

Inline clean filter

FCS⁵⁰⁰₁₀₀₀ Series

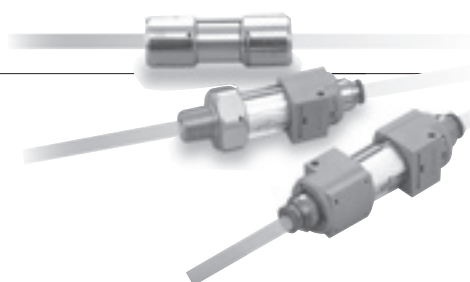
Our original hollow fiber membrane provides innovative filter performance.

Longer service life.

Inline clean filter FCS500/1000 Series with hollow fiber membrane filter element provides high performance in all aspects including filtration performance, flow rate, pressure loss, service life and installation space.

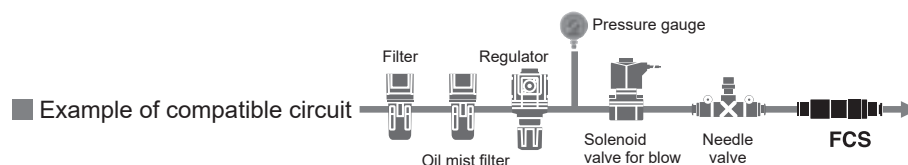
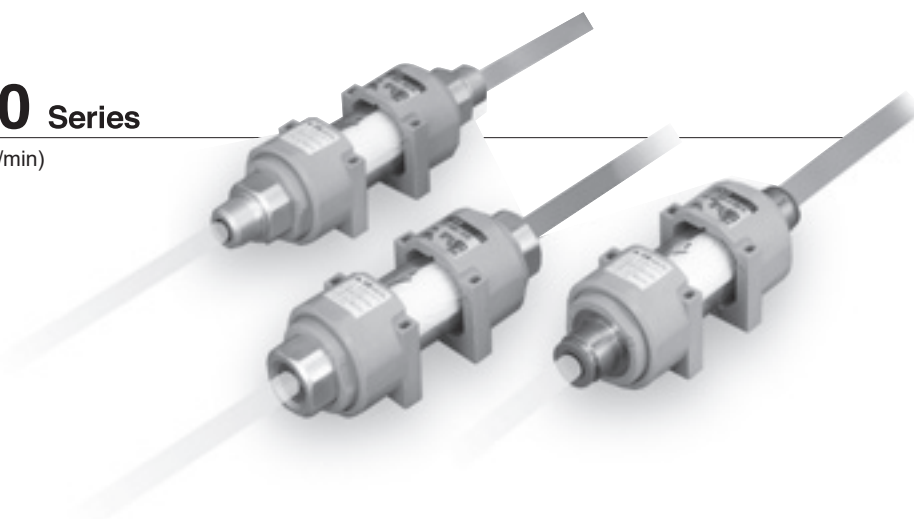
FCS500 Series

■ Flow rate/50, 80 (l/min)



FCS1000 Series

■ Flow rate/300, 400 (l/min)

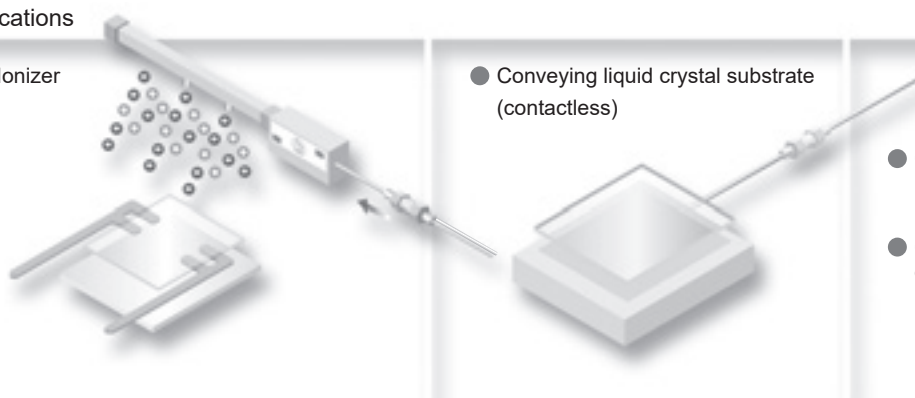


Applications

● Ionizer

● Conveying liquid crystal substrate (contactless)

