For High Pressure

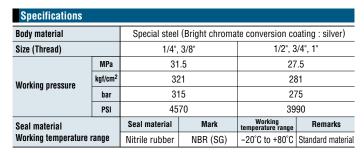
280 Cupla

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.

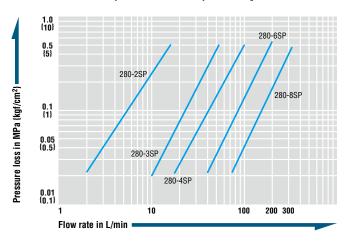
Min. Cross-Sectional Area (mm ²)							
Model	280-2SP	280-3SP	280-4SP	280-6SP	280-8SP		
Min. cross-sectional area	11.4	42.8	79.1	146.5	235.6		

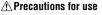
Suitability for Vacuum		1.3 Pa {1 x 10 ⁻² mmHg}
Socket only	Plug only	When connected
_	_	Operational

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° m²/s •Density : 0.87 × 10³ kg/m³





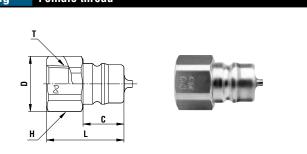
There is no interchangeability between 280 Cupla and HSP Cupla or 210 Cupla. Do not connect each other even if some sizes are approximate.





Models and Dimensions

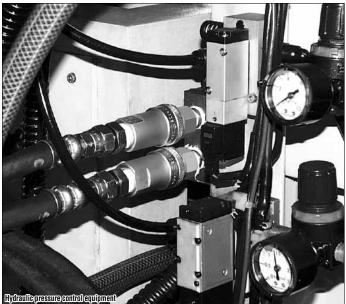
Plug Female thread



Model Application	Application	Mass (q)	Dimensions (mm)					
	ividəə (y)	L	øD	C	H(WAF)	T		
280-2P	R 1/4	35	31.5	20.5	15	Hex.19	Rc 1/4	
280-3P	R 3/8	59	35	25	18.5	Hex.23	Rc 3/8	
280-4P	R 1/2	115	44	32	24.5	Hex.29	Rc 1/2	
280-6P	R 3/4	178	52.5	35	28	Hex.32	Rc 3/4	
280-8P	R 1	331	63.5	44	35	41	Rc 1	

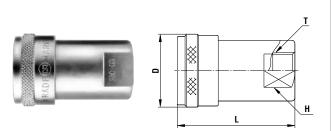
* Internal structural design of 280-6S and 280-8S is partly different from the above drawing.

Application Example



Wranie pressure controlleguipment

Socket Female thread



Model Application		/ \	Dimensions (mm)				
	Mass (g)	L	øD	H(WAF)	T		
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	

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.