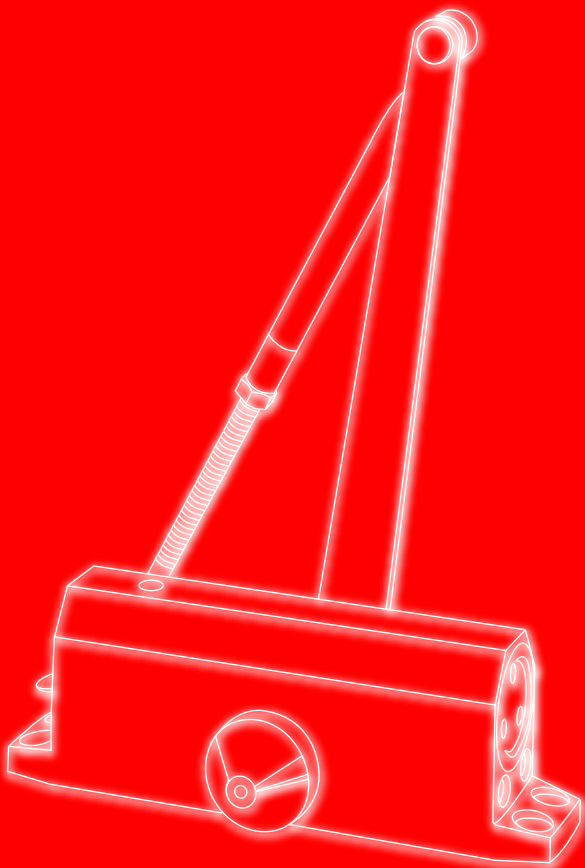


## ■ *Door Control* ■



## Introduction

**KEYline** door closers are used to suit various residential and commercial applications. By definition, door closers are used to close hinged leaf doors after they have been manually operated. The smooth closing operation is controlled by the adjustable hydraulic rack and pinion mechanism.

In choosing a closer style for a particular application consideration should be given to the type of door being controlled, frame condition, aesthetic and the control features required by the end user.

The size and weight of the door is the main consideration in selecting a closer of the correct strength. Recommended door widths for each closer assume normal operating conditions. If a door is of exceptional height, weight, special construction, or if air pressure differentials exist, a higher power closer should be considered.

A door closer effectively increases the loading on door hinges and their rate of wear. It is recommended that any door fitted with a door closer should use three or more ball bearing hinges.

It is essential that the door be clear in the door frame and when fitted with a lock the latch bolt must engage freely with the strike.

Floor or wall mounted door stops should be fitted to prevent possible damage to the door frame and fitted hardware.

## DC1300 Series Door Closer

The 1300 series door closers have been designed for usage where economy and ease of installation are the absolute requirements. The closers are smaller in size and have efficient mechanisms giving a powerful performance.



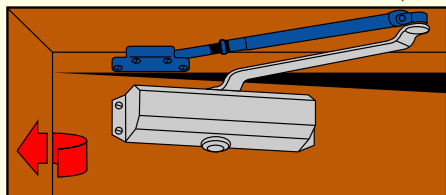
### Door Closer Selection Chart

Cat. No	Regular Arm		Parallel Arm		Door Weight (Kg)
	Interior Door	Exterior Door	Interior Door	Exterior Door	
1302	900	800	800	700	25-45
1303	1050	900	900	800	40-60
1304	1200	1050	1050	900	55-75

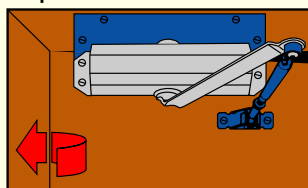
Maximum door width dimension in mm.

