For Hydraulics

700R Cupla

For hydraulic pressure up to 68.6MPa {700kgf/cm²}











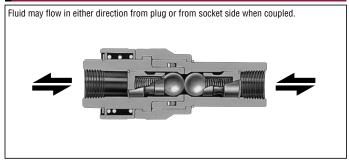
High pressure Cupla for working pressures up to 68.6 MPa and pressure resistance of 98 MPa! Unique sleeve ring-lock system copes with vibration and impact when connected.

- Cupla for extremely high working pressures up to 68.6MPa {700kgf/cm²} and pressure resistance of 98MPa {1,000kgf/cm²}.
- Metal-touch valves use no rubber seal, and thus ensure excellent durability.
- Special sleeve ring-lock system maintains tight connection even under vibration or impact when connected.
- Both socket and plug have metal touch automatic shut-off valves that prevent fluid spill out on disconnection.

Specifications						
Body material	Special steel (Nickel-plated)					
Size	3/8" • 1/2"					
Working pressure MPa {kgf/cm²}	68.6 {700}					
Pressure resistance MPa {kgf/cm²}	98.0 {1000}					
Seal material	Seal material	Mark	Working temperature range	Remarks		
Working temperature range	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material		
	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Available on request		
	For 3/8", 0.05m \(\ell \)/min at 0.2MPa \(\frac{2}{gf/cm^2} \)					
Stand-alone leakage rate	For 1/2", 0.05 ℓ/min at 0.3MPa {3kgf/cm ² }					
on either socket or plug	* Owing to the metal contact seal structure, there will be very minimal leakage from socket and plug respectively, when they are separated.					

Max. Tightening Torque N·m {kgf·cı			
Size	3/8"	1/2"	
Torque	40 {408}	85 {867}	

Flow Direction



Interchangeability

Different sizes are not connectable.

Min. Cross-Sectional Area (mm²)				
Model	700R-3SP	700R-4SP		
Min. Cross-Sectional Area	34	55		

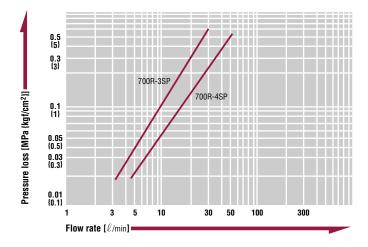
Suitability for Vacuum

Can be used to for vacuum applications up to 1.3Pa $\{1x10^{-2}mmHg\}$ only when socket and plug are connected.

Admixture of Air on Connection			
Model	700R-3SP 700R-4SP		
Volume of air	1.0	2.2	

Flow Rate - Pressure Loss Characteristics

 $\begin{array}{lll} \hbox{ \bf [Test conditions]} & \bullet \hbox{Fluid} : \hbox{ Hydraulic oil } & \bullet \hbox{ Temperature} : 30^{\circ}\hbox{C} \pm 5^{\circ}\hbox{C} \\ & \bullet \hbox{ Fluid viscosity} : 32 \times 10^{\circ}\hbox{m}^2/\hbox{s} & \bullet \hbox{ Density} : 0.87 \times 10^{3}\hbox{kg/m}^3 \\ \end{array}$



Models and Dimensions

Pluq

Female thread

Model	Application	Mass (g)	Dimensions (mm)					
			Lp	C	øDp	Hp(waf)	Α	T
700R-3P	R 3/8	210	54	18	39.5	Two flats 24 x ø28	13	Rc 3/8
700R-4P	R 1/2	418	70	22	50	Two flats 27 x ø35	16	Rc 1/2

