

### Door Closer Operation, Care and Maintenance



Boss door closers are highly developed, precision made, factory tested machines designed to meet the latest product performance standards. Once correctly installed, the unit should require no further maintenance, or adjustment, unless other factors change.

To ensure that the unit is operating safely, the door set should be checked every 3 months with the points below being observed.

#### **CHECK 1**

A door closer is designed to close a door safely and securely into the frame or to the central position in the of double action devices, after it has been opened manually.

Open the door and make sure it opens and closes freely and that the closing speed is acceptable (normally between 3 and 5 seconds from 90° open. If it is closing too quickly or slowly, please refer to the fitting instructions for closing speed adjustment.

If the door is not closing properly check for obstructions on the floor, round the frame including seals, and that the hinges are properly installed and undamaged. If a latch is fitted, but not being overcome by the door closer, make sure that the strike plate is in correct alignment and that the door can be closed without the latch being withdrawn by the handle.

If wind or air pressure is holding the door open, the closer power may need increasing or local conditions may require attention.

Make sure all the closer fixing screws and fittings are secure and tightened.

#### **CHECK 2**

If the door is a fire door, the closer must meet all of the relevant requirements of EN1154 and can only be held open with special devices which meet the requirements of EN1155 (door retaining magnets connected to the fire alarm system or similar devices). THE DOOR MUST NOT BE HELD OPEN BY ANY OTHER MEANS

#### **CHECK 3**

Special functions. Many Boss door controls have additional special functions such as adjustable backcheck and delayed action.

Backcheck will help to cushion the opening cycle of the door if it is opened too vigorously or if the wind catches it. If the door is susceptible to this, and there is scope for damage to the door or adjacent features, please ensure that the backcheck is correctly adjusted according to the installation instructions.

Delayed action gives the closer a slower closing speed when the door is opened to beyond 90° allowing slow moving traffic to pass through the door, once opened, without needing to hold the door open. For this function to be effective the door must be able to be opened to beyond 90°

Hold open is a mechanical feature either as part of a special arm, or as part of the mechanism in the case of a floor spring, which enable the door to be held open indefinitely, until it is manually pulled off the hold point.

With an overhead closer, this feature is adjustable, With the floor spring, the feature is set at 90°.

THIS FEATURE MUST NOT BE USED ON FIRE DOORS.

## **ABUSE OF DOOR CLOSER**

A door closer can be abused by incorrect installation and/or use. If the wrong closer is used on the wrong door it may not function correctly and result in damage to the mechanism and the door and surround.

If the closer is fitted in any of the following conditions, abuse may occur:

- strong wind or air pressure changes
- very high or low temperature conditions (above 40°C and below -15°C)
- areas where the mechanism or any component may be subject to inappropriate force or damage
- any other use for which the product is not designed or intended

If a door closer is damaged, it may result in further damage to the door and surround and be dangerous for those using it. It is essential for the closer to be replaced as soon as possible. If the closer is fitted to a fire door the whole building or area may be deemed to be unsafe until it is replaced.

## **GUIDE TO CLOSER SIZE SELECTION**

The chart below is taken from EN1154 and details the correct door closer power size for a given size of door.

EN Size	Maximum Door leaf width	Maximum door weight
1*	up to 750mm 9 Nm	20Kg
2*	from 750 to 850mm 13Nm	40Kg
3	from 850 to 950mm 18Nm	60Kg
4	from 950 to 1100mm 26Nm	80Kg
5	from 1100 to 1250mm 37Nm	100Kg
6	from 1250 to 1400mm 54Nm	120Kg
7	from 1400 to 1600mm 87Nm	160Kg

\* a closer of less than power size 3 is not considered suitable for use on fire doors

**Under no circumstances should you attempt to open the mechanism of the door closer. There is a powerful spring under tension inside the unit which could cause injury if the mechanism is opened.**

Should you require further help, please do not hesitate to contact us at the address below.

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