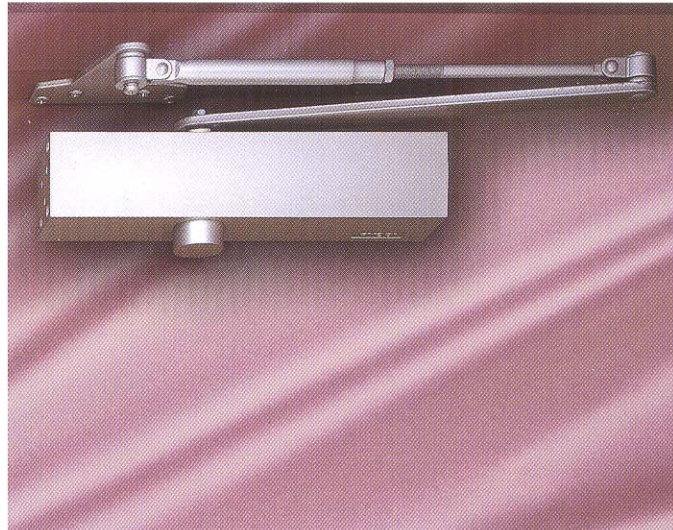


100SERIES



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100SERIES



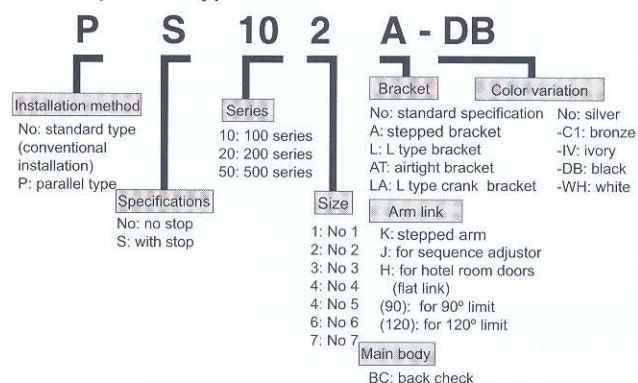
List of Types

Standard Specifications

Standard type (P12, 13)		Parallel type (P 14, 15)		Applicable door	
With no stop	with stop	With no stop	With stop	Width ×height (mm)	Weight (kg)
101	S 101	P 101	PS 101	800×1800	15~ 30
102	S 102	P 102	PS 102	900×2100	25~ 45
103	S 103	P 103	PS 103	950×2100	40~ 65
104	S 104	P 104	PS 104	1050×2400	60~ 85
105	S 105	P 105	PS 105	1200×2400	80~120
106	S 106	P 106	PS 106	1500×2700	100~140
107		P 107		2000×3000	250below

- All types are used for left and right directions.
- When the machine type is determined, the applicable door's width should be given priority.
- The main body of standard type differs from that of parallel type.
- For the locations confronting with strong winds, please use the type 1 size bigger than the abovementioned type.
- The products ranging from 1st to 3rd size without back check are all-season products.
- The items from 4th to 7th size are fitted with back check (refer to P 7).

List of product types



- Please apply the left table to the general type and simple airtight type : steel door
- Please use () for simple airtight type : light steel door
- Please use it when the door rotating resistance of 102 type is below 1N.m, 103 type below 2N.m
- Please use 103 type for 180° opening of light door, or in airtight case.

List of Machine Types for Public Construction Work "Standard Construction Appliances"

	Applicable Door DW (mm)	Standard type		Parallel type	
		With no stop	With stop	With no stop	With stop
Light steel door	900	102	S 102	P 102	PS 102
	950	102 (103)	S 102 (S 103)	P 102 (P 103)	PS 102 (PS 103)
Steel door	900	102	S 102	P 102	PS 102
	950	103	S 103	P 103	PS 103

Back Check Option Equipping Specifications

Standard type (P 12)		Parallel type (P 14)		Applicable door	
With no stop	With stop	With no stop	With stop	Width ×height (mm)	Weight (kg)
102 BC	S 102 BC	P 102 BC	PS 102 BC	900×2100	25~45
103 BC	S 103 BC	P 103 BC	PS 103 BC	950×2100	40~65

100V Type

Standard type (P 16)		Parallel type (P 16)		Applicable door	
With no stop	With stop	With no stop	With stop	Width ×height (mm)	Weight (kg)
100 V	S 100 V	P 100 V	PS 100 V	900×2100 ~1200×2400	25~250

- For 100 V type, besides the torque adjustment function (refer to P 8), delayed action function (refer to P 8) and back check function (refer to P 7) are available in its standard kit.

