For Low Pressure

Compact Cupla

Small multipurpose type for low pressure lines









Compact 17.5 mm outer diameter, yet socket and plug have built-in automatic shut-off valves.

- Both socket and plug have built-in automatic shut-off valves.
- Compact size with max. outer dia. 17.5 mm.
- For small bore piping from temperature control piping to scientific equipment.
- Body materials in stainless steel (SUS304) or brass, excellent in corrosion resistance.
- · Four types of end configuration enable suitability with a wide range of piping applications.





Specifications					
Body material		Brass		Stainless steel (SUS 304)	
	Thread	1/8"			
Size	Tube barb	Polyamide tube : ø4 x ø6, ø6 x ø8 Polyolefin tube : ø4 x ø6, ø6 x ø8 Fluorine contained resin tube : ø4 x ø6, ø6 x ø8			
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
		Fluoro rubber	FKM	-20°C to +180°C	Standard material
		Ethylene-propylene rubber	EPDM	-40°C to +150°C	Available on request

Note: Max working pressure and working temperature range of nut type depend on the tube material and its

Max. Tightening Torque N m {kgf•cr			N m {kgf•cm}	
Size (Thread)		1/8"	Tube barb	
Torque	Brass	5 {51}	5 {51}	
	Stainless steel	9 {92}	7 {71}	

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

Socket and plug of Compact Cupla can be connected regardless of end configurations.

Min. Cross-Sectional Area (mm²)				
Model	CO-1SM x CO-1PM	CO-1SF x CO-1PF	CO-40SN x CO-40PN	CO-60SN x CO-60PN
Min. cross- sectional area	8.8	8.8	4.9	8.8

Suitability for Vacuum	1.3	1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mmHg}		
Socket only	Plug only	When connected		
_	_	Operational		

Admixture of Air on Connection May vary depending upon the usage conditions.		
Volume of air admixture	0.34	

Volume of Spillage per Disconnection May vary depending upon the usage conditions.			
Volume of spillage	0.23		

Flow Rate - Pressure Loss Characteristics

[Test conditions] •Fluid : Water •Temperature : 20°C \pm 5°C



















