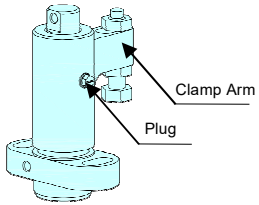
COMPACT PNEUMATIC SWING CLAMPS INSTRUCTIONS

AMWSW-W AMWSW-W-D AMWSW-W-AG AMWSW-W-AC

Precautions

1. Be sure to prepare speed controller (meter-out flow) for adjusting clamping/unclamping speed.
   * Too fast swing can cause catching-in of the clamp arm when clamping. In addition, the components can be damaged.

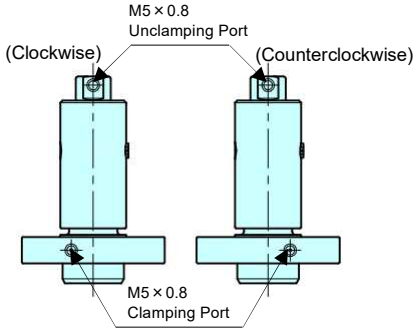
2. Do not remove the plug.
(Plug should be removed only to detach the clamp arm or maintain the device.)



3. Operating air pressure should be within 0.5 to 0.7 MPa range.

4. Use clean air by removing moisture and debris with an air dryer and air filter. Impurities in the compressed air can cause malfunction.

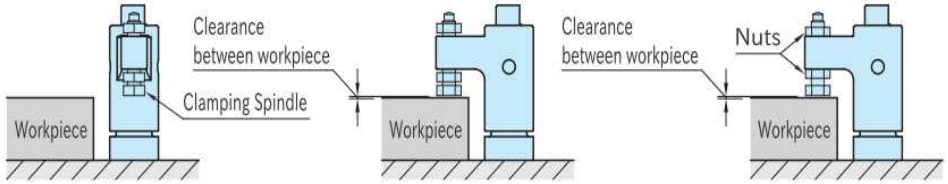
5. Clamping directions (CW/CCW) can be detected by position of the Clamping Port.



How To Use

■Setting Clearance between Workpiece

A clearance between clamping spindle and workpiece should be roughly half of the clamping stroke. The clamp arm swings horizontally.
Follow the steps below to adjust the clamping spindle to create proper clearance.



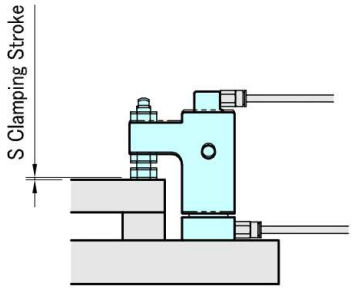
①Apply air to the unclamping port with an air blow gun to move the clamp to unclamping position.

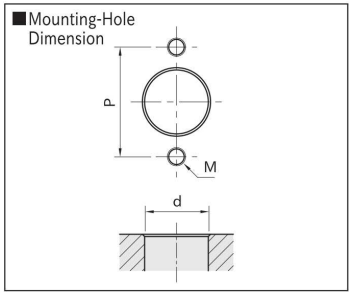
②Rotate the arm manually to straight direction, and create an appropriate clearance to the workpicece. Putting a feeler gauge between the workpiece and the clamping spindle facilitates this setting.

③Fix the clamping spindle with nuts.

Specifications

AMWSW-W



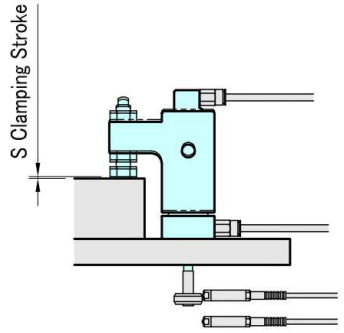


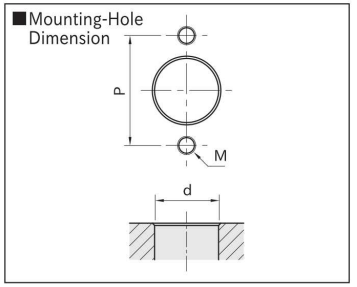
Part No.	d (+0.2 0)	M	P
AMWSW16-W	28	M 8×1.25	48
AMWSW20-W	35	M10×1.5	64

Part Number	Clamping Direction	S	Operating Air Pressure (MPa)	Clampig Force (kN) *	Holding Capacity (kN) *	Weight (g)
AMWSW16R-W	CW	1.2	0.5 to 0.7	0.4	0.8	500
AMWSW16L-W	CCW					
AMWSW20R-W	CW	1.6		0.65	1.3	1120
AMWSW20L-W	CCW					

*) The clamping force and the holding capacity above are at 0.5 MPa.

AMWSW-W-D (with Rod)



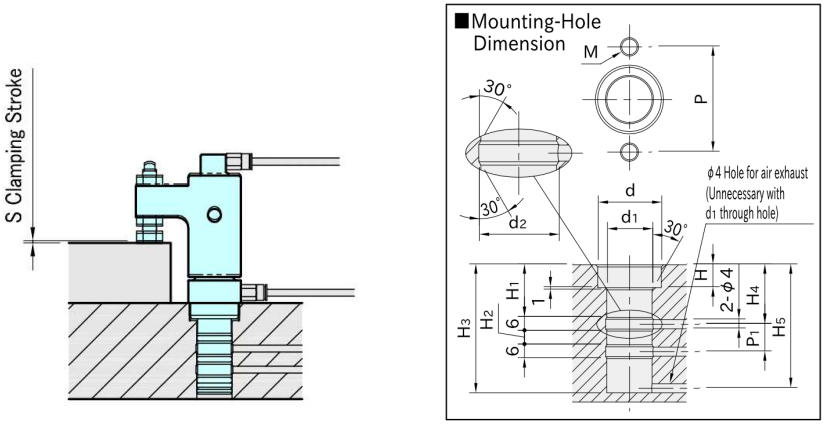


Part No.	d (+0.2 0)	M	P
AMWSW16-W-D	28	M 8×1.25	48
AMWSW20-W-D	35	M10×1.5	64

Part Number	Clamping Direction	S	Operating Air Pressure (MPa)	Clampig Force (kN) *	Holding Capacity (kN) *	Weight (g)
AMWSW16R-W-D	CW	1.2	0.5 to 0.7	0.35	0.7	510
AMWSW16L-W-D	CCW					
AMWSW20R-W-D	CW	1.6		0.55	1.1	1130
AMWSW20L-W-D	CCW					

