

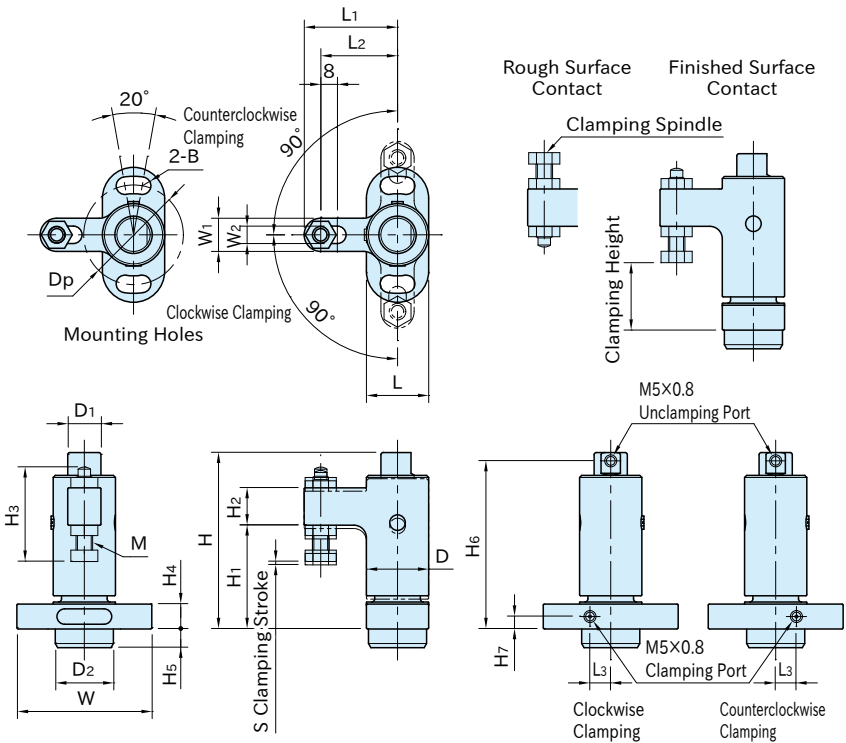
# AMWSW-W

# COMPACT PNEUMATIC SWING CLAMPS



|   |  |
|---|--|
| Body / Clamp Arm / Piston                 | Clamping Spindle   |
| SCM440 steel<br>Electroless nickel plated | S45C steel<br>Quenched and tempered<br>Electroless nickel plated |

★ Key Point  
Compact design!



| Part Number | Clamping Direction | Clamping Height *)       |      |                       |      | S   | L <sub>2</sub> | L <sub>1</sub> | W  | L  | H <sub>4</sub> | B    | D <sub>p</sub> | H   | D  | W <sub>1</sub> | W <sub>2</sub> | H <sub>2</sub> | H <sub>1</sub> |
|-------------|--------------------|--------------------------|------|-----------------------|------|-----|----------------|----------------|----|----|----------------|------|----------------|-----|----|----------------|----------------|----------------|----------------|
|             |                    | Finished Surface Contact |      | Rough Surface Contact |      |     |                |                |    |    |                |      |                |     |    |                |                |                |                |
|             |                    | Min.                     | Max. | Min.                  | Max. |     |                |                |    |    |                |      |                |     |    |                |                |                |                |
| AMWSW16R-W  | 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  | CCW                |                          |      |                       |      |     |                |                |    |    |                |      |                |     |    |                |                |                |                |
| AMWSW20R-W  | 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  | CCW                |                          |      |                       |      |     |                |                |    |    |                |      |                |     |    |                |                |                |                |

| Part Number | M        | H <sub>3</sub> | D <sub>1</sub> | D <sub>2</sub> | H <sub>5</sub> | L <sub>3</sub> | H <sub>6</sub> | H <sub>7</sub> | Operating Air Pressure (MPa) | Clamping Force (kN **) | Holding Capacity (kN **) | Weight (g) |
|-------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------|------------------------|--------------------------|------------|
| AMWSW16R-W  | M 8×1.25 | 45.5           | 16             | 28             | 9              | 10             | 81             | 6              | 0.5~0.7                      | 0.4                    | 0.8                      | 500        |
| AMWSW16L-W  |          |                |                |                |                |                |                |                |                              |                        |                          |            |
| AMWSW20R-W  |          |                |                |                |                |                |                |                |                              | M10×1.5                | 57                       | 22         |
| AMWSW20L-W  |          |                |                |                |                |                |                |                |                              |                        |                          |            |

\*) Clamping height can be adjusted within this range.

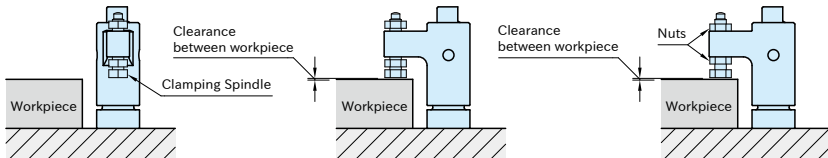
\*\*) The clamping force and the holding capacity above are at 0.5 MPa.

## 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.

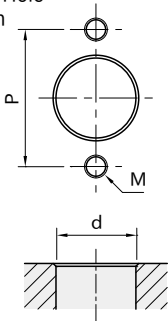


1. Apply air to the unclamping port with an air blow gun to move the clamp to unclamping position.

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.

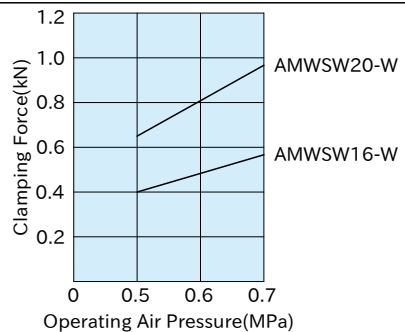
3. Fix the clamping spindle with nuts.

### ■ Mounting-Hole Dimension



| Part No.  | d<br>( <sup>+0.2</sup> / <sub>0</sub> ) | M        | P  |
|-----------|---|----------|----|
| AMWSW16-W | 28                                      | M 8×1.25 | 48 |
| AMWSW20-W | 35                                      | M10×1.5  | 64 |

### Performance Curve



### Note

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