### Door Closer Applications

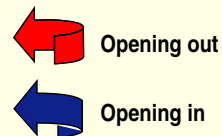
**Parallel Arm Installation** Bracket No. DC1300-P/A



**Drop Bracket Installation** DC1300-D/A

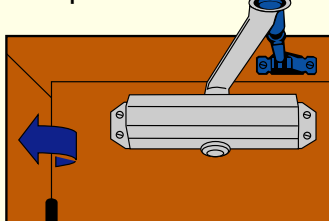


\* Order accessory as separate item  
\* Nominate finish as required

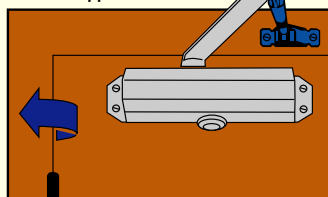


Installation on Frame (on door)

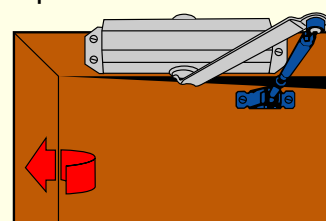
**Hold Open Installation**



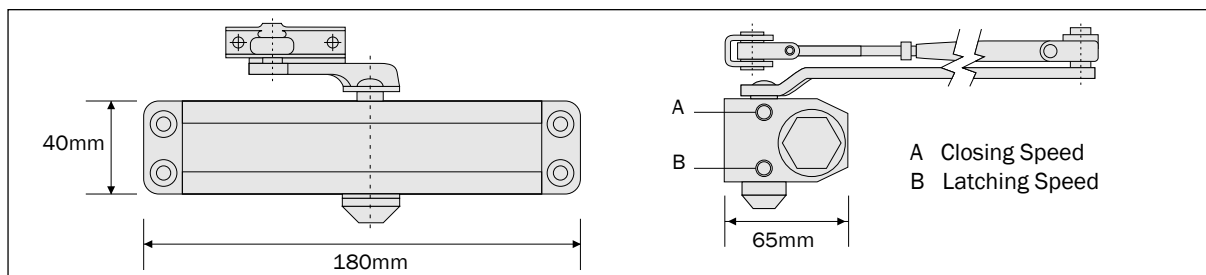
**Regular Arm Installation**  
Bracket supplied as standard



**Top Jamb Installation**



### Technical Data – Limiting Dimensions



#### A Closing Speed

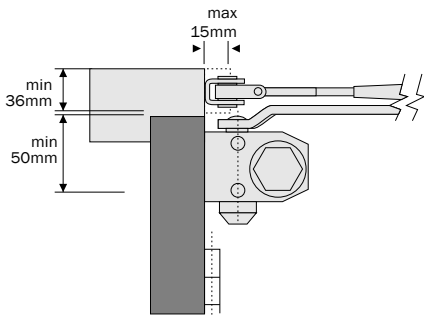
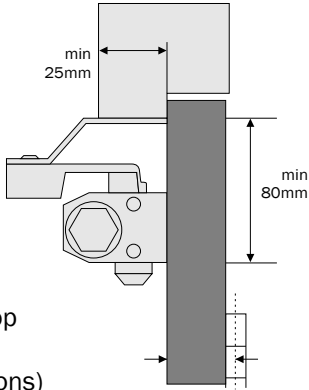
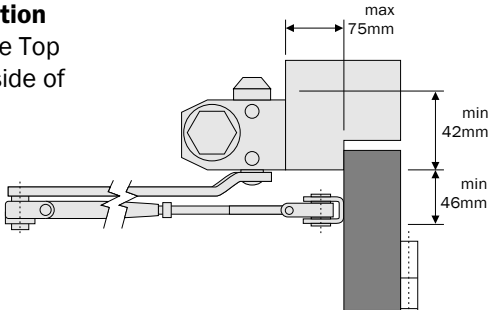
Captive valve is conveniently located on the end of the door closer to control the closing speed.

#### B Latching Speed

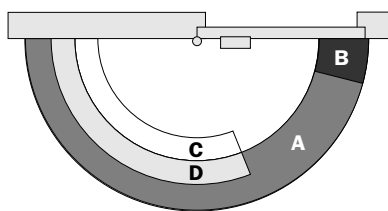
A separate adjustment valve to accelerate or decelerate the door to ensure positive latching.

