LOCK-TEC

The LOCK-TEC RTS Tube Gate Closer

The *INVISIBLE* Gate Closer

The LOCK-TEC RTS Tube Closer is virtually invisible due to the fact it is built into the gate. The joint can only be seen when the gate is opened.

The LOCK-TEC RTS Tube Closer is often used on **outside gates** such as garden gates, admission gates into industrial plants and admission control gates The gates do not generally have an overhead frame where the operating lever of a standard door closer could be fitted. Furthermore, the **concealed fitting** protects the gate closer from atmospheric conditions and **vandalism.**

The tube gate closer is particularly suitable for aluminium and steel gates and doors. It can also be fitted into the profile of an existing door. For wooden doors or gates with a minimum thickness of 40mm, special fitting plates can be supplied with the gate closer.

Due to its flexible abrasion proof plastic joint, the tube gate closer can be used with different hinges. However, the dimensions described on page **3** must be observed. Depending on the hinges, the doors/gates that the gate closer is fitted to could be opened to 180 degrees.

Technical Data

Material	steel
Door opening angle	90° - 180° depending on hinges
Door weight	up to 80 kg
Door height	up to 2500 mm
Width of door leaf	750 mm to 1150 mm
Types of doors	steel, aluminium
Closing speed	adjustable

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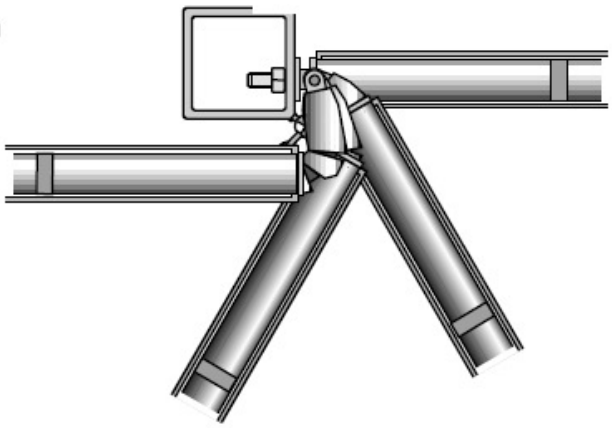
Operation



The LOCK-TEC RTS Tube Gate Closer is inserted into the door and connected to the counter plate (which is fixed to the frame) by an elastic joint with integrated steel ropes. When the gate is opened, the joint is pulled out and the closing spring is tensioned. The closing speed is controlled by the hydraulic damping cylinder in the middle of the closer. This closing speed is adjustable and therefore can be adapted to suit different requirements.

Installation Instructions

Fit the RTS Tube Gate Closer into the gate/door near one of the hinges if possible. With aluminium and steel doors, it is usually fitted into the profile of the door. When fitting into wooden doors already existing, we recommend you mill a recess into the top or bottom of the door where the closer will be placed, however, it is possible to fit the tube closer anywhere into a wooden door. Fix the front plate of the door closer to the door (with wooden doors sink the front plate into the door, with metal doors it may be necessary to provide re-enforcement plates with threaded inserts). Make sure that the long groove in the joint never points to the side of the door hinges (access to the adjusting screw).

Now fix the counter plate to the door frame at the same height and position as the door plate. Screw the self locking eyelet with thread into the counter plate. The asymmetric eyelet balances out small difference in height between the closer and the counter plate. The latch action can be adjusted by screwing the eyelet into the counter plate (latch action: eyelet enters about 15-17mm into the front tube of the RTS measured from the centre of the hole of the eyelet). **IMPORTANT** The thread of the eyelet has a special self locking coating which prevents the eyelet from turning any further 30 minutes after its installation into the counter plate.

Now connect the bronze alloy fork to the eyelet with a bolt and secure it with the snap ring. We recommend that you lubricate the bolt slightly as this prolongs its life considerably. Open the door/gate completely and remove the securing pin from the joint. The door is now ready for operation. Should you ever need to remove the closer or disconnect it from the counter plate, insert the securing pin back into the joint first!

