

For High Pressure

S210 Cupla

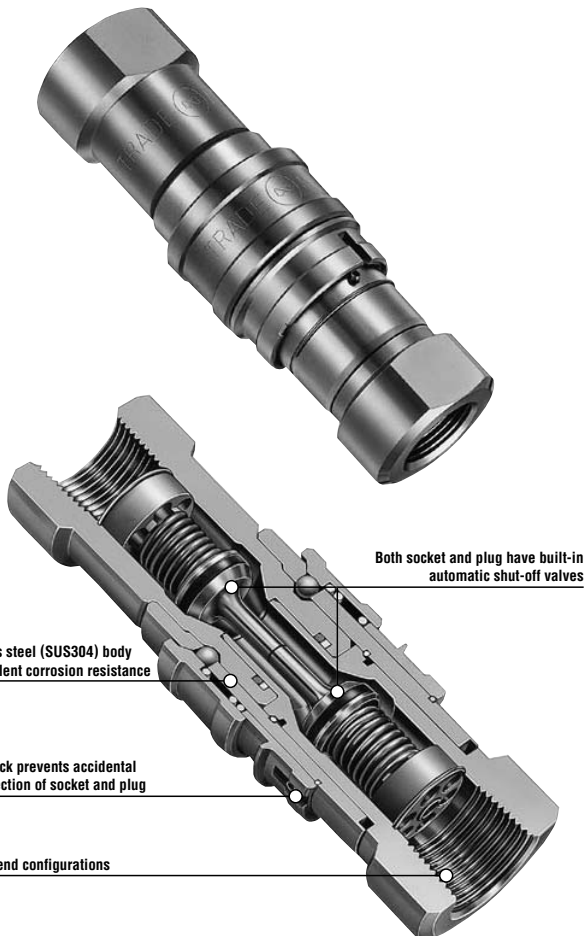
Stainless steel Cupla for high pressure up to 20.6MPa (210kgf/cm²)

Working pressure	Valve structure	Applicable fluids		
20.6 20.6MPa (210kgf/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 20.6MPa.

- 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 20.6MPa (210kgf/cm²), the same as steel’s.
- Safety lock ensures tight and secured connection (preventing accidental disconnection) 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	1/4" • 3/8" • 1/2" • 3/4" • 1"			
Working pressure MPa (kgf/cm ²)	20.6 (210)			
Pressure resistance MPa (kgf/cm ²)	31.0 (316)			
Seal material	Seal material	Mark	Working temperature range	Remarks
	Fluoro rubber	FKM (X-100)	-20°C~+180°C	Standard material
Working temperature range	Nitrile rubber	NBR (SG)	-20°C~+80°C	Made-to-order item

• The product comes with a dust cap.

Max. Tightening Torque		N·m (kgf·cm)				
Size		1/4"	3/8"	1/2"	3/4"	1"
Torque		28 (286)	35 (357)	70 (714)	100 (1020)	180 (1836)

Flow Direction

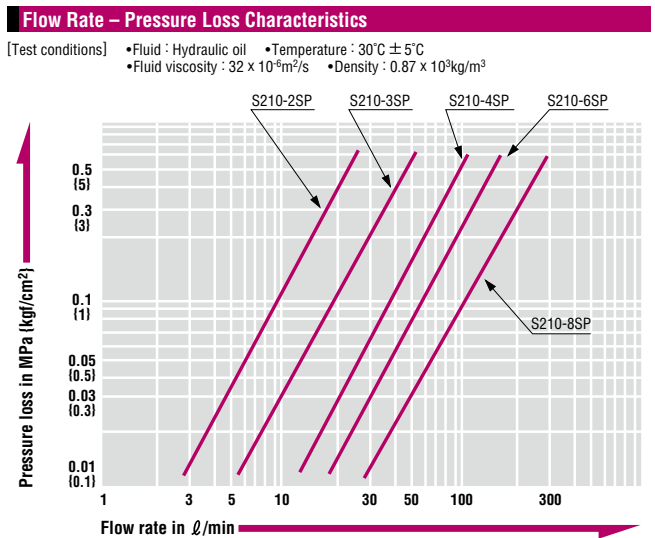
Fluid may flow in either direction from plug or from socket side when coupled.

