

Inline clean filter

FCS Series

Our original hollow fiber membrane provides the innovative filter performance.

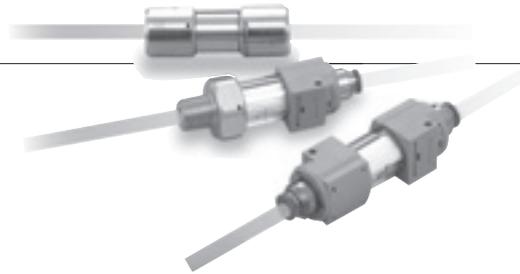
- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- FR (module unit)
- Clean F.R**
- Precision R
- Press gauge
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/
tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

Long 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 mounting space.

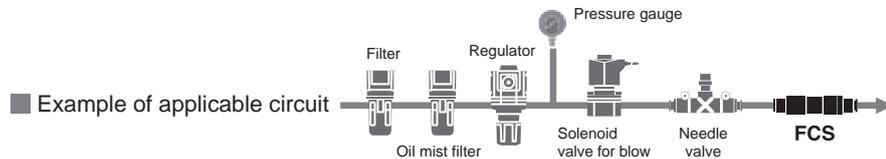
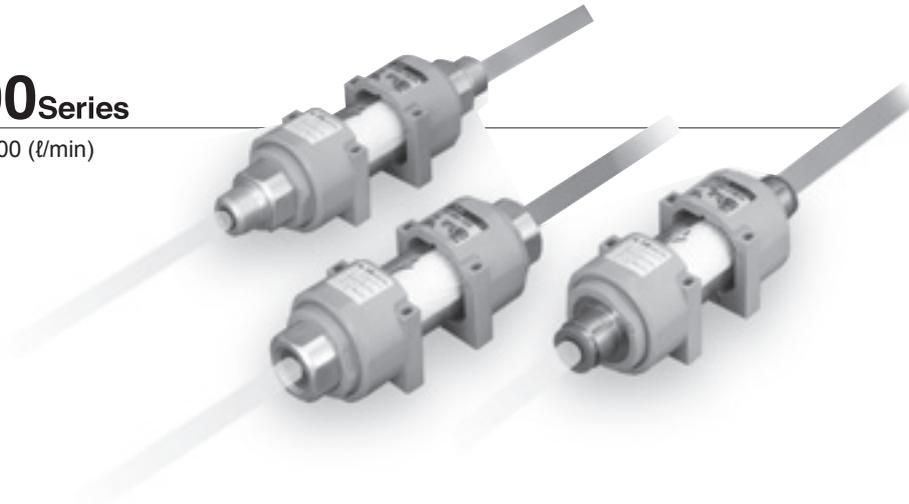
FCS500 Series

■ Flow rate/50