Adjusting The Closing Speed

To adjust the closing speed, open the gate/door between 45-90 degrees and push the long arm of the hexagonal socket screw key into the inclined boring of the plastic joint until the key clicks into place. Turning clockwise will increase the damping (slower closing) while turning anti-clockwise will decrease the damping (faster closing).

The closing speed should be checked after each half turn (180 degrees) of the key.

IMPORTANT: When the slowest closing speed of the door has been reached (door almost stops), do not continue turning the adjusting screw clockwise as this will damage the closer.

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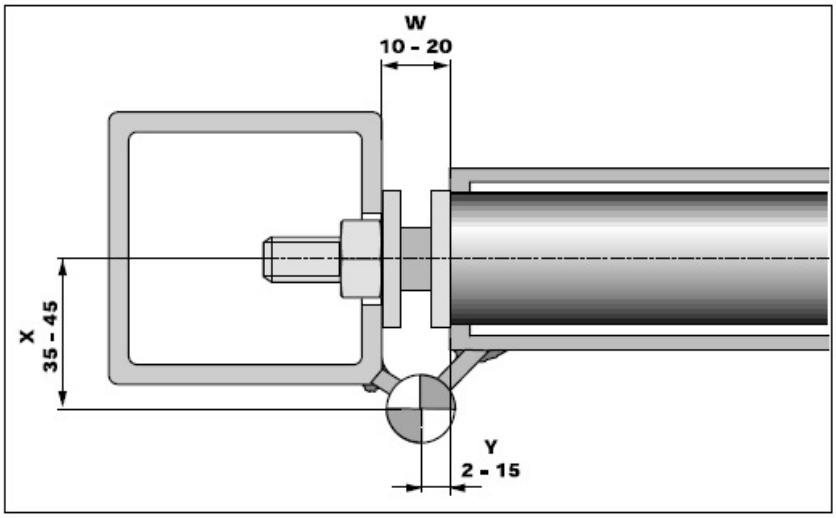
Installing the RTS Tube Doorcloser
Important Hinge Dimensions

