

For Hydraulics

350 Cupla

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

Working pressure



34.5MPa
{352kgf/cm²}

Valve structure

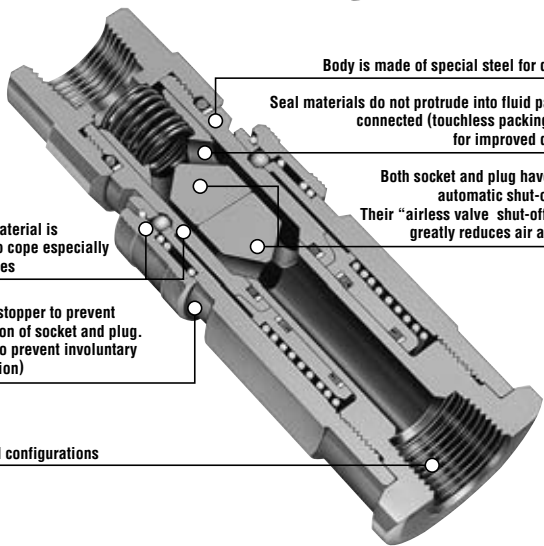


Two-way shut-off
(Non-Spill)

Applicable fluids



Hydraulic oil



Body is made of special steel for durability

Seal materials do not protrude into fluid path when connected (touchless packing design) for improved durability

Both socket and plug have built-in automatic shut-off valves
Their "airless valve shut-off design" greatly reduces air admixture

The body material is quenched to cope especially with impulses

Fitted with stopper to prevent disconnection of socket and plug. (Designed to prevent involuntary disconnection)

Various end configurations

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

- Locking mechanism to prevent involuntary disconnection maintains 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. This also makes handling each independent part easier.

Specifications

Body material	Special steel (Nickel-plated)			
Size	1/4" • 3/8" • 1/2" • 3/4" • 1" • 1 1/4" • 1 1/2" • 2"			
Working pressure MPa (kgf/cm ²)	34.5 {352}			
Pressure resistance MPa (kgf/cm ²)	51.5 {525}			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Standard material
	Nitrile rubber	NBR (SG)	-20°C~+80°C	Available on request

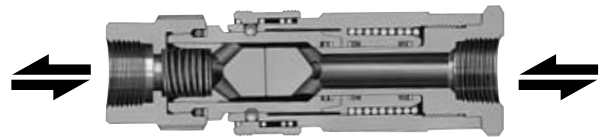
Max. Tightening Torque

N·m {kgf·cm}

Size	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	32.2	32.2	78.5	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

(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 × 10⁻⁶m²/s • Density : 0.87 × 10³kg/m³

