### For Low Pressure

# Micro Cupla

For piping in pneumatic control devices







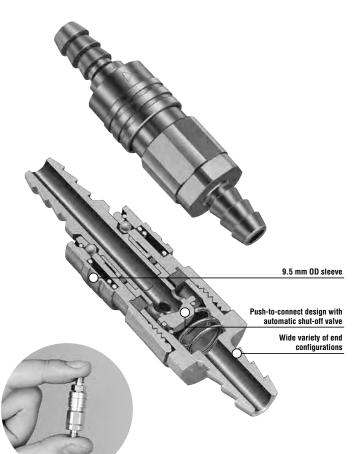


## **Compact, lightweight Cuplas with only** 9.5 mm outer diameter.

## **Push-to-connect operation. Tube Fitter** type for even easier tube insertion.

- Even though the valve is built in the socket, the sleeve outer diameter is confined to 9.5 mm.
- Push-to-connect design.
- Compact design for piping in narrow spaces.
- Plated brass and stainless steel bodies are available for excellent corrosion
- Available in various end configurations to satisfy a wide range of pneumatic

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



Specifications						
Body material		Cupla : Brass (Plated), Stainless steel (SUS 304) Tube Fitter Part : Brass (Plated)				
	Thread	1/8" , M5 x 0.8				
Size		Tube ID ø3, ø4				
	Tube barb (Tube fitter)	Polyurethane tube: Outside Dia. ø4 ± 0.1, ø6 ± 0.1				
		Polyamide tube: Outside Dia. ø4 <sup>+0.05</sup> <sub>-0.08</sub> , ø6 <sup>+0.05</sup> <sub>-0.08</sub>				
		Fluorine contained resin tube: Outside Dia. ø4 $\pm$ 0.05, ø6 $\pm$ 0.07				
Pressure unit		MPa	kgf/cm²	bar	PSI	
Working pressure		1.0	10	10	145	
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks	
		Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material	
		Fluoro rubber	FKM (X-100)	-20°C to +180°C	Made-to-order item(s)	

Above specifications apply only to Cuplas. Max working pressure and working temperature range may vary depending on tube materials you use with and the working temperature. Cupla with Tube Fitter has NBR packing material only.

Max. Tightening Torque			Nm {kgf•cm}		
Size (Thread)		M5×0.8	R 1/8		
Torque	Brass	1.3 {13}	5 {51}		
	Stainless steel		7 {71}		

# **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.

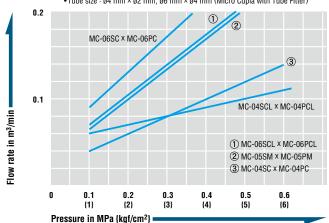
Min. Cross-Sectional Area (mm²)						
Model	MC-03SP	MC-04SP	MC-05SP	MC-10SP	Tube Fitter Type for 4 mm OD tube	Tube Fitter Type for 6 mm OD tube
Min. cross-sectional area	1.1	4.9	4.9	4.9	4.9	4.9

Suitability for Vacuum		53.0 kPa {400 mmHg}		
Socket only	Plug only	When connected		
_	_	Operational		

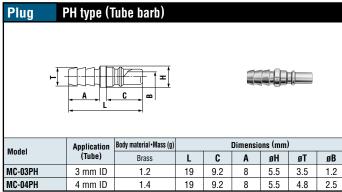
#### **Pressure - Flow Characteristics**

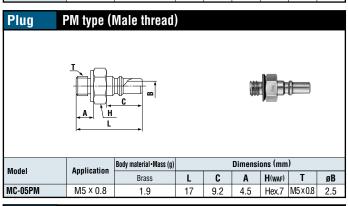
[Test conditions] •Fluid : Air •Temperature : Room temperature

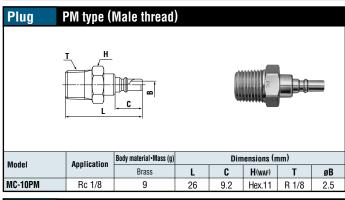
•Tube size : ø4 mm × ø2 mm, ø6 mm × ø4 mm (Micro Cupla with Tube Fitter)

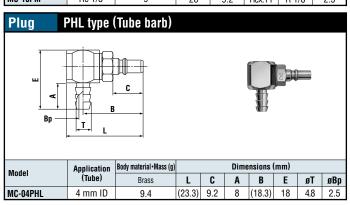


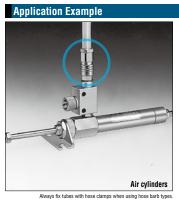
**Models and Dimensions** WAF : WAF stands for width across flats

