




For High Pressure

S210 Cupla

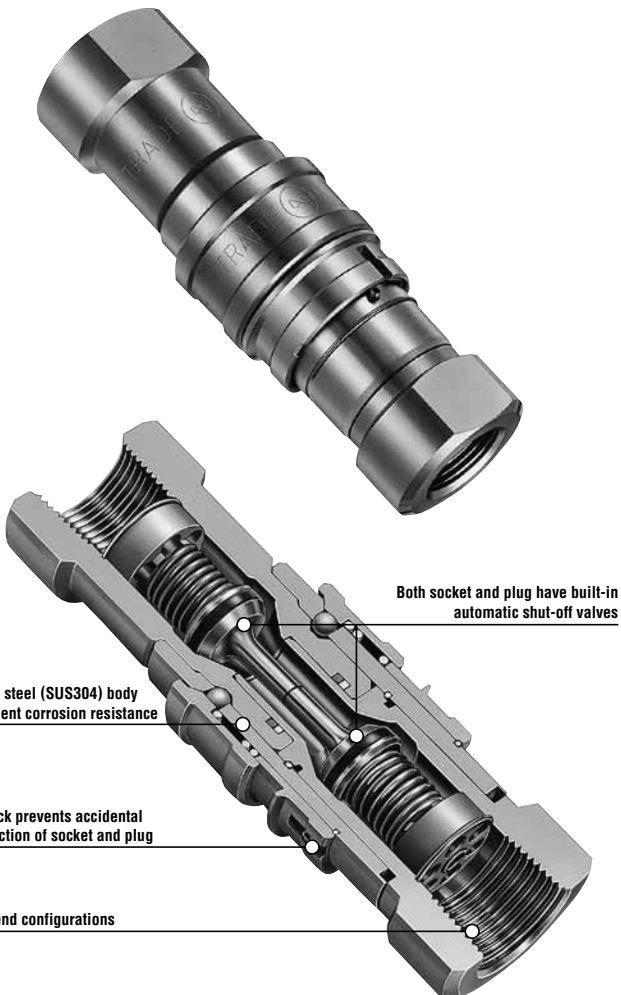
Stainless steel Cupla for high pressure up to 20.6 MPa (210 kgf/cm²)

Working pressure  20.6 MPa (210 kgf/cm ²)	Valve structure  Two-way shut-off	Applicable fluids  Water Hydraulic oil Gas
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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. Easy to handle.



Specifications				
Body material		Stainless steel (SUS304)		
Size (Thread)		1/4", 3/8", 1/2", 3/4", 1"		
Working pressure	MPa	20.6		
	kgf/cm ²	210		
	bar	206		
	PSI	2990		
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	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.

Max. 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

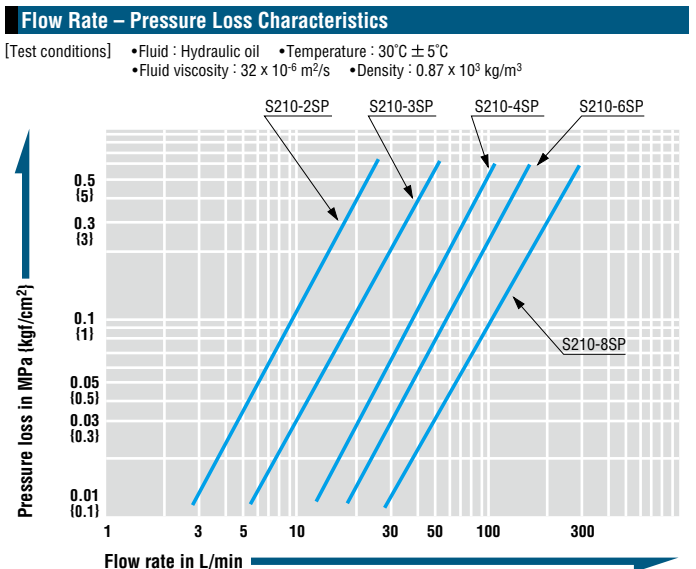
Fluid may flow in either direction from plug or from socket side when coupled.

Interchangeability
Different sizes are not interchangeable.

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

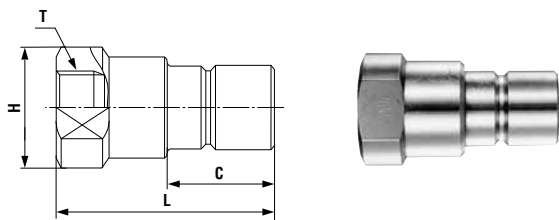
Suitability for Vacuum			1.3 Pa (1 x 10 ⁻² mmHg)
Socket only	Plug only	When connected	
—	—	Operational	

Admixture of Air on Connection					Admixture of air may vary depending upon the usage conditions.	(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	



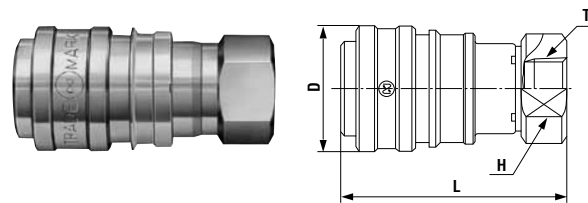
Models and Dimensions

Plug Female thread



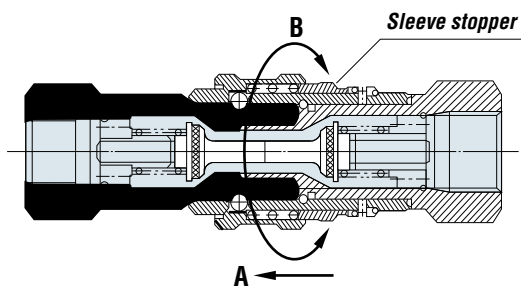
Model	Application	Mass (g)	Dimensions (mm)			
			L	C	H(WAF)	T
S210-2P	R 1/4	74	50.5	20	19 x ø22	Rc 1/4
S210-3P	R 3/8	127	59	24	24 x ø28	Rc 3/8
S210-4P	R 1/2	239	70.5	28	30 x ø35	Rc 1/2
S210-6P	R 3/4	446	81.5	35.5	38 x ø44	Rc 3/4
S210-8P	R 1	939	100	47.5	50 x ø58	Rc 1

Socket Female thread



Model	Application	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	1,381	(118)	62	50	Rc 1

Construction of and How to Use Safety Lock (Accidental Disconnection Prevention Mechanism)



To lock the sleeve

Push the sleeve stopper towards A and turn 90° clockwise or counterclockwise to engage the sleeve stopper.

To unlock the sleeve

Push the sleeve stopper toward A and turn 90° (toward B) to the left or right to disengage the sleeve stopper.

Application Example



Ocean development