Parallel Type Special Installation

L type bracket (P 17)		A type bracket (P 17)		A type bracket stepped arm (K type) installation (P 18)		Standard type bracket stepped arm (K type) installation (P 19)		Applicable door	
With no stop	with stop	With no stop	with stop	With no stop	with stop	With no stop	with stop	Width×height (mm)	Weight (kg)
P 102 L	PS 102 L	P 102 A	PS 102 A	P 102 AK	PS 102 AK	P 102 K	PS 102 K	900×2100	25~45
P 103 L	PS 103 L	P 103 A	PS 103 A	P 103 AK	PS 103 AK	P 103 K	PS 103 K	950×2100	40~65
				P 104 AK	PS 104 AK	P 104 K	PS 104 K	1050×2400	60~85

Open Angle Limit Installation Specifications

90° limit				Applicable door	
Standard type (P 22)		Parallel type (P 23)		Width×height (mm)	Weight (kg)
With no stop	With stop	With no stop	With stop		
101(90)	S 101(90)	P 101(90)	PS 101(90)	800×1800	15~30
102(90)	S 102(90)	P 102(90)	PS 102(90)	900×2100	25~45
103(90)	S 103(90)	P 103(90)	PS 103(90)	950×2100	40~65
104(90)	S 104(90)	P 104(90)	PS 104(90)	1050×2400	60~85
105(90)	S 105(90)	P 105(90)	PS 105(90)	1200×2400	80~120

120° limit				Applicable door	
Standard type (P 24)		Parallel type (P 25)		Width×height (mm)	Weight (kg)
With no stop	With stop	With no stop	With stop		
102(120)	S 102(120)	P 102(120)	PS 102(120)	900×2100	25~ 45
103(120)	S 103(120)	P 103(120)	PS 103(120)	950×2100	40~ 65
104(120)	S 104(120)	P 104(120)	PS 104(120)	1050×2400	60~ 85
105(120)	S 105(120)	P 105(120)	PS 105(120)	1200×2400	80~120

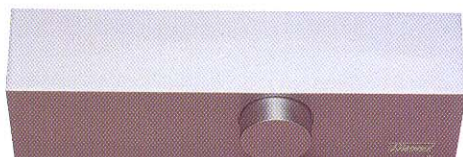
Special Installation Specifications

Temperature fuse synchronization type		Parallel type for airtight door (P 26)		Parallel type 90°limit for airtight door (P 27)		Applicable door	
Standard type (P 20)	Parallel type (P 21)	With no stop	With stop	With no stop	With stop	Width×height (mm)	Weight (kg)
		P 101 AT	PS 101 AT			800×1800	15~30
F 102	PF 102	P 102 AT	PS 102 AT	P 102 AT(90)	PS 102 AT(90)	900×2100	25~45
F 103	PF 103	P 103 AT	PS 103 AT	P 103 AT(90)	PS 103 AT(90)	950×2100	40~65
F 104	PF 104	P 104 AT	PS 104 AT	P 104 AT(90)	PS 104 AT(90)	1050×2400	60~85
F 105	PF 105	P 105 AT	PS 105 AT	P 105 AT(90)	PS 105 AT(90)	1200×2400	80~120