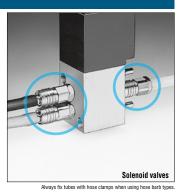


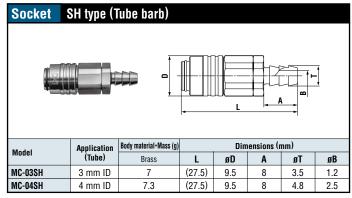


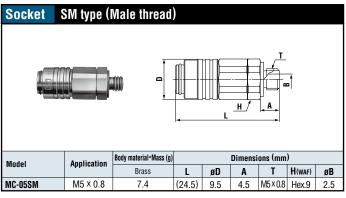


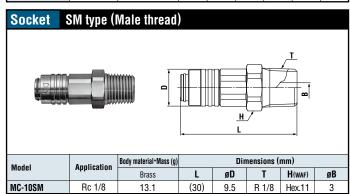


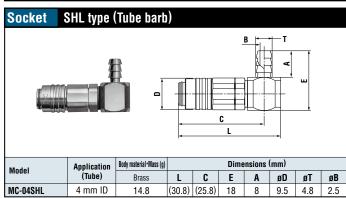


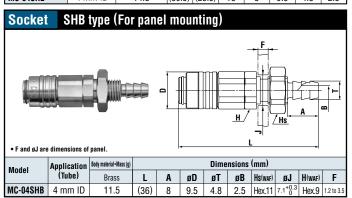






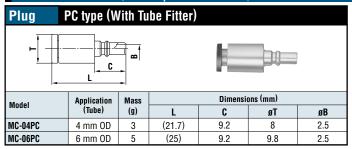


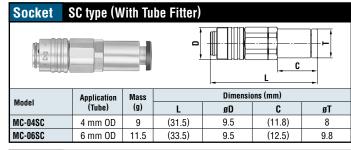


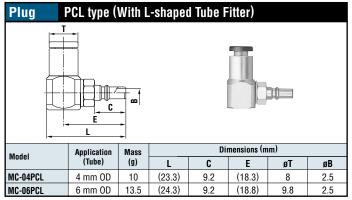


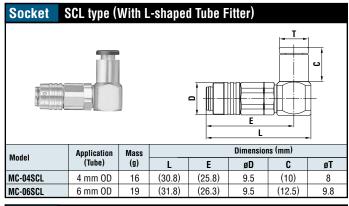
WAF: WAF stands for width across flats.

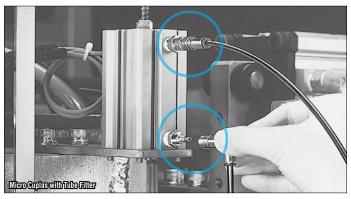
#### Models and Dimensions (Micro Cupla with Tube Fitter)

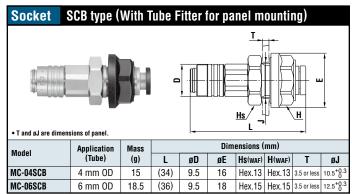


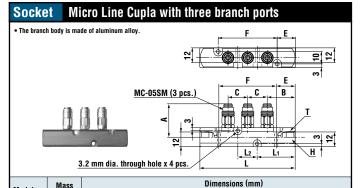












Α

В

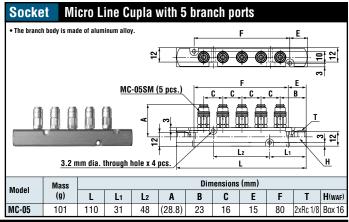
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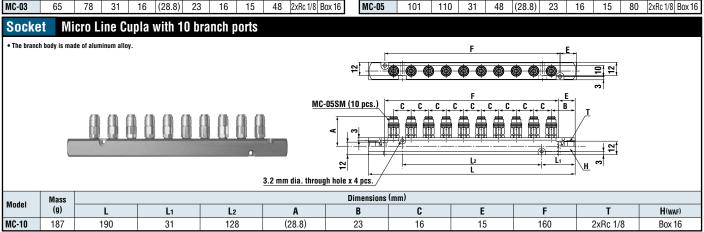
T H(WAF)

Models and Dimensions (Micro Line Cupla)

Mass

Model

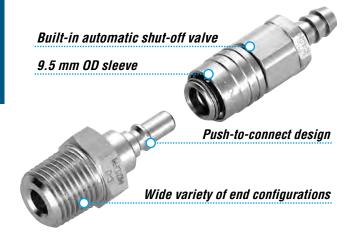


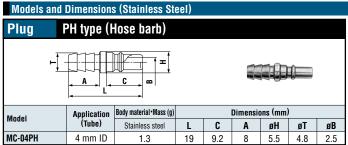


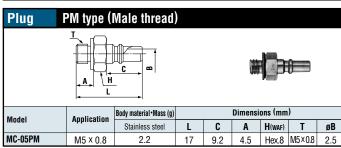
# **Micro Cupla**

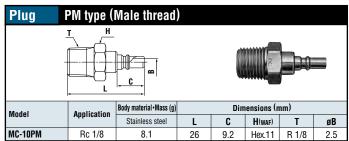
**Stainless Steel Models** 

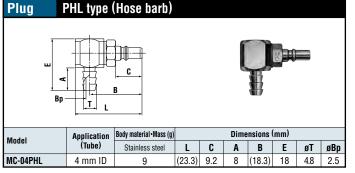
## **Highly Corrosion-resistant Stainless Steel Micro Cupla**

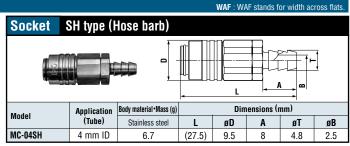


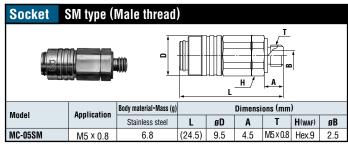


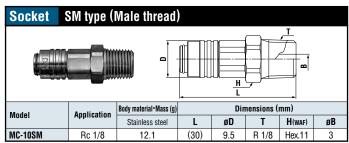


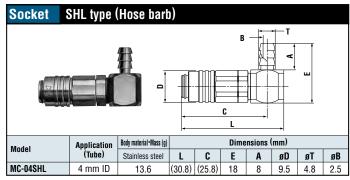


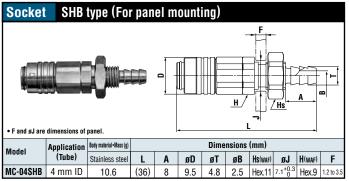












Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products