

RYOBI



REGISTERED TO
ISO 9001
CERTIFICATE
NO.20002510 QM08

FLOOR HINGE

500SERIES / 400SERIES / 200SERIES

Patch Fitting

FLOOR HINGE

Model chart

200 SERIES CLASSICAL TYPE

Model	With 90° Hold-open	S-201N	S-202N	S-201Y	S-202Y	S-201K	S-202K	S-203K	S-204K
	Without Hold-open	201N	202N	201Y	202Y	201K	202K	203K	204K
Maximum Door Width		900mm	950mm	900mm	950mm	900mm	950mm	950mm	1050mm
Maximum Door Weight		80kg	130kg	80kg	130kg	80kg	130kg	180kg	185kg
Maximum Opening Angle (degrees)		113°							
Applicable Door		Aluminum Steel Stainless Steel Wood							
Cement Case Dimension (mm)		280 X 132 X 47.5		284 X 130 X 54.5		280 X 132 X 47.5		298 X 146 X 47	
Feature	General Speed Adjustment	●	●	●	●	●	●	●	●
	2nd Speed Adjustment	●	●	●	●	●	●	●	●
	Closing Position Adjustment	●	●	●	●	●	●	●	●
	Height Position Adjustment			●	●				
	Double Action	●	●	●	●	●	●	●	●

★ : Please consult with Ryobi authorized distributor to select tapping screw when installing floor hinge with wooden door.

400 SERIES THIN TYPE

Model	With 90° Hold-open	S-401N	S-402N	S-401K	S-402K	S-403K
	Without Hold-open	401N	402N	401K	402K	403K
Maximum Door Width		900mm	950mm	900mm	950mm	950mm
Maximum Door Weight		80kg	120kg	80kg	120kg	150kg
Maximum Opening Angle (degrees)		108°				
Applicable Door		Aluminum Steel Stainless Steel Wood				
Cement Case Dimension (mm)		306 X 112 X 40				
Feature	General Speed Adjustment	●	●	●	●	●
	2nd Speed Adjustment	●	●	●	●	●
	Closing Position Adjustment	●	●	●	●	●
	Double Action	●	●	●	●	●

★ : Please consult with Ryobi authorized distributor to select tapping screw when installing floor hinge with wooden door.

Model chart

500 SERIES NARROW TYPE

Model	With 90° Hold-open	S-500V	S-500VDA
	Without Hold-open	500V	500VDA
Maximum door width		1100mm	
Maximum door weight		120kg	
Maximum opening angle (degrees)		175°	
Applicable door		Aluminum Steel Stainless Steel Wood	
Cement case dimension (mm)		275 X 82 X 50	
Feature	1st speed adjustment	●	●
	2nd speed adjustment	●	●
	Closing position adjustment	●	●
	Height position adjustment	●	●
	Mechanical backcheck	●	●
	Delayed action		●
	Double action	●	●
	Tested To CE EN1154	●	●
	Tested To CE EN1634-1	●	●

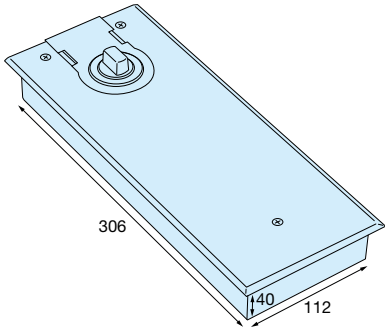
★ : Please consult with Ryobi authorized distributor to select tapping screw when installing floor hinge with wooden door.

Important notice

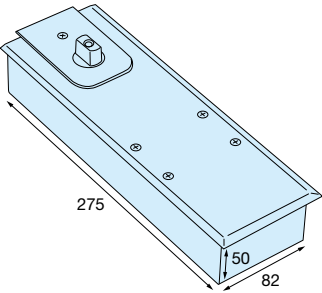
- Firmly tighten the top pivot shaft.
- Firmly tighten the mounting screws.
- Do not use chemicals when cleaning in order to prevent corrosion.
- Do not hit the main body or grind it.
- Completely fill the outer circumference of the cement case with mortar in order to reliably secure the main body.
- Use a door stopper together in order to prevent failure and breakage of the main body.

Important notice

- The Profile **400 Series**
40mm depth is suitable for earlier and easier installation on 2nd, 3rd ...floor..



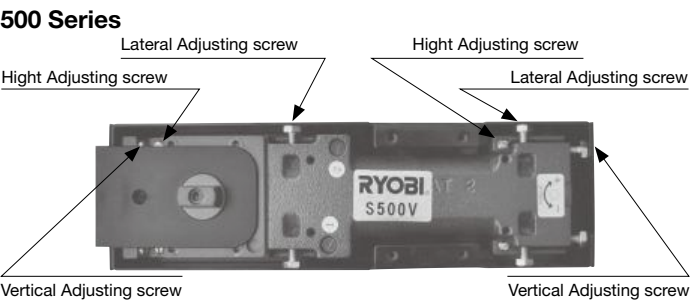
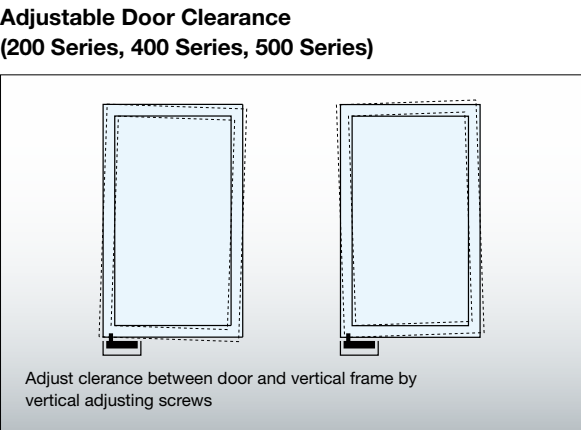
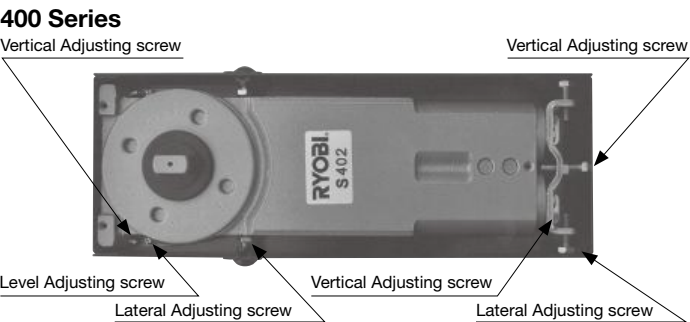
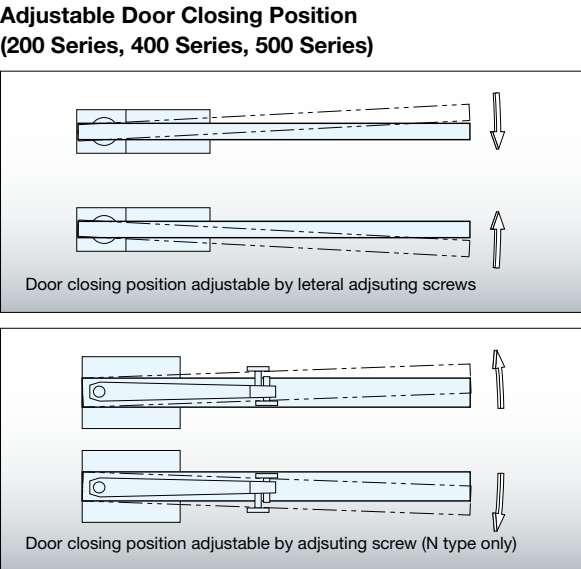
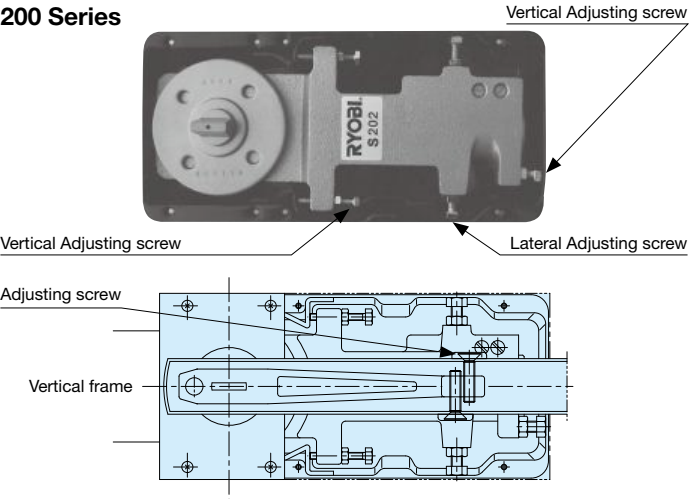
- The Profile **500 Series**
Narrow style perfectly matches with modern design profile.



Model list

Adjustment of floor hinge body position (all series)

- Gap between door lower section and frame can be adjusted by the adjustment screw of the main body.
- Tighten all of the screws and their locknuts after adjustment.

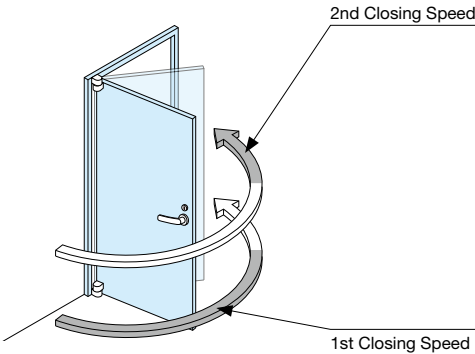


Adjustable range for closing position and clearance

	Vertical	Lateral	Level	Height
200 Series	7mm	10mm		
400 Series	9mm	4.5mm	6mm	
500 Series	10mm	10mm		4mm

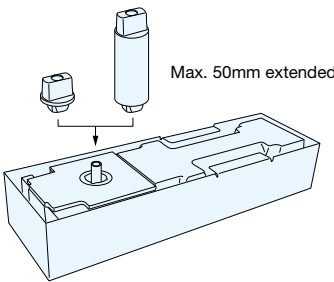
Adjust Closing Speed (All Series)

- There are two speed ranges for door closing speed.
- Those ranges are classified into two stages of the 1st speed range which controls overall door closing speed and the 2nd speed range which controls latching speed.
- The latching speed cannot be set to be faster than the closing speed.
 - Adjust the closing speed by the closing speed adjustment valve.
 - Adjust the latching speed by the latching speed adjustment valve.
- The latching speed is the speed to store the door into the frame.
- Adjust to a speed which does not cause fingers to be caught.
(It is appropriate for a door to take 5 to 8 seconds to completely close from a door opening angle of approximately 90 degrees.)
- Adjustment is easily made if the latching speed is adjusted in advance.



Additional feature (500 series)

- Inter changeable spindle.
- Height adjustment function is added.
- Spindle can be extended up to 50mm for extended floor clearance for threshold, carpeted or marble floor. Customs made spindle shape may be available.