## DC1300 Series Door Closer

### Mounting Details

<p><b>Regular Arm Installation</b> Closer is fixed to the pull (hinge) side of the door.</p> 	<p><b>Parallel Arm Installation</b> Closer is fixed to the push (opposite to hinge) side of the door. Parallel arm application, using a cranked arm assembly overcomes the requirement for a drop plate in most cases. (refer above dimensions)</p> 
<p><b>Top Jamb Installation</b> Closer is fixed to the Top Jamb pull (hinge) side of the door.</p> 	

### Adjustment Details



<b>A</b>	Closing Range	15° - 180°
<b>B</b>	Latching Range	0° - 15°
<b>C</b>	Back Check Range	70° - 180°
<b>D</b>	Hold Open Range	70° - 180°

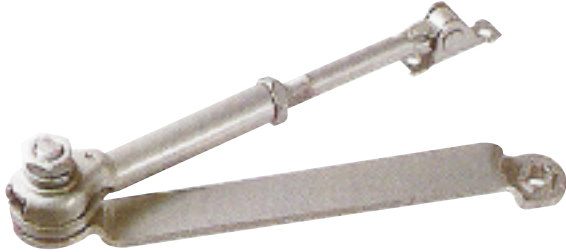
### Mechanism & Case

High pressure diecast aluminium body, rack and pinion hydraulic controlled piston door closer. Reversible for left-hand and right-hand doors.

### Ordering Procedure

Cat. No	Description Fixed Strength	Finish
DC1302	Universal Size 2 Door Closer	SIL
DC1303	Universal Size 3 Door Closer	SIL
DC1303BC	Size 3 Door Closer with backcheck	SIL
DC1304	Universal Size 4 Door Closer	SIL

## Accessories to suit 1300 Series Door Closer



DC1300-H/A



DC1300-P/A

Cat. No	Description	Finish
DC1300-H/A	Hold Open Arm	SIL
DC1300-P/A	Parallel Arm Bracket	SIL
DC1300-D/A	Drop Bracket	SIL

## DC250 Door Selector

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Cat. No	Description	Finish
DC250SS	Door Selector 250mm	SSS
DC-SPSS	Slide Plate	SSS

## DC1500 Series Door Closer

The 1500 series door closers are a power adjustable by position surface mounted hydraulic door closer. Applications include regular arm, parallel arm, top jamb, track arm, delayed action and adjustable backcheck function.



with cover

### Door Closer Selection Chart

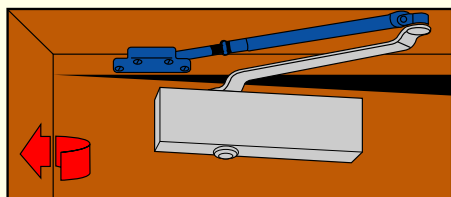
Cat. No	Regular Arm/Top Jamb			Parallel Arm/Tack Arm			Door Weight (Kg)
	Interior Door	Exterior Door Swing Out	Swing In	Interior Door	Exterior Door Swing Out	Swing In	
2	900	800	700	800	700	600	25-45
3	1050	900	800	900	800	700	40-60
4	1200	1050	900	1050	900	800	55-80

Maximum door width dimension in mm.

### Door Closer Applications

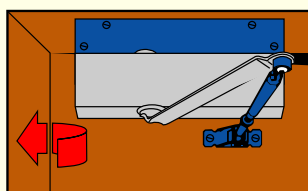
#### Parallel Arm Installation

Additional bracket required. Bracket No. DC1500-P/A



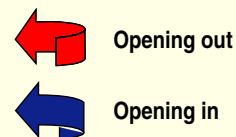
#### Drop Bracket Installation

For installation on frame (or door) when direct fixing of closer is not possible. Additional bracket required. Bracket No DC1500-D/A



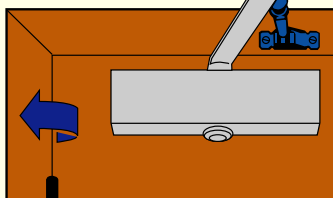
Installation on Frame (on door)

