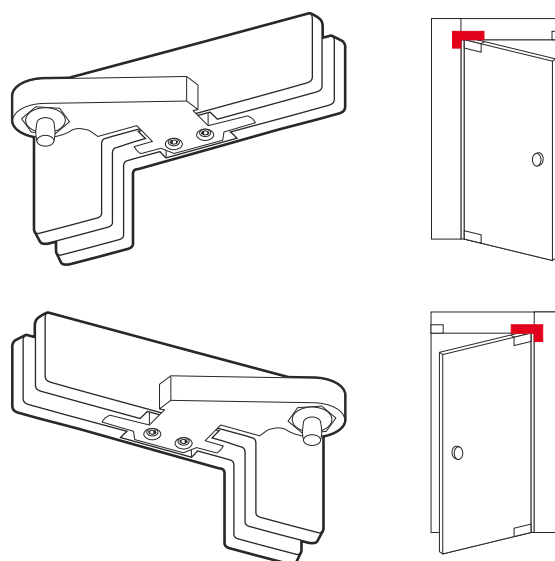
Top pivots for glass doors

Double action

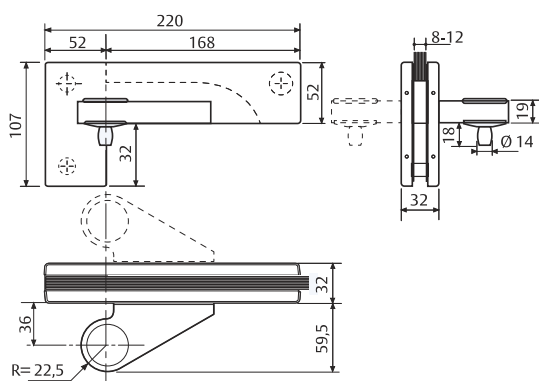
PV3360D/I

- » Type 3 top pivot with 36mm. offset.
- » Compatible with: BVS360 D-I.
- » Finish: IB, IM.

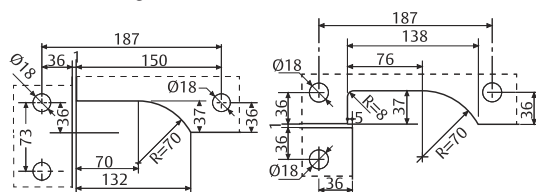
Model	Finish	Hand
PV3360D	IM - IB	Right
PV3360I	IM - IB	Left



Dimensions



Glass machining



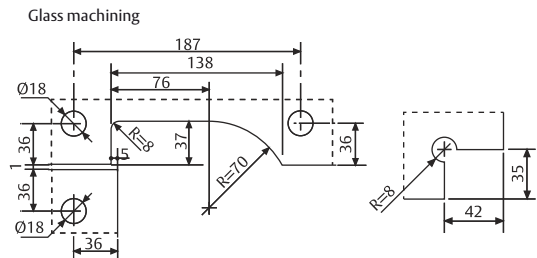
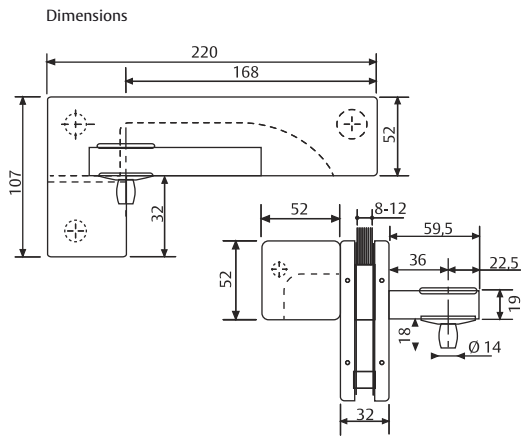
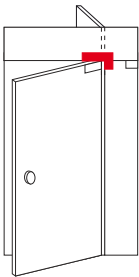
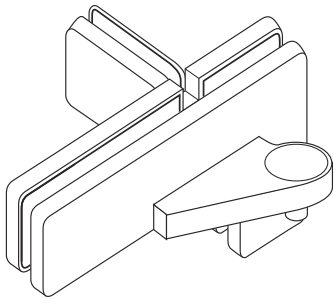
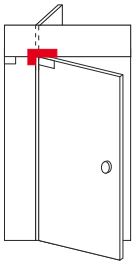
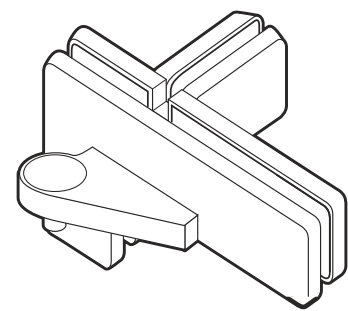
Top pivots for glass doors

Double action

PV5360D/I

- » Type 5 top pivot with offset of 36 mm.
- » Designed for BVS360 D-I top hinge.
- » Finishes: IB, IM.

