

# **ABLOY® DOOR CLOSERS**

*Excactly the right choice*





## *Superior performance and reliability*

**ABLOY®** high security products are known and highly respected all over the world.

Every item in our wide product range represents top quality and superior performance.

**ABLOY®** door closers protect door constructions by controlling the opening and closing actions of the door. Reliable performance over a wide operational temperature range guarantees that energy will be saved and security increased.

Production of **ABLOY®** door closers started in the 1930s. Today, we exploit the high quality and advanced technology in our purpose-built production

facilities. Our long experience and extensive expertise combined with customer-oriented research and development mean that we have a wide range of solutions for the varying demands of different door environments.

Our global network of sales offices and distributors will help you to choose right products to increase security and convenience in your specific application. The functions, features, and wide variety of installation alternatives offered by **ABLOY®** door closers give you convenient operation, simplified installation and ease of adjustment and maintenance.





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## COLOURS AVAILABLE

### PLASTIC COVERS

White (RAL 9010)  
Silver (RAL 9006)  
Brass  
Brown (RAL 8014)  
Black (RAL 9005)



### METAL COVERS

Stainless steel  
Bright brass



Note: **ABLOY® DC270** is available only with metal cover. Colours white, brass, silver and stainless steel.

# OPERATION OF DOOR CLOSERS

## OPERATION

Operation is based on a hydraulically controlled rack and pinion or CAM-action mechanism (DC330, DC250). Within the closer there is oil to control the closing and latching speeds and delayed closing and back check features. The adjustable valves enable the adjustment of the speeds and features.

Opening a door, the spring inside the closer is becoming tense. When door is released the potential of the spring push the piston back and door closes. Pressure relief valves are standard feature (excluding DC210 and DC215) to protect the door from abuse and ensure reliable operation in demanding conditions.

## ADJUSTMENT (C- AND L-VALVE)

Closing speed (Valve C):

The closing speed can be adjusted 180 - 15 degrees (DC330 and DC250 170 - 7 degrees).

Latching speed (Valve L): The latching speed can be adjusted 15 - 0 degrees (DC330 and DC250 7-0 degrees).

## BACK CHECK (BC)

A brake affects door movement from 70°-80° to fully open (180°) and protects the door by preventing it from being pulled open by the wind. This feature can be adjusted by selecting the desired arm position. Adjustment by using valve B. Recommended for use with external doors.

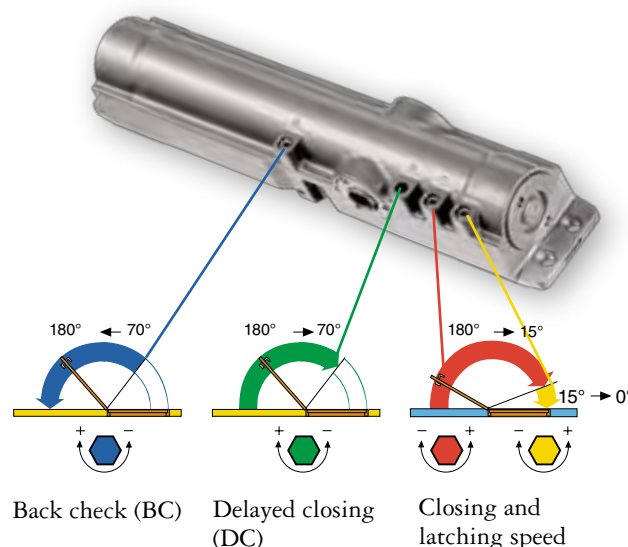
## DELAYED CLOSING (DC)

Delayed closing slows down the movement of the door from fully open (180°) to approximately 70°, after passing this point the door closes at normal speed. The starting angle can be adjusted by selecting desired arm position. Closing speed can be adjusted by adjustable valve D. Adjustable valve enables the adjustment of closing speed. Recommended for internal doors.

## ADJUSTABLE CLOSING FORCE

**ABLOY®** DC334, DC335, DC240, DC247, DC250, DC330, DC270 door closers are equipped with adjustable spring power which ensures the presetting of spring.

Due to adjustable spring power, the same door closer can be used in various applications.

