

For Air

Small Cupla

Lightweight and compact for use on air lines and scientific equipment

Working pressure



0.7 MPa
(7 kgf/cm²)

Valve structure



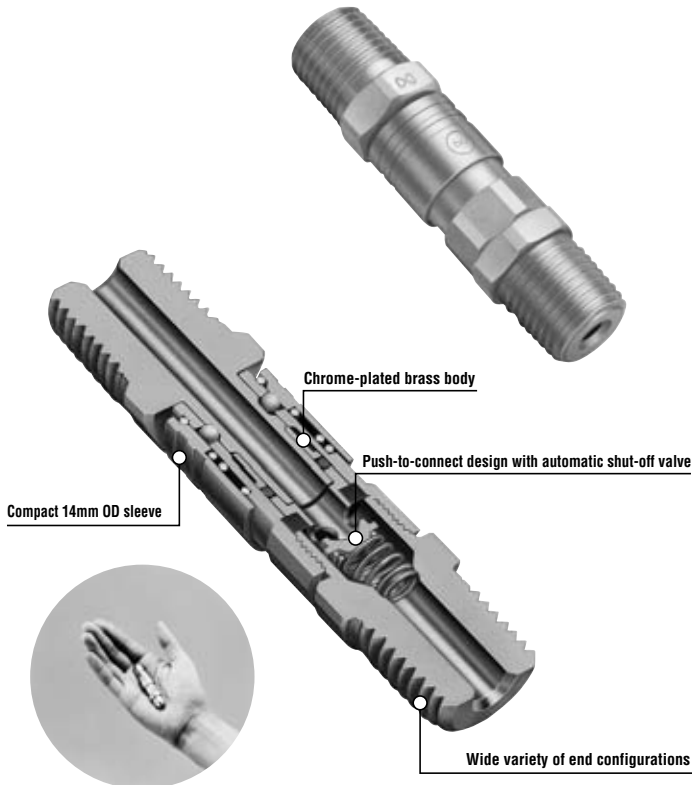
One-way shut-off

Applicable fluids



Air

Water (Tube Fitter type is unsuitable for water.)



Specifications

Body material	Cupla : Brass (Chrome-plated) Tube Fitter Type: Brass (Nickel-plated)			
Size	1/8" • 1/4"			
Tube size (for Tube Fitter end configurations)	Polyurethane : $\phi 6 \pm 0.1$ • $\phi 8 \pm 0.15$ Nylon : $\phi 6^{+0.05}_{-0.08}$ • $\phi 8^{+0.05}_{-0.1}$ Teflon : $\phi 6 \pm 0.07$ • $\phi 8 \pm 0.07$			
Working pressure MPa (kgf/cm ²)	0.7 {7}			
Pressure resistance MPa (kgf/cm ²)	1.1 {11}			
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-5°C~+60°C	Standard material

• Above specifications apply only to Cuplas. Working pressure, pressure resistance and working temperature range may vary depending on tube materials you use with and temperature conditions you use under. Micro Cupla with Tube Fitter has NBR packing material only.

Max. Tightening Torque

N·m (kgf·cm)

Size	1/8"	1/4"	Nut type
Torque	7 {71}	9 {92}	5 {51}

Flow Direction

Air flows in either direction from plug or socket side when coupled.



Interchangeability

Sockets and plugs can be connected regardless of end configurations.

Min. Cross-Sectional Area

(mm²)

Model	MS-10SP	MS-20SP	MS-40SPN	MS-45SPN	Tube Fitter Type for 6mm OD tube	Tube Fitter Type for 8mm OD tube
Min. Cross-Sectional Area	12.5	12.5	4.9	7	12.5	12.5

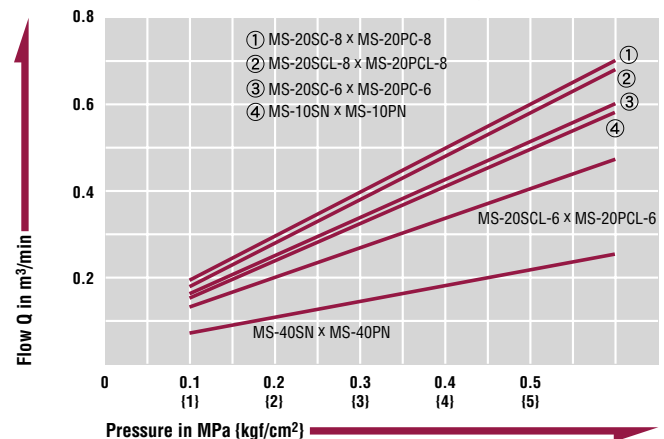
Suitability for Vacuum

53.0kPa (400mmHg)

Socket only	Plug only	When connected
—	—	Operational

Pressure - Flow Characteristics

[Test conditions] • Fluid : Air • Temperature : Room temperature
• 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)



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

- Compact socket with built-in valve and 14mm 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.
- Chrome-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 barbs, manifolds) enables suitability with a wide range of piping applications such as pneumatic, scientific and medical equipment.
- Also available with Tube Fitter quick connect/disconnect type.

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