Model	Finish	Hand
PV5360D	IM - IB	Right
PV5360I	IM - IB	Left

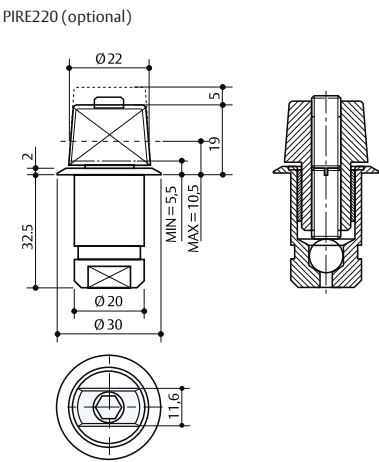
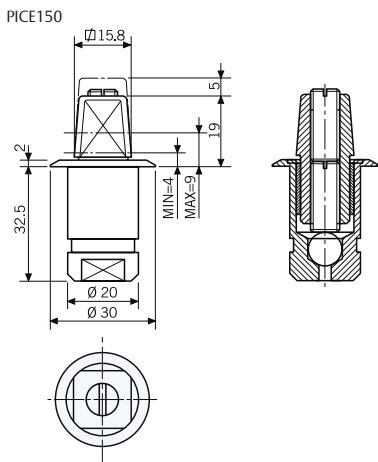


Accessories for glass doors

PICE150 / PIRE220

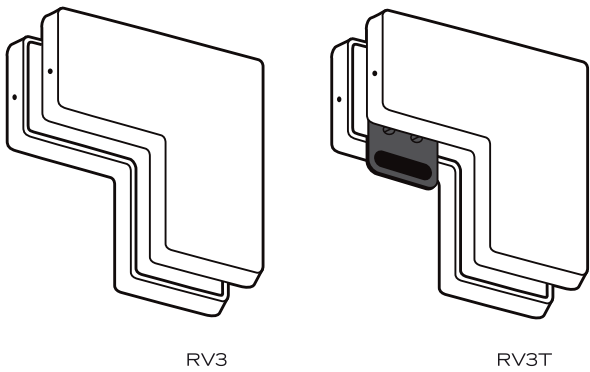
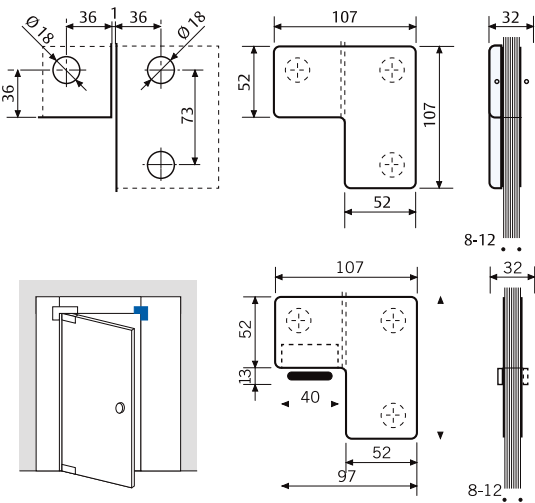
- » Floor pivot for door swing without using a floor spring.
- » PICE150 is compatible with all the bottom arms for wooden/ metal doors and bottom hinges for glass doors.
- » Maximum weight: 120 kg.

Model	Description
PICE150	Floor pivot



RV3 / RV3T

- » Glass corner link.
- » Designed for BV5360 D-I top hinge.
- » Finishes: IB, IM.



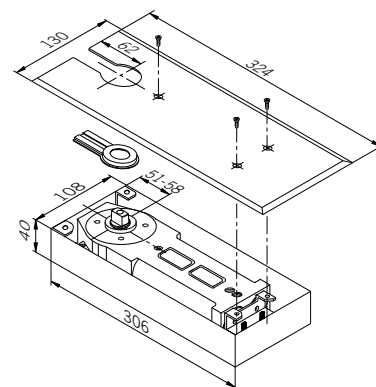
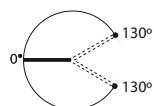
Model	Finish	Description
RV3	IM - IB	Glass corner link
RV3T	IM - IB	Glass corner link door stop

