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 kgf/cm² bar				PSI	
Working pressure	21.0	214		210		3050
eal material Seal material		ıl	Mark		Working temperature range	
Working temperature range	Hydrogenated nitrile rubber *		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 Fluid flow can be bi-directional when socket and plug are connected.

Interchangeability

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

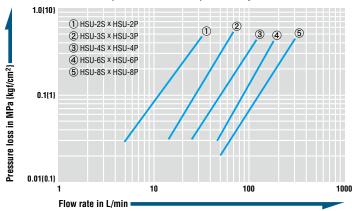
Min. Cross-Sectional Area (mm²)						
Model	HSU-2SP	HSU-3SP	HSU-4SP	HSU-6SP	HSU-8SP	
Min. cross-sectional area	27.1	48.2	84.2	143.6	221.2	

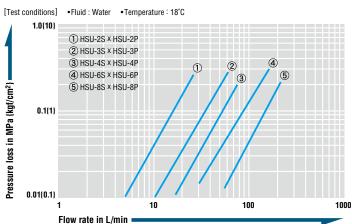
Suitability for Vacuum $1.3 \times 10^{-1} \text{ Pa} \{1 \times 10^{-3} \text{ mm}\}$				
Socket only	Plug only	When connected		
_	_	Operational		

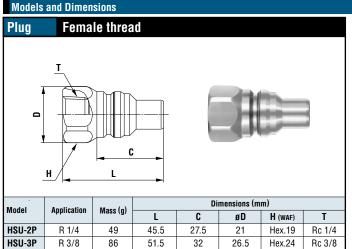
Admixture of Air on Connection May vary depending upon the usage conditions. (mL)						
Model	HSU-2SP	HSU-3SP	HSU-4SP	HSU-6SP	HSU-8SP	
Volume of air admixture	0.7	1.5	3.6	6.3	10.9	

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)







59

74

83

152

295

481

39

51.5

58

33

42

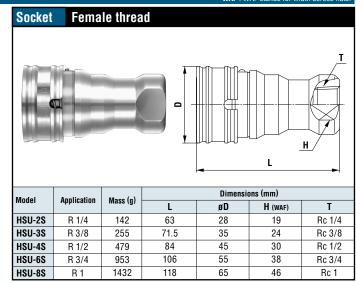
51

Hex.30

Hex.38

Hex.46

Locked



Sleeve Stopper Mechanism

R 1/2

R 3/4

R 1

HSU-4P

HSU-6P

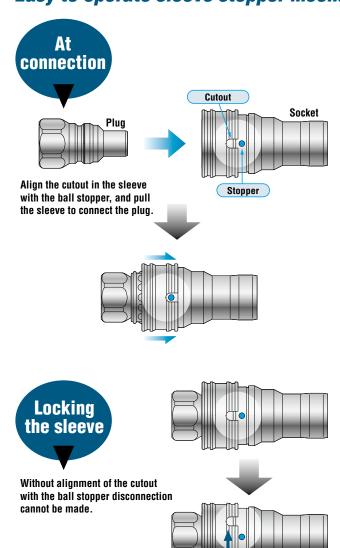
HSU-8P

Easy to operate sleeve stopper mechanism enhances operator safety.

Rc 1/2

Rc 3/4

Rc 1





Accidental disconnection is prevented.

The stopper is marked with blue for visual understanding.