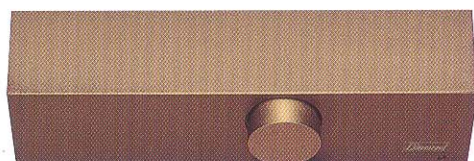
For screen door		Flat link specifications		With door selector type(P 32)	Applicable door	
Parallel type (P 28)	Track rail specific -ation (P 29)	With no stop (P 30)	With no stop Mat -ching 15mm cros -spiece (P 31)	Parallel type (with no stop)	Width×height (mm)	Weight (kg)
PS 101 AM		101 H	101 H(15)	P 101 J	800×1800	15~ 30
PS 102 AM	PS 102 BCT	102 H	102 H(15)	P 102 J	900×2100	25~ 45
		103 H	103 H(15)		950×2100	40~ 65
		104 H	104 H(15)		1050×2400	60~ 85
		105 H	105 H(15)		1200×2400	80~120

100SERIES

Color Variation



Silver



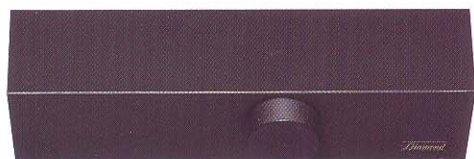
Metallic bronze
C1



White
WH



Ivory
IV



Black
DB

Color	Mark	Size 2	Size 1, 3, 4 Size 5, 6, 7	L type, A type bracket, other special specification
Silver	No	Standard color		
Metallic bronze	C1	Standard color	Semi standard color	
White	WH	Standard color	Semi standard color	
Ivory	IV	Semi standard color		
Black	DB	Semi standard color		

•Standard color

Some samples are in stock at our corporation's sales shops, a certain number of goods are prepared in the factory, we are waiting for your orders.

•Semi standard color

The products can be manufactured after an order is given. As to the delivery date, please contact the nearest shop.

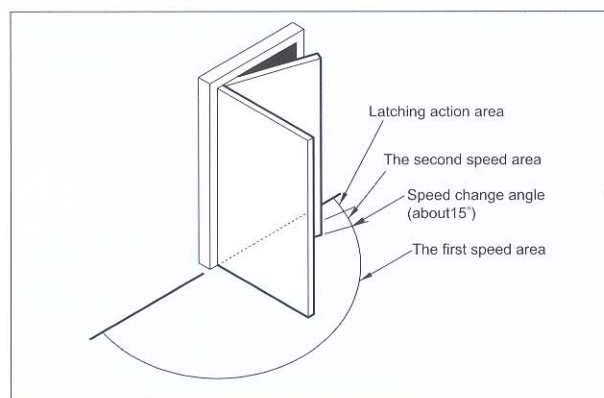
•Attention

Please acknowledge that the color and luster of them may differ slightly from that of real objects due to printing reasons.

Specifications and Adjustment Method

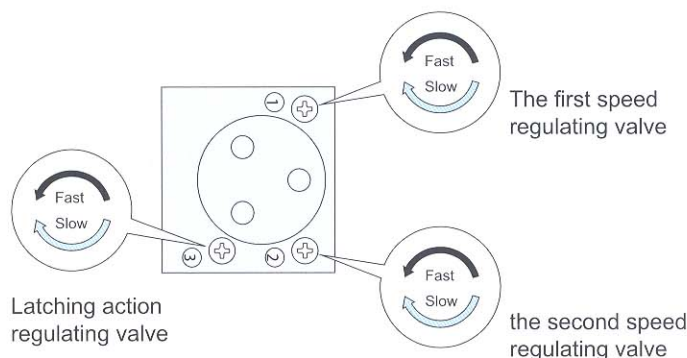
Speed adjustment area

- There are two speed phases in the door's closing speed.
- The first speed phase is to control the entire door-closing speed, while the second speed phase is to control the speed at closing moment.
- The first and second speed phases are controlled independently by different speed regulating valves, and any speed can be adjusted. (Usually, it takes 5 to 8 seconds for the door to fully close from 90° open angle.)
- The first speed is like a broomstick sweeping.
- The second speed is to push the door into the doorframe. It can be sped or slowed by the firmness of the latch. (Please set the second speed to be a bit slower than the first speed.)

