

For High Pressure

350 Cupla

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

Working pressure



34.5 MPa
{352 kgf/cm²}

Valve structure



Two-way shut-off
(Non-Spill)

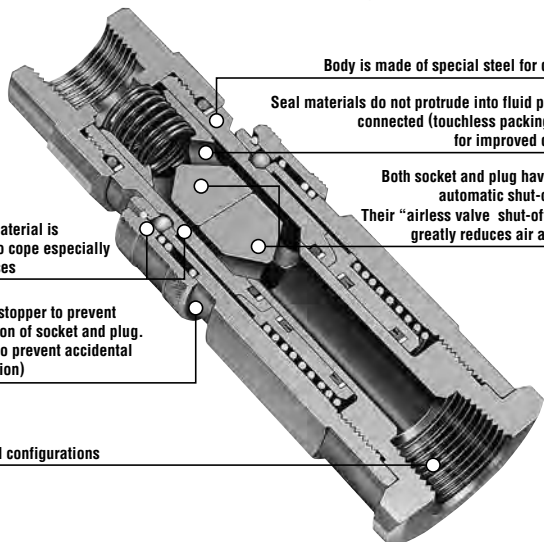
Applicable fluid



Hydraulic oil

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

- Sleeve stopper mechanism can be engaged by rotating sleeve after connection.
- Both socket and plug have built-in automatic shut-off valves to prevent fluid spill out when disconnected. Easy to handle.



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 accidental disconnection)

Various end configurations

Specifications				
Body material	Special steel (Nickel plated)			
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2"			
Pressure unit	MPa	kgf/cm ²	bar	PSI
Working pressure	34.5	352	345	5000
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Standard material

Max. Tightening Torque		Nm {kgf·cm}						
Size (Thread)		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
Torque		28 {286}	40 {408}	80 {816}	150 {1530}	250 {2550}	500 {5100}	500 {5100}

Flow Direction

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



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

Suitability for Vacuum

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

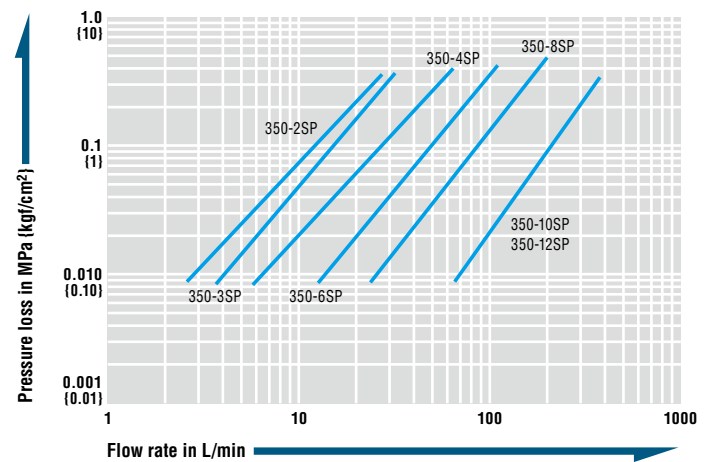
Admixture of Air on Connection

May vary depending upon the usage conditions. (mL)

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

Flow Rate – Pressure Loss Characteristics

[Test conditions] • Fluid : Hydraulic oil • Temperature : 40°C ± 5°C
• Fluid viscosity : 32 × 10⁻⁶ m²/s • Density : 0.87 × 10³ kg/m³



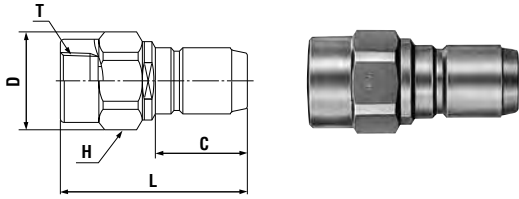
⚠ Precautions for use

Do not connect / disconnect Cuplas when pressure is applied or remaining.

Models and Dimensions

Product appearance may vary by size. / WAF : WAF stands for width across flats.

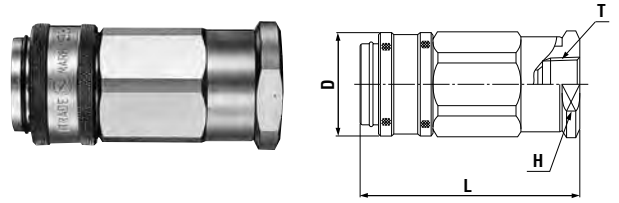
Plug Female thread



Model	Application	Mass (g)	Dimensions (mm)				
			L	C	øD	H(WAF)	T
350-2P	R 1/4	170	(72)	36	29	Hex.27	Rc 1/4
350-3P	R 3/8	167	(72)	36	29	Hex.27	Rc 3/8
350-4P	R 1/2	245	85	40.5	30	Hex.27	Rc 1/2
350-6P	R 3/4	415	87	44.5	40	Hex.36	Rc 3/4
350-8P	R 1	950	111	57	55	Hex.50	Rc 1
350-10P	R 1 1/4	2,700	(144)	75	78	Hex.70	Rc 1 1/4
350-12P	R 1 1/2	2,600	(144)	75	78	Hex.70	Rc 1 1/2

• G thread is available on request.

Socket Female thread



Model	Application	Mass (g)	Dimensions (mm)			
			L	øD	H(WAF)	T
350-2S	R 1/4	360	(82)	(34)	Hex.30	Rc 1/4
350-3S	R 3/8	353	(82)	(34)	Hex.30	Rc 3/8
350-4S	R 1/2	545	(93.5)	(41)	Hex.36	Rc 1/2
350-6S	R 3/4	976	(105.5)	(49)	46 x ø52	Rc 3/4
350-8S	R 1	1,740	(129)	(63)	55 x ø62	Rc 1
350-10S	R 1 1/4	5,600	(180)	89	Hex.80 x ø90	Rc 1 1/4
350-12S	R 1 1/2	5,500	(180)	89	Hex.80 x ø90	Rc 1 1/2

• G thread is available on request.

Application Example



Optional Accessory

Purge Adapter

Metal Purge Adapter for hydraulic lines (Semi-standard)

• Can be attached to hydraulic lines to purge residual pressure effectively.

Model	PAD-2 (Part No.CB19855)			
Applicable fluid	Hydraulic oil			
Material	Steel (Nickel plated)			
Application	Rc 1/4			
Pressure unit	MPa	kgf/cm ²	bar	PSI
Working pressure	35.0	357	350	5080
Proof pressure	52.5	536	525	7610
Seal material	Nitrile rubber (NBR)			
Working temperature range	-5°C to +80			

Semi standard items: As these items are not always in stock, delivery time is subject to confirmation.

Simple one push purge button for easy pressure release

