

For High Purity Chemicals

Semicon Cupla

SCF 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



All plastic model. Fluorine contained resin (PFA) body is injection molded.

- All parts made of fluorine contained resin. O-rings in particular are FEP-coated fluoro-rubber with excellent chemical resistance and no rubber elution.
- Unique new techniques such as “injection molding”, “tube connect system” and “nut type plug mount design” are used to prevent the generation of particles, incessant headache for semiconductor parts manufacturers.
- To connect with a plug, just push the socket on to it. Disconnection is done in simple and one-handed button operation.
- Unique “double-lock mechanism” prevents accidental disconnection of socket and plug.
- Branched tube port improves operability and reduces required piping space.
- Plugs come with a dust cap.

Specifications

Body material	Fluorine contained resin (PFA)			
Size	1/4" × 3/8"			
Working pressure MPa (kgf/cm ²)	0.2 (2)			
Pressure resistance MPa (kgf/cm ²)	0.3 (3)			
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	FEP-coated fluoro-rubber	—	+5°C~+50°C	Standard material
Valve	Fluorine contained resin (+5°C~+50°C)			

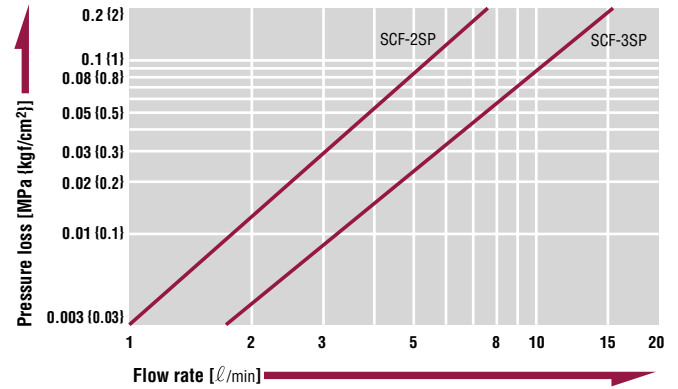
Min. Cross-Sectional Area

(mm²)

Model	SCF-2SP	SCF-3SP
Min. Cross-Sectional Area	23.8	44.2

Flow Rate – Pressure Loss Characteristics

[Test conditions] • Fluid : water • Temperature : 20°C ± 5°C

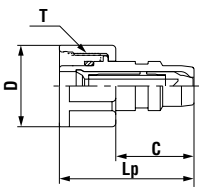


■ Please see page 134 for details how to cut and mount a tube on to the socket.

Models and Dimensions

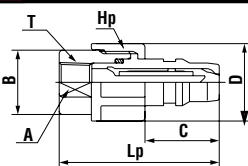
WAF : WAF stands for width across flats.

Plug Female thread



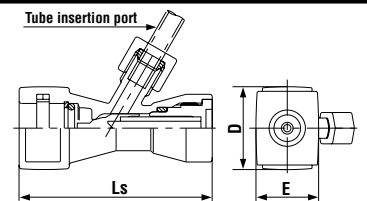
Model	Container capacity	Mass (g)	Dimensions (mm)			
			Lp	D(WAF)	C	T(Female thread)
SCF-2P-M26	For 10ℓ~20ℓ	33	54.2	Hex.30 x ø32.5	31.2	M26 x 1.5
SCF-3P-M32	For 10ℓ~20ℓ	50	57.9	Hex.36 x ø39	35.2	M32 x 1.5

Plug Straight type (Female thread)



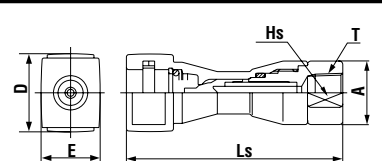
Model	Mass (g)	Dimensions (mm)						
		Lp	C	øD	Hp(WAF)	A(WAF)	øB	T(Female thread)
SCF-2P-3	53	67.2	31.2	32.5	Hex.30	Two flats 24	27	Rc 3/8
SCF-3P-4	79	71.2	35.2	39	Hex.36	Two flats 30	33	Rc 1/2

Socket For tube connection



Model	Container capacity	Mass (g)	Dimensions (mm)				Applicable tube
			Ls	D	E		
SCF-2SL-N08	For 10ℓ~20ℓ	76	77	45	34	ø6 x ø8	
SCF-3SL-N10	For 10ℓ~20ℓ	116	85	51	39	ø8 x ø10	

Socket Straight type (Female thread)



Model	Mass (g)	Dimensions (mm)					
		Ls	øA	Hs(WAF)	D	E	T(Female thread)
SCF-2S-3	83	92	27	Two flats 24	45	34	Rc 3/8
SCF-3S-4	124	102.5	33	Two flats 30	51	39	Rc 1/2

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