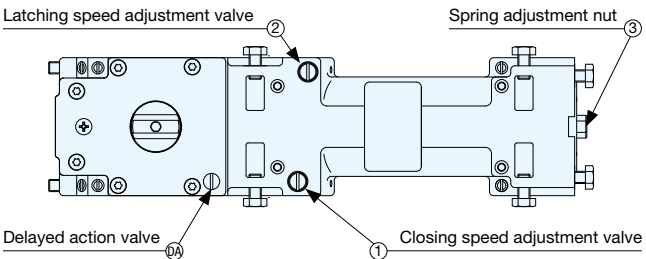


- **Mechanical backcheck**
When introduced the backcheck stalls the opening door between 65 and 90 degrees. When doors are violently opened by pedestrians or wind, the backcheck feature reduces the likelihood of damage should contact be made with an adjacent wall, obstacles, or pedestrian.

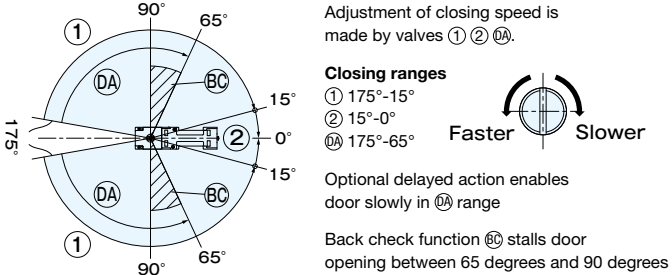
- **Delayed action**
An optional delayed action feature adjusted by means of an independent valve. Once set, the door - when opened beyond 65 degrees enters into a delayed mode allowing additional time before the closing. Delayed time can be adjusted. The delayed action is an advantage to Nursing staff assisting patients, Domestic staff pushing meals or maintenance trolleys, handicapped person, elderly or infirm walking with sticks or frames under medical supervision.

- **Adjustable closing power**
Spring Power adjustable according to door weight and width EN 1 through EN 4. Factory preset size is 3.

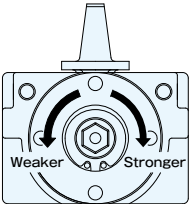
Position of valves



Range of delayed action and back check



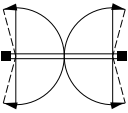
How to adjust closing power



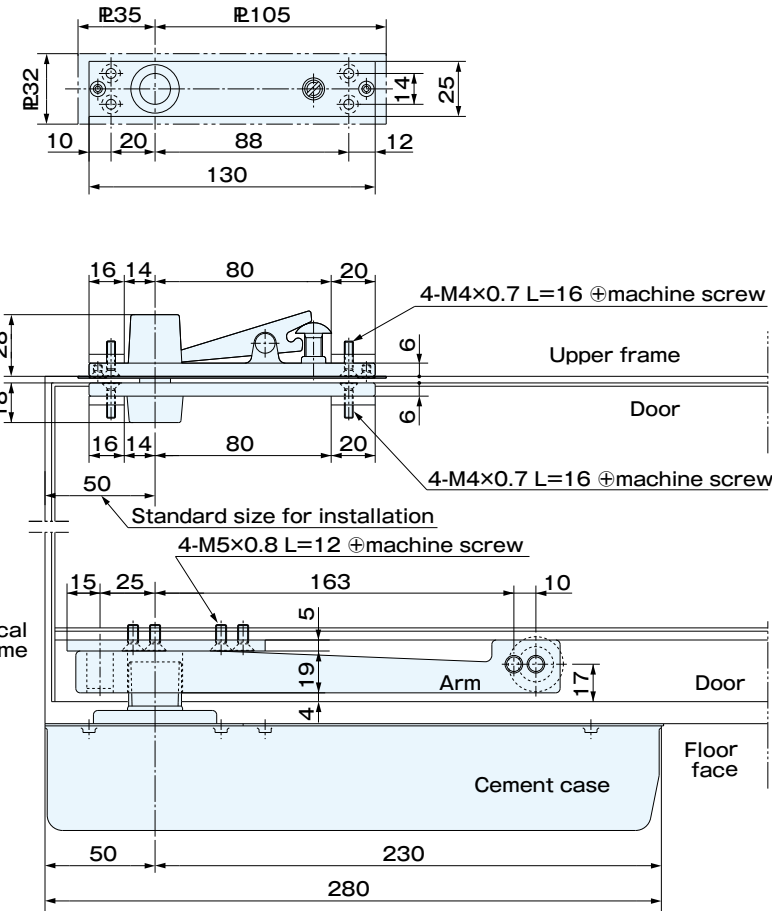
Turn of adjustment nut	Torque	0° - 4°
0 turn	Minimum	-
4 turn	Size 1	11±2 [Nm]
10.5 turn	Size 3 (Preset)	27±5 [Nm]
13.5 turn	Size 4 (Max)	32±5 [Nm]

Factory preset is 11.5 turns.

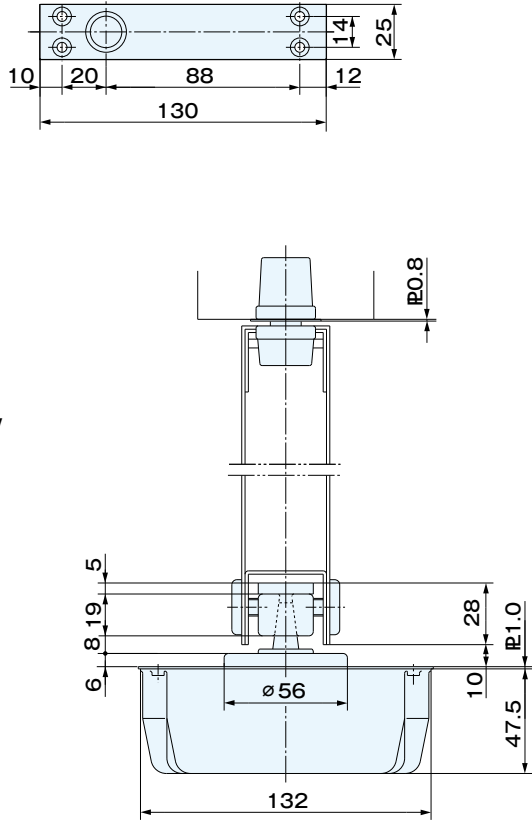
S-201N / 201N · S-202N / 202N

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	DOOR WEIGHT(Kg)
 MAXIMUM OPENING ANGLE 113° HOLD-OPEN ANGLE 90°	S-201N	90° HOLD	900X2100	80
	201N	NON-HOLD		
	S-202N	90° HOLD	950X2100	130
	202N	NON-HOLD		

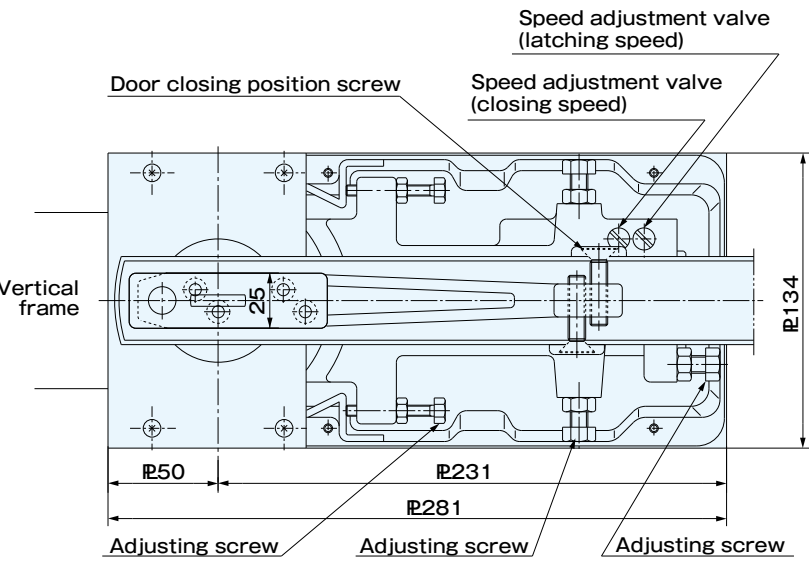
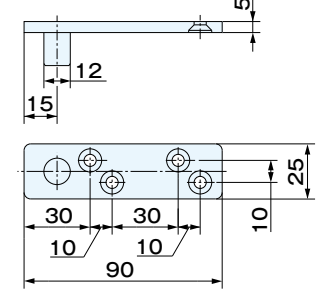
■ Top pivot(upper frame side)



■ Top pivot(door side)

