For High Pressure

HSU Cupla

Stainless steel Cupla for high pressure up to 21.0 MPa {214 kgf/cm²}



The flow volume is increased by between 14 to 44% while at the same time the coupled length is reduced by at least 10% compared with the S210 Cupla.

- Body material is excellent corrosion resistant stainless steel (SUS304).
 Suitable for use in tough/harsh environments such as offshore applications.
- Sleeve stopper mechanism can be engaged by rotating sleeve after connection.
- Despite having a stainless steel body, the working pressure, 21.0 MPa, of HSU Cupla is comparable to that of special steel body Cuplas such as HSP Cupla series.
- Both socket and plug have built-in automatic shut-off valves that prevent fluid outflow on disconnection.
- Hydrogenated nitrile rubber (HNBR) is used as a seal material for wide variety of liquids.



Specifications						
Body material	Stainless steel (SUS304)					
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1"					
Pressure unit	MPa	MPa kgf/cm ²		bar		PSI
Working pressure	21.0 214		210		3050	
Seal material	Seal material range Hydrogenated nitrile rubber *		Mark		Working temperature range	
Working temperature range			HNBR		-20°C to +120°C	

• The seal materials used in HSU Cupla are not suitable for Freon gas.

Max. Tightening Torque N m {kgf•cm}						
Size (Thread)	1/4"	3/8"	1/2"	3/4"	1"	
Torque	28 {286}	35 {357}	70 {714}	100 {1020}	180 {1836}	

Flow Direction



Interchangeability

Different size socket and plug cannot be connected to each other.

Min. Cross-Sectional Area (mm ²)					
Model	HSU-2SP	HSU-3SP	HSU-4SP	HSU-6SP	HSU-8SP
Min. cross-sectional area	27.1	48.2	84.2	143.6	221.2

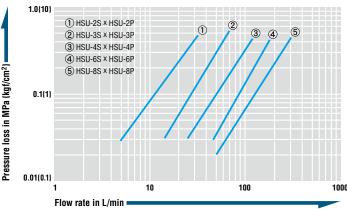
Suitability for Vacuum	1.3	1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mmHg}			
Socket only	Plug only	When connected			
_	_	Operational			

Admixture of Air on Connection May vary depending upon the usage conditions. (mL)						
Model	HSU-2SP	HSU-3SP	HSU-4SP	HSU-6SP	HSU-8SP	
Volume of air admixture	0.7	1.5	3.6	6.3	10.9	

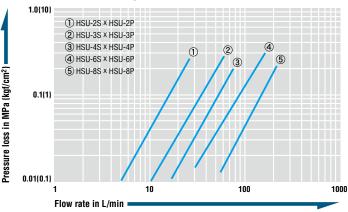
Volume of Spillage per Disconnection May vary depending upon the usage conditions. (mL)					
Model	HSU-2SP	HSU-3SP	HSU-4SP	HSU-6SP	HSU-8SP
Volume of spillage	0.6	1.7	3.0	6.8	11.2

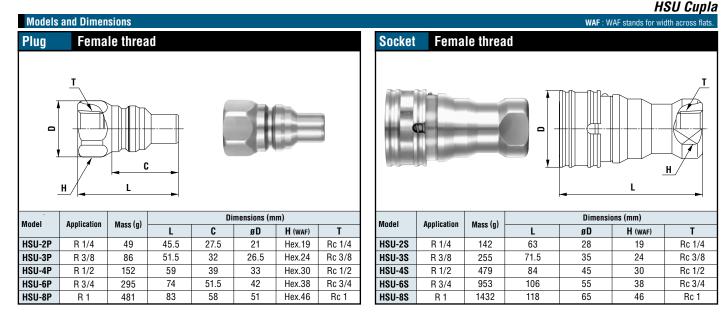
Flow Rate – Pressure Loss Characteristics (Hydraulic oil / Water)

[Test conditions] •Fluid : Hydraulic oil •Temperature : 30°C to 32°C •Fluid viscosity : 32 × 10⁻⁶ m²/s •Density : 0.87 × 10³ kg/m³



[Test conditions] •Fluid : Water •Temperature : 18°C





Sleeve Stopper Mechanism

Easy to operate sleeve stopper mechanism enhances operator safety.

