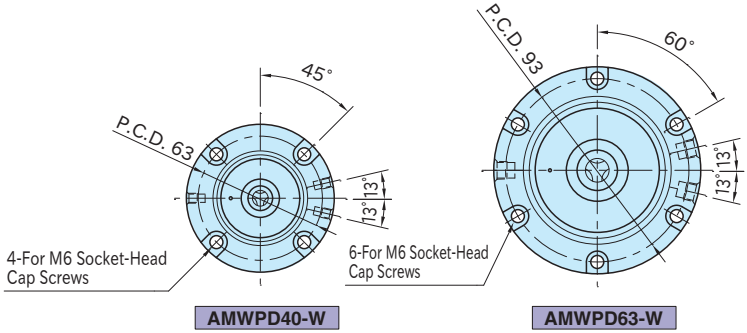
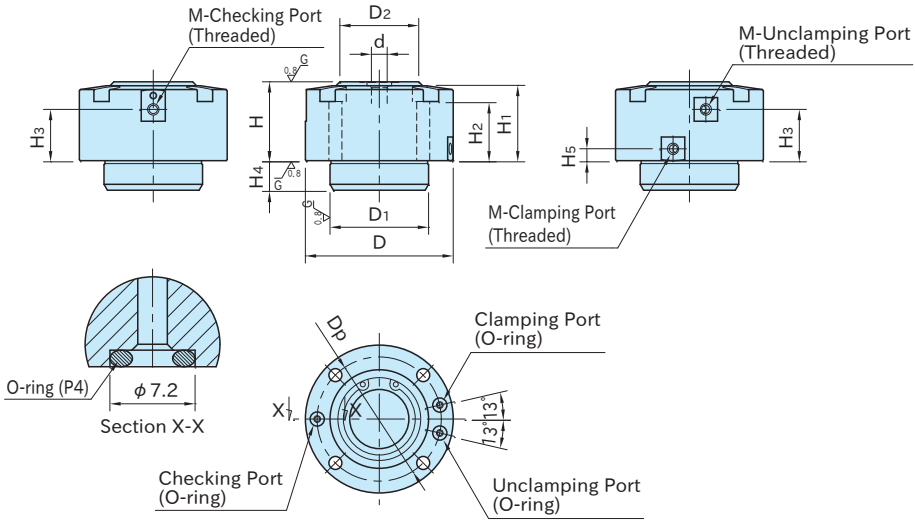
AMWPD-W PNEUMATIC PULL CLAMPS

Body	Cylinder
Steel (S45C) Induction hardened (top surface) Black oxide finished Precision ground	Steel (SCM440) ISONITE Treated

★Key Point

High clamping force by wedge mechanism.





Part Number	d (F7)	D_2	H (±0.01)	D	H_1	D_1 (g6)	H_4	H_2	Dp *)	M	H_3	H_5
AMWPD40-W	8	40	40	75	38	50	15	30	63	M5×0.8	26	6
AMWPD63-W	12	63	50	105	47	75	19	35	88	Rc1/8	31	10

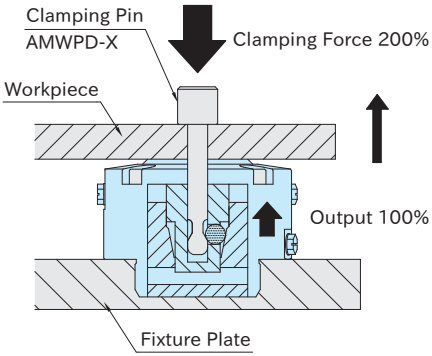
Part Number	Furnished O-ring	Usage Pressure (MPa)	Clamping Force (kN) **)	Weight (kg)
AMWPD40-W	P4	0.3~1.0	1	1.3
AMWPD63-W			2.5	3.2

*) The dimensions above are for ports with o-ring.
**) The clamping forces above are at 0.5 MPa.

Features

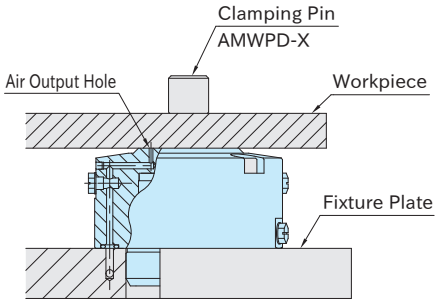
■High Clamping Force

- Wedge mechanism increases clamping force to 200% compared to the air cylinder of the same size.
- When the air pressure is lowered by such as an air leakage, wedge mechanism prevents prompt lowering of the clamping force.



■Checking Hole

- Can check an air leakage from the checking hole on top surface of the body.