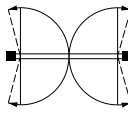


■ Arm plate

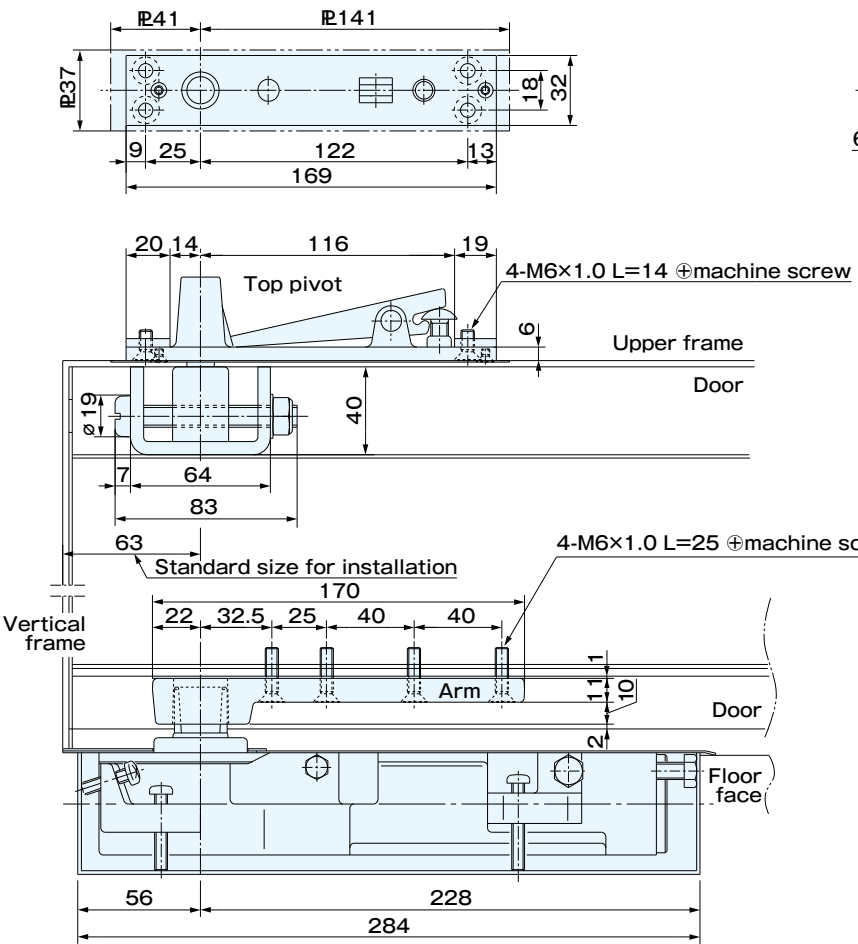


Dimension is indicated by m/m unit

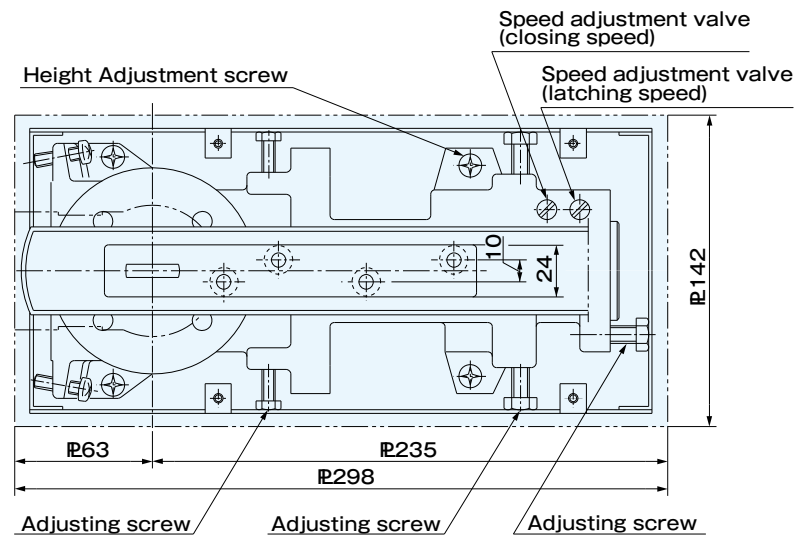
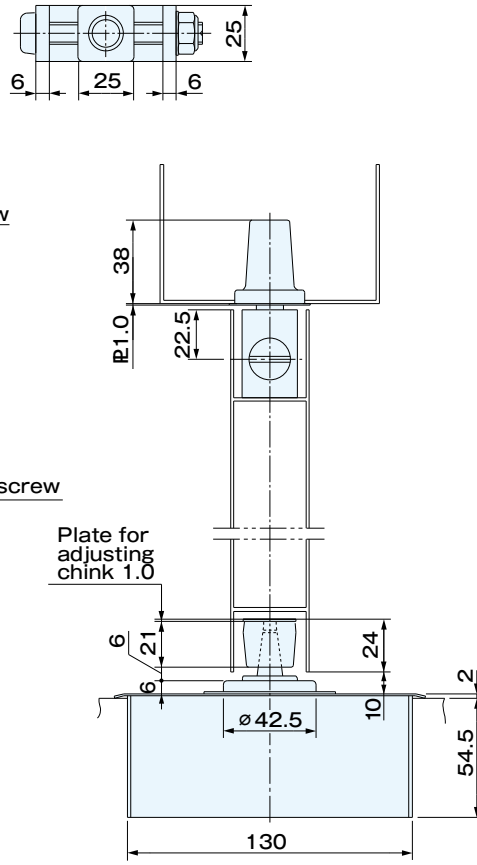
S-201Y / 201Y · S-202Y / 202Y

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	DOOR WEIGHT(Kg)
 MAXIMUM OPENING ANGLE 113° HOLD-OPEN ANGLE 90°	S-201Y	90° HOLD	900X2100	80
	201Y	NON-HOLD		
	S-202Y	90° HOLD	950X2100	130
	202Y	NON-HOLD		

■ Top pivot(upper frame side)



■ Top pivot(door side)

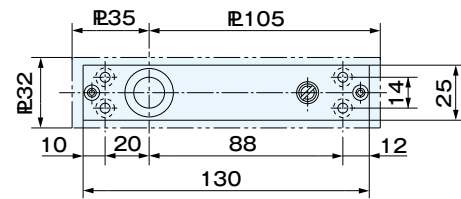


Dimension is indicated by m/m unit

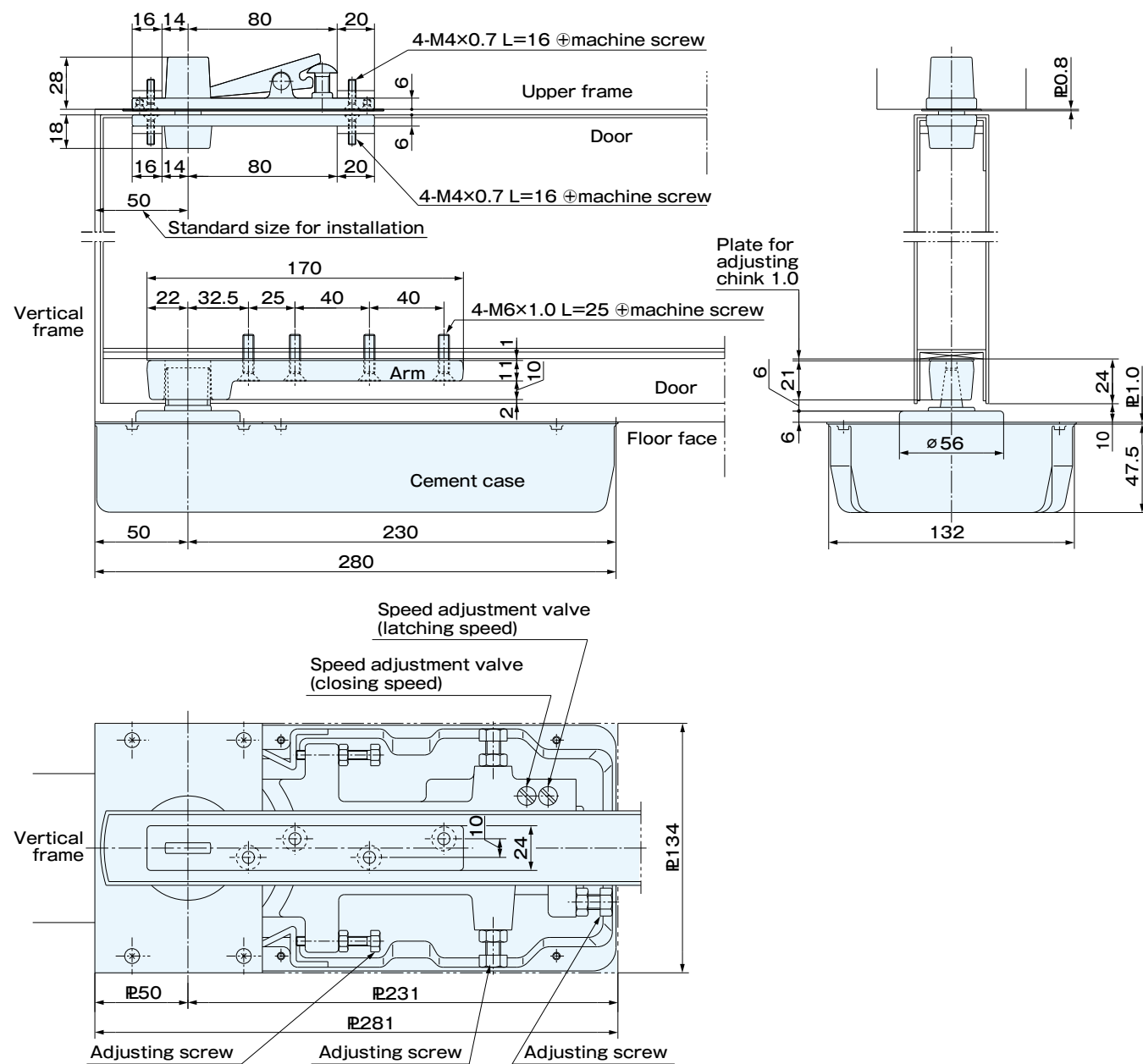
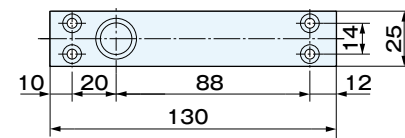
S-201K / 201K · S-202K / 202K

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	DOOR WEIGHT(Kg)
CENTER HUNG DOUBLE ACTION  MAXIMUM OPENING ANGLE 113° HOLD-OPEN ANGLE 90°	S-201K	90° HOLD	900X2100	80
	201K	NON-HOLD		
	S-202K	90° HOLD	950X2100	130
	202K	NON-HOLD		

■ Top pivot(upper frame side)

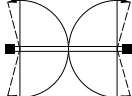


■ Top pivot(door side)

