







# For High Purity Chemicals

# Semicon Cupla

## SP Type

For semiconductor manufacturing production installation

<b>Working pressure</b>	<b>Valve structure</b>	<b>Applicable fluids</b>			
					
0.2 MPa (2 kgf/cm <sup>2</sup> )	Two-way shut-off	High purity chemicals	Water	Gas	Air

**General purpose type with stainless steel body and rubber seal.**  
**Electro-polished body for enhanced corrosion resistance.**

- Body and valve springs are stainless steel (SUS304). Body is electro-polished for enhanced corrosion resistance.
- Seal materials can be selected to suit your fluid and application, to flexibly comply with your semiconductor production process requirements.
- All components are cleaned, assembled, inspected, and then packed in a clean room.
- Grease free. No grease is applied to the seal material.
- Each plug comes with a dust cap.
- Stainless steel SUS316 body and valve springs are available as made-to-order products.

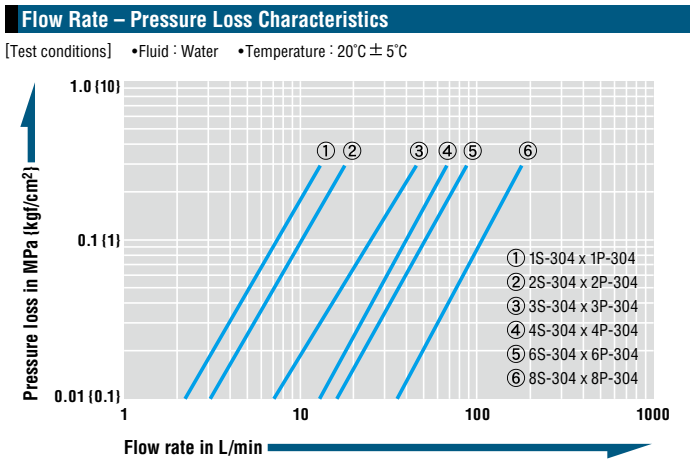


Specifications				
Body material	Electropolished stainless steel (SUS304)			
Size (Thread)	1/8", 1/4", 3/8", 1/2", 3/4", 1" 1/8-27NPT, 1/4-18NPT, 19/32-18UNS			
Pressure unit	MPa	kgf/cm <sup>2</sup>	bar	PSI
Working pressure	0.2	2	2	29
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Fluoro rubber	FKM (X-100)	0°C to +50°C	Standard material
	Ethylene-propylene rubber	EPDM (EPTS)	0°C to +50°C	Standard material
	Perfluoroelastomer	P	0°C to +50°C	Standard material
	Kalrez	KL	0°C to +50°C	Standard material

Max. Tightening Torque		Nm (kgf·cm)					
Size	1/8-27NPT Rc 1/8	1/4-18NPT Rc 1/4	19/32-18UNS	Rc 3/8	Rc 1/2	Rc 3/4	Rc 1
Torque	9 (92)	14 (143)	20 (204)	22 (224)	60 (612)	90 (918)	120 (1224)

**Interchangeability**  
 The model name starting with the same digit are interchangeable regardless of end configurations.

Min. Cross-Sectional Area	(mm <sup>2</sup> )					
Model	1SP	2SP	3SP	4SP	6SP	8SP
Min. cross-sectional area	13	17	48	64	83	192



### Models and Dimensions

Model	Container capacity	Mass (g)	Dimensions (mm)			
			L	C	H(WAF)	T
1P-304	For 10L to 20L	19	29	19	Hex.14	Rc 1/8
1P-304-NPT	For 10L to 20L					1/8-27NPT
1P-304-UNS	For 10L to 20L	34	33	19	Hex.21	19/32-18UNS
2P-304	For 10L to 20L					Rc 1/4
2P-304-NPT	For 10L to 20L	35	36	22	Hex.17	1/4-18NPT
2P-304-UNS	For 10L to 20L	41	36	22	Hex.21	19/32-18UNS
3P-304	For 100L to 200L	60	40	25	Hex.21	Rc 3/8
4P-304	For 100L to 200L	115	44	28	Hex.29	Rc 1/2
6P-304	For 100L to 200L	216	52	36	Hex.35	Rc 3/4
8P-304	For 100L to 200L	352	62	40	Hex.41	Rc 1

\* Above are the dimensions of SUS304.  
 \* The appearance of SUS304 and 316 bodies is different.

WAF : WAF stands for width across flats.

Model	Container capacity	Mass (g)	Dimensions (mm)			
			L	φD	H(WAF)	T
1S-304	For 10L to 20L	82	48	24	14	Rc 1/8
1S-304-NPT	For 10L to 20L	84				1/8-27NPT
2S-304	For 10L to 20L	138	58	28	19	Rc 1/4
2S-304-NPT	For 10L to 20L					1/4-18NPT
3S-304	For 100L to 200L	204	65	35	21	Rc 3/8
4S-304	For 100L to 200L	424	72	45	29	Rc 1/2
6S-304	For 100L to 200L	708	88	55	35	Rc 3/4
8S-304	For 100L to 200L	1081	102	65	41	Rc 1

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