For High Purity Chemicals

Semicon Cupla

SCS Type

For semiconductor manufacturing equipment

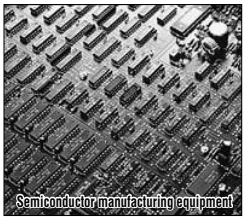
Working pressure: 0.2 MPa (2 kgf/cm²)

Valve structure: Two-way shut-off

Applicable fluids: High purity chemicals, Water, Gas, Air

Adopted stainless steel body and fluorine contained resin valves.

- The body and spring material of stainless steel (SUS304), and valve of fluorine contained resin ensure excellent performance with various chemicals.
- Body (SUS304) is electropolished for enhanced corrosion resistance.
- Plug comes with a dust cap.



Specifications

Body material	Electropolished stainless steel (SUS304)			
Size	1/8" • 1/4" • 3/8" • 1/2" • 3/4" • 1"			
Working pressure MPa (kgf/cm²)	0.2 {2}			
Pressure resistance MPa (kgf/cm²)	0.3 {3}			
Seal material (Socket O-ring) Working temperature range	**Seal material**	**Mark**	**Working temperature range**	**Remarks**
	Perfluoroelastomer	P	0°C~+50°C	Standard material
	Ethylene-propylene rubber *	EPDM (EPT)	0°C~+50°C	Standard material
	Fluoro rubber *	FKM (X-100)	0°C~+50°C	Standard material
Valve	Fluorine contained resin (1/8"•1/4") Fluorine contained resin+SUS304 (3/8"•1/2"•3/4"•1")			

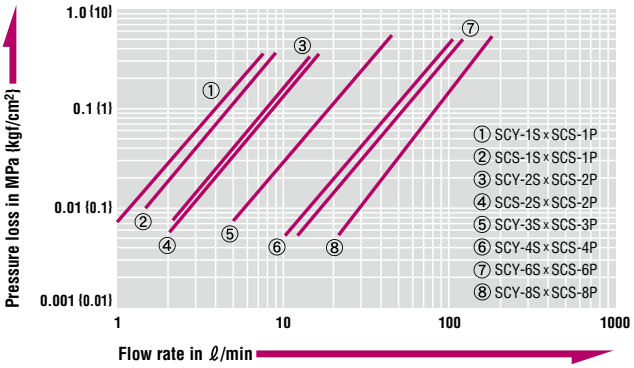
*Available on request.

Min. Cross-Sectional Area (mm²)

Model	SCS-1SP	SCS-2SP	SCS-3P	SCS-4P	SCS-6P	SCS-8P
Min. cross-sectional area	15	23	28	71	110	162

Flow Rate – Pressure Loss Characteristics

[Test conditions] •Fluid : Water •Temperature : 21°C~32°C



Interchangeability Check List (SCS Type • SCY Type)

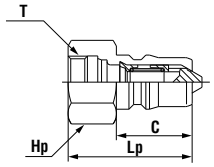
● indicates connection capability except for made-to-order products.

		Socket							
	Model	SCS Type		SCY Type					
		-1S	-2S	-1S	-2S	-3S	-4S	-6S	-8S
Plug SCS Type	-1P	●		●					
	-2P		●		●				
	-3P					●			
	-4P						●		
	-6P							●	
	-8P								●

Models and Dimensions

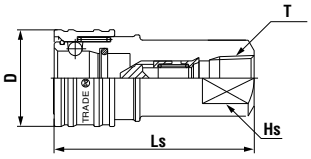
WAF : WAF stands for width across flat.

Plug Female thread



Model	Container capacity	Mass (g)	Dimensions (mm)			
			Lp	C	Hp(WAF)	T(Female thread)
SCS-1P	For 10ℓ~20ℓ	17	29	19	Hex.14	Rc 1/8
SCS-1P-NPT	For 10ℓ~20ℓ					1/8-27NPT
SCS-1P-UNS	For 10ℓ~20ℓ	34	33	19	Hex.21	19/32-18UNS
SCS-2P	For 10ℓ~20ℓ	32	34	22	Hex.17	Rc 1/4
SCS-2P-NPT	For 10ℓ~20ℓ	41				1/4-18NPT
SCS-2P-UNS	For 10ℓ~20ℓ	29	36	22	Hex.21	19/32-18UNS
SCS-3P	For 100ℓ~200ℓ	61	40	25	Hex.21	Rc 3/8
SCS-4P	For 100ℓ~200ℓ	114	44	28	Hex.29	Rc 1/2
SCS-6P	For 100ℓ~200ℓ	198	52	36	Hex.35	Rc 3/4
SCS-8P	For 100ℓ~200ℓ	338	62	40	Hex.41	Rc 1

Socket Female thread



Model	Container capacity	Mass (g)	Dimensions (mm)			
			Ls	øD	Hs(WAF)	T(Female thread)
SCS-1S-NPT	For 10ℓ~20ℓ	84	48	24	14	1/8-27NPT
SCS-2S-NPT	For 10ℓ~20ℓ	138	58	28	19	1/4-18NPT

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.