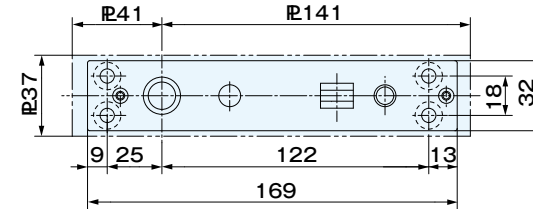


Dimension is indicated by m/m unit

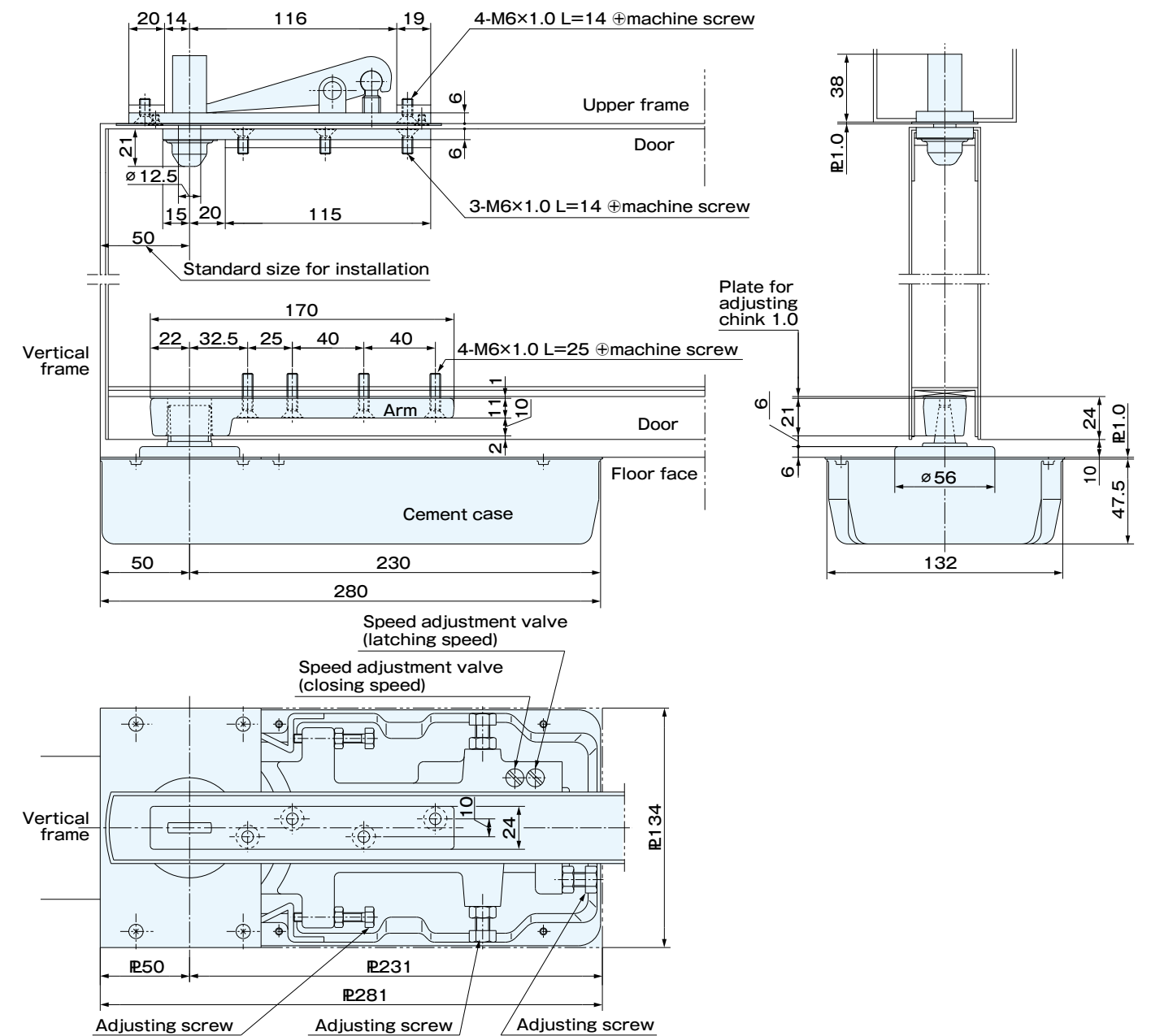
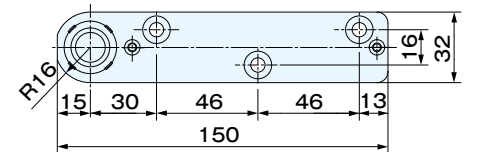
S-203K / 203K

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	DOOR WEIGHT(Kg)
CENTER HUNG DOUBLE ACTION  MAXIMUM OPENING ANGLE 113° HOLD-OPEN ANGLE 90°	S-203K	90° HOLD	950X2100	180
	203K	NON-HOLD		

■ **Top pivot (upper frame side)**

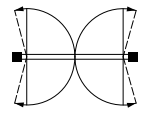


■ Top pivot (door side)



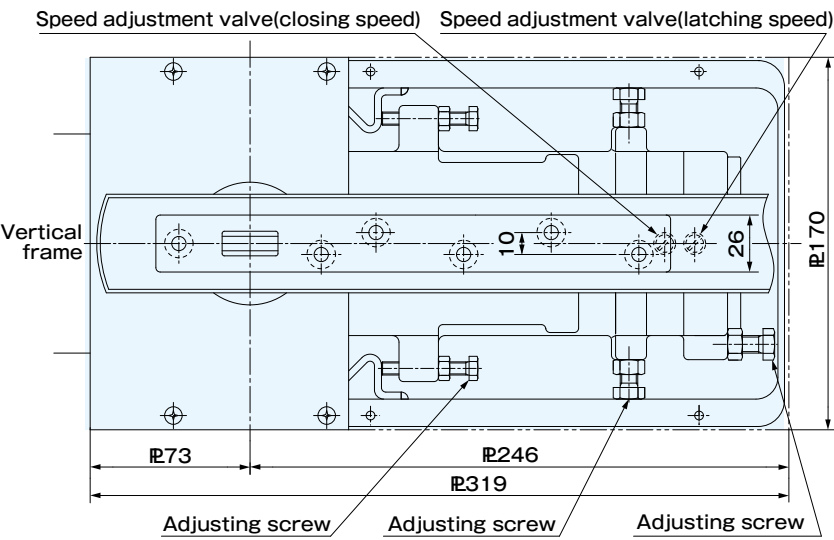
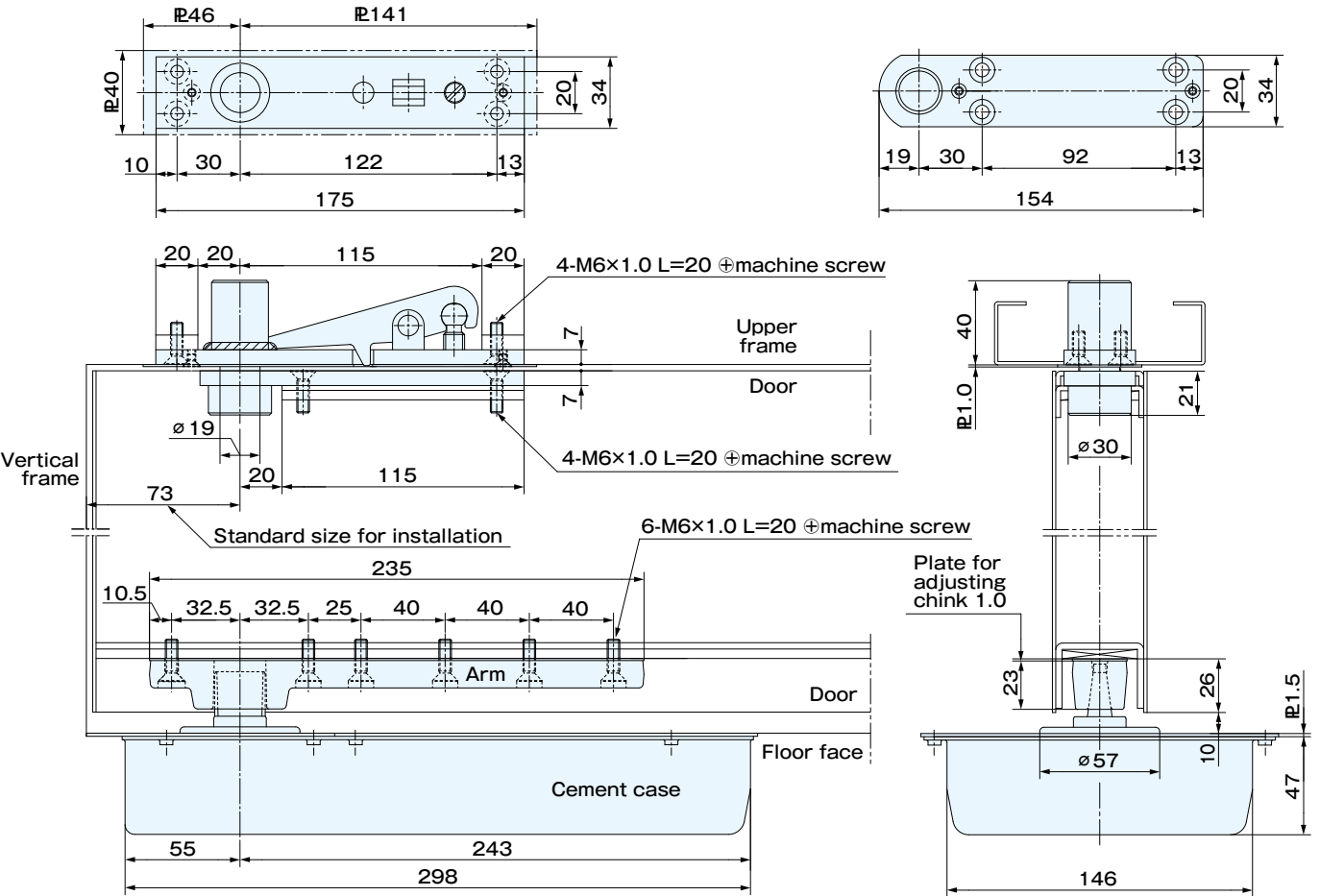
Dimension is indicated by m/m unit

S-204K / 204K

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	WEIGHT(kg)
 MAXIMUM OPENING ANGLE 113° HOLD-OPEN ANGLE 90°	S-204K	90° HOLD	1050X2400	185
	204K	NON-HOLD		

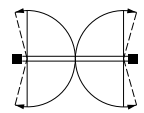
■ Top pivot (upper frame side)

■ Top pivot (door side)