- \* Order accessory as separate item
- \* Nominate finish as required

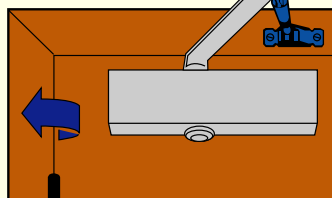


#### Hold Open Installation

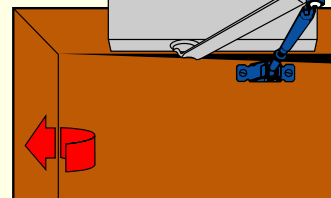
Arm No. DC1500-H/A



#### Regular Arm Installation

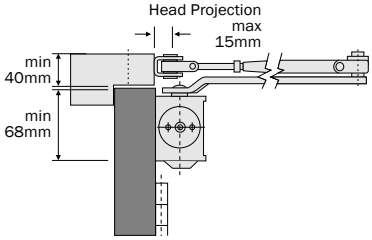
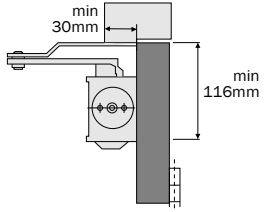
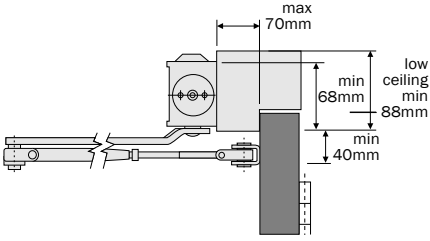
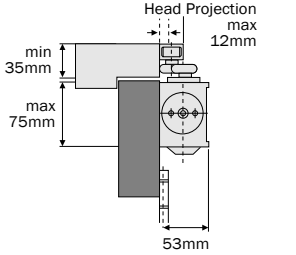
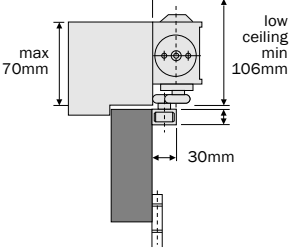


#### Top Jamb Installation

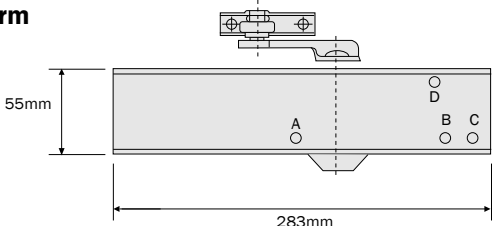
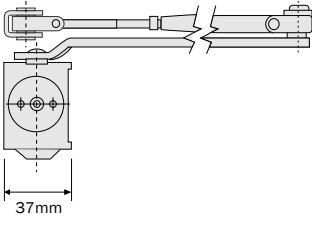
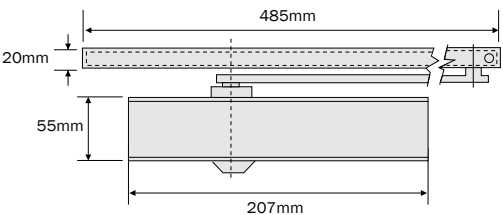


## DC1500 Series Door Closer

### Mounting Details

<p><b>Regular Arm Installation</b> Closer is fixed to the pull (hinge) side of the door.</p> 	<p><b>Parallel Arm Installation</b> Closer is fixed to the push (opposite to hinge) side of the door.</p> 
<p><b>Top Jamb Installation</b> Closer is fixed to the Top Jamb on the push (opposite hinge) side of the door.</p> 	
<p><b>Regular Arm Installation</b> Closer is fixed to the pull (hinge) side of the door.</p> 	<p><b>Top Jamb Track Arm Installation</b> Closer is fixed to the pull (hinge) side of the door.</p> 

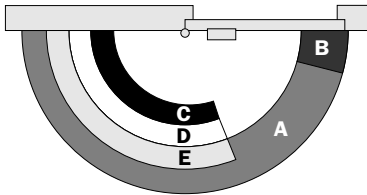
### Limiting Dimensions

<p><b>Regular Arm</b></p> 	
<p><b>Track Arm</b></p> 	<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><b>A.</b> Backcheck</li> <li><b>B.</b> Closing Speed</li> <li><b>C.</b> Latching Speed</li> <li><b>D.</b> Delayed Action</li> </ul>

**Note :** Specification of track arm and parallel arm applications should consider the single strength reduction in power.