Floor springs

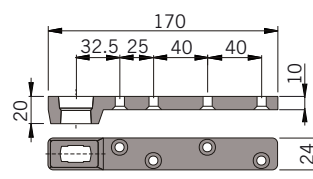
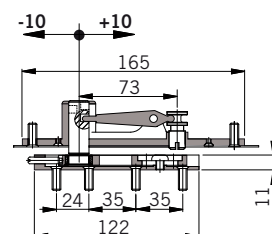
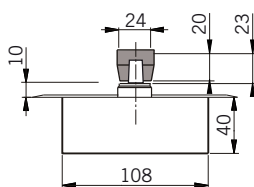
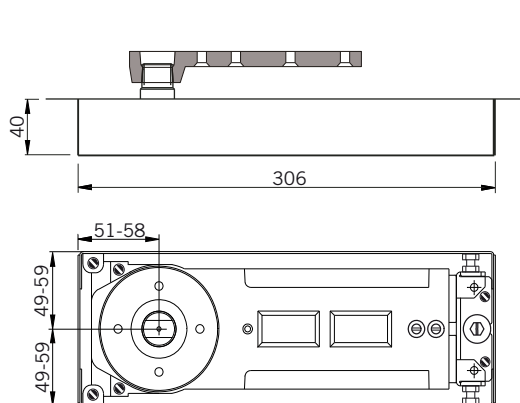
CTSU71. Complete kit for double action doors

The CTSU71 is a floor spring which is supplied as a complete kit that includes everything necessary for wooden or metal made double action doors.

- » Three models for 3 sizes:
 CTSU712 :EN2 Door width: 85 mm.
 CTSU713: EN3 Door width: 95 cm.
 CTSU714: EN4 Door width: 110 cm.
- » Independent valves for closing and latching speeds adjustment.
- » Non handed and suitable for double action doors.
- » Fixed spindle for easy installation.
- » Bottom arm supplied made of solid steel and zinc plated for corrosion resistance.
- » The bottom arm includes countersunk holes for quick and easy installation
- » The Top hinge is supplied and inscludes a needle bearing for superior durability
- » Top hinge with pivot throw adjustment for easy door hanging
- » The Top hinge horizontal position is adjustable (+/- 10 mm) from the door side edge of the door for even easier installation and door levelling corrections.
- » Models can be chosen for Non hold open (-SR-) or Door Hold Open function at 90° (-R0-) .
- » The satin Stainless Steel cover plate is included. (IM finish)
- » Maximum door opening: 150°



Size	Model	Hold open	Finish
2	CTSU712SRIM	-	IM
2	CTSU712R0IM	90°	IM
3	CTSU713SRIM	-	IM
3	CTSU713R0IM	90°	IM
4	CTSU714SRIM	-	IM
4	CTSU714R0IM	90°	IM



Door closing selector for double doors

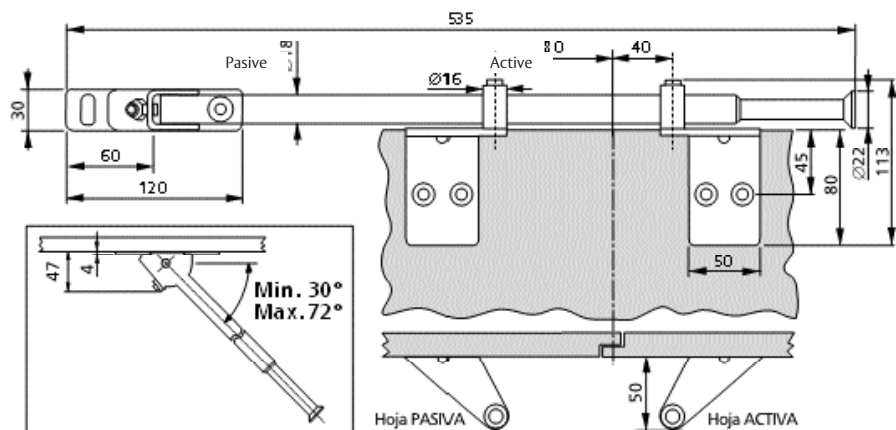
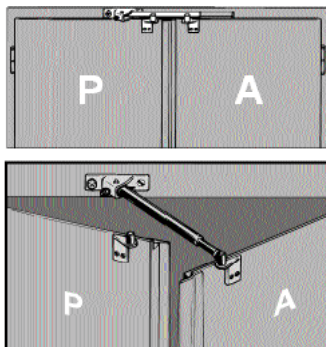
SELTELCIER

EN 1158 CERTIFIED
Fire door



Zinc plated steel parts for durability and corrosion resistance.
For active door width up to 1,60m.

Model	Active door width
SELTELCIER	Up to 1600 mm





ASSA ABLOY

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www.tesa.es

ASSA ABLOY is the global leader in door opening solutions,
dedicated to satisfying end-user needs for security, safety and convenience.