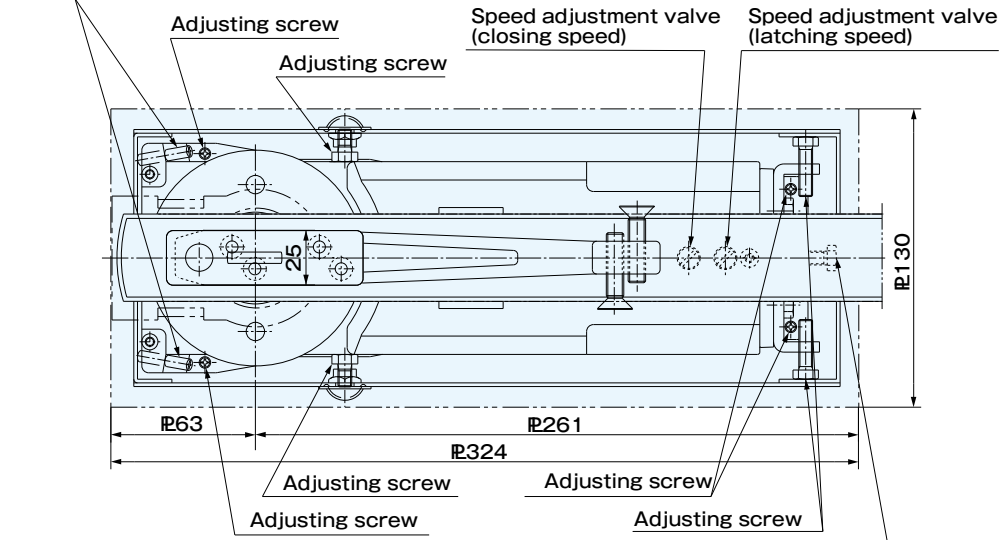
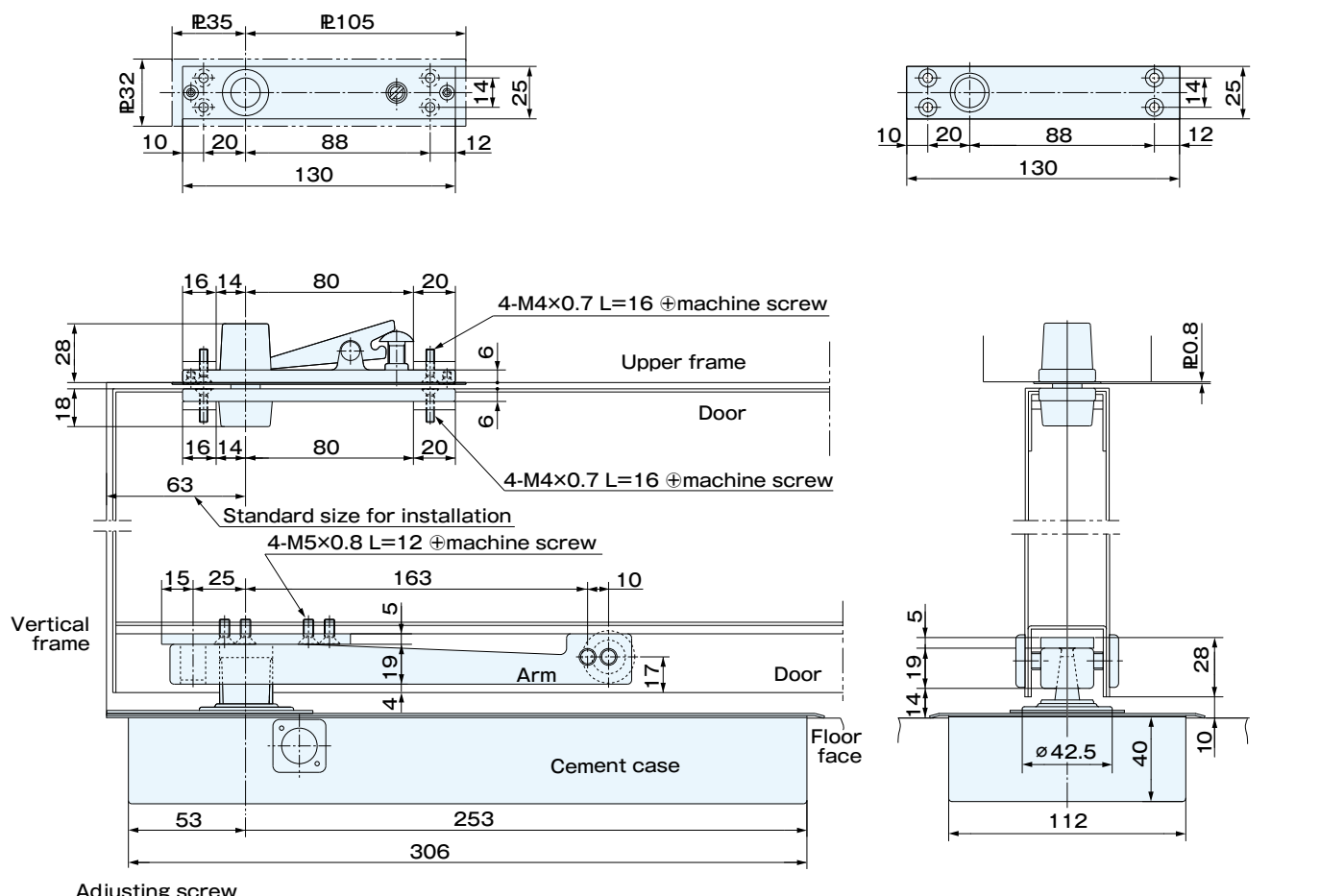
Dimension is indicated by m/m unit

S-401N / 401N ·S-402N / 402N

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	WEIGHT(Kg)
 MAXIMUM OPENING ANGLE 108° HOLD-OPEN ANGLE 90°	S-401N	90° HOLD	900X2100	80
	401N	NON-HOLD		
	S-402N	90° HOLD	950X2100	120
	402N	NON-HOLD		

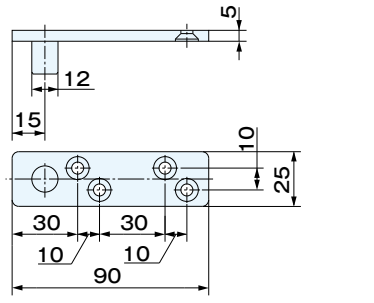
■ Top pivot (upper frame side)

■ Top pivot(door side)



Dimension is indicated by m/m unit

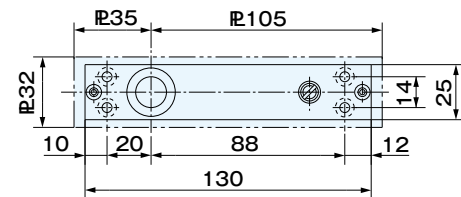
■ Arm plate



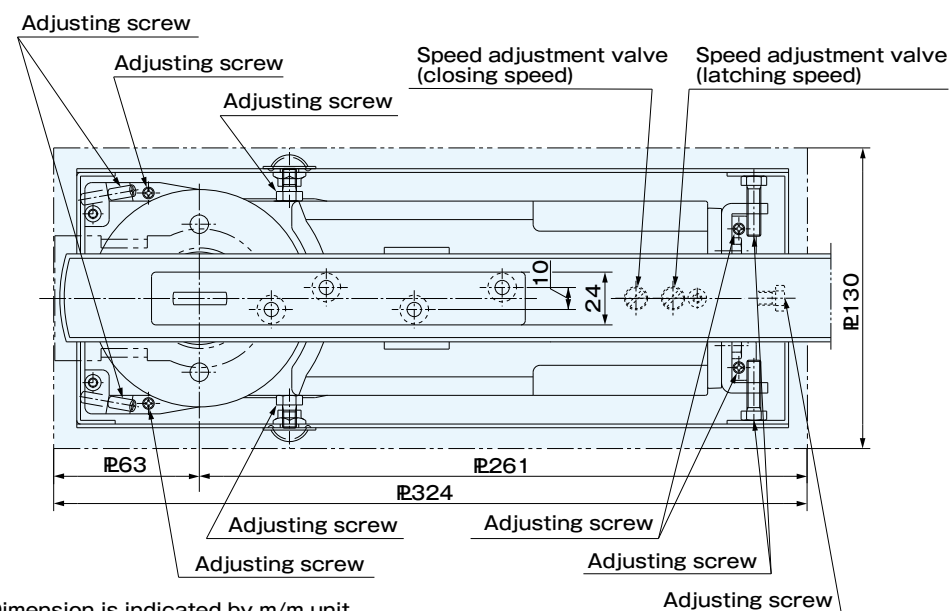
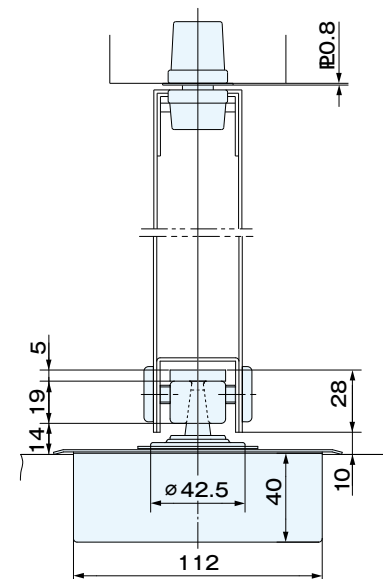
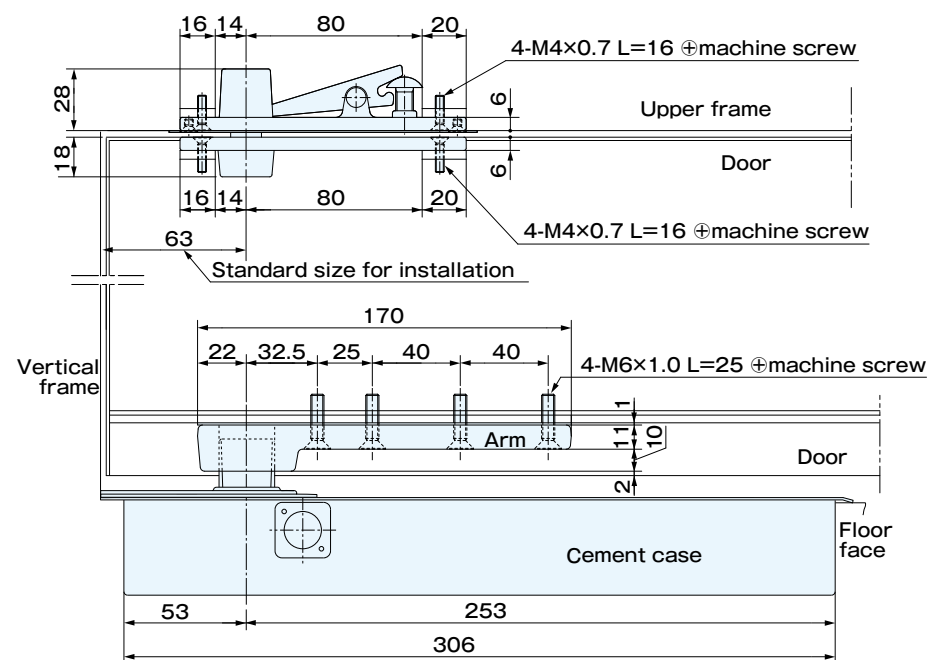
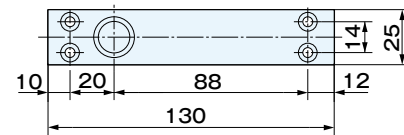
S-401K / 401K • S-402K / 402K

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	WEIGHT(Kg)
CENTER HUNG DOUBLE ACTION  MAXIMUM OPENING ANGLE 108° HOLD-OPEN ANGLE 90°	S-401K	90°HOLD	900X2100	80
	401K	NON-HOLD		
	S-402K	90°HOLD	950X2100	120
	402K	NON-HOLD		

■ Top pivot (upper frame side)