- Clean blowing of disc (DVD, etc.) forming machine
- Cleaning air for suction conveying and vacuum breaking



F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filt
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

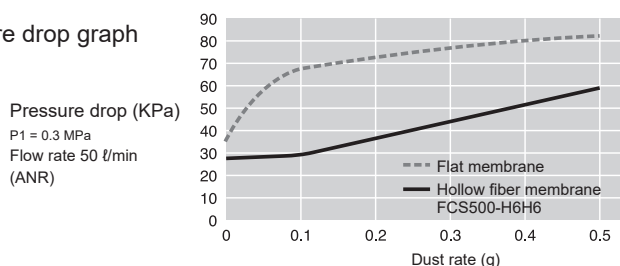
0.01 μm high precision filtration, 99.99% removal efficiency

Hollow fiber membrane element has enabled 0.01 μm high precision filtration and 99.99% removal efficiency.

Long service life

Considerably longer service life. Approximately five times longer than the flat membrane.

■ Dust rate - pressure drop graph



Compact, light and large flow rate

The filtration area is 3 to 10 times larger and enables larger flow rate and less pressure loss than the flat membrane of the same capacity. If the flow rate is the same, the hollow fiber membrane can be more compact and lighter.

Oil-prohibited specifications

Parts are all degreased and cleaned. The manufacturing processes from assembling to packaging are performed in clean rooms.

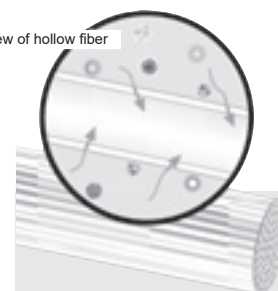
Easy maintenance

As the case of resin type is transparent, it is easy to visually check for dirt on the element.

Wide range of choices

Two kinds of flow rate (500 and 1000 Series), resin and stainless steel materials, and the mounting options of push-in fitting, male thread piping and female thread piping are available.

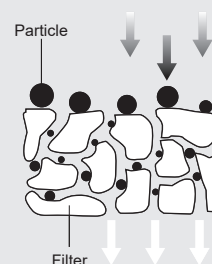
Enlarged view of hollow fiber



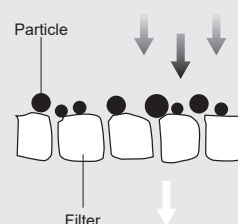
Structure of hollow fiber membrane

The hollow fiber membrane is a tubular membrane with a diameter of 3 mm or less, and having a multi-porous structure with an infinite number of small holes on the membrane wall. The particles found in the fluid are accurately removed when the fluid passes through this membrane. Our product uses a filter material of hollow fiber module made by bundling several tens of hollow fiber membranes. The filter has an extremely large membrane area enabling a large flow rate per unit volume.

■ Hollow fiber membrane



■ Flat membrane



Inline clean filter

FCS Series Variation

	▼ Body material	▼ Flow rate	▼ Port size											
			Push-in				Male thread			Female thread				
			ø4	ø6	ø8	ø10	ø12	R1/8	R1/4	R3/8	R1/8	R1/4	R3/8	
FCS500	Resin	50, 80 (l/min)	●	●	●			●	●					
	SUS		●	●	●			●	●					
FCS1000	Resin	300 to 400 (l/min)			●	●	●		●	●		●	●	●
	SUS				●	●	●		●	●		●	●	●



Read Safety Precautions to ensure correct, safe product use.

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