## DC1500 Series Door Closer

### Adjustment Details



<b>A</b>	Closing Range	15° - 180°
<b>B</b>	Latching Range	0° - 15°
<b>C</b>	Back Check Range	70° - 180°
<b>D</b>	Hold Open Range	70° - 180°
<b>E</b>	Hold Open Range	70° - 180°

#### A. Backcheck

Adjustable backcheck provides cushioning effect on opening to give protection to the door and fittings.

#### B. Closing Speed

Captive valve is conveniently located on the face of the door closer to control closing speed.

#### C. Latching speed

A separate adjustment valve to accelerate or decelerate the door to ensure positive latching.

#### D. Delayed Action

Delays the closing action of the door to allow slow moving traffic to pass.

### Mechanism & Case

High pressure diecast aluminium body, rack and pinion hydraulic controlled piston door closer. Reversible for left-hand and right-hand doors.

### Ordering Procedure

Cat. No	Description Fixed Strength	Finish
DC1500	Door Closer Adj (2-4)	SIL/SSS
DC1500BC	Door Closer Adj (2-4) with backcheck	SIL/SSS
DC1500DA	Door Closer Adj (2-4) with delayed action	SIL/SSS

### Accessories to suit 1500 Series Door Closer



DC1500-H/A



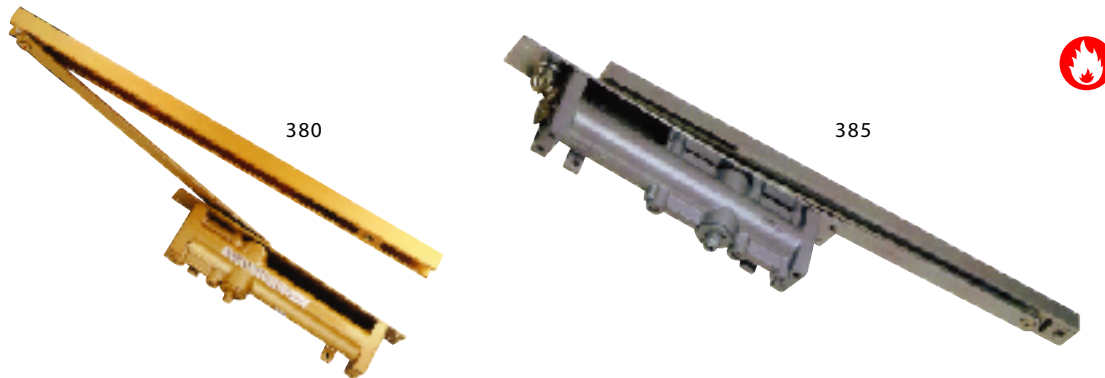
DC1500-P/A

Cat. No	Description	Finish
DC1500-H/A	Hold Open Arm	SIL
DC1500-P/A	Parallel Arm Bracket	SIL
DC1500-T/A	Track Arm	SIL
DC1500-C	Cover	SSS



## DC380 & 385 Series Concealed Door Closer

380 & 385 Series concealed door closer is ideal for doors where an uncluttered look or the clean lines of the door and finish are required to be seen. It is completely concealed when the door is closed and all that is visible are the clean lines and features of the door.



### Data and Features

		380	385
Variable closing force	Spring strenght(EN)	1,2,3	2 to 4
Standard doors	750mm 36kg	381	x
	850mm 70kg	382	385
	950mm 105kg	383	385
	1100mm 150kg	x	385
Body dimensions(mm)	Lenght	230	255
	Width	56	61
	Thick	32	37
Arm	Standard	x	x
	Parallel	x	x
	Track (standard)	✓	✓
	Track (hold-open)	✓	✓
Rack and pinion		✓	✓
Power shoe arm bracket		x	x
Angle of opening		120°	120°
Power adjustable by spring		x	✓
Power adjustable by position		x	x
Swep speed adjustable		✓	✓
Latching speed adjustable		✓	✓
Hold-open	Built in	x	x
	Hold open arm	x	x
Back-check	Self-regulating	x	○
	Adjustable at valve	x	○
Delayed action adjustable		x	x
Non-handed		✓	✓
Application	Regular (1)	x	x
	Parallel arm (66)	○	○
	Transom (61)	✓	✓
Gurantee/years		5 years	5 years