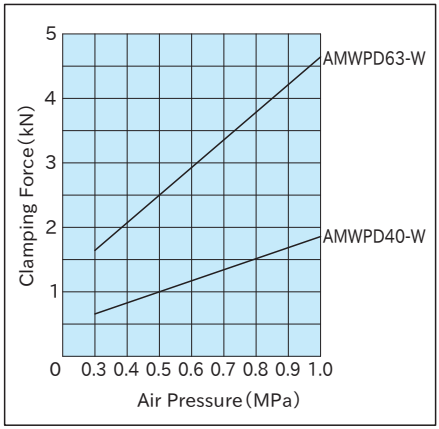


Technical Information

■Allowable Counterforce (Per Clamp)

Part Number	Max. load (N)
AMWPD40-W	Clamping force × 2
AMWPD63-W	

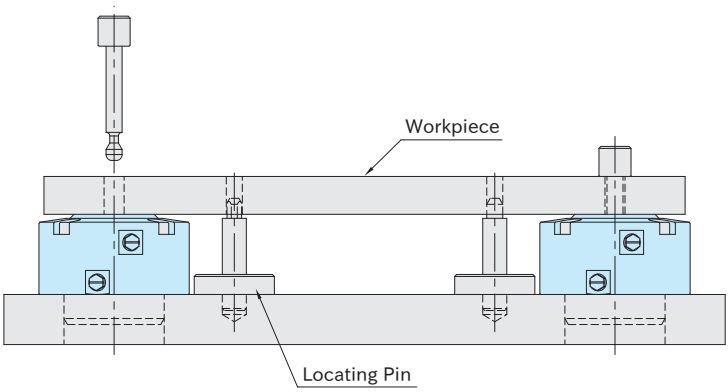
Performance Curve



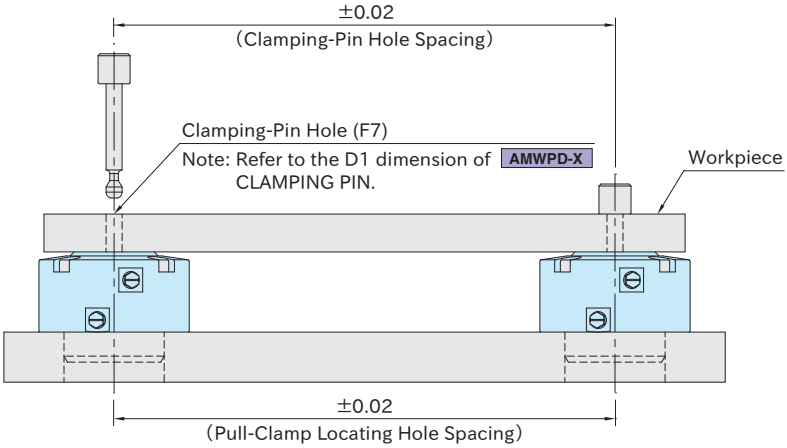
How To Use

■How To Locate Workpiece

1. Basic Method

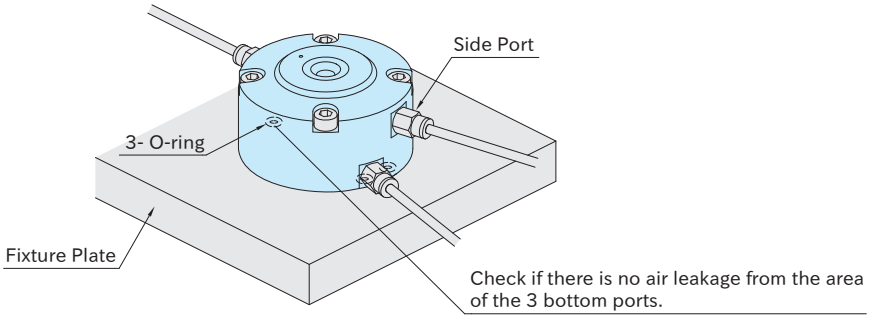


2. Method for clamping and locating at a time
   Locating Accuracy ±0.08

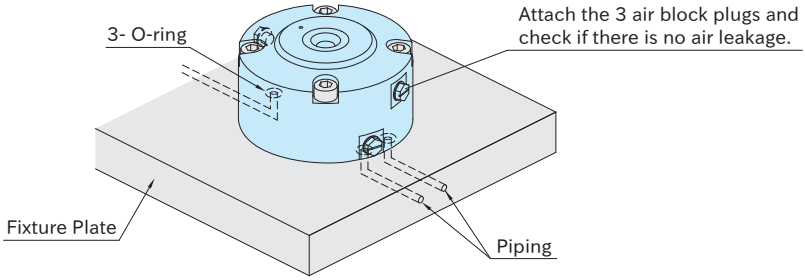


■How To Mount

1. To Use with the Side Ports
   - Attach the furnished o-rings to the bottom ports.
   - Plate surface must be flat ($\sqrt{}^{6.3}$) to get the bottom ports sealed up.
   - Check if there is no air leakage from the area of the bottom ports.



2. To Use with the Bottom Ports
   - Attach the furnished o-rings to the bottom ports.
   - Plate surface must be flat ($\sqrt{}^{6.3}$) to get the bottom ports sealed up.
   - Refer to the figure below for the hole details.
   - Ensure that the furnished air block plugs are attached to the side ports.



■Hole Preparation