AMWSW-W-AG

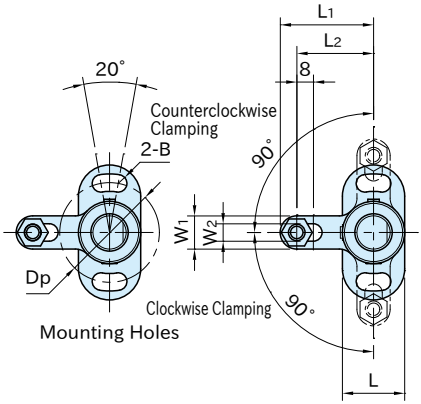
COMPACT PNEUMATIC SWING CLAMPS WITH DETECTING PORTS (Gasket Piping)

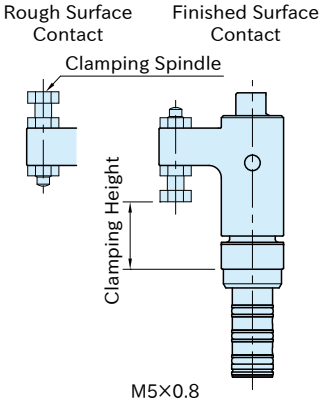
RoHS

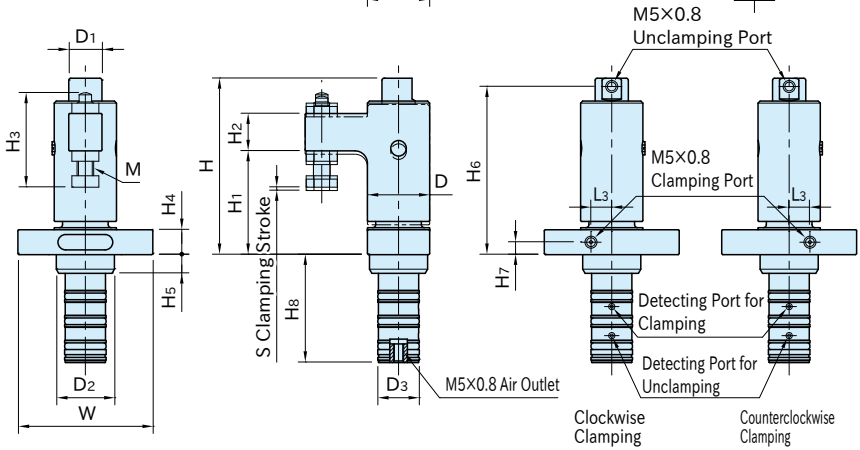
IMAO

★Key Point
Compact design!

Body / Clamp Arm/ Piston	Holder	Clamping Spindle
SCM440 steel Electroless nickel plated	A5056 aluminum Anodized	S45C steel Quenched and tempered Electroless nickel plated







Note

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

Part Number	Clamping Direction	Clamping Height *)				S	L_2	L_1	W	L	H_4	B	Dp	H	D	W_1	W_2	H_2	H_1
		Finished Surface Contact		Rough Surface Contact															
		Min.	Max.	Min.	Max.														
AMWSW16R-W-AG	CW	32.5	39	33.5	40	1.2	37	45	65	30	12	8.4	48	85	30	16	8.4	18	50
AMWSW16L-W-AG	CCW																		
AMWSW20R-W-AG	CW	41.5	51	44	53.5	1.6	45	55	85	40	15	10.5	64	106	40	20	10.4	22	65
AMWSW20L-W-AG	CCW																		

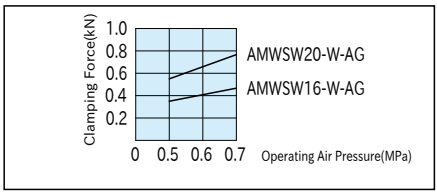
Part Number	M	H_3	D_1	D_2	H_5	L_3	H_6	H_7	H_8	D_3	Operating Air Pressure(MPa)	Clamping Force(kN) **)	Holding Capacity(kN) **)	Weight (g)
AMWSW16R-W-AG	M 8×1.25	45.5	16	28	9	10	81	6	52	20	0.5～0.7	0.35	0.7	540
AMWSW16L-W-AG														
AMWSW20R-W-AG	M10×1.5	57	22	35	11	13	101	8	62	25		0.55	1.1	1180
AMWSW20L-W-AG														

*) Clamping height can be adjusted within this range. **) The clamping force and the holding capacity above are at 0.5 MPa.

Feature

Using with pressure sensors, clamping/unclamping conditions can be detected.

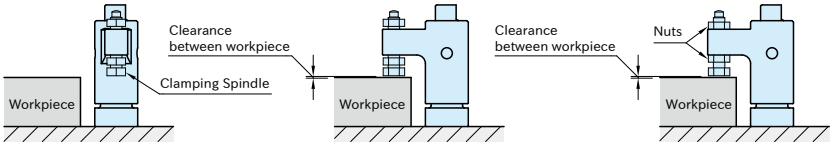
Performance Curve



How To Use

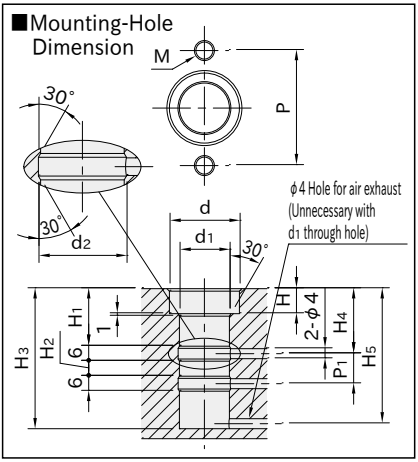
■Setting Clearance between Workpiece

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.



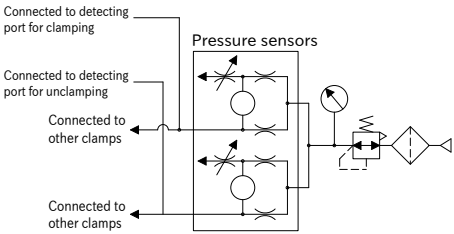
1. Apply air to the unclamping port with an air blow gun to move the clamp to unclamping position.
2. Rotate the arm manually to straight direction, and create an appropriate clearance to the workpiece. Putting a feeler gauge between the workpiece and the clamping spindle facilitates this setting.
3. Fix the clamping spindle with nuts.

■Mounting-Hole Dimension



■Connection with Pressure Sensors

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



Part No.	d (+0.2 0)	H	d1 (H8)	H_1	H_2	d_2	H_3	P_1	H_4	H_5	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