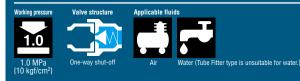
For Low Pressure

Small Cupla

Lightweight and compact for use on air lines and scientific equipment

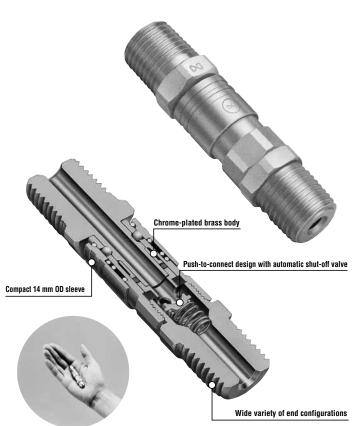


Lightweight and compact push-toconnect operation. Responding to requirements of modular combinations.

- 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.
- 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 quick connect/disconnect Tube Fitter type.

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



Specifications						
Body material			Cupla : Brass (Chrome-plated) Tube Fitter Type: Brass (Nickel-plated)			
	Thread		1/8", 1/4"			
Size	Hose barb		Polyamide hose: ø4 x ø6, ø4.5 x ø6 Urethane hose: ø4 x ø6			
	Tube b (Tube fi		Polyurethane tube: Outside Dia. $\emptyset 6 \pm 0.1$, $\vartheta 8 \pm 0.15$ Polyamide tube: Outside Dia. $\vartheta 6 \stackrel{+0.05}{-0.08}$, $\vartheta 8 \stackrel{+0.05}{-0.1}$ Fluorine contained resin tube: Outside Dia. $\vartheta 6 \pm 0.07$, $\vartheta 8 \pm 0.07$			
MPa Working processo		1.0				
		10				
Working pressure bar PSI				10		
			145			
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks	
		Nitrile rubber	NBR (SG)		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 its working temperature range.

Max. Tightening Torque Nm {kgf•cm}					
Size (Thread)	1/8"	1/4"	PN • SN Type		
Torque	7 {71}	9 {92}	5 {51}		

Flow Direction

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



Interchangeability

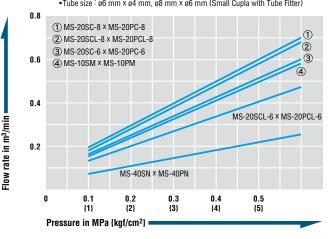
Sockets and plugs can be connected regardless of end configurations.

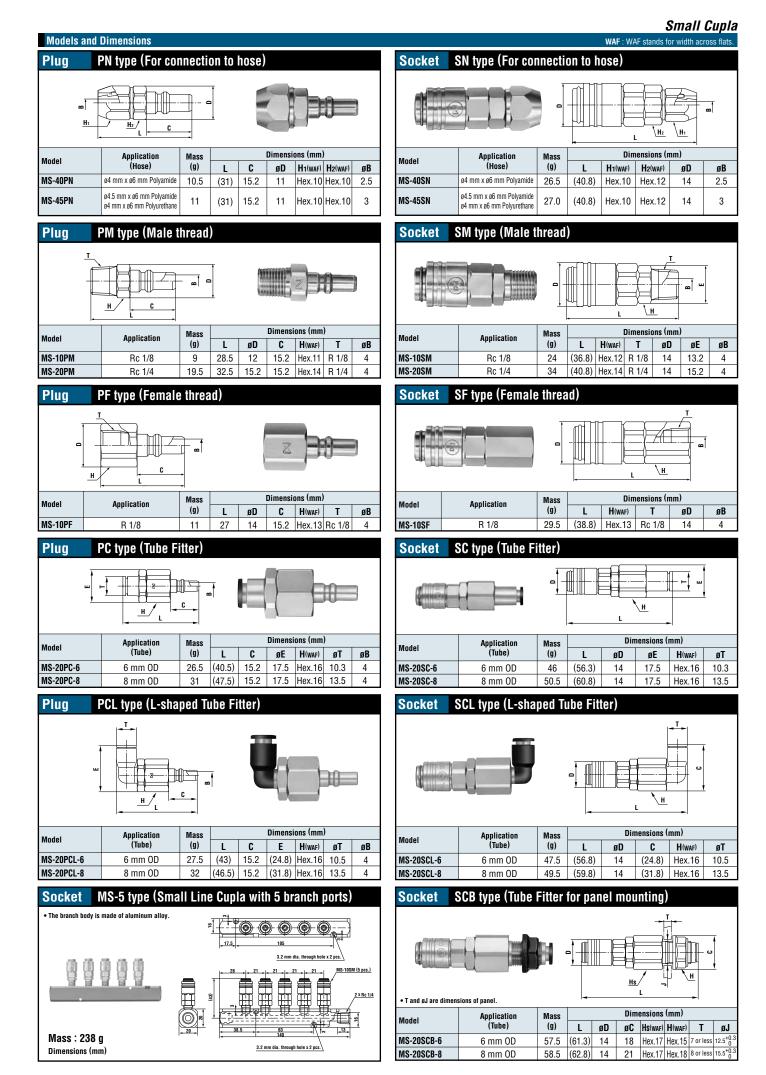
Min. Cross-Sectional Area (mm ²)						
Model	MS-10SM X MS-10PM	MS-20SM X MS-20PM	MS-40SN X MS-40PN	MS-45SN X MS-45PN	Tube Fitter Type for 6 mm OD tube	Tube Fitter Type for 8 mm OD tube
Min. cross- sectional area	12.5	12.5	4.9	7	12.5	12.5

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 : ø6 mm × ø4 mm, ø8 mm × ø6 mm (Small Cupla with Tube Fitter)





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