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 resistance.
- Available in various end configurations to satisfy a wide range of pneumatic applications.

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 Type : Brass (Chrome-plated)				
Thread		d	1/8" , M5 x 0.8			
Size	Tube barb (Tube fitter)		Tube ID ø3, ø4			
			Polyurethane tube: Outside Dia. $ø4 \pm 0.1$, $ø6 \pm 0.1$			
			Polyamide tube: Outside Dia. ø $4^{+0.05}_{-0.08}$, ø $6^{+0.05}_{-0.08}$			
			Fluorine contained resin tube: Outside Dia. ø4 \pm 0.05, ø6 \pm 0.07			
MPa		1.0				
Working	WLi		10			
Working pressure		bar	10			
		PSI	145			
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks	
		Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard materia	
		Fluoro rubber	FKM (X-100)	-20°C to +180°C	Made-to-order item(s	

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

Max. Tightening Torque	Nm {kgf•cm}	
Size (Thread)	M5 × 0.8	1/8"
Torque	1.3 {13}	7 {71}

Flow Direction

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



Interchangeability

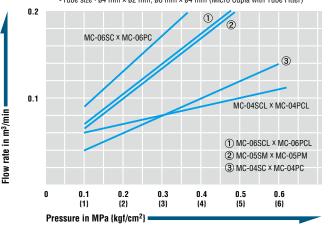
Sockets and plugs can be connected regardless of end configurations.

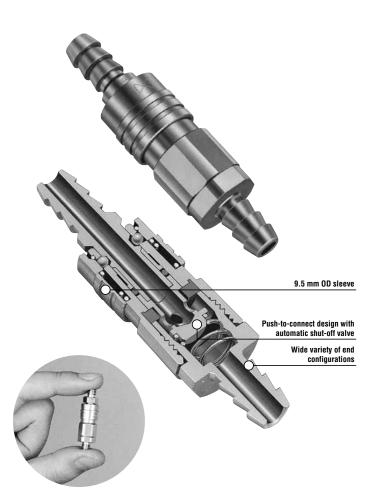
Min. Cross-Sectional Area (mm²)						
Model	MC-03SP	MC-04SP	MC-05SP	MC-10SP	Tube Fitter Type for 4 mm OD tube	Tube Fitter Type for 6 mm OD tube
Min. cross-sectional area	1.1	4.9	4.9	4.9	4.9	4.9

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

Pressure - Flow Characteristics







Micro Cupla (Brass)

øB

1.2

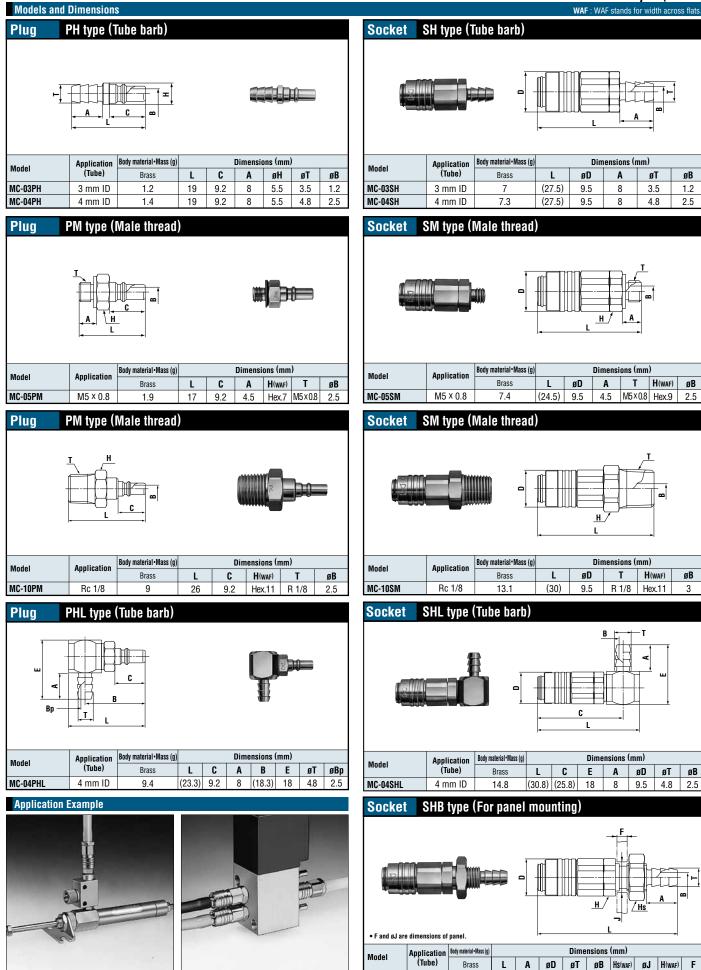
2.5

øB

3

øT øВ

4.8 2.5



Air cylinders

MC-04SHB 4 mm ID

Solenoid valves

Always fix tubes with hose clamps when using hose barb types

11.5

(36)

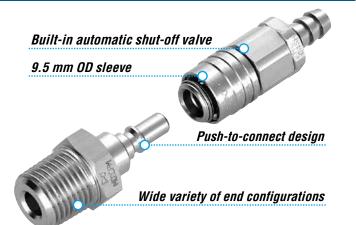
F

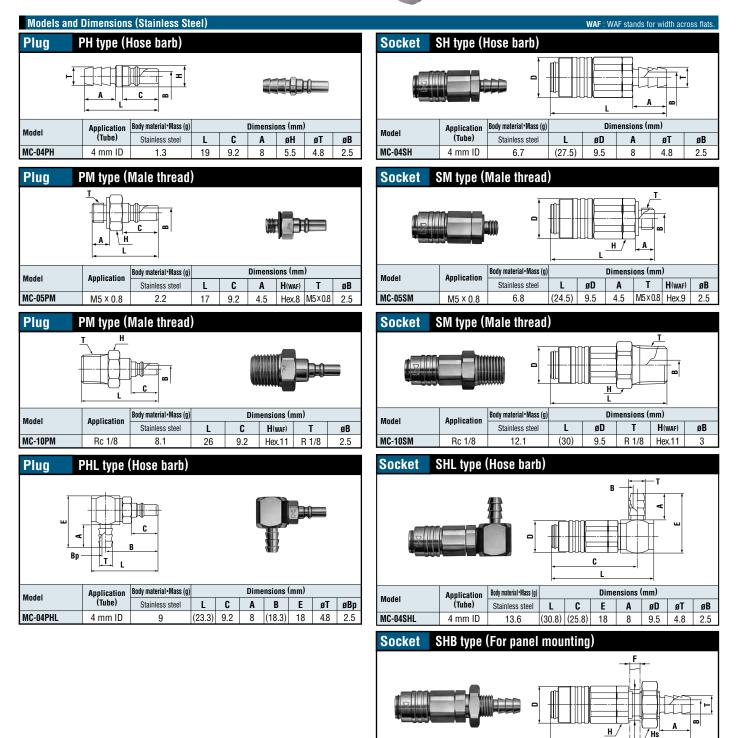
8 9.5 4.8 2.5 Hex.11 7.1^{+0.3} Hex.9 1.2 to 3.5

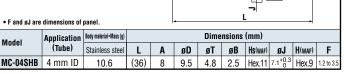
Micro Cupla

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