*) The clamping force and the holding capacity above are at 0.5 MPa.

AMWSW-W-AG (Gasket Piping)

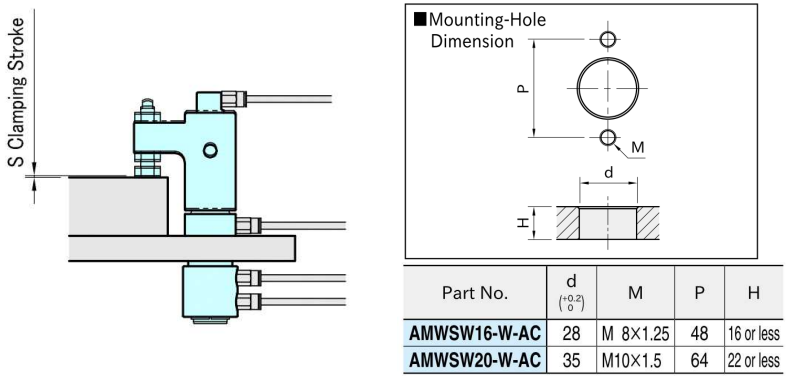


Part No.	d (+0.2 0)	H	d1 (H8)	H1	H2	d2	H3	P1	H4	H5	M	P
AMWSW16-W-AG	28	10	20	23	6	21	56 or more	12	26	54	M 8×1.25	48
AMWSW20-W-AG	35	12	25	29	10	26	66 or more	16	32	64	M10×1.5	64

Part Number	Clamping Direction	S	Operating Air Pressure (MPa)	Clampig Force (kN) ∗)	Holding Capacity (kN) ∗)	Weight (g)
AMWSW16R-W-AG	CW	1.2	0.5 to 0.7	0.35	0.7	540
AMWSW16L-W-AG	CCW					
AMWSW20R-W-AG	CW	1.6		0.55	1.1	1180
AMWSW20L-W-AG	CCW					

∗) The clamping force and the holding capacity above are at 0.5 MPa.

AMWSW-W-AC (Thread Piping)



Part No.	d (+0.2 0)	M	P	H
AMWSW16-W-AC	28	M 8×1.25	48	16 or less
AMWSW20-W-AC	35	M10×1.5	64	22 or less

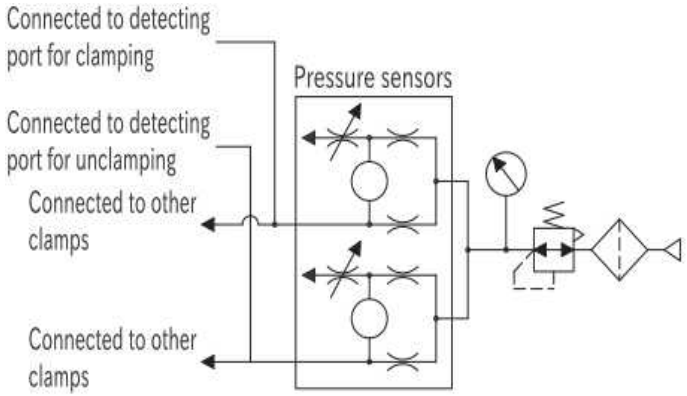
Part Number	Clamping Direction	S	Operating Air Pressure (MPa)	Clampig Force (kN) ∗)	Holding Capacity (kN) ∗)	Weight (g)
AMWSW16R-W-AC	CW	1.2	0.5 to 0.7	0.35	0.7	580
AMWSW16L-W-AC	CCW					
AMWSW20R-W-AC	CW	1.6		0.55	1.1	1240
AMWSW20L-W-AC	CCW					

∗) The clamping force and the holding capacity above are at 0.5 MPa.

* Notes *
Attach the collar and the retaining ring to the product by yourself.
The collar rotates for 360° freely.
Set the collar to your desired position.

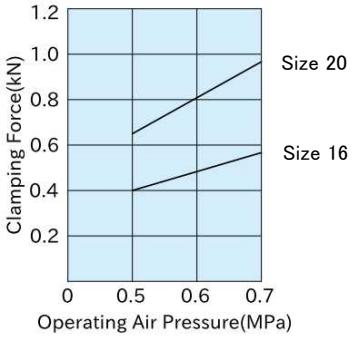
Connection with Pressure Sensors

To check clamping/unclamping conditions, pressure sensor is required.
Refer to the figure below for piping.

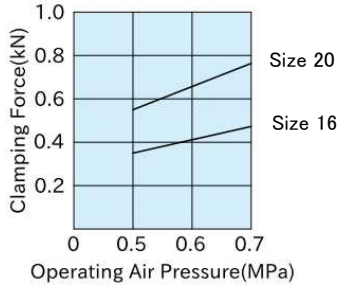


Technical Information

〈AMWSW-W〉



〈AMWSW-W-D, AMWSW-W-AG, AMWSW-W-AC〉



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