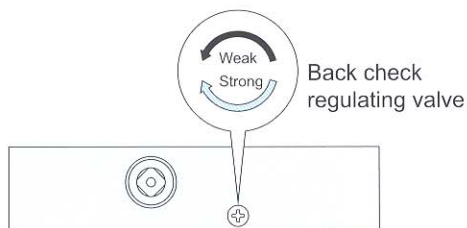
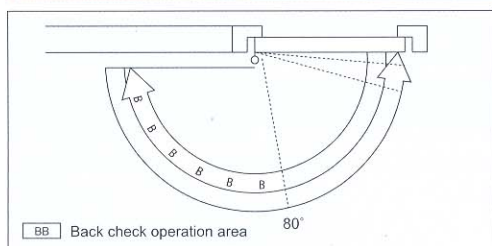


Latching action

- When the door comes to 2° ahead of its closing position, this function is to shut the door nimbly. It works effectively on airtight door or the door with electric lock, the door can be shut more steadfastly.
- Please put it in full-close state by fastening the regulating valve when it is not needed. (Please fully shut it when goods are delivered from factory.)
- Latching action is not slower than the second speed.



Back Check Function



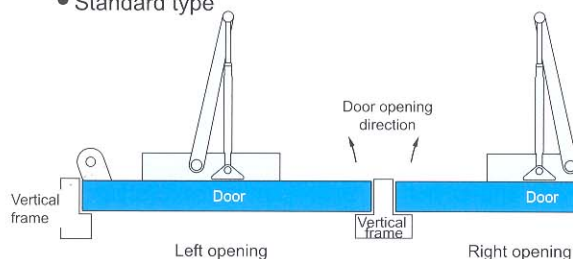
- The function is to control rude opening of door caused by strong winds.
- In high buildings or other places confronting with strong winds, please use it selectively according to door's usage conditions.
- If the door is opened abruptly by strong winds or harsh behaviors, it can prevent human injury or door damages from happening.
- It works within 80°- 180° door open angle.
- When it is in operation, the door becomes heavy, which is not a trouble. The door can open if it is pushed slowly.
- The back check force can be adjusted by turning the lower or upper regulating valve.
- When the door closer with back check function is to be installed, please reinforce the hinging metal fittings and back board for installation.
- In the 1 size, back check function is not fitted.
- From 4 to 7 size, all are fitted with back check functions.

Door Closer's Installation Method and Installation Conditions

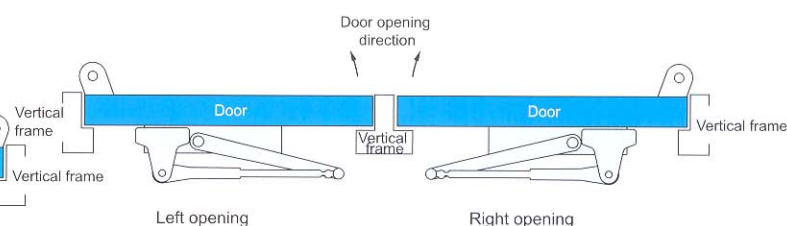
Door's Opening Directions and Installation Method

- When pushed, the door opens from right side, it is referred to as right-opening, if the door opens from the left side, it is left-opening.
- The standard type is installed in the door-opening side, while the parallel type is installed in the opposite to door-opening side.

• Standard type



• Parallel type

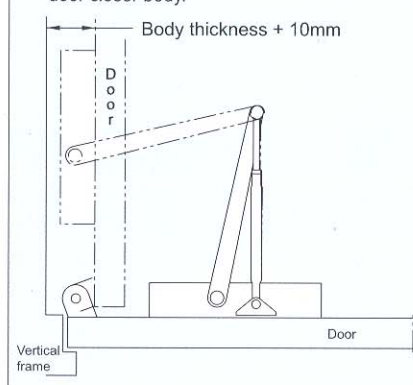


Installation Conditions

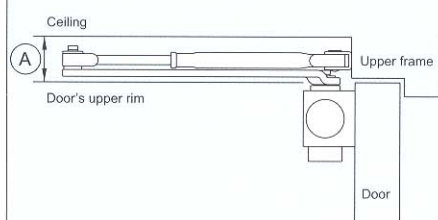
- Please choose an appropriate installation method after taking the matching between the door and upper frame, ceiling conditions, the space between door's hinge and wall into consideration.
- Please select the suitable size according to the door's width and weight and decide if the stop gadget is needed or not.
- In order to protect the door closer, please install a door holder on the door or the wall.