■ **Top pivot (door side)**

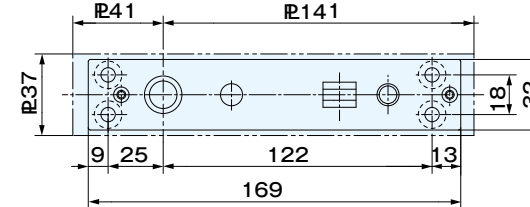


Dimension is indicated by m/m unit

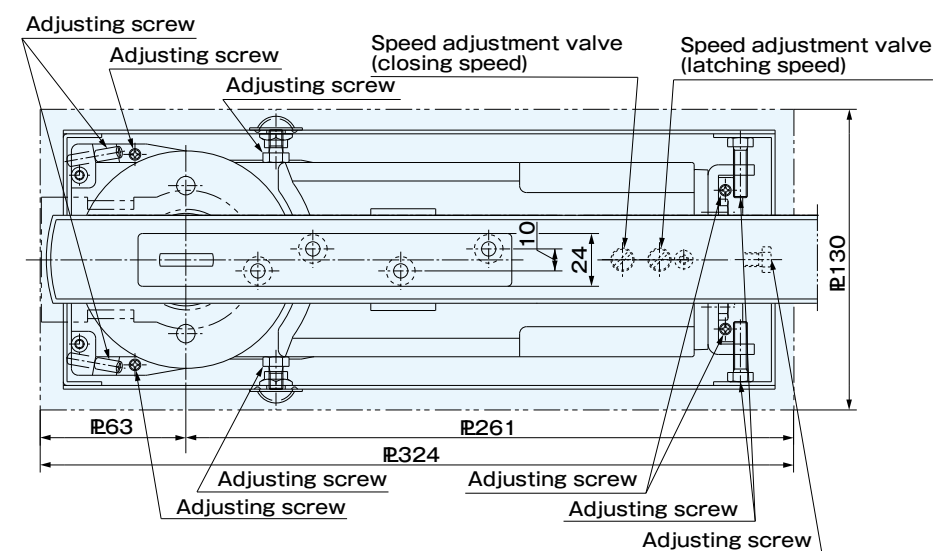
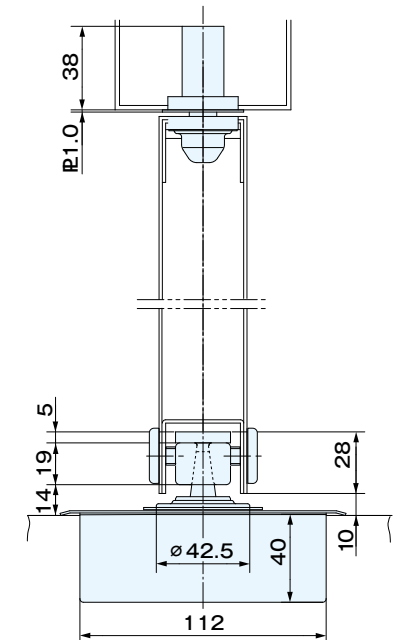
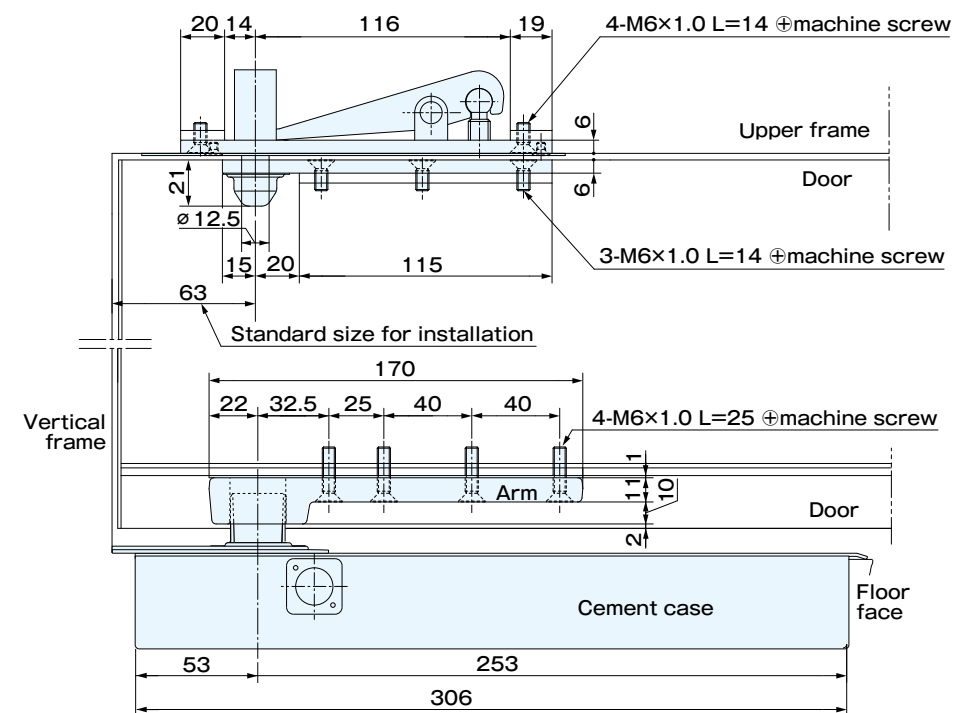
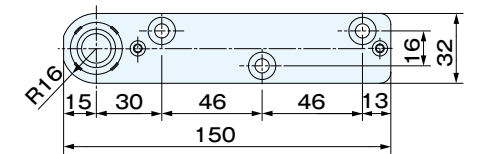
S-403K / 403K

OPENING SYSTEM OF DOOR	MODEL NUMBER		FITTING SIZE AND WEIGHT	
			WIDTH X HEIGHT(mm)	WEIGHT(Kg)
CENTER HUNG DOUBLE ACTION  MAXIMUM OPENING ANGLE 108° HOLD-OPEN ANGLE 90°	S-403K	90°HOLD	950X2100	150
	403K	NON-HOLD		

■ Top pivot (upper frame side)

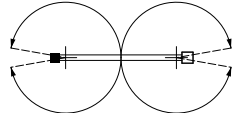


■ Top pivot (door side)

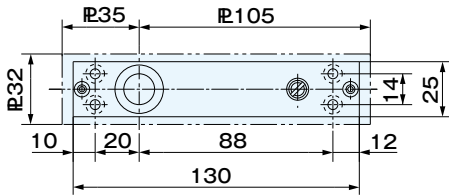


Dimension is indicated by m/m unit

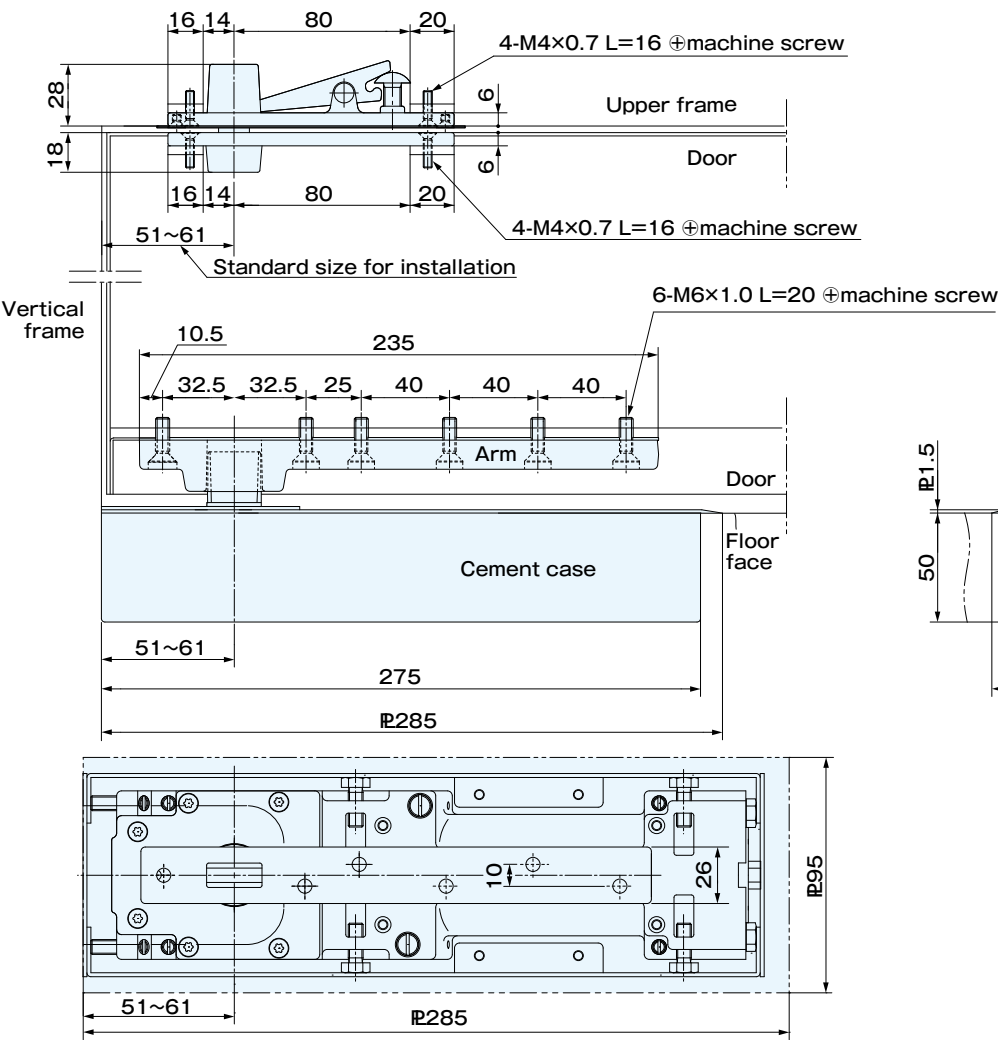
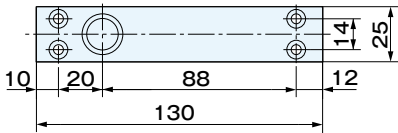
S-500V / 500V · S-500VDA / 500VDA

OPENING SYSTEM OF DOOR	MODEL NUMBER		DELAYED ACTION	FITTING SIZE AND WEIGHT	
				MAXIMUM WIDTH(mm)	MAXIMUM WEIGHT(Kg)
CENTER HUNG IN DOUBLE ACTION  MAXIMUM OPENING ANGLE 175° HOLD-OPEN ANGLE 90°	S-500V	90°HOLD	NO	1100	120
	500V	NON-HOLD	NO		
	S-500V DA	90°HOLD	YES		
	500V DA	NON-HOLD	YES		

■ Top pivot(upper frame side)



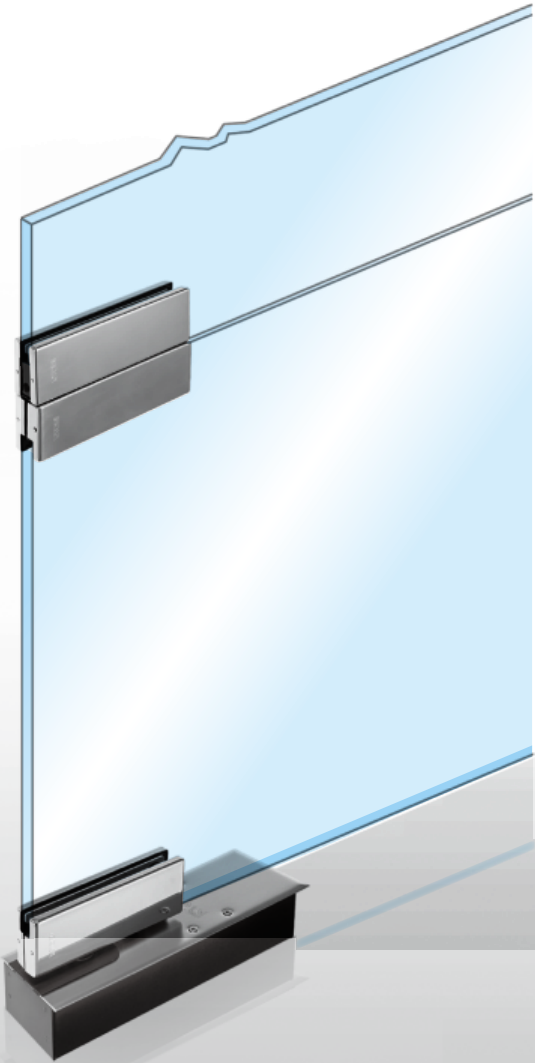
■ Top pivot(door side)



