

For High Pressure

S210 CUPLA

Stainless steel CUPLA for high pressure up to 20.6 MPa {210 kgf/cm²}

Working pressure

20.6

20.6 MPa
(210 kgf/cm²)

Valve structure

Two-way shut-off

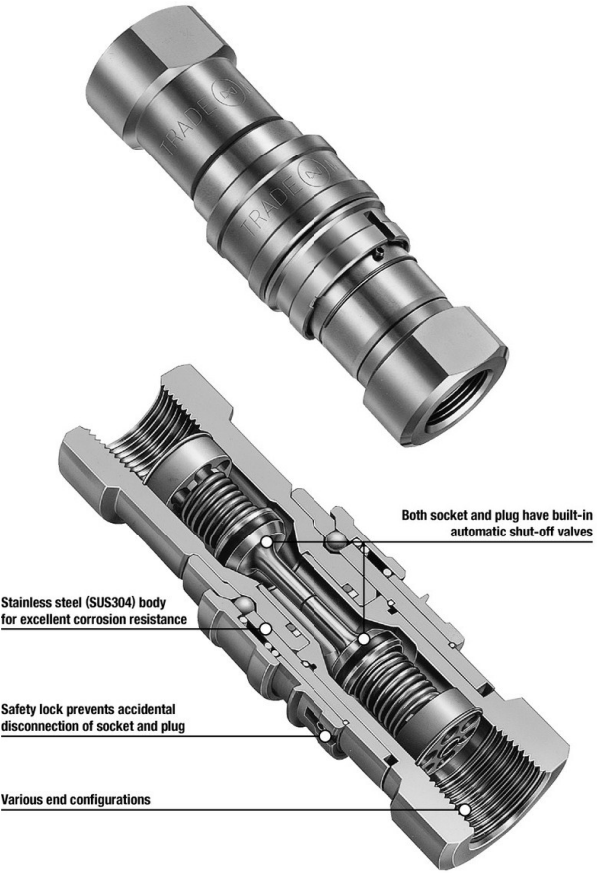
Applicable fluids

WaterHydraulic oilGas

Stainless steel for excellent corrosion resistance!

The unique “inner seal mechanism” accepts a working pressure up to 20.6 MPa.

- Body material is excellent corrosion resistant stainless steel (SUS304). Suited for use in tough conditions such as ocean development.
- Although it is made of stainless steel, the unique “inner seal mechanism” enables the working pressure of 20.6 MPa {210 kgf/cm²}, the same as special steel's.
- Safety lock (accidental disconnection prevention mechanism) ensures tight and secured connection under vibration or impacts.
- Both socket and plug have built-in automatic shut-off valves that prevent fluid outflow on disconnection.



Specifications				
Body material	Stainless steel (SUS304)			
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
	Fluoro rubber	FKM (X-100)	-20°C to +180°C	Standard material
	Nitrile rubber	NBR (SG)	-20°C to +80°C	Made-to-order item

• The product comes with a dust cap.

Maximum Tightening Torque					Nm {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.

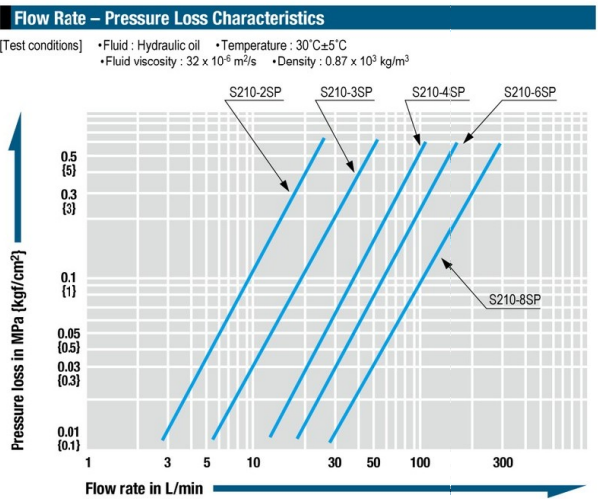
Interchangeability

Socket and plug of different sizes cannot be connected.

