






For High Pressure

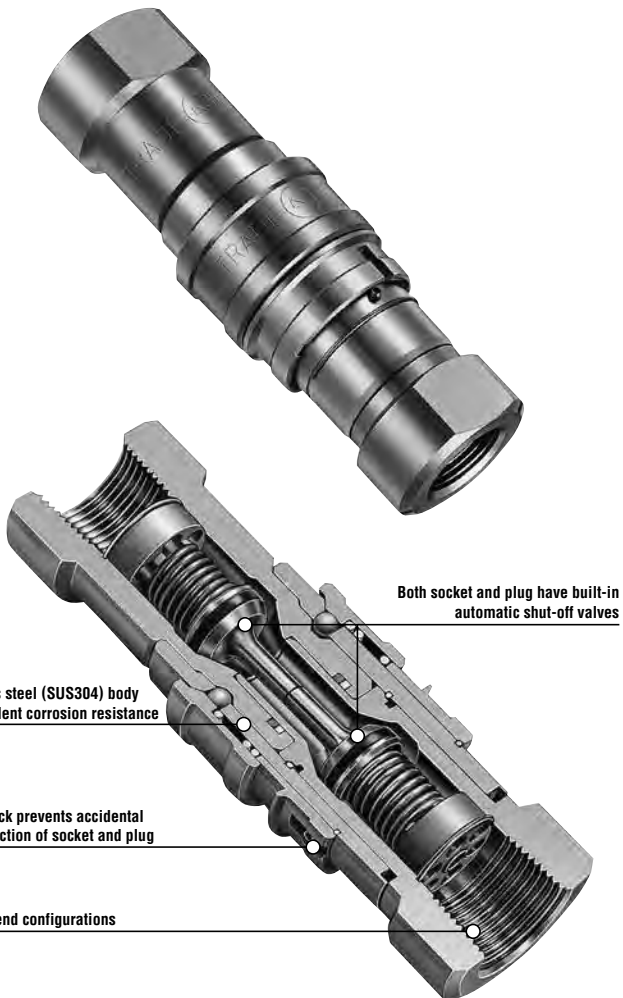
S210 Cupla

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

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

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.



Both socket and plug have built-in automatic shut-off valves

Stainless steel (SUS304) body for excellent corrosion resistance

Safety lock prevents accidental disconnection of socket and plug

Various end configurations

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 Working temperature range	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.

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

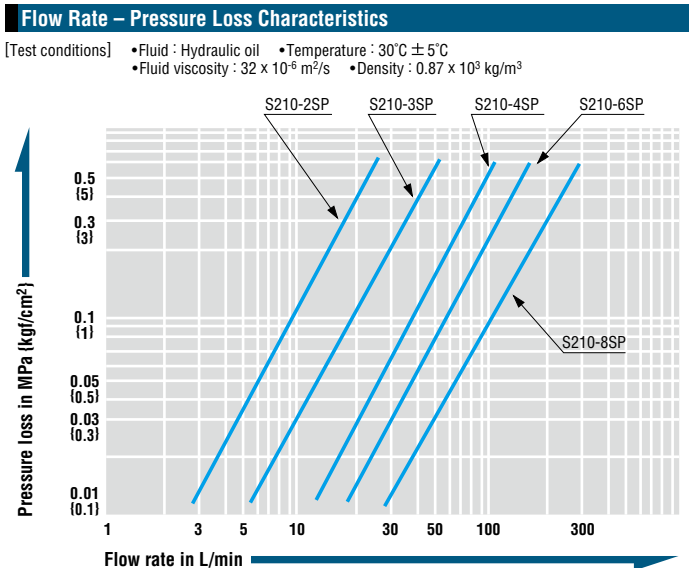
Fluid flow can be bi-directional when socket and plug are connected.

Interchangeability
 Different sizes are not interchangeable.

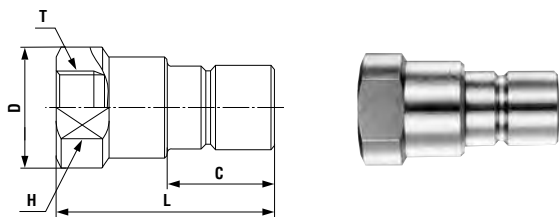
Min. Cross-Sectional Area	(mm ²)				
Model	S210-2SP	S210-3SP	S210-4SP	S210-6SP	S210-8SP
Min. cross-sectional area	24	47	84	153	233

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

Admixture of Air on Connection	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

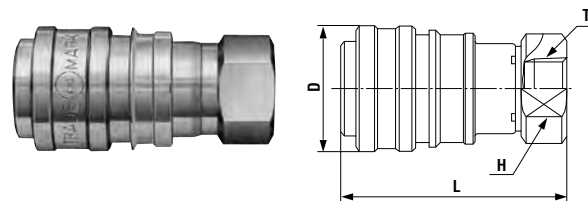


Plug Female thread



Model	Application	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

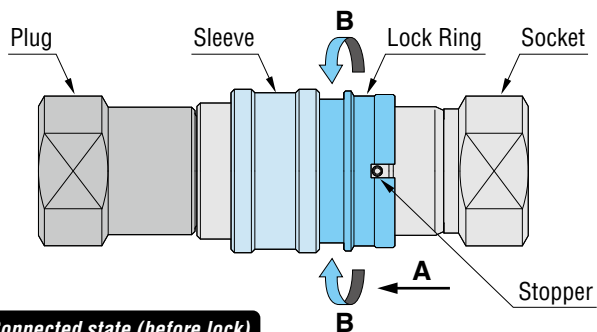
Socket Female thread



Model	Application	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

How to operate the Safety Lock

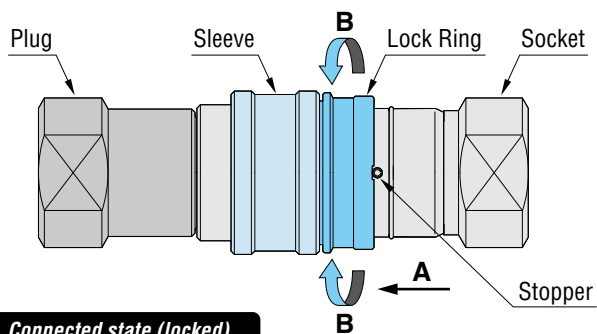
How to lock



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.

Application Example



Ocean development