For High Pressure

700R Cupla

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



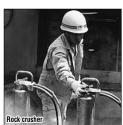




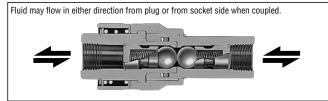
High pressure Cupla for working pressures up to 68.6MPa and pressure resistance of 98MPa! Unique sleeve ring-lock system copes with vibration and impact when connected.

- 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.





Flow Direction



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 Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material
3 ** 1 ** ** * 3 **	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Made-to-order item
	For 3/8", 0.05m ℓ/min at 0.2MPa {2kgf/cm²}			
Stand-alone leakage rate	For 1/2", 0.05 ℓ/min at 0.3MPa {3kgf/cm²}			
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•cm}	
Size	3/8"	1/2"
Torque	40 {408}	85 {867}

Interchangeability

Different sizes are not connectable.

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

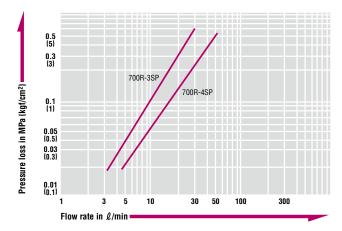
Suitability for Vacuum

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

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

Flow Rate - Pressure Loss Characteristics

 $\begin{tabular}{ll} [Test conditions] & \bullet Fluid : Hydraulic oil & \bullet Temperature : 30°C \pm 5°C \\ & \bullet Fluid viscosity : 32 × 10°6m²/s & \bullet Density : 0.87 × 10³kg/m³ \\ \end{tabular}$



Models and Dimensions Female thread Plug 습 Нр Dimensions (mm) Application Mass (g) Model Hp (WAF) øDp 700R-3P R 3/8 210 54 18 39.5 24 Rc 3/8 700R-4P R 1/2 418 70 22 27 Rc 1/2

