For High Purity Chemicals

Semicon Cupla

SCT Type

For semiconductor production installation using fluororesin pipe lines

Working pressure: 0.2 MPa (2 kgf/cm²)

Valve structure: Two-way shut-off

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

Adopted is polytetrafluoroethylene (PTFE) for the body.

- Polytetrafluoroethylene (PTFE) body gives excellent resistance to chemicals.
- Automatic shut-off valves in both socket and plug prevent fluid outflow from lines on disconnection.
- No dissolution of metal ions from part in contact with liquid ensures excellent reliability.
- All components are cleaned, assembled, inspected and then packed in a clean room.
- Appropriate model can be selected from an abundant variety of sizes to suit your application and fluid.

Specifications

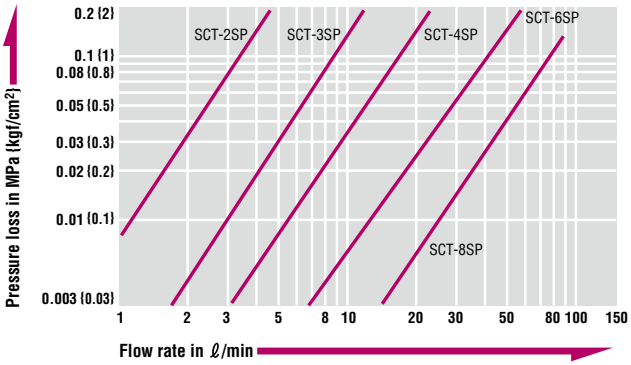
Body material	Polytetrafluoroethylene (PTFE)			
Size	1/4" • 3/8" • 1/2" • 3/4" • 1"			
Working pressure MPa (kgf/cm²)	0.2 {2}			
Pressure resistance MPa (kgf/cm²)	0.3 {3}			
Seal material Working temperature range	Seal material	Mark	Working temperature range	Remarks
	FEP-coated fluoro-rubber	—	+5℃~+50℃	Standard material
Valve	Fluorine contained resin (+5℃~+50℃)			

Min. Cross-Sectional Area (mm²)

Model	SCT-2SP	SCT-3SP	SCT-4SP	SCT-6SP	SCT-8SP
Min. cross-sectional area	12	34	54	103	225

Flow Rate – Pressure Loss Characteristics

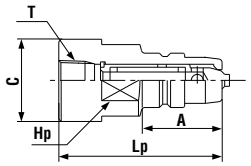
[Test conditions] •Fluid : Water •Temperature : 20℃ ± 5℃



Models and Dimensions

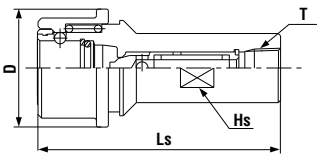
WAF : WAF stands for width across flat.

Plug Female thread



Model	Mass (g)	Dimensions (mm)				
		Lp	A	øC	Hp(WAF)	T(Female thread)
SCT-2P	43	59	30.5	27.5	24	Rc 1/4
SCT-2P-NPT						1/4-18NPT
SCT-3P	77	68.5	33.5	34.5	30	Rc 3/8
SCT-3P-NPT						3/8-18NPT
SCT-4P	91	69.5	37.5	39.5	36	Rc 1/2
SCT-4P-NPT						1/2-14NPT
SCT-6P	160	78.5	45	48	41	Rc 3/4
SCT-6P-NPT						3/4-14NPT
SCT-8P	300	112	60.5	59	50	Rc 1
SCT-8P-NPT						1-11.5NPT

Socket Female thread



Model	Mass (g)	Dimensions (mm)			
		Ls	øD	Hp(WAF)	T(Female thread)
SCT-2S	101	89.5	41	19	Rc 1/4
SCT-2S-NPT					1/4-18NPT
SCT-3S	156	102	49.5	24	Rc 3/8
SCT-3S-NPT					3/8-18NPT
SCT-4S	192	107	54.5	30	Rc 1/2
SCT-4S-NPT					1/2-14NPT
SCT-6S	340	123	68	36	Rc 3/4
SCT-6S-NPT					3/4-14NPT
SCT-8S	770	172.5	82	46	Rc 1
SCT-8S-NPT					1-11.5NPT

* Available end configurations are female ISO Rc thread and female NPT thread.
* Plug or socket with female ISO Rc end configuration has V-groove on the body as identification. (In case of female NPT thread, no V-groove on either plug or socket body.)
* Please inquire for the end configurations other than female thread, such as flanged or male thread.

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