

AMWS-W

PNEUMATIC SIDE CLAMPS

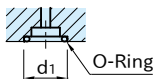
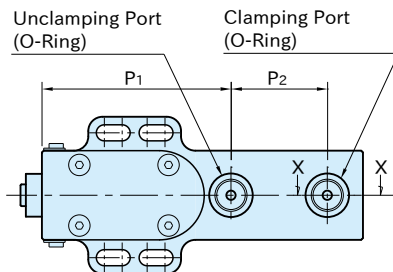
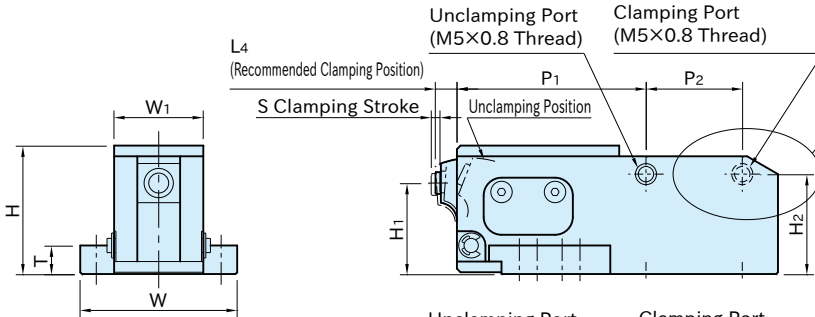
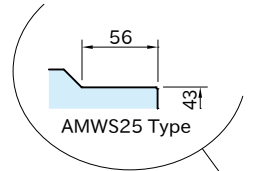
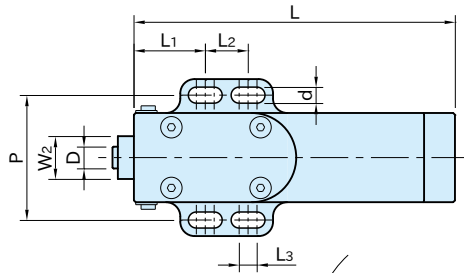
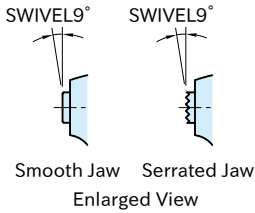


AMWS16-W



AMWS25-W

Body	Clamp Arm	Jaw
A5052 aluminum Anodized	SCM415 steel Carburized- hardened	SKH51 steel Quenched & tempered



Section X-X

Part Number	Jaw Type	D	H ₁	L ₄	S	L	W ₁	H	W	T	d	L ₁	L ₂
AMWS16F-W	Smooth	6	25.5	6	2	90	25	36	44	8	4.5	20	12
AMWS16S-W	Serrated												
AMWS25F-W	Smooth	8.5	39.5	12	3	135	40	54	65	12	6.5	30	20
AMWS25S-W	Serrated												

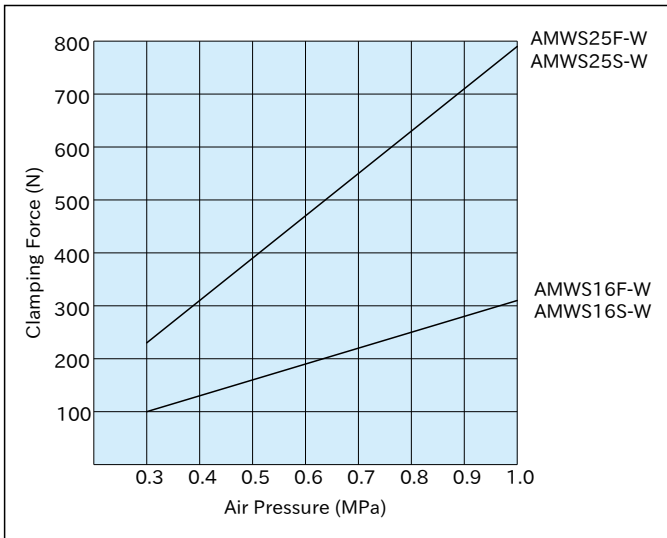
Part Number	L ₃	P	d ₁	P ₁	P ₂	H ₂	W ₂	Operating Air Pressure(MPa)	Clamping Force (N)*	Furnished O-Ring	Weight (g)
AMWS16F-W	5	35	12.2	53	27	28	12	0.3~1.0	160	P 9	240
AMWS16S-W											
AMWS25F-W	8	53	18	84	38	33	18		390	P14	800
AMWS25S-W											

*) The clamping forces above are at 0.5 MPa.

