SP Type

Medium pressure, Twin valve Type

- Both socket and plug have automatic shut-off valves for medium pressure applications.
- Various packing materials enable a wide variety of applications.
- SUS 316 is available.

- When disconnecting
  both socket and plug are sealed by automatic shut off valves instantly.
- When connecting
  automatic shut off valves of socket and plug open and seal by O-ring with Backup-ring.

*Putting dust covers on socket and plug under disconnection is recommendable.
*Different sizes are not interchangeable.
*To specify the material of packing, please advise us the name of fluid.
*When connecting to female thread or hose, please use a nipple.

Caution

Do not connect or disconnect couplings under pressure.
Do not apply pressure on socket or plug under disconnected. This may cause the valve to be blown out.
Do not hit top of valves with hammer or other tools.This may cause leakage or malfunction.
For hydraulic fluid use , keep its flow rate less than 8m/s.
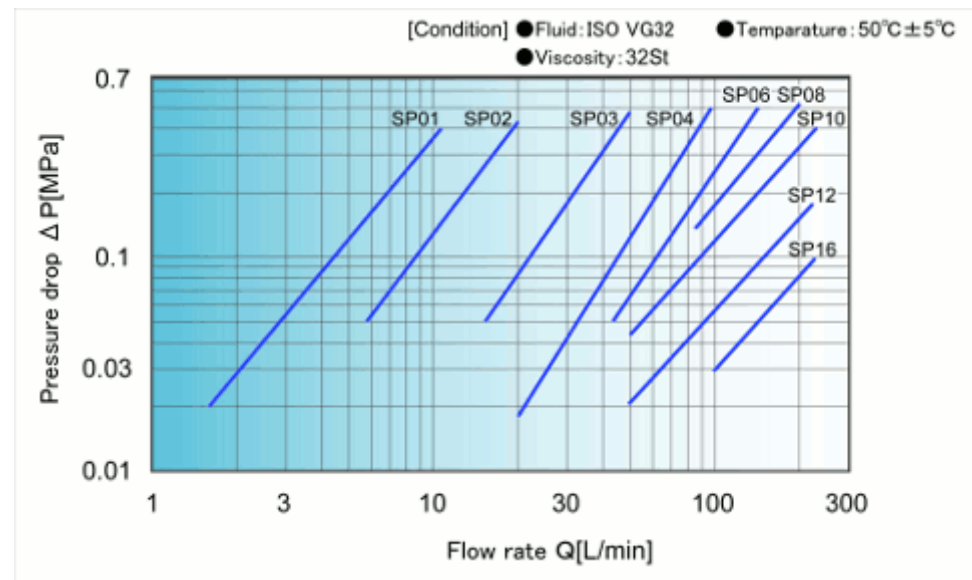When mounting on male thread, excessive tightening may cuase the crack of coupling.
Scraps of the seal tape and dust causes fluid leakage. Be careful not to stick them to the couplings.
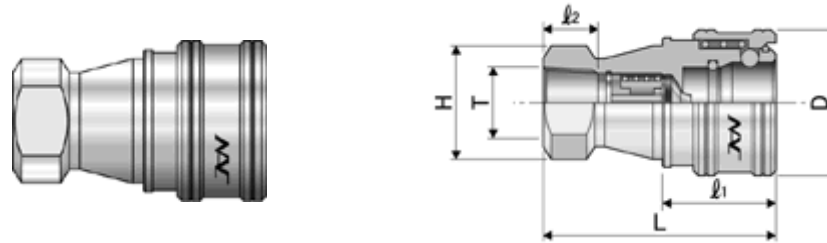
Specification

Model	01	02	03	04	06	08	10	12	16
Nominal Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"	11/4"	11/2"	2"
Body material	Brass (BSBM) , Stainless steel (SUS304 , SUS316) , Steel (Zinc-plated)SC								
Connection	Female thread (F) only								

Normal pressure, MAX. pressire MPa(kgf/cm²)									
	Brass	5.0(50) 7.5(75)			3.0(30) 4.5(45)			2.0(20) 3.0(30)	1.5 (15) 2.3 (23)
	Stainless steel	7.5(75) 10(100)			4.5(45) 6.5(65)			3.0(30) 4.5(45)	2.0 (20) 3.0 (30)
	Steel	7.5(75) 10(100)			4.5(45) 6.5(65)			3.0(30) 4.0(40)	2.0 (20) 3.0 (30)

