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)				
	Threa	ıd	1/8"			
Size	Tube barb		Polyamide tube : ø4 × ø6, ø6 × ø8			
			Polyolefin tube : ø4 × ø6, ø6 × ø8			
			Fluorine contained resin tube : ø4 × ø6, ø6 × ø8			
Working pressure Working pressure MPa kgf/cm ² bar PSI		1.0				
		kgf/cm²	10			
		bar	10			
		PSI	145			
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks	
		Fluoro rubber	FKM	-20°C to +180°C	Standard materia	
		Ethylene-propylene rubber	EPDM	-40°C to +150°C	Available on request	

Note: Working pressure and working temperature of nut type depend on the tube material and its dimensional tolerance.

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

Flow Direction

Fluid may flow in either direction from plug or from socket side when coupled.



Interchangeability

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

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

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

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

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

Flow Rate – Pressure Loss Characteristics

[Test conditions] •Fluid : Water •Temperature : $20^{\circ}C \pm 5^{\circ}C$