Supplied With

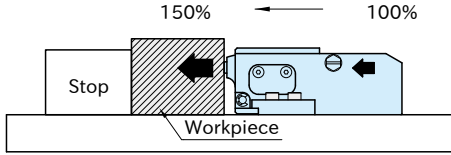
2 of O-Ring

Performance Curve

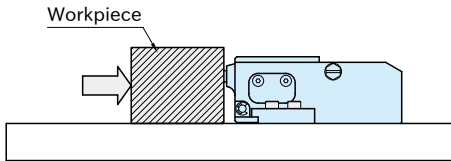


Feature

- Wedge mechanism increases clamping force by 150% compared to the air cylinder of the same size.



- Wedge mechanism prevents the clamp arm from being pushed back by counterforce.
 - When the air pressure is lowered by such as an air leakage, wedge mechanism prevents prompt lowering of the clamping force.
- Note: With a lowered air pressure, the clamping force may be lowered by excessive vibration.



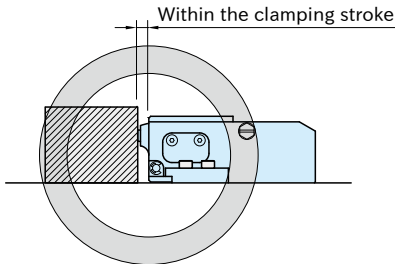
Allowable Counterforce (Per Clamp)

Type	Allowable Force (kN)
AMWS16-W	1.1
AMWS25-W	2.4

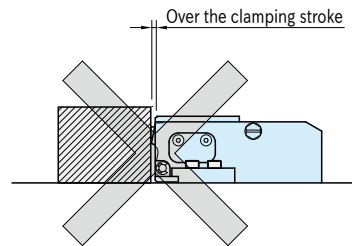
Wedge mechanism provides secure holding even with counterforce against the clamping direction.

Note

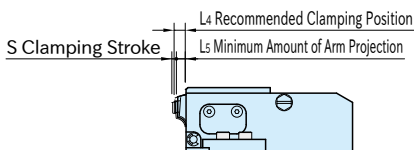
- Use clean air by removing dust with filter or draining with dryer.
- Impure compressed air may cause malfunction of the products.
- Using lubricator is recommended.
- Use the clamp within the clamping stroke.



The wedge mechanism works to clamp the workpiece securely.



The wedge mechanism does not work.

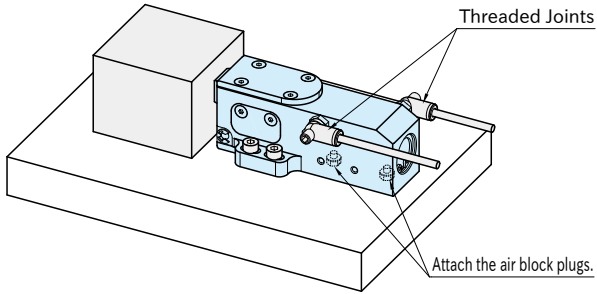


Type	S	L4	L5
AMWS16-W	2	6	5
AMWS25-W	3	12	10.5

How To Use

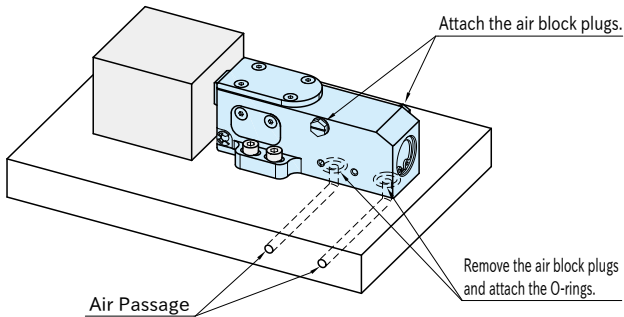
■ With Side Ports

- Ensure that the furnished air block plugs are attached to the bottom ports.
- Remove the air block plugs on the side ports and connect the piping.
- Refer to the figure below for the hole preparation.

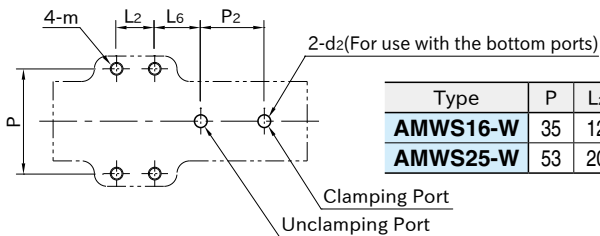


■ With Bottom Ports

- Ensure that the furnished air block plugs are attached to the side ports.
- Remove the air block plugs on the bottom ports and attach O-rings (included) to it.
- Plate surface must be flat ($\frac{0.3}{\sqrt{r}}$) to get the bottom ports sealed up.
- Refer to the figure below for the hole preparation.



■ Hole Preparation



Type	P	L ₂	L ₆	P ₂	m	d ₂
AMWS16-W	35	12	21	27	M4×0.7	φ 2~φ 4
AMWS25-W	53	20	34	38	M6×1	φ 2~φ 6