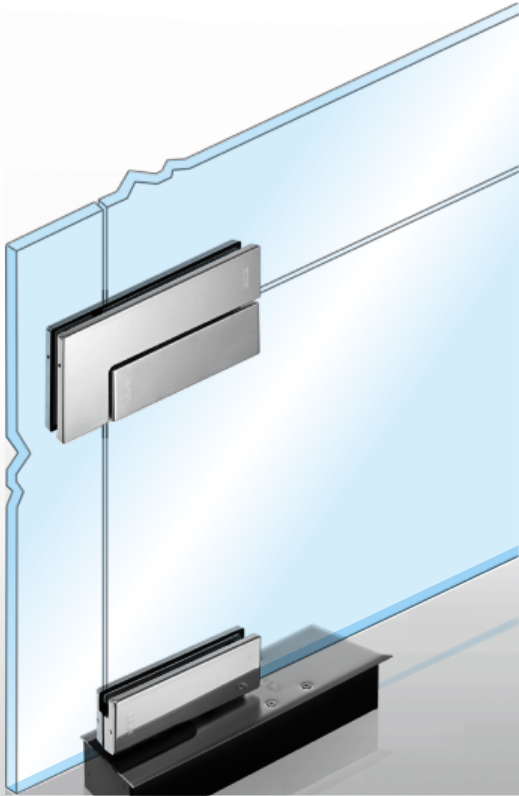
Dimension is indicated by m/m unit

Patch Fitting

RP
Series

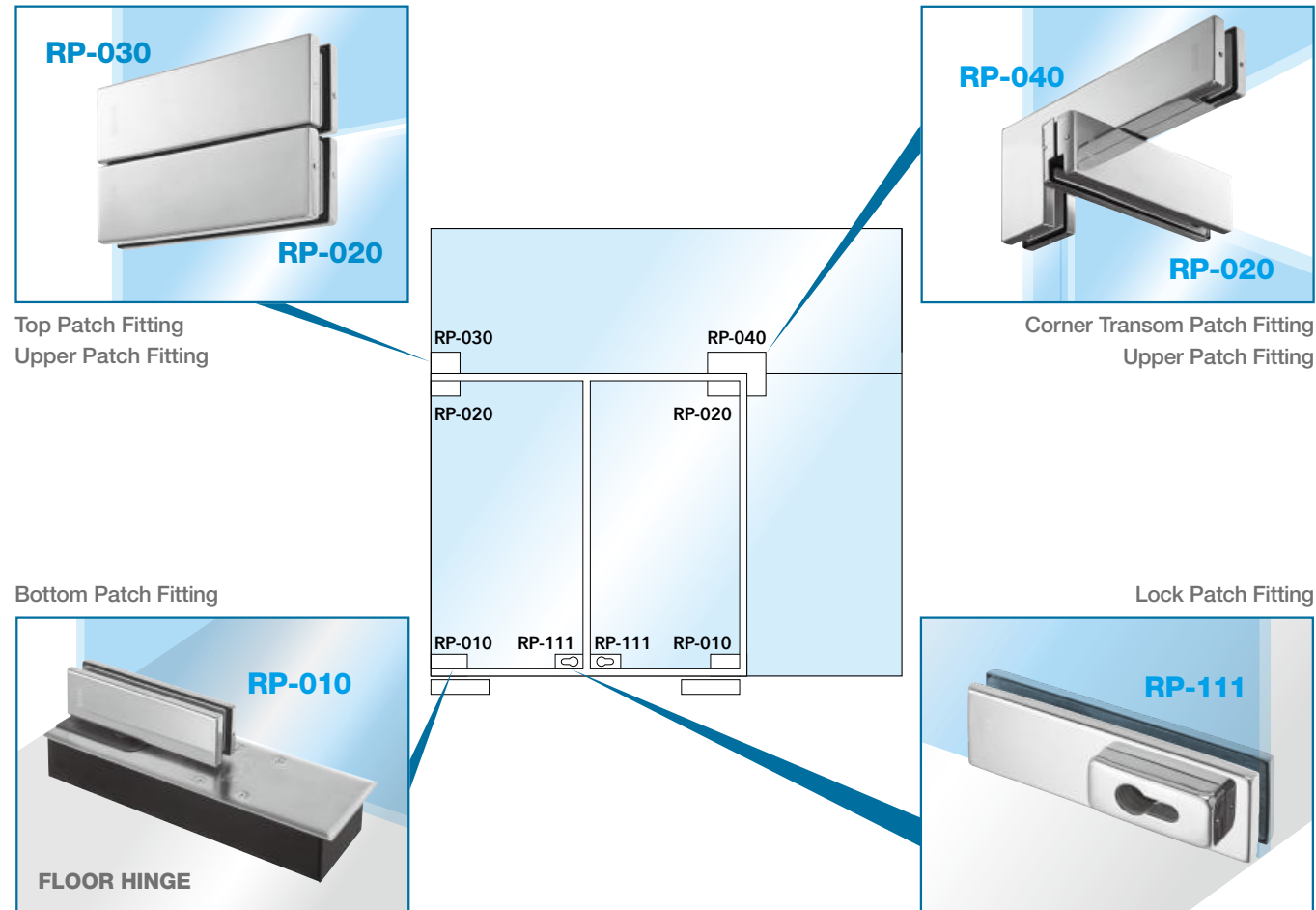


※ All glass clamping areas are to be cleaned with standard glass cleaner prior to installation.



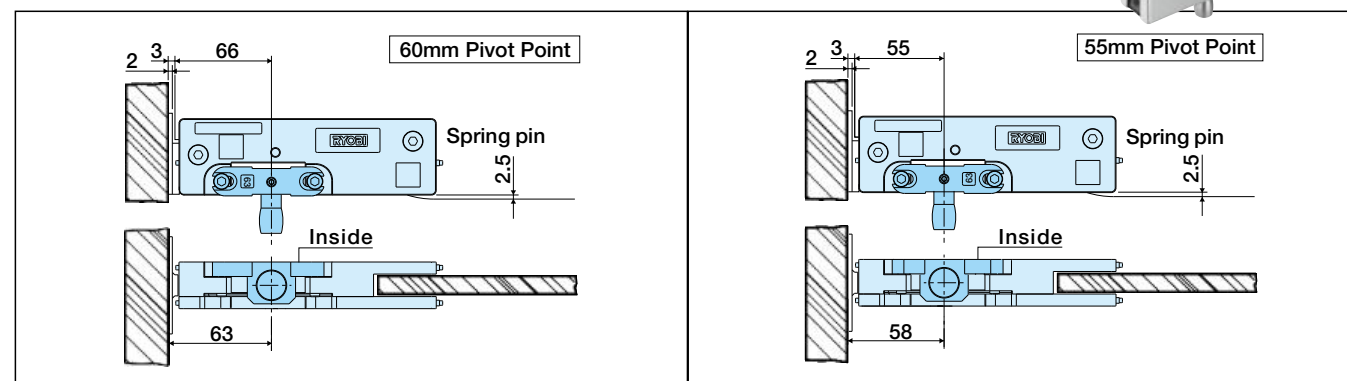
※ All glass clamping areas are to be cleaned with standard glass cleaner prior to installation.