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		26	47	84	153	233

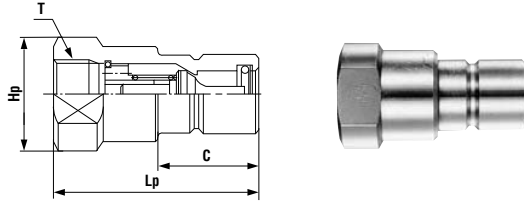
Suitability for Vacuum		1.3Pa (1 x 10 ⁻² mmHg)		
Socket only	Plug only	When connected		
—	—	Operational		

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



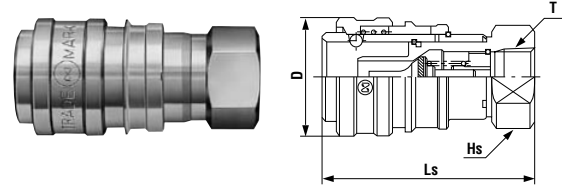
Models and Dimensions

Plug Female thread



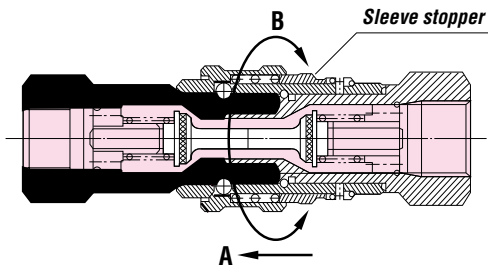
Model	Application	Mass (g)	Dimensions (mm)			
			Lp	C	Hp(WAF)	T
S210-2P	R 1/4	75	50.5	20	19 x ø22	Rc 1/4
S210-3P	R 3/8	131	59	24	24 x ø28	Rc 3/8
S210-4P	R 1/2	242	70.5	28	30 x ø35	Rc 1/2
S210-6P	R 3/4	452	81.5	35.5	38 x ø44	Rc 3/4
S210-8P	R 1	935	100	47.5	50 x ø58	Rc 1

Socket Female thread



Model	Application	Mass (g)	Dimensions (mm)			
			Ls	øD	Hs(WAF)	T
S210-2S	R 1/4	130	(59)	27	19	Rc 1/4
S210-3S	R 3/8	220	(68.5)	32	24	Rc 3/8
S210-4S	R 1/2	395	(81)	39.7	30	Rc 1/2
S210-6S	R 3/4	680	(97.5)	48	38	Rc 3/4
S210-8S	R 1	1,365	(118)	62	50	Rc 1

Construction of and How to Use Safety Lock (Fail Safe Mechanism) to Prevent Accidental Disconnection



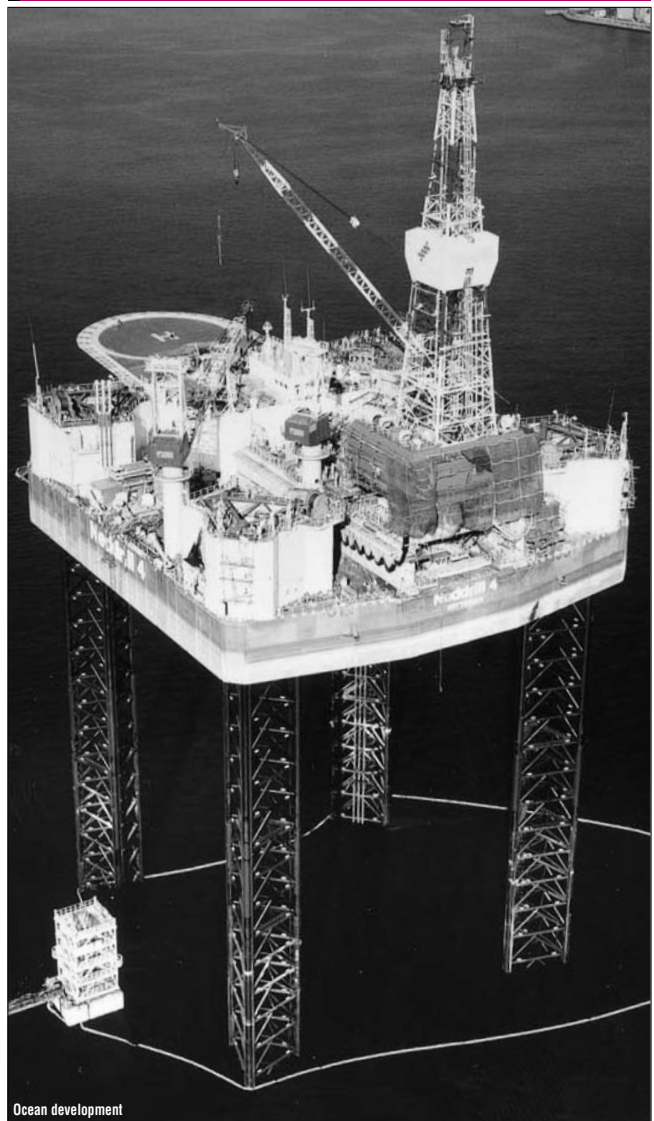
To lock the sleeve

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

To unlock the sleeve

Push the sleeve stopper towards A and turn 90° (towards B) to the left or right to disengage the sleeve stopper.
Socket and plug can now be easily disconnected.

Application Example



Ocean development