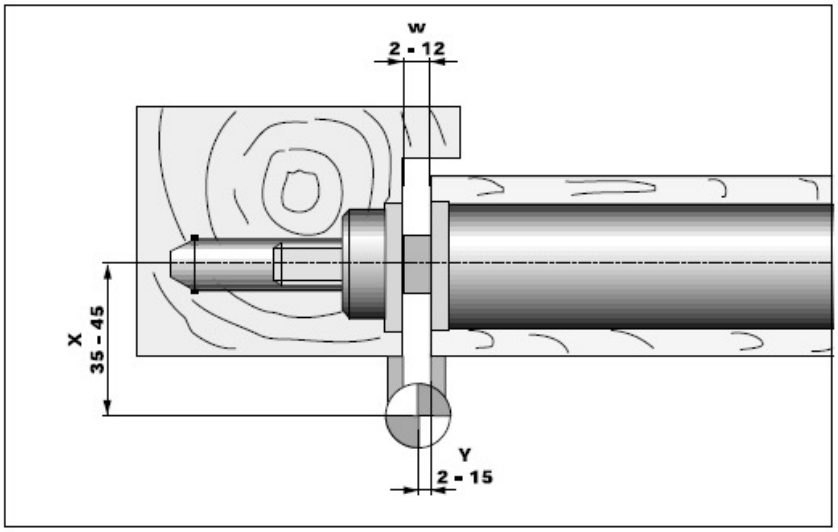
Installing in Aluminium and Steel Doors



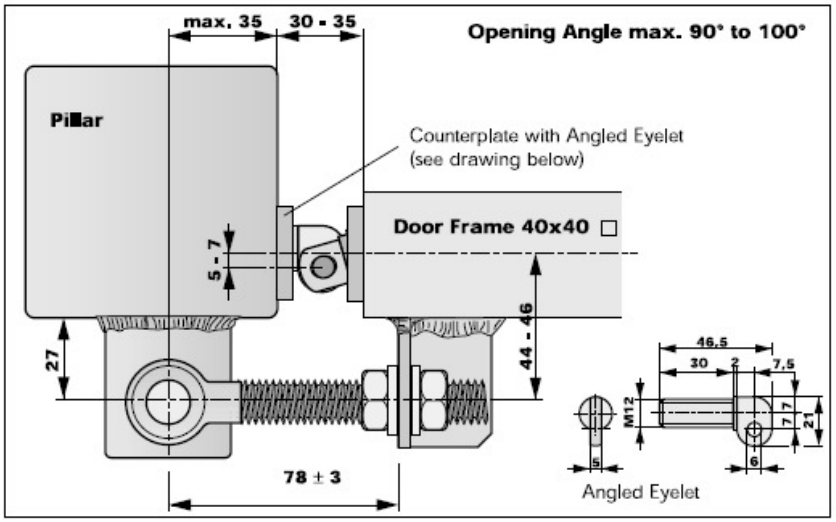
Warning:

Dimensions W, X and Y must be observed! Otherwise the opening angle, latch action and closing will be affected.
If you have any queries, please contact our Advisory Service.

Fitting to Flush Wooden Doors



Fitting to Access Doors and Gates in Fences with Screw-hinges (WARNING: Use Angled Eyelet!)



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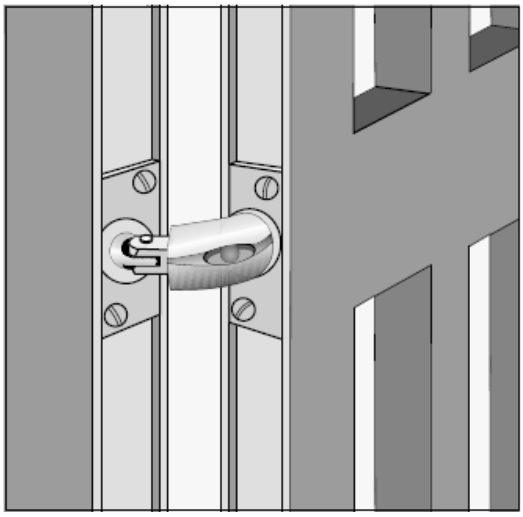
RTS Tube Doorcloser Range

The LOCK-TEC tube closer range is available with different fitting plates corresponding to the different types of doors and gates. Please find detailed information on the following pages. The opening angle of the table below indicates the maximum possible angle of opening. However, this can be smaller, depending on the door and its hinges (see dimensions for hinges on the preceding page).

The LOCK-TEC RTS tube closer can also be made shorter on request (length B = 600mm). However, the opening angle of this type is limited to 90 degrees and should only be used after consultation with our technical department.

Range	Part no.	Application	Opening Angle
RTS - d	400 520	for standard steel and aluminium doors	180°
RTS - t	400 525	for steel, aluminium and flush wooden doors; Fitted to the top (DIN left) or bottom (DIN right)	180°
RTS - u	400 526	for steel, aluminium and flush wooden doors; Fitted to the top (DIN right) or bottom (DIN left)	180°
RTS - v	400 527	for flush wooden doors; fitted in the middle of the door	180°
RTS - e	400 529	for steel and aluminium doors fitting plate corresponds to that of the GEZE ROR TS 450	180°
RTS - f	400 501	for flush wooden doors with wooden frame; doorcloser already fitted with Globus hinge	180°



RTS-D & RTS-E Tube Closers

RTS-D & RTS-E Tube closers are designed for steel and aluminium doors. Their front plate is fixed to the door using 2 x M8 screws. The only difference between the 2 closers is the position of their fixing holes on the front plate. Due to the fixing hole location, the RTS-e can be used to retrofit a GEZE ROR TS 450 closer.

