

For Low Pressure

# SMALL CUPLA

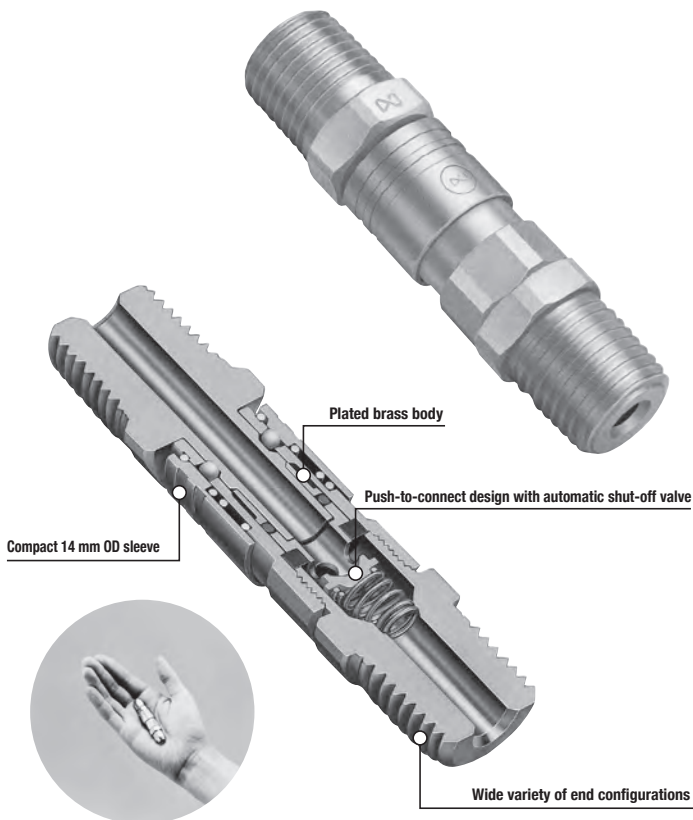
Lightweight and compact for use on air lines and scientific equipment

<b>Working pressure</b>	<b>Valve structure</b>	<b>Applicable fluids</b>	
1.0 MPa (10 kgf/cm <sup>2</sup> )	One-way shut-off	Air	Water (Tube Fitter type is unsuitable for water.)

## Lightweight and compact push-to-connect operation. Responding to requirements of modular combinations.

- Compact socket with built-in valve and 14 mm OD sleeve.
- Suits applications calling for compact and modular components.
- Just push in the plug to the socket for connection by easy one hand operation.
- Plated brass for corrosion resistance adopted for the body.
- Stable performance for long life.
- A wide line-up of end configurations (female and male threads, hose barb, manifolds) enables suitability with a wide range of piping applications such as pneumatic, scientific and medical equipment.
- Also available with quick connect/disconnect Tube Fitter type.

Note: Fluid will flow out from the plug side when disconnected.  
Take necessary precautions if the fluid is water.



### Specifications

<b>Body material</b>	CUPLA : Brass (Chrome plated) Tube Fitter Part : Brass (Nickel plated) , Plastic			
<b>Size</b>	<b>Thread</b>	1/8", 1/4"		
	<b>Hose barb</b>	Polyamide hose: $\phi 4 \times \phi 6$ , $\phi 4.5 \times \phi 6$ Urethane hose: $\phi 4 \times \phi 6$		
	<b>Tube barb (Tube fitter)<sup>*1</sup></b>	Polyurethane tube: Outside Dia. $\phi 6 \pm 0.1$ , $\phi 8 \pm 0.15$ Polyamide tube: Outside Dia. $\phi 6^{+0.05}_{-0.08}$ , $\phi 8^{+0.05}_{-0.1}$ Fluorine contained resin tube: Outside Dia. $\phi 6 \pm 0.07$ , $\phi 8 \pm 0.07$		
<b>Pressure unit</b>	<b>MPa</b>	<b>kgf/cm<sup>2</sup></b>	<b>bar</b>	<b>PSI</b>
<b>Working pressure</b>	1.0	10	10	145
<b>Seal material</b>	<b>Seal material</b>	<b>Mark</b>	<b>Working temperature range</b>	<b>Remarks</b>
	Nitrile rubber	NBR	-20°C to +80°C	Standard material

- Above specifications apply only to CUPLA. Maximum working pressure and working temperature range may vary depending on the tube materials used with and the working temperature.  
- Hose size is indicated as inner diameter x outer diameter.

\*1: When connecting an extremely soft tube such as soft polyurethane or soft nylon, attach the insert ring specified by the tube manufacturer to the inner diameter of the tube to be connected.

\*2: The operable temperature range depends on the operating conditions.

### Maximum Tightening Torque Nm {kgf·cm}

<b>Size (Thread)</b>	<b>1/8"</b>	<b>1/4"</b>	<b>PN, SN Type</b>
<b>Torque</b>	5 {51}	9 {92}	5 {51}

### Flow Direction

Fluid flow can be bi-directional when socket and plug are connected.



### Interchangeability

Sockets and plugs can be connected regardless of end configurations.

### Minimum Cross-Sectional Area (mm<sup>2</sup>)

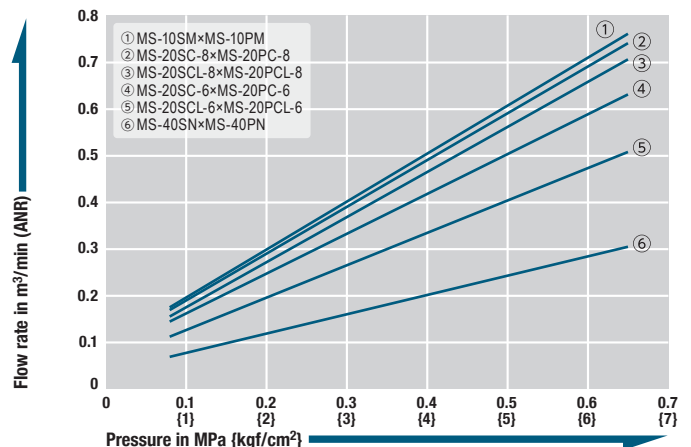
Model	MS-10SM x MS-10PM	MS-20SM x MS-20PM	MS-40SN x MS-40PN	MS-45SN x MS-45PN	Tube Fitter Type for 6 mm OD tube	Tube Fitter Type for 8 mm OD tube
Minimum cross-sectional area	12.5	12.5	4.9	7	12.5	12.5

### Suitability for Vacuum 53.0 kPa {400 mmHg}

<b>Socket only</b>	<b>Plug only</b>	<b>When connected</b>
—	—	Operational

### Pressure - Flow Characteristics

[Test conditions] - Fluid : Air - Tube size :  $\phi 6 \text{ mm} \times \phi 4 \text{ mm}$ ,  $\phi 8 \text{ mm} \times \phi 6 \text{ mm}$  (SMALL CUPLA with Tube Fitter)



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