

For High Purity Chemicals

Semicon Cupla

SCT 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

Polytetrafluoroethylene (PTFE) is utilised for the body.

- Polytetrafluoroethylene (PTFE) body gives excellent resistance to chemicals.
- Both socket and plug have built-in automatic shut-off valves that prevent fluid from outflowing when disconnected.
- 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 a wide variety of sizes to suit your application / fluid.
- Optional keyway lock to prevent incorrect connection. 10 keyway patterns are available.



Specifications

Body material	Polytetrafluoroethylene (PTFE)				
Size (Thread)	1/4", 3/8", 1/2", 3/4", 1" 1/4-18NPT, 3/8-18NPT, 1/2-14NPT, 3/4-14NPT, 1-11.5NPT				
Pressure unit	MPa	kgf/cm ²	bar	PSI	
Working pressure	0.2	2	2	29	
Seal material	Socket O-ring	Seal material	Mark	Working temperature range	Remarks
		FEP-covered fluoro rubber	—	+5°C to +50°C	
Working temperature range	Valve	Fluoropolymer resin (PFA)			

Max. Tightening amount (approximate)

With seal tape wrapped on the male thread, screw it firmly by hand, and then add more tightening with a wrench as shown below.

1 3/4 to 2 turns

1/4" • 3/8" • 1/2" • 3/4" • 1" Size

Whichever method, overtightening may damage the thread and cause leakage, so take extra care.

Interchangeability

The model name {SCT-□S (P)} with the same digit in □ are interchangeable regardless of end configurations.

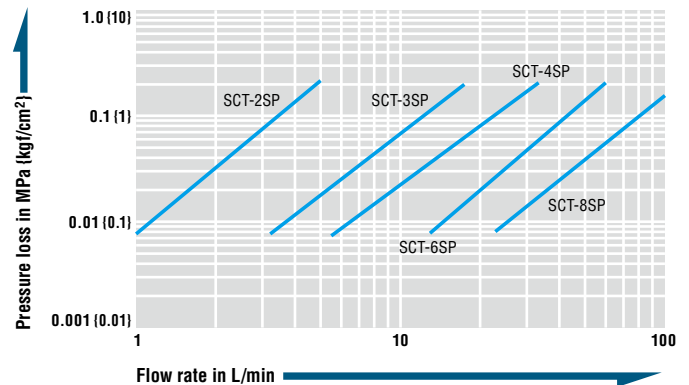
Min. Cross-Sectional Area

(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 : 23°C ± 3°C

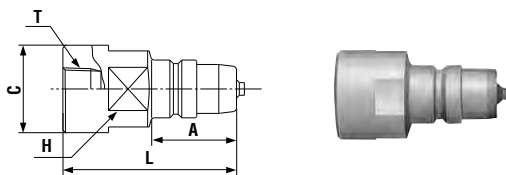


Models and Dimensions

WAF : WAF stands for width across flats.

Plug

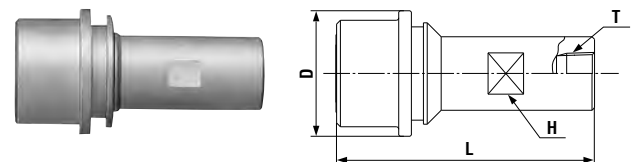
Female thread



Model	Mass (g)	Dimensions (mm)				
		L	A	øC	H(WAF)	T
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)			
		L	øD	H(WAF)	T
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 other end configurations other than female thread (e.g. 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.