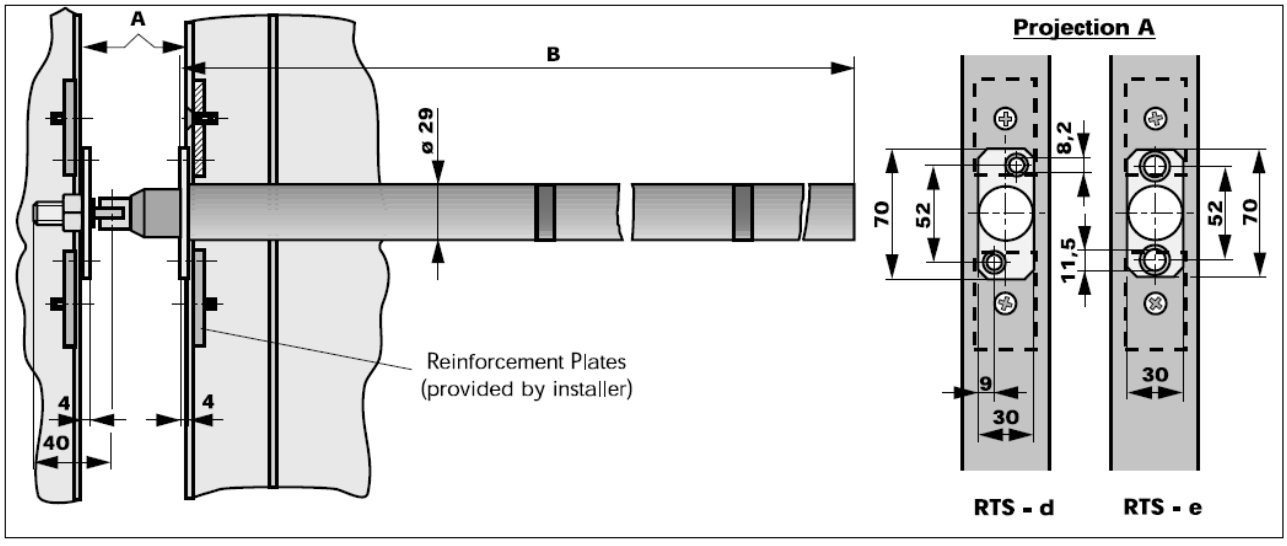
With aluminium doors, the closer is usually fitted into the bottom profile of the door. In steel doors it is fitted in either the top or bottom profile.

Technical Data

Model	400 520	400 529*
Length (dimension B)	734 mm	734mm
Opening angle	180^0 (max.)	180^0 (max.)
Width of door leaf	750 - 1150 mm	750 - 1150 mm
Height of door leaf	up to 2500 mm	up to 2500 mm
Weight of door leaf	up to 80 kg	up to 80 kg
Dimension X of hinges	35 - 45 mm	35 - 45 mm
Opening direction	both DIN right and DIN left	

*Front plates correspond with those of the GEZE ROR TS 450

Dimensions



Order Information

RTS-d Tube doorcloser	part number 400 520
RTS-e Tube doorcloser	part number 400 529

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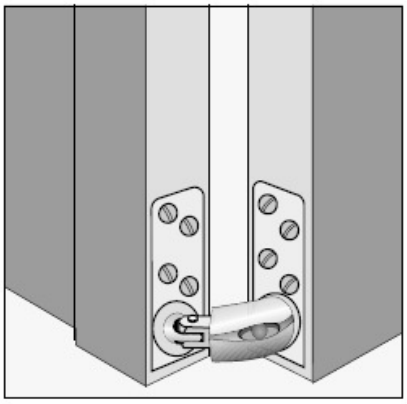
The LOCK-TEC RTS Tube Gate Closer
T & U Tube Closers



RTS-T & RTS-U Tube Closers

LOCK-TEC RTS–T and RTS–U tube closers are equipped with a single sided front plate. They are designed for fixing to either the top or the bottom of a door.

In steel doors the thread for the fixing screws can usually be cut directly into the door. Should this not be possible, threaded inserts need to be riveted to the door. With aluminium doors, re-enforcement plates should be inserted.

RTS-T and RTS-U tube closers only differ in the position of their adjustment grooves in the joint. It is therefore important when choosing RTS-T & RTS-U closers to observe the fitting position (at the top or bottom) and the DIN opening direction of the door.