■ Installation of standard type

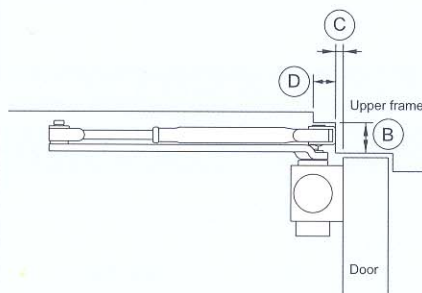
- Space between 90° open to wall
In the case that the door is 90° open, please reserve a space bigger than the thickness of door closer body.



- Ceiling, upper frame shape
For the arm tip's movement, the dimension below should be rendered for the space between door's upper rim and the ceiling.
If the ceiling is lower, please use H type (with no stop only)



- Ceiling, upper frame shape
For the arm tip's movement, the dimension below should be rendered for the space between door's upper rim and the ceiling.
If the ceiling is lower, please use H type (with no stop only)



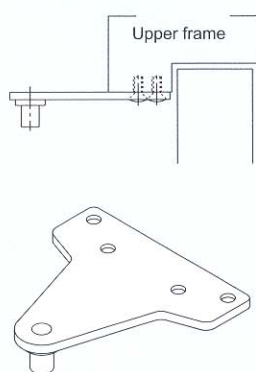
Type	Space between 90° open to wall	A dimension		B dimension	C dimension	D dimension	H type	
		With no stop	With stop				A dimension	B dimension
Size 1, 2, 3	56mm above	40mm above	48mm above	25mm above	5mm below	20mm below	23mm above	17mm above
Size 2, 3 (with back check)	65mma bove	50mm above	48mm above		15mm below			
Size 4, 5	68mm above	53mm above	52mm above				28mm above	19mm above
Size 6, 7	69mm above	53mm above	50mm above					

Installation Conditions

■ Installation of parallel type

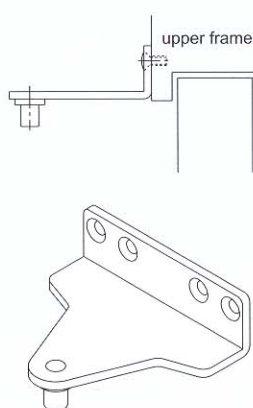
- Standard bracket

This type can be fitted on the frame of ordinary shape.



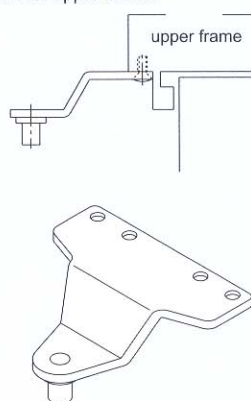
- L type bracket

This type can be fitted on the crosspiece of upper frame.



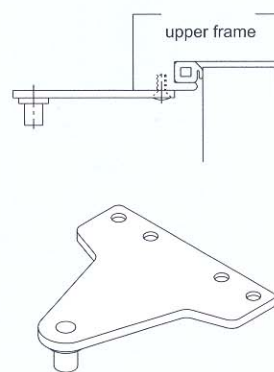
- A type bracket

If the door-shutting part is narrow, this type can be fitted on bottom facet of upper frame.



- Bracket for AT

This type is used in locations where airtight rubber is fitted.



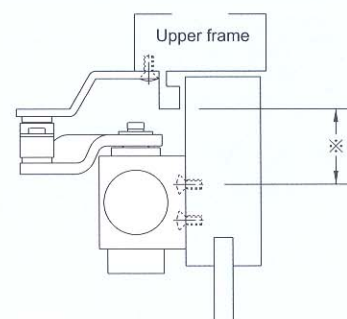
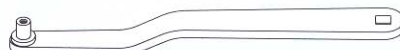
- Flat arm (standard specifications)

The arm is used in ordinary doors.



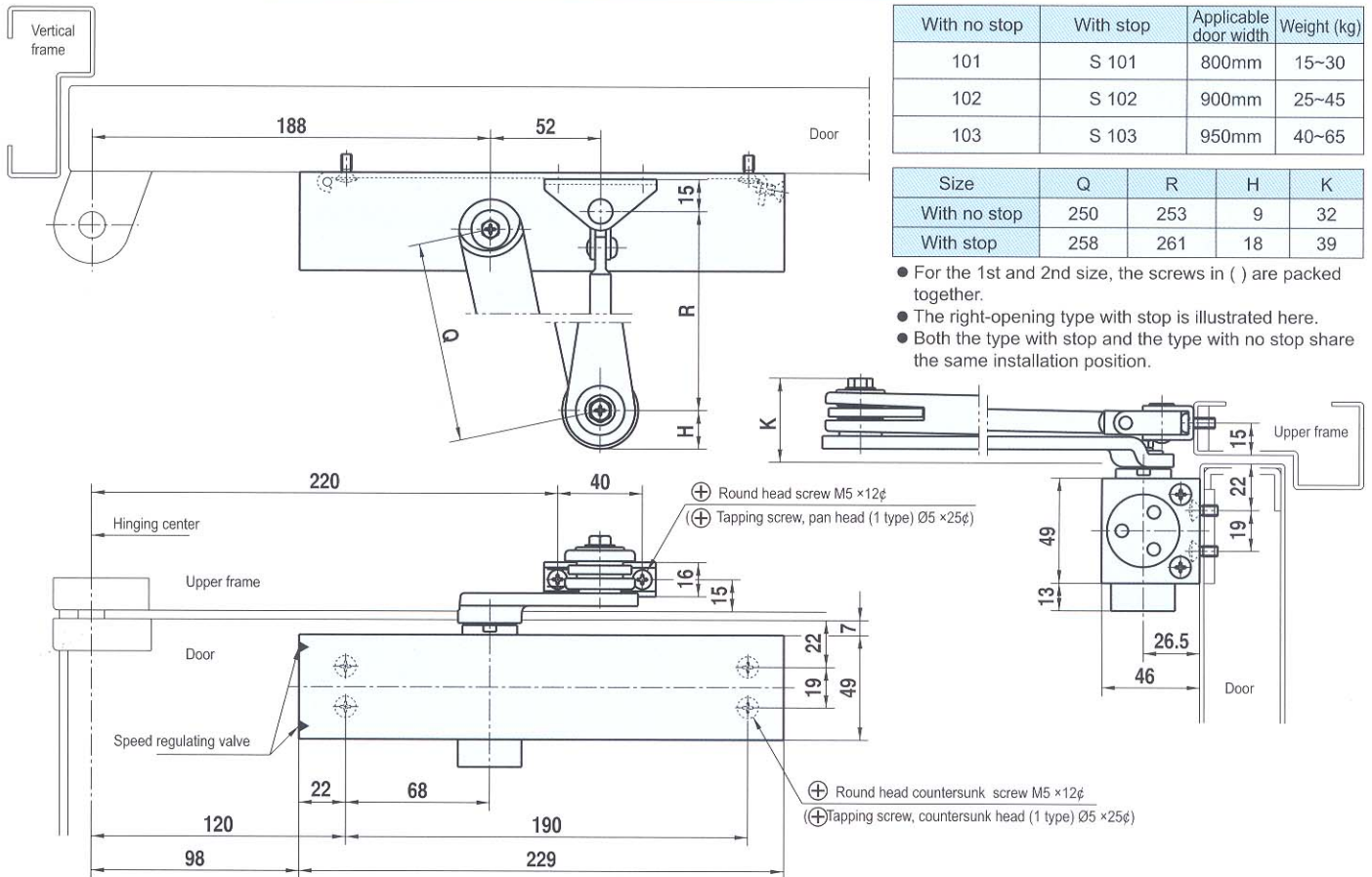
- Stepped arm (K type)

The arm is used in the location where the main body installation dimension (※ dimension) cannot be widened.



Standard Type Standard Installation Drawing

Size 1, 2, 3



Size 2, 3 (with back check)