Packing material		
	Standard	[Steel , Brass , Stainless steel (SUS304)] Nitrile rubbe r(NBR) [Stainless steel (SUS316)] Viton (FPM)	[Brass , Stainless steel (SUS304 , 316)] Viton (FPM) :-20°C to +180°C [Steel (Zinc-plated)] Nitrile rubber (NBR) :-20°C to +80°C
	Option	Viton(FPM)	[Brass] Nitrile rubber(NBR) :-20°C to +80°C [Stainless steel (SUS304 , 316)] Nitrile rubber (NBR) :-20°C to +80°C Perfluoroelastomer(P) :-20°C to +180°C Ethylene-propylene rubber(EPDM) :-50°C to +120°C [Steel (Zinc-plated)] Viton(FPM) :-20°C to +180°C

Applicable fluid		
	Brass	Gasoline , Heavy oil , Kerosene , water , Air , etc.
	Stainless steel (SUS304)	Acidic fluid , Alkaline fluid , Brine , etc.

Stainless steel (SUS316)	Water , Brine , Acidic fluid , Alkaline fluid , etc.	
Steel	Hydraulic oil	
Applications	Water piping , Oxygen piping , Acetylene piping , Steam piping , High-pressure gas piping , Chemical plant , Ship , etc.	

Flow-rate Pressure drop characteristic table
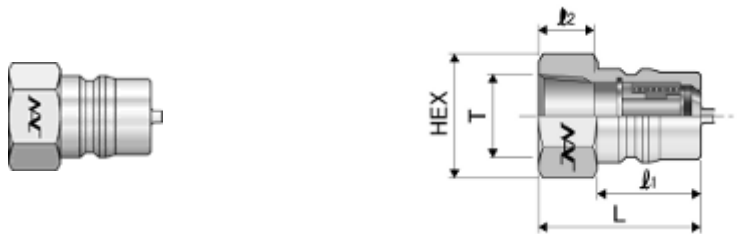
SP Type Stainless steel (SUS304) Socket

Specification

Model	Application	Dimensions (mm)						Weight (g)
		L	∅D	H	ℓ₁	ℓ₂	T	
CSP01S3	R 1/8"	48	24	∅18/Face14	16.5	10	Rc 1/8"	79
CSP02S3	R 1/4"	58	28	∅22/Face19	17.5	13	Rc 1/4"	128
CSP03S3	R 3/8"	65	35	∅25/Face21	20	14	Rc 3/8"	195
CSP04S3	R 1/2"	72	45	∅35/Face29	25.5	16	Rc 1/2"	400
CSP06S3	R 3/4"	88	55	∅41/Face35	32	17	Rc 3/4"	670
CSP08S3	R 1"	102	65	∅48/Face41	32.5	20	Rc 1"	1000
CSP10S3	R 1 1/4"	115	77.5	∅59/Face54	34	24	Rc 1 1/4"	1603
CSP12S3	R 1 1/2"	124	87.5	∅69/Face63	39	25	Rc 1 1/2"	2361
CSP16S3	R 2"	132	109	∅86/Face77	39	26	Rc 2"	3752

Standard Packing material :	CSP01S3 to CSP03S3 are Nitrile rubber (NBR) CSP04S3 to CSP16S3 are Viton (FPM)

SP Type Stainless steel (SUS304) Plug

Specification

Model	Application	Dimensions(mm)					Weight (g)
		L	Hex	ℓ_1	ℓ_2	T	
CSP01P3	R 1/8"	29	14	19	10	Rc 1/8"	18
CSP02P3	R 1/4"	36	17	22	13	Rc 1/4"	33
CSP03P3	R 3/8"	40	21	25	14	Rc 3/8"	58
CSP04P3	R 1/2"	44	29	28	16	Rc 1/2"	116
CSP06P3	R 3/4"	52	35	36	17	Rc 3/4"	203
CSP08P3	R 1"	62	41	40	20	Rc 1"	341
CSP10P3	R 1 1/4"	70	54	45	24	Rc 1 1/4"	612
CSP12P3	R 1 1/2"	75	65	49	25	Rc 1 1/2"	878
CSP16P3	R 2"	80	⌀84/Face77	52	26	Rc 2"	1572

Standard Packing material :	CSP01P3 to CSP03P3 are Nitrile rubber (NBR)
	CSP04P3 to CSP16P3 are Viton (FPM)