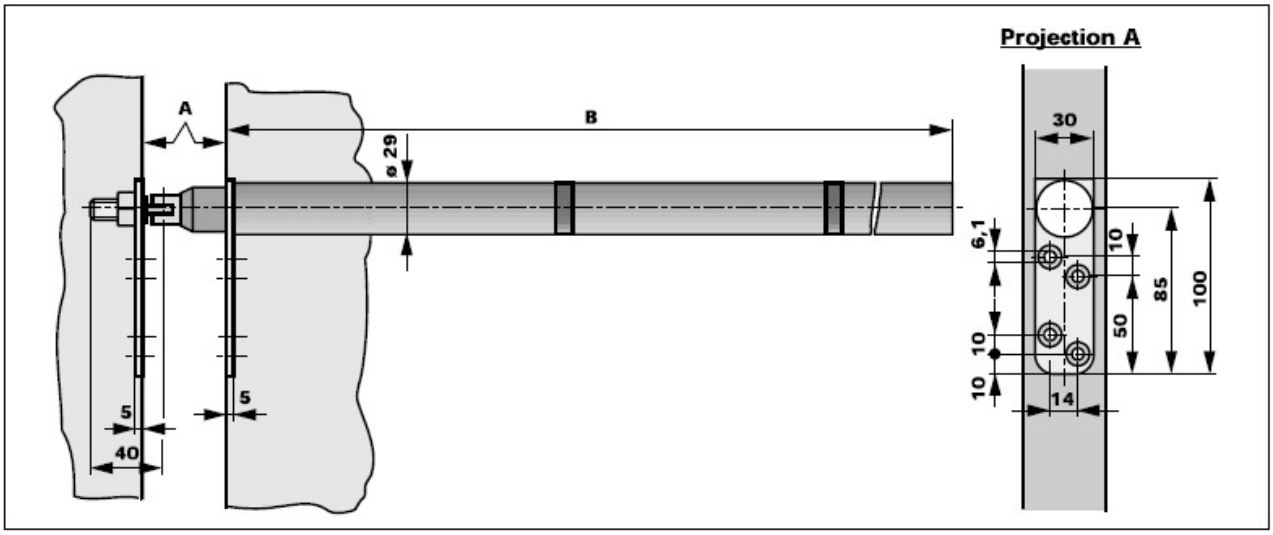
Technical Data

Models	400 525	400 526
Length (dimension B)	734 mm	734 mm
Opening angle	180° (max.)	180° (max.)
Width of door leaf	up to1150 mm	
Height of door leaf	up to 2500 mm	
Weight of door leaf	up to 80 kg	
Opening direction		
Fitted at top	DIN left	DIN right
Fitted at bottom	DIN right	DIN left

ATTENTION:

With wooden doors the door closer can only be fitted to flush doors!

Dimensions



Order Information

RTS - t Tube doorcloser	part no. 400 525
RTS - u Tube doorcloser	part no. 400 526

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No Slam Gate Closers

Maintenance Instructions

Regular maintenance is required to reduce the risk of premature failure of the No slam gate closers. The regularity of the maintenance is a variable according to the extremities of the application environment. Typically maintenance intervals would be quarterly depending upon the environment and frequency of use.

Maintenance checks

1) Maintain lubrication of end fixings & joints to both the gatepost & gate surface using lithium grease.

2) Ensure the closer remains in a horizontal position at all times.

3) Check to ensure all bracket fixings are secure.

4) Check that gate is moving in a consistent horizontal motion.

5) Check for damage to the closer or gate.

6) Lubricate the hinges of the gate

General Comments & Disclaimer

LOCK-TEC will accept no liability for any damage to the products whatsoever caused by incorrect fitting, vandalism, misuse or any incorrect assessment of the application.

Thorough assessment of each gate application is essential. Failure to foresee the possible opportunities for vandalism, misuse and environmental attack are likely to cause premature failure.

LOCK-TEC will accept no liability for any personal injury or damage to the closer occurring during the installation or use of this product. In purchasing this product, the purchaser accepts all responsibility for the installation, operation and maintenance of the product throughout its life cycle.