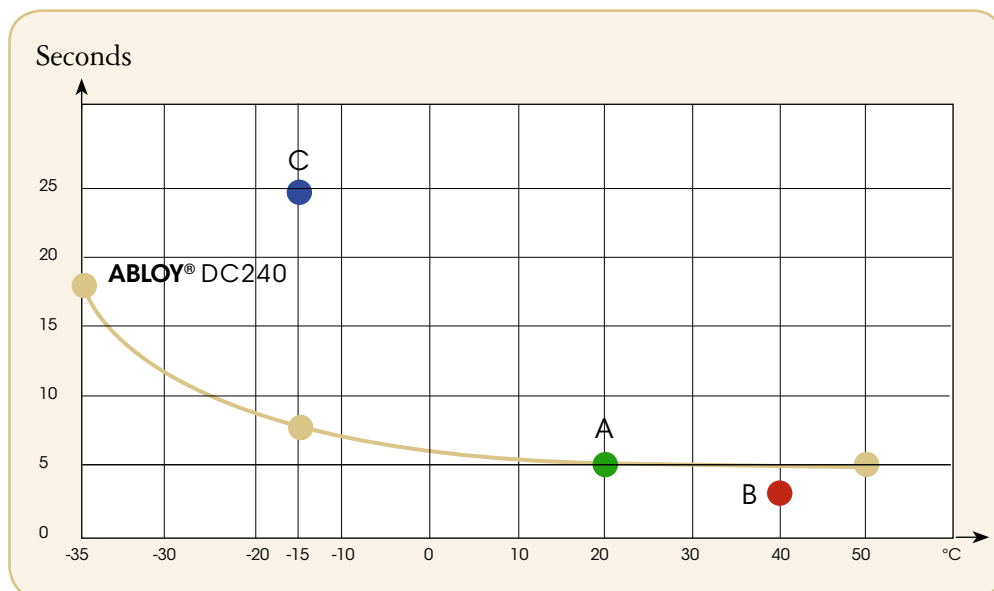


# FUNCTION OF TEMPERATURE

## CLOSING TIME AS A FUNCTION OF TEMPERATURE

Changes in temperature have only a minimal effect on the performance of **ABLOY®** door closers.

**ABLOY®** DC240 guarantee constant closing speed in every situation. High quality hydraulic oil and patented valve systems have already earned this product a legendary reputation.

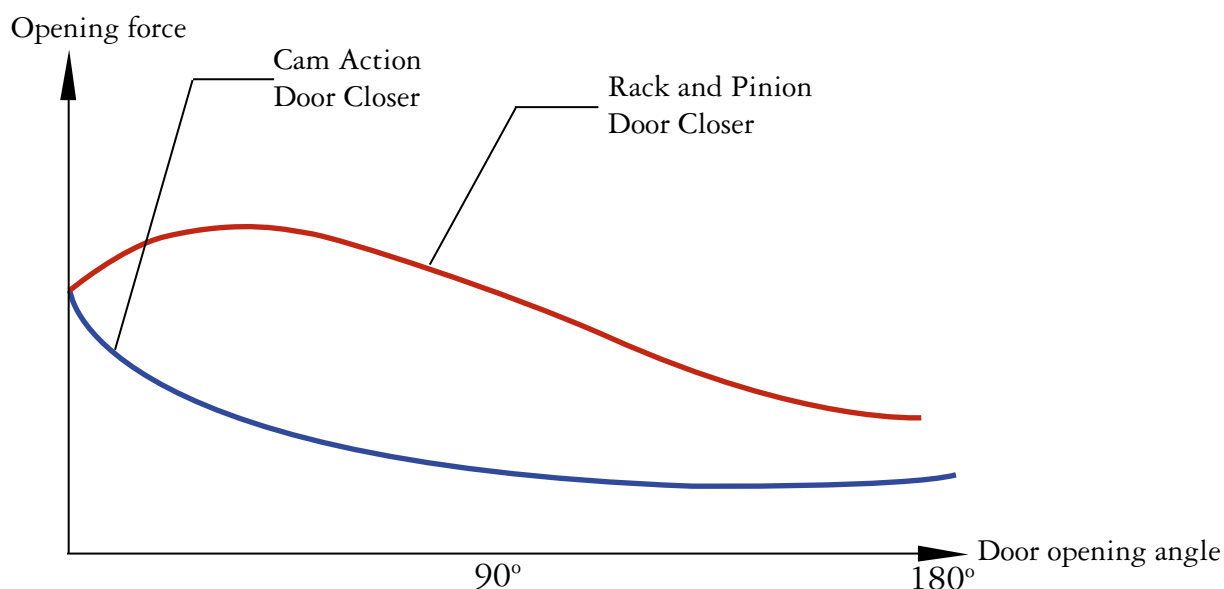


Changes in temperature have only a minimal effect on the performance of **ABLOY®** door closers and adjusted features. **ABLOY®** door closer exceeds standards demands for temperature area.

