

For Hydraulics

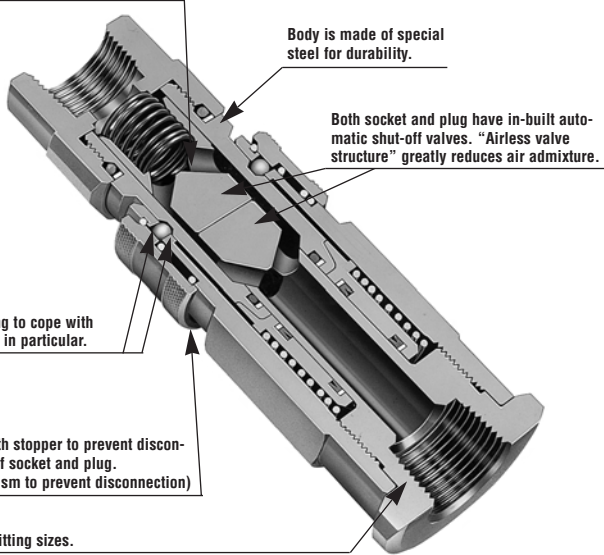
350 Cupla

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

- Working pressure
- Valve structure
- Applicable fluids



Seal does not protrude into fluid path when connected (touchless packing structure) for improved durability.



Body is made of special steel for durability.

Both socket and plug have in-built automatic shut-off valves. "Airless valve structure" greatly reduces air admixture.

Quenching to cope with impulses in particular.

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

Various fitting sizes.

**"Airless valve structure" greatly reduces air admixing!
Ideal for hydraulic circuits with large pressure fluctuations.**

- Unique "Airless valve structure" minimizes the quantity of in-mixed air.
- Working pressures up to 34.5 MPa {352 kgf/cm²}. Suitable for hydraulic circuits having large pressure fluctuations.
- Mechanism to prevent disconnection maintains tight connection against vibration or impact when connected.
- Both socket and plug have built-in automatic shut-off valves that prevent fluid outflow on disconnection. Simple to handle.

Specifications

Body material	Special steel (Chrome-molybdenum steel), zinc-plated		
Size	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}		
Packing material, Working temperature range	Packing material	Nitto symbol	Working temp
	Fluoro-rubber (FKM)	X-100	-20°C ~ +180°C
	NBR	SG	-20°C ~ +80°C
			Remarks
			Standard material
			Order product

NBR : Nitrile butadiene rubber

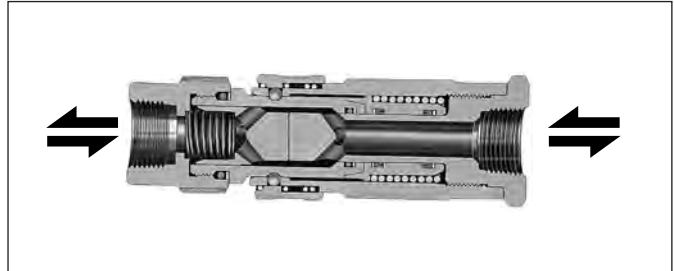
Max. Tightening Torque* N·m {kgf·cm}

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

* Recommended value

Fluid Flow Direction

Fluid flows in either direction from plug or socket.



Interchangeability

Different sizes are not interchangeable.

350-10SP type and 12SP type can be connected.

Min. Cross-Sectional Area (mm²)

Product code	350-3SP	350-4SP	350-6SP	350-8SP	350-10SP	350-12SP	350-16SP
Area	32.2	78.5	149.6	227.0	452.4	452.4	907.9

Suitability for Vacuum Applications

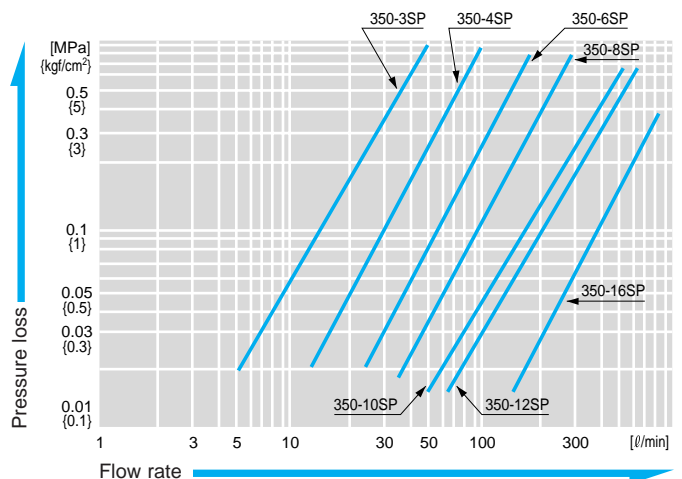
Not suitable for use with vacuum, either alone or in combination.