Minimum Cross-Sectional Area						(mm ²)
Model	S210-2SP	S210-3SP	S210-4SP	S210-6SP	S210-8SP	
Minimum cross-sectional area	24	47	84	153	233	

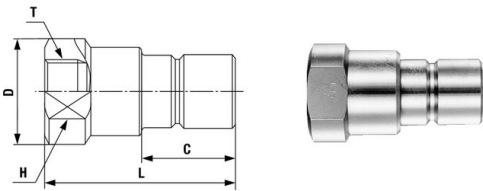
Suitability for Vacuum			1.3 Pa {1 x 10 ⁻² mmHg}
Socket only	Plug only	When connected	
—	—	Operational	

Admixture of Air on Connection						(mL)
Model	S210-2SP	S210-3SP	S210-4SP	S210-6SP	S210-8SP	
Volume of air	0.8	1.6	3.2	6.3	14.3	



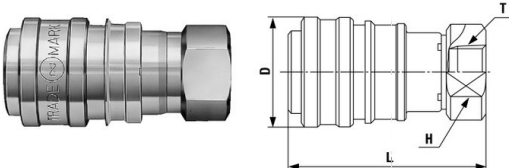
Models and Dimensions WAF : WAF stands for width across flats.

Plug **Female thread**



Model	Application (Thread)	Mass (g)	Dimensions (mm)				
			L	C	øD	H(WAF)	T
S210-2P	R 1/4	74	50.5	20	22	19	Rc 1/4
S210-3P	R 3/8	127	59	24	28	24	Rc 3/8
S210-4P	R 1/2	239	70.5	28	35	30	Rc 1/2
S210-6P	R 3/4	446	81.5	35.5	44	38	Rc 3/4
S210-8P	R 1	939	100	47.5	58	50	Rc 1

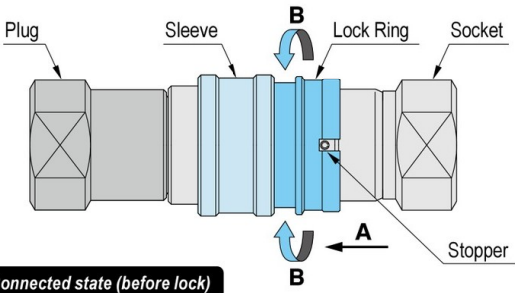
Socket **Female thread**



Model	Application (Thread)	Mass (g)	Dimensions (mm)			
			L	øD	H(WAF)	T
S210-2S	R 1/4	137	(59)	27	19	Rc 1/4
S210-3S	R 3/8	226	(68.5)	32	24	Rc 3/8
S210-4S	R 1/2	406	(81)	39.7	30	Rc 1/2
S210-6S	R 3/4	710	(97.5)	48	38	Rc 3/4
S210-8S	R 1	1381	(118)	62	50	Rc 1

How to operate the Safety Lock

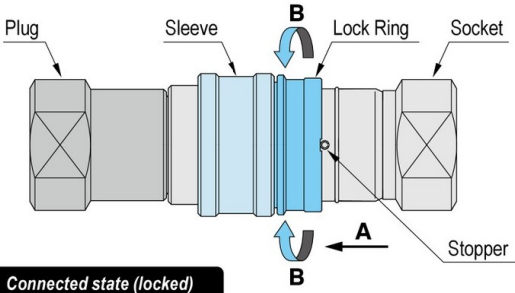
How to lock



Connected state (before lock)

Slide the Lock Ring in the direction of the arrow A and rotate it in either direction simultaneously. When the Stopper is aligned with the shallow cutout on the Lock Ring, the CUPLA will be locked.

How to unlock



Connected state (locked)

Slide the Lock Ring in the direction of the arrow A and rotate it in either direction simultaneously. When the Stopper is aligned with the deeper cutout on the Lock Ring, the CUPLA will be unlocked.

