For Hydraulics

Hyper HSP Cupla

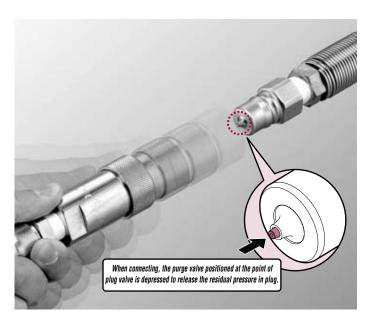
Connects hydraulic piping even with residual pressure up to 20.6MPa {210kgf/cm²}











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.

- The special design to keep pressure loss extremely low is particularly ideal for hydraulic applications requiring high flow rates.
 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	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}				
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}					
Size	1/4"	3/8"	1/2"	3/4"	1"
Torque	28 {286}	45 {459}	90 {918}	100 {1020}	180 {1836}

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.

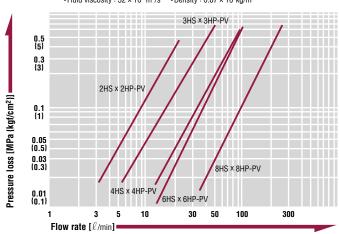
Min. Cross-Sectional Area (mm²)					
Model	2HP-PV/2HS-PV	3HP-PV/3HS-PV	4HP-PV/4HS-PV	6HP-PV/6HS-PV	8HP-PV/8HS-PV
Min. Cross-Sectional Area	21	37	77	77	203

Suitability for Vacuum	1 1.3 x 10 ⁻¹ Pa {1 x 10 ⁻³ mmHg}			
Socket only	Plug only	When connected		
_	_	Operational		

Admixture of Air on Connection $(m\ell)$					
Model	2HP-PV/2HS-PV	3HP-PV/3HS-PV	4HP-PV/4HS-PV	6HP-PV/6HS-PV	8HP-PV/8HS-PV
Volume of air	0.64	1.84	3.47	3.47	12.40

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 5.0MPa	50	85	85	85	100
at 10.0MPa	70	85	85	85	130
at 15.0MPa	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.