### For Hydraulics

## Super HSP Cupla

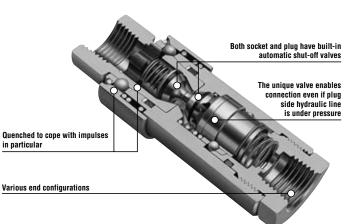
Connects hydraulic piping even with residual pressure up to 2<u>0.6MPa {210kgf/cm²}</u>











# Can be connected even with residual pressure in plug side hydraulic line. This Cupla is best for frequent connection of pressurized hydraulic lines.

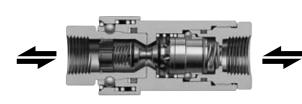
- Super HSP Cupla socket can be connected easily with small power to standard HSP plug even with residual pressure on the plug side of the hydraulic line.
- Plugs of lot No. 11 or later from existing HSP Cuplas should be used.
- For impact resistance, especially repeated impulses, special quenched steel is used for the body. This ensures original performance over a long period.
- The design reduces pressure loss, and so particularly suitable for hydraulic applications where enough fluid flow is essential. Both socket and plug have built-in automatic shut-off valves to prevent fluid spill out on disconnection.

Specifications						
Body material	Special steel (Nickel-plated)					
Size	1/4" • 3/8" • 1/2" • 3/4" • 1"					
Working pressure MPa {kgf/cm²}	20.6 {210}					
Pressure resistance MPa {kgf/cm²}	31.0 {316}					
Residual pressure allowance in plug	7.0MPa {70kgf/cm <sup>2</sup> }					
Seal material	Seal material	Mark	Working temperature range	Remarks		
Working temperature range	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material		

Max. Tightening Torque N·m {kgf·cm}					ı {kgf•cm}
Size	1/4"	3/8"	1/2"	3/4"	1"
Torque	28 {286}	45 {459}	90 {918}	100 (1020)	180 {1836}

#### **Flow Direction**

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



Note: When the socket is connected to the plug with residual pressure, pass fluid for at least 30 seconds from socket side at a pressure of minimum 1MPa plus the residual pressure in order to fix and keep the socket valve open.

#### Interchangeability

Supre HSP socket should be used with existing HSP Cupla plug.

Min. Cross-Sectional Area (When connected to a HSP Cupla)				(mm²)	
Model	2HS-RPx2HP	3HS-RPx3HP	4HS-RPx4HP	6HS-RPx6HP	8HS-RPx8HP
Min. Cross-Sectional Area	17	30	77	77	203

Suitability for Vacuum	1.3Pa {1 x 10 <sup>-2</sup> mmHg}	
Socket only	Plug only	When connected
_	-	Operational

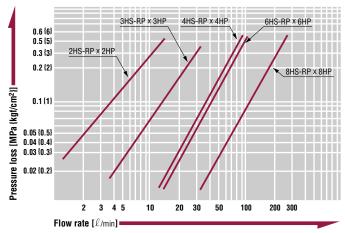
Admixture of Air on Connection $(m\ell)$					(mℓ)
Model	2HS-RP	3HS-RP	4HS-RP	6HS-RP	8HS-RP
Volume of air	0.64	1.84	3.47	3.47	12.4

#### Flow Rate - Pressure Loss Characteristics

[Test conditions]

•Fluid : Hydraulic oil •Temperature : 30°C ± 5°C

•Fluid viscosity : 46 x 10<sup>-6</sup>m<sup>2</sup>/s •Density : 0.87 x 10<sup>3</sup>kg/m<sup>3</sup>



Note: Use in combination of Super HSP Cupla Socket and HSP Cupla Plug.