

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				
Working pressure	MPa	0.2			
	kgf/cm ²	2			
	bar	2			
	PSI	29			
Seal material	Socket	Seal material	Mark	Working temperature range	Remarks
Working temperature range	O-ring	FEP-covered fluoro rubber	—	+5°C to +50°C	Standard material
	Valve	Fluoropolymer resin			

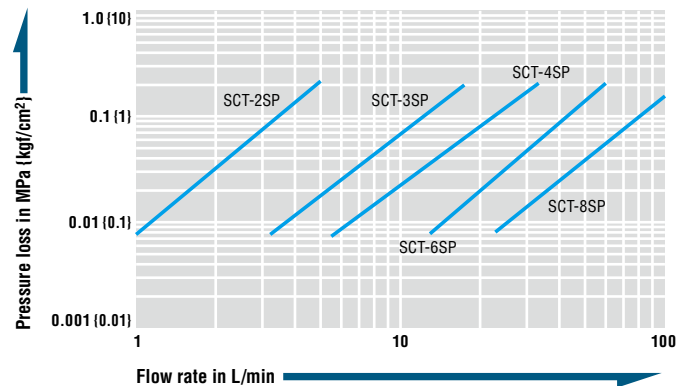
Min. Cross-Sectional Area

(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



Interchangeability

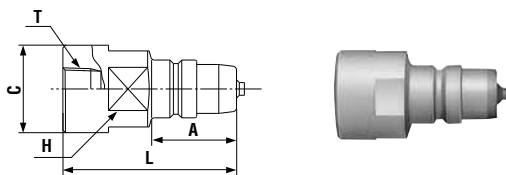
Different sizes are not interchangeable.

Models and Dimensions

WAF : WAF stands for width across flats.

Plug

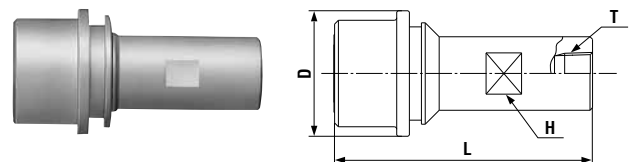
Female thread



Model	Mass (g)	Dimensions (mm)				
		L	A	øC	H(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)			
		L	øD	H(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 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.