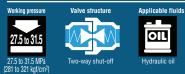
For High Pressure

280 Cupla

For hydraulic pressure up to 27.5 to 31.5 MPa {281 to 321 kgf/cm²}



Generic Cupla copes with high pressure lines in hydraulic equipment! Low pressure loss is ideal for hydraulic equipment.

- Complys with international standard ISO 7241-1A.
- General purpose hydraulic Cuplas with the working pressure up to 27.5 to 31.5 MPa {281 to 321 kgf/cm²}.
- Structure keeps pressure loss extremely low, 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. Easy to handle.
- Special steel body material is adopted for its excellent strength and additional quenching treatment is done to withstand hydro pressure impacts.



Max. Tightening Torque Nm {kgf•cm}						
Size (Thread)	1/4"	3/8"	1/2"	3/4"	1"	
Torque	28 {286}	40 {408}	80 {816}	100 {1020}	180 {1836}	

Flow Direction

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



Interchangeability

Different sizes cannot be connected.

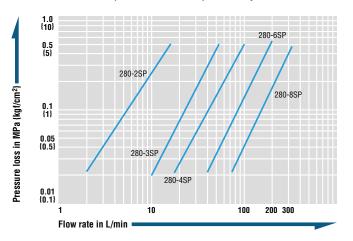
Min. Cross-Sectional Area (mm²)						
Model	280-2SP	280-3SP	280-4SP	280-6SP	280-8SP	
Min. cross-sectional area	11.4	42.8	79.1	146.5	235.6	

Suitability for Vacuum		1.3 Pa {1 x 10 ⁻² mmHg}		
Socket only	Plug only	When connected		
_	_	Operational		

Admixture of Air on Connection Admixture of air may vary depending upon the usage conditions. (mL)						
Model	280-2SP	280-3SP	280-4SP	280-6SP	280-8SP	
Volume of air	0.37	1.02	2.63	8.83	16.04	

Flow Rate – Pressure Loss Characteristics

[Test conditions] •Fluid : Hydraulic oil •Temperature : 30°C ± 5°C •Fluid viscosity : 32 × 10°6 m²/s •Density : 0.87 × 10³ kg/m³





 \triangle Precautions for use

There is no interchangeability between 280 Cupla and HSP Cupla or 210 Cupla. Do not connect each other even if some sizes are approximate.

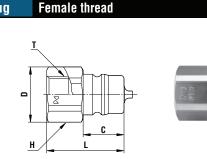


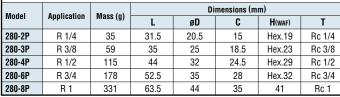
Models and Dimensions

WAF : WAF stands for width across flats.

Plug







Т \otimes \otimes H L Dimensions (mm) Model

Model Application	Mass (g)	L	øD	H(waf)	Т	
280-2S	R 1/4	110	46	(27)	19	Rc 1/4
280-3S	R 3/8	185	53	(33)	23	Rc 3/8
280-4S	R 1/2	335	66.5	(39)	29	Rc 1/2
280-6S	R 3/4	571	81	(48)	35	Rc 3/4
280-8S	R 1	871	98	(55)	41	Rc 1

* Internal structural design of 280-6S and 280-8S is partly different from the above drawing.

Application Example

