## **For High Pressure**

# **Hyper HSP Cupla**

Connects hydraulic piping even with residual pressure up to 20.6 MPa {210 kgf/cm<sup>2</sup>}



## Purge function will set you free from the troublesome residual pressure elimination before connection and let you achieve efficient and frequent hydraulic pipe line coupling.

- Both socket and plug have built-in automatic shut-off valves to prevent fluid spill out when disconnected.
- Interchangeable with standard HSP Cupla plug or socket in the same size.





Specifications							
Body material		Special steel (Nickel-plated)					
Size (Thread)		1/4", 3/8", 1/2", 3/4", 1"					
	MPa	20.6					
Working pressure	kgf/cm <sup>2</sup>	210					
	bar	206					
	PSI	2990					
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks		
		Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material		

Max. Tightening Torque Nm {kgf•cm					
Size (Thread)	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.



#### Interchangeability

Interchangeable with standard HSP Cupla plug or socket in the same size.

Min. Cross-Sectional Area (mm					
Model	2HP-PV/2HS-PV	3HP-PV/3HS-PV	4HP-PV/4HS-PV	6HP-PV/6HS-PV	8HP-PV/8HS-PV
Min. cross-sectional area	21	37	77	77	203

Suitability for Vacuum	1.3 × 10 <sup>-1</sup> Pa {1 × 10 <sup>-3</sup> mmHg}			
Socket only	Plug only	When connected		
_	_	Operational		

Admixture of Air on Connection Admixture of air may vary depending upon the usage conditions.					
Model	2HP-PV/2HS-PV	3HP-PV/3HS-PV	4HP-PV/4HS-PV	6HP-PV/6HS-PV	8HP-PV/8HS-PV
Volume of air	0.7	1.9	3.5	3.5	12.4

Connection Load under Residual Pressure (For reference) (N)						
Residual pressure / Model	2HP-PV/2HS-PV	3HP-PV/3HS-PV	4HP-PV/4HS-PV	6HP-PV/6HS-PV	8HP-PV/8HS-PV	
at 5.0 MPa	50	85	85	85	100	
at 10.0 MPa	70	85	85	85	130	
at 15.0 MPa	100	100	100	100	170	

#### Flow Rate – Pressure Loss Characteristics



Note: Either socket or plug of Hyper HSP Cupla must be used on the line where the residual pressure remains. The counterpart of Hyper HSP must be either plug or socket of standard HSP Cupla.

### Hyper HSP Cupla