Type Selection

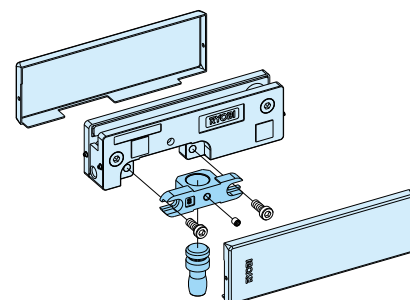


Standard application

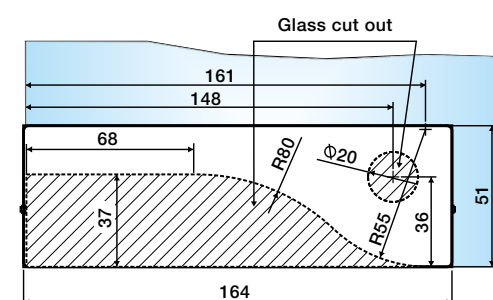
RP-030 • Top Patch Fitting



• Installation Instruction

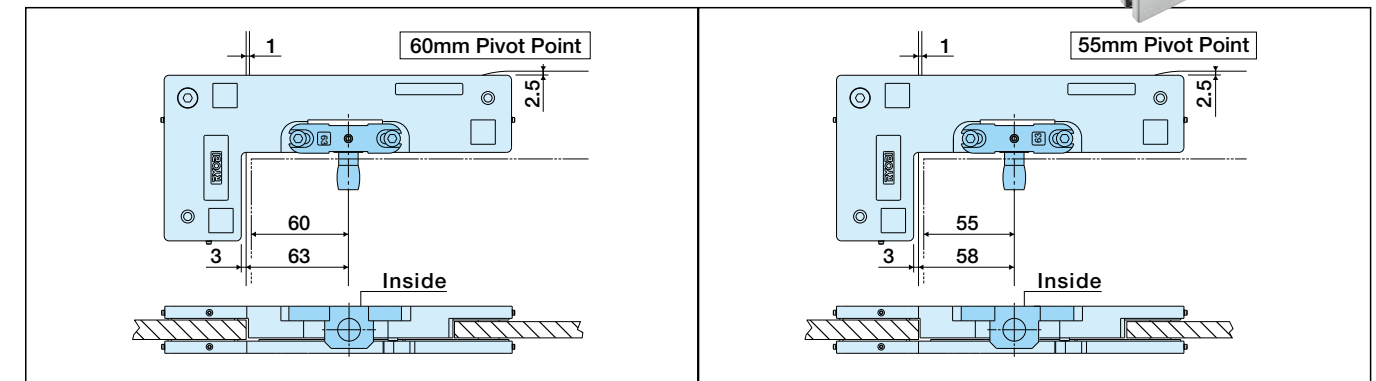


• Glass Cutting Dimensions

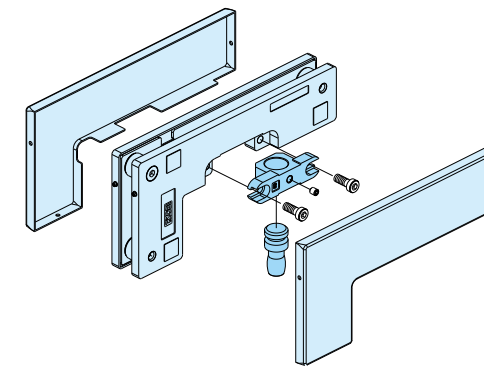


Standard application

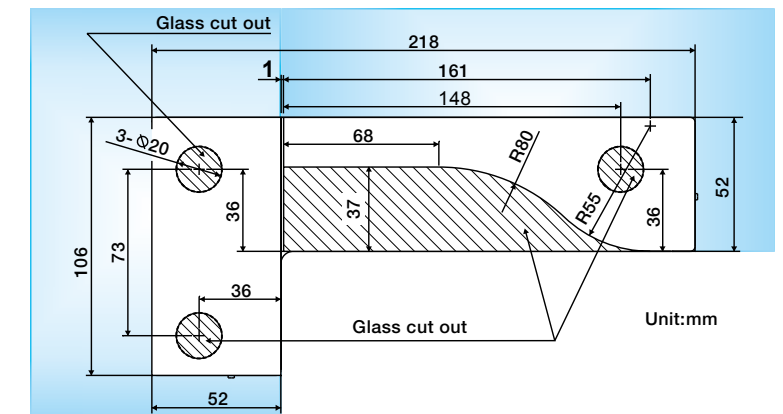
RP-040 • Corner Transom Patch Fitting



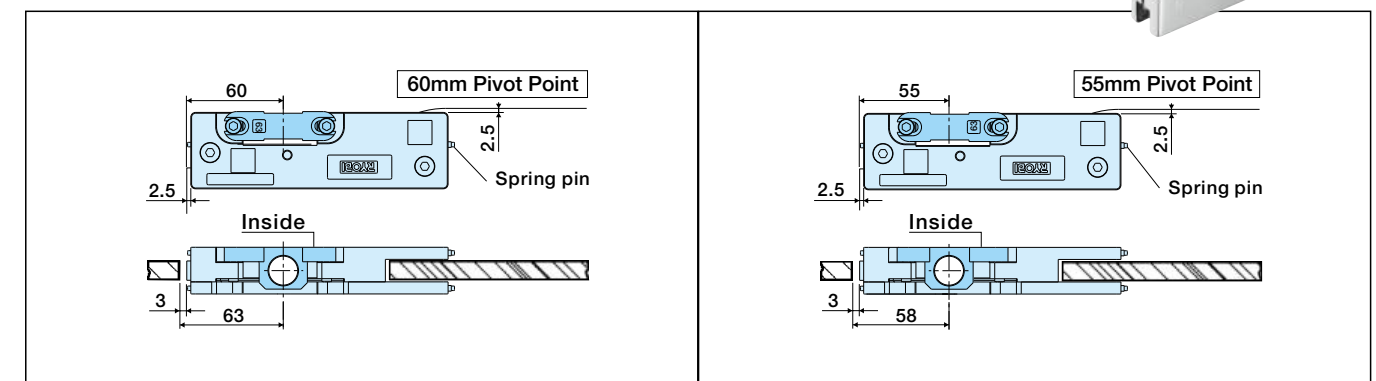
• Installation Instruction



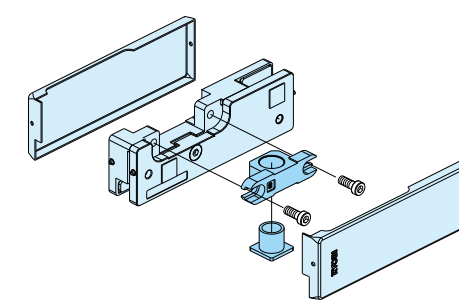
• Glass Cutting Dimensions



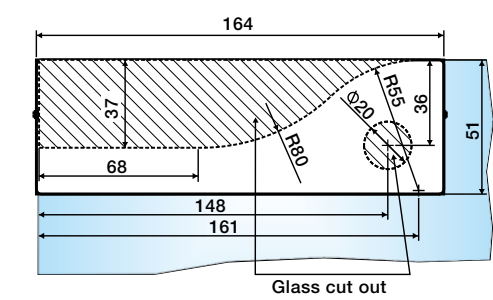
RP-020 • Upper Patch Fitting

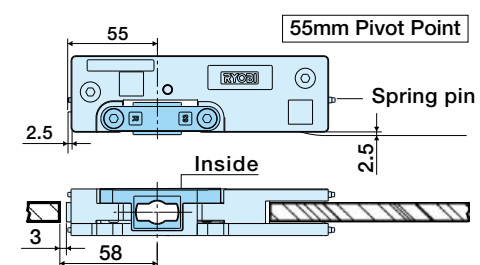
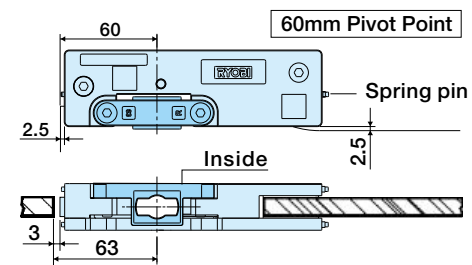
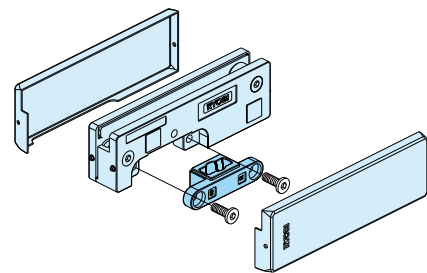
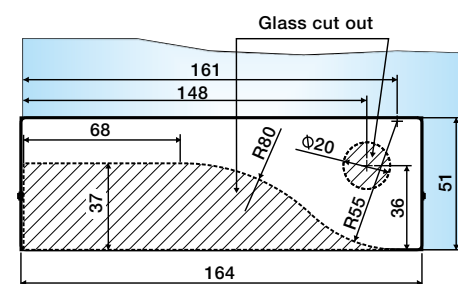
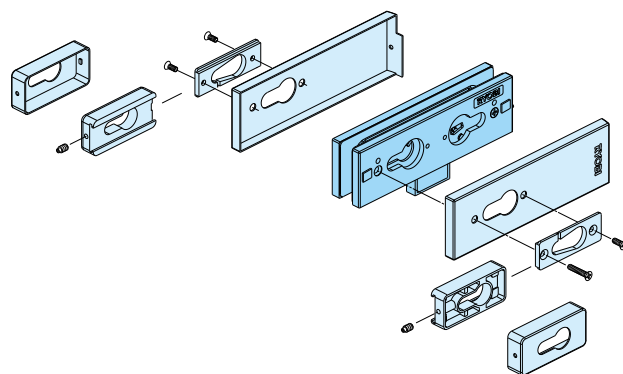
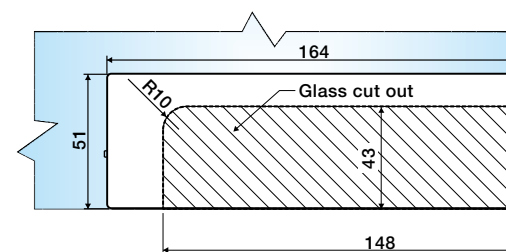
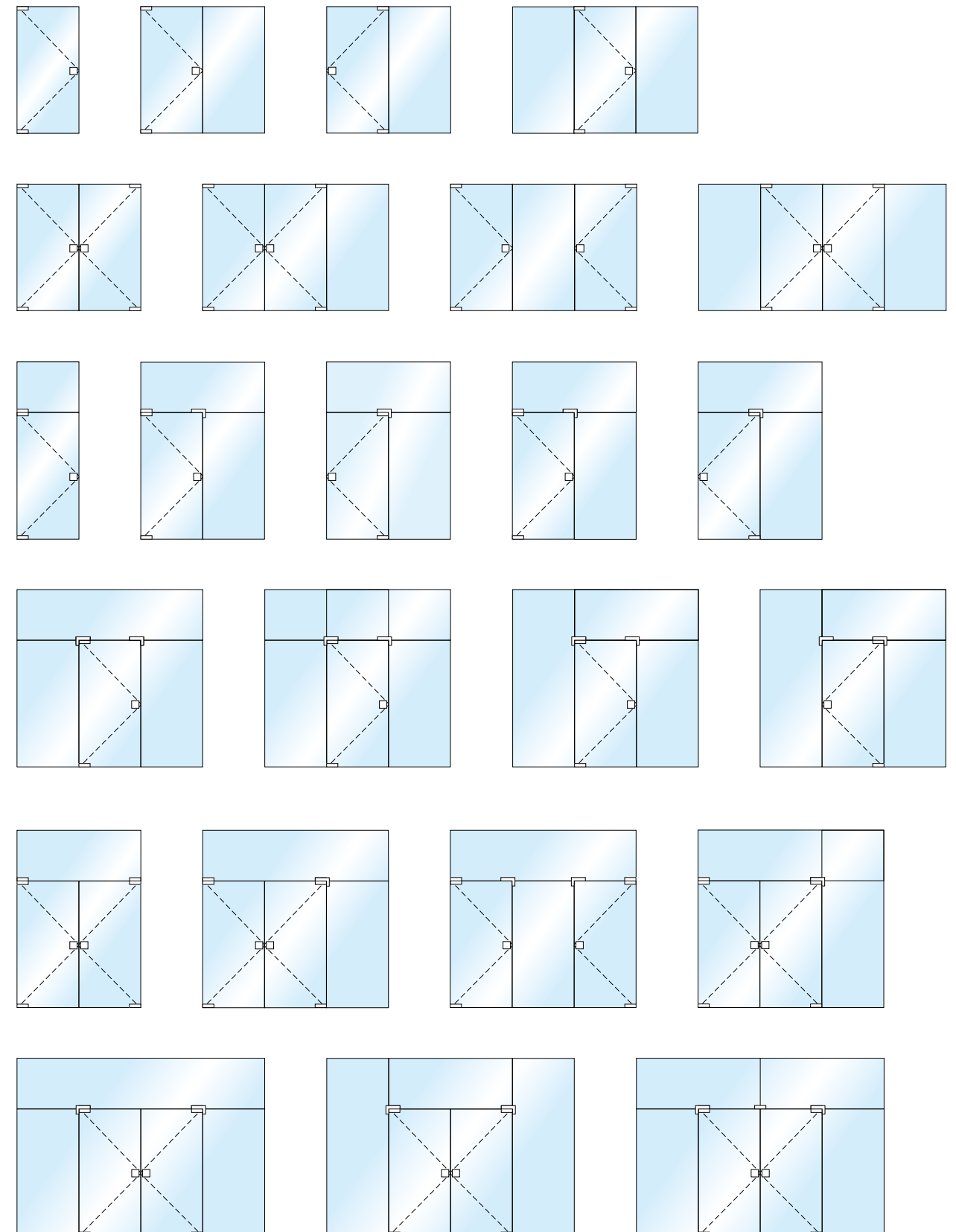


• Installation Instruction



• Glass Cutting Dimensions



Standard application**RP-010 • Bottom Patch Fitting****• Installation Instruction****• Glass Cutting Dimensions****RP-111 • Lock Patch Fitting****• Installation Instruction****• Glass Cutting Dimensions****Diagram example****Typical glass assemblies with Patch Fitting**

RYOBI PARTNER



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