For High Pressure

350 Cupla

For hydraulic pressures up to 34.5 MPa {352 kgf/cm²}

Their "airless valve shut-off design" greatly reduces air admixture! Ideal for hydraulic lines with larger pressure fluctuations.

- Locking mechanism to prevent accidental disconnection ensures tight connection even under vibration or impact.
- Both socket and plug have built-in automatic shut-off valves to prevent fluid spill out when disconnected. Easy to handle.

Specifications

Body material		Special steel (Nickel-plated)			
Size (Thread)		1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"			
Working pressure	MPa	34.5			
	kgf/cm²	352			
	bar	345			
	PSI	5000			
Seal material / Working temperature range	Seal material	Mark	Working temperature range	Remarks	
	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Standard material	
	Nitrile rubber	NBR (SG)	-20°C to +80°C	Made-to-order item	

Max. Tightening Torque

Nm {kgf·cm}

Size (Thread)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Torque	28 {286}	40 {408}	80 {816}	150 {1530}	250 {2550}	500 {5100}	500 {5100}	700 {7140}

Flow Direction

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

Interchangeability

Different size socket and plug cannot be connected each other.
However, 350-2SP with 350-3SP or 350-10SP with 350-12SP can be connected each other.

Min. Cross-Sectional Area

(mm²)

Model	350-2SP	350-3SP	350-4SP	350-6SP	350-8SP	350-10SP	350-12SP	350-16SP
Min. cross-sectional area	34.2	34.2	73.0	149.6	227.0	452.4	452.4	907.9

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

Admixture of Air on Connection

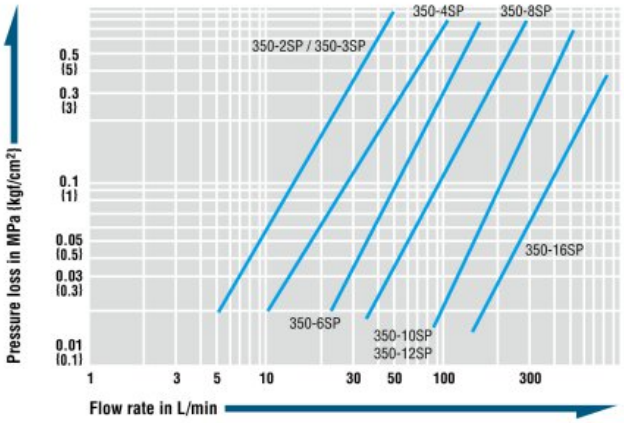
Admixture of air may vary depending upon the usage conditions.

(mL)

Model	350-2SP	350-3SP	350-4SP	350-6SP	350-8SP	350-10SP	350-12SP	350-16SP
Volume of air	0.1	0.1	0.2	0.3	0.5	0.9	0.9	2.0

Flow Rate – Pressure Loss Characteristics

[Test conditions] •Fluid : Hydraulic oil •Temperature : 40°C ± 5°C
•Fluid viscosity : 32 × 10^{-6} m^2/s •Density : 0.87 × 10^3 kg/m^3



⚠Precautions for use