For Hydraulics

700R Cupla

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









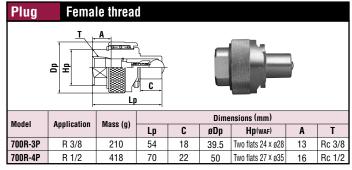
High pressure Cupla for working pressures up to 68.6 MPa and pressure resistance of 98 MPa! Unique sleeve ring-lock system copes with vibration and impact when connected.

- 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

operincations				
Body material	Special steel (Nickel-plated)			
Size	3/8" • 1/2"			
Working pressure MPa {kgf/cm ² }	68.6 {700}			
Pressure resistance MPa {kgf/cm ² }	98.0 {1000}			
Soal material	Seal material	Mark	Working temperature range	Remarks
Seal material 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
Stand-alone leakage rate on either socket or plug	For 3/8", 0.05mℓ/min at 0.2MPa {2kgf/cm²}			
	For 1/2", 0.05 ℓ /min at 0.3MPa {3kgf/cm ² }			
	* Owing to the metal contact seal structure, there will be very minimal leakage from socket and plug respectively, when they are separated.			

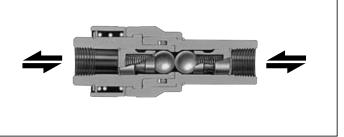
Models and Dimensions



Max. Tightening Torque		N•m {kgf•cm}	
Size	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 connectable.

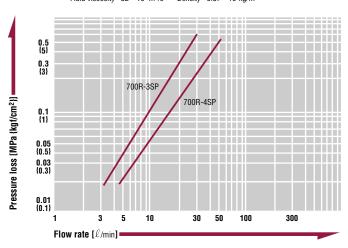
Min. Cross-Sectional Area (mm ²		
Model	700R-3SP 700R-4SP	
Min. Cross-Sectional Area	34	55

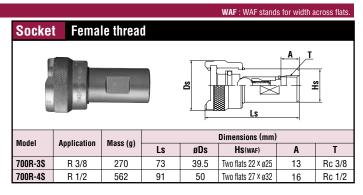
Suitability for Vacuum

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 (m			
Model	700R-3SP	700R-4SP	
Volume of air	1.0	2.2	

Flow Rate - Pressure Loss Characteristics





Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.