Admixture of Air on Connection (mℓ)

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

Flow Rate - Pressure Loss Characteristics

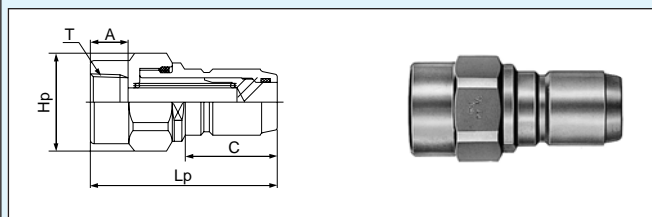
[Measuring conditions] •Fluid: Hydraulic Fluid •Temperature: 40°C±5°C
•Kinematic viscosity: 46 x 10⁻⁶ m²/s •Specific gravity: 0.8661 x 10³ kg/m³



Product Codes and Dimensions Tables

Plug

P

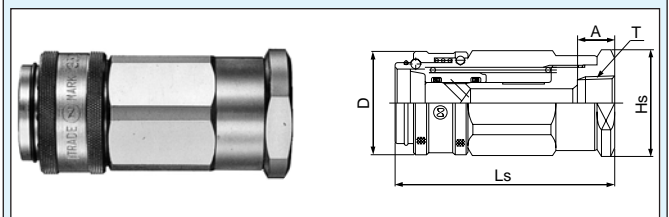


Product code	Application	Mass (g)	Dimensions (mm)				
			Lp	C	Hp	A	T
350-3P	R3/8	175	72	36	Hex.27	13	Rc3/8
350-4P	R1/2	245	85	40.5	Hex.27	16	Rc1/2
350-6P	R3/4	415	90	44.5	Hex.41	18	Rc3/4
350-8P	R1	1,035	119	57	Hex.50	22	Rc1
350-10P	R1 1/4	2,700	144	75	Hex.70	25	Rc1 1/4
350-12P	R1 1/2	2,600	144	75	Hex.70	25	Rc1 1/2
350-16P*	R2	7,500	198	88.5	Face 90 x ø105	29	Rc2

*Made-to-order item.

Socket

S



Product code	Application	Mass (g)	Dimensions (mm)				
			Ls	øD	Hs	A	T
350-3S	R3/8	295	82	34	Hex.30	13	Rc3/8
350-4S	R1/2	465	93.5	41	Hex.36	16	Rc1/2
350-6S	R3/4	660	105.5	49	Face 46 x ø52	18	Rc3/4
350-8S	R1	1,740	129	63	Face 55 x ø62	22	Rc1
350-10S	R1 1/4	5,600	180	89	Hex.80	24	Rc1 1/4
350-12S	R1 1/2	5,500	180	89	Hex.80	25	Rc1 1/2
350-16S*	R2	14,500	239	117	Face 110 x ø115	29	Rc2

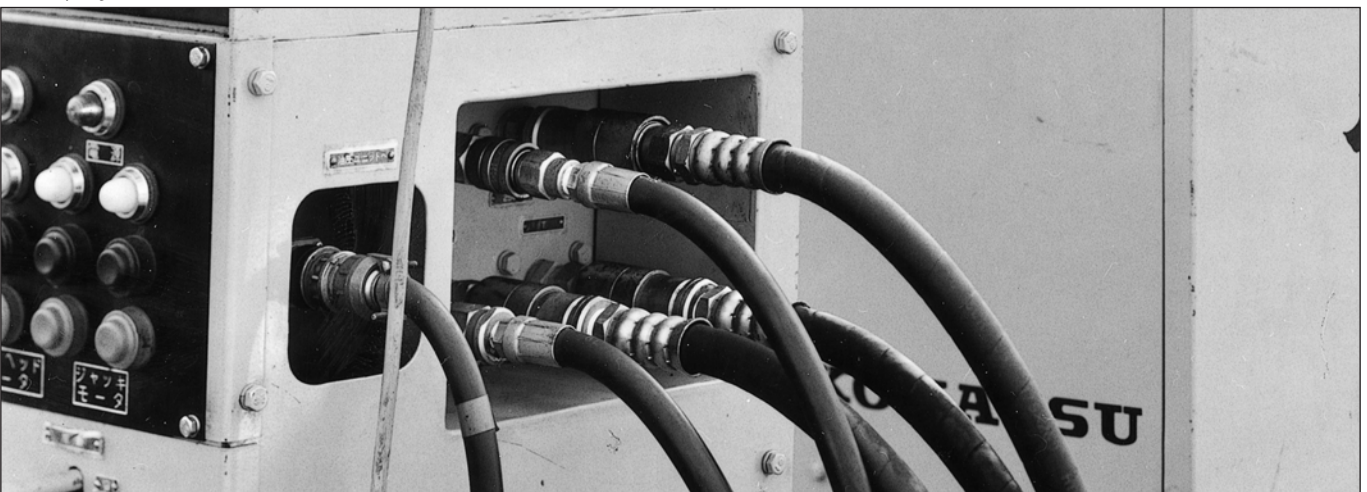
*Made-to-order item.

- Before use, please be sure to read "Requests Regarding Use" at the end of this book and "Notices and Points to be Observed" attached to the product.

Example of Usage



▲ Snowplough



▲ Hydraulic unit