The EN1154 standard specifies the following:

- A A standard closing time of 5 seconds at +20 °C
- B A minimum closing time of 3 seconds at +40 °C (check point only)
- C A maximum closing time of 25 seconds at -15 °C (check point only)

## DOOR OPENING FORCE WITH SLIDING ARM





# ABLOY® DC330 DOOR CLOSER



## ABLOY® DC330

Non-handed cam action door closer. Thanks to CAM it is light to open but still strong enough to close the door in every situation. **ABLOY® DC330** can be adjusted to meet the requirements of the light opening resistance, for example the DDA (Disability Discrimination Act) in UK. Suitable for external and internal doors. The Maximum door weight 80 kg and door leaf width 1100 mm with a sliding arm installation.

### FEATURES

- CE certified with the sliding arm
- Adjustable closing force size EN 1-4 with the sliding arm according EN1154
- Separate adjusting valves for closing and latching speed
- Wide operating temperature range: -15°C...+45°C
- Adjustable latching starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Pressure relief valve to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy

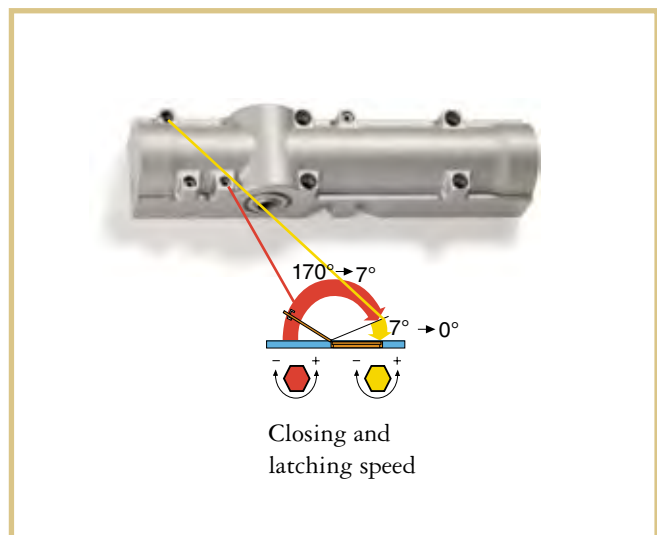
### When ordering, please specify

- Door closer model and colour e.g. DC330 (silver)
- Quantity
- Arm type and colour e.g. DC193 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC130.

## DIMENSIONS



## ADJUSTMENT



# ABLOY® DC250 DOOR CLOSER

## ABLOY® DC250

**ABLOY® DC250** is non handed cam action door closer and therefore very easy to install. Thanks to the cam construction it is extremely light to open, yet in terms of closing force strong enough for heavy duty applications. Suitable for external and internal doors. For use with **ABLOY® FD460** series fire door closing systems. Maximum door weight 120 kg and door leaf width 1400 mm with sliding arm installation.

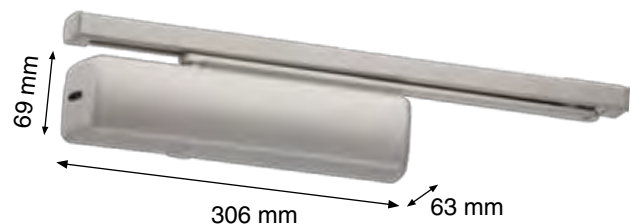
### FEATURES

- CE certified with sliding arm
- Adjustable closing force size EN 1-6 with sliding arm according EN1154
- Separate adjusting valves for closing and latching speed
- Back check (BC) as a standard feature
- Delayed closing (DC) as an option
- Wide operating temperature range: -15°C...+45°C
- Adjustable latching and back check starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Two pressure relief valves to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy

When ordering, please specify

- Door closer model and colour e.g. DC250 (silver)
- Quantity
- Arm type and colour e.g. DC193 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC106.

## DIMENSIONS



## ADJUSTMENT

