For High Pressure

210 CUPLA

For hydraulic pressure up to 20.6 MPa {210 kgf/cm²}





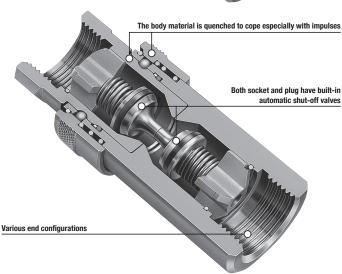




Low pressure loss, suitable for hydraulic equipment.

- General purpose hydraulic CUPLA with a working pressure of 20.6 MPa {210 kgf/cm²}.
- Structure is designed to reduce pressure loss to the lowest, and is best for hydraulic applications that need big flow rates.
- Both socket and plug have built-in automatic shut-off valves that prevent fluid outflow when disconnected.





Specifications					
Body material		Special steel (Nickel plated)			
Size (Thread)		1/4", 3/8",	1/2", 3/4", 1"		
Pressure unit	MPa	kgf/cm ²	bar	PSI	
Working pressure	20.6	210	206	2990	
Seal material	Seal material	Mark	Working temperature range	Remarks	
Working temperature range	Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material	
	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Available on request	

Maximum Tightening Torque Nm {kgf·cn						
Size (Thread)	1/4"	3/8"	1/2"	3/4"	1"	
Torque	28 {286}	45 {459}	90 (918)	100 {1020}	180 {1836}	

Flow Direction Fluid flow can be bi-directional when socket and plug are connected.

Interchangeability

Socket and plug of different sizes cannot be connected.

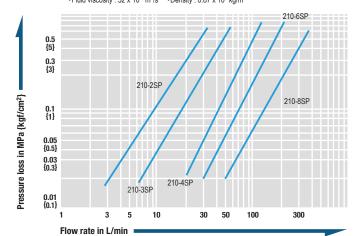
Minimum Cross-Sectional Area (
Model	210-2SP	210-3SP	210-4SP	210-6SP	210-8SP
Minimum cross-sectional area	24.5	42.8	77.4	146.5	235.6

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

Admixture of Air on Connection May vary depending upon the usage conditions.					
Model	210-2SP	210-3SP	210-4SP	210-6SP	210-8SP
Volume of air	0.85	1.02	2.63	8.83	16.04

Flow Rate - Pressure Loss Characteristics

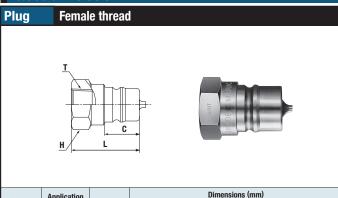
 $\begin{array}{ccc} \hbox{[Test conditions]} & \hbox{$^+$Fluid} : \hbox{Hydraulic oil} & \hbox{$^+$Temperature} : 30°C\pm5^\circ$C} \\ & \hbox{$^+$Fluid viscosity} : $32 \times 10^6 \, \text{m}^2/\text{s} & \hbox{$^+$Density} : 0.87 \times 10^3 \, \text{kg/m}^3 \end{array}$



⚠ Precautions for use

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

Models and Dimensions WAF : WAF stands for width across flats.



Application		Mass (g)	Dimensions (mm)					
Model (Thread)	L		C	H(WAF)	T			
210-2P	R 1/4	39	33	18	Hex.19	Rc 1/4		
210-3P	R 3/8	57	36	18.5	Hex.23	Rc 3/8		
210-4P	R 1/2	90	42.5	24	Hex.27	Rc 1/2		
210-6P	R 3/4	195	51	28	Hex.35	Rc 3/4		
210-8P	R 1	293	61	35	Hex.41	Rc 1		

