For High Pressure

700R Cupla

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







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

- 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.



Admixture of Air on Connection Admixture of air may vary depending upon the usage conditions.			
Model	700R-3SP	700R-4SP	
Volume of air admixture	1.0	2.2	

Specifications					
Body material	erial Special steel (Nickel-plated)				
Size (Thread)		3/8", 1/2"			
Working pressure MPa kgf/cm²		68.6			
		700			
working pressure	bar	686			
	PSI	9950			
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks
		Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material
		Fluoro rubber	FKM (X-100)	-20°C to +180°C	Made-to-order item
Stand-alone leakage rate For 700R-3SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm on either socket or plug For 700R-4SP, 0.05 mL/min at 0.3 MPa {3 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.3 MPa {3 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.2 MPa {2 kgf/cm or plug for 700R-4SP, 0.05 mL/min at 0.3 MPa {3 kgf/cm or plug for 700R-4SP, 0.05 mL/mi					

Max. Tightening Torque		Nm {kgf•cm}
Size (Thread)	3/8"	1/2"
Torque	40 {408}	85 {867}

Flow Direction Fluid may flow in either direction from plug or from socket side when coupled.

Interchangeability

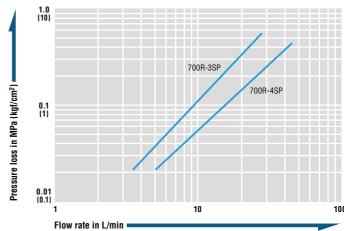
Different sizes are not interchangeable.

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

Suitability for Vacuum		1.3 Pa {1 x 10 ⁻² mmHg}
Socket only	Plug only	When connected
_	_	Operational

Flow Rate - Pressure Loss Characteristics

[Test conditions] •Fluid : Hydraulic oil •Temperature : 30° C $\pm 5^{\circ}$ C •Fluid viscosity: 32 x 10⁻⁶ m²/s



Models and Dimensions Female thread Application Mass (g) Model H(WAF) C Т øD 700R-3P R 3/8 210 39.5 Rc 3/8 700R-4P R 1/2 418 22 Rc 1/2 50

