

For High Purity Chemicals

Semicon Cupla

SCF Type

For semiconductor manufacturing equipment

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

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

- All parts made of fluoropolymer resin. O-rings in particular are FEP-covered fluororubber 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.
- All components are cleaned, assembled, inspected, and then packed in a clean room.

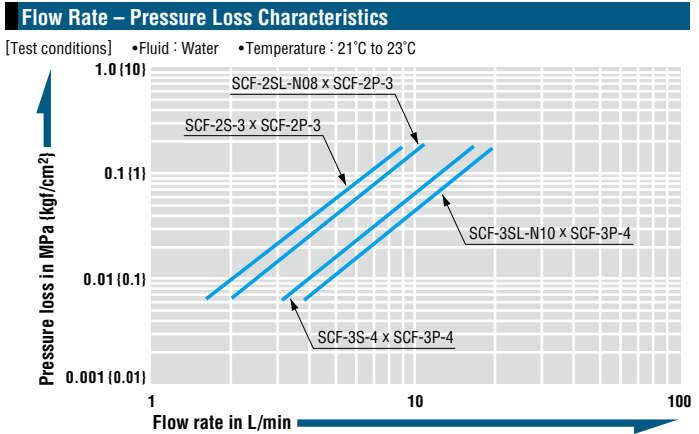


Please read “How to attach a tube to the socket” described on the page of “Maintenance of Cuplas” at the end of this book.

Resin containers

Specifications					
Body material		Fluoropolymer resin (PFA)			
Size	Thread	3/8", 1/2" / M26, M32			
	Tube barb	ø6 x ø8, ø8 x ø10			
Working pressure	MPa	0.2			
	kgf/cm ²	2			
	bar	2			
	PSI	29			
Seal material	Socket O-ring	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Valve	FEP-covered fluoro rubber	-	+5°C to +50°C	Standard material
		Fluoropolymer resin (PFA)			

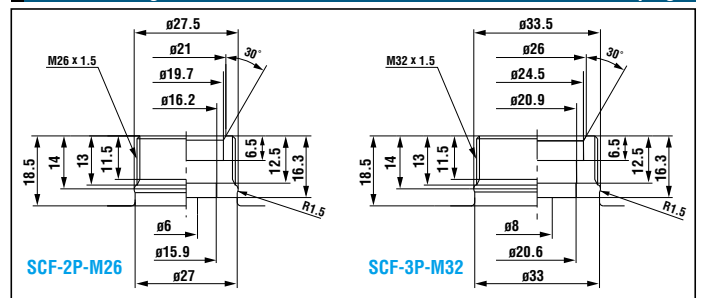
Min. Cross-Sectional Area (mm ²)		
Model	SCF-2SP	SCF-3SP
Min. cross-sectional ar	23.8	44.2



Interchangeability

Different sizes are not interchangeable.

Reference diagram The thread dimensions of container side for the plug.



For tolerance and other specific dimensions, consult us.

Models and Dimensions

WAF : WAF stands for width across flats.

Plug	Female thread		Dimensions (mm)				
	Model	Container capacity	Mass (g)	L	D(WAF)	C	T(Female thread)
	SCF-2P-M26	For 10L to 20L	33	(53.7)	Hex.30 x ø32.5	(31.2)	M26 x 1.5
	SCF-3P-M32	For 10L to 20L	50	(57.7)	Hex.36 x ø39	(35.2)	M32 x 1.5

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

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

Socket	Straight type (Female thread)		Dimensions (mm)					
	Model	Mass (g)	L	øA	H(WAF)	D	E	T(Female thread)
	SCF-2S-3	83	(92)	27	24	34	(45)	Rc 3/8
	SCF-3S-4	124	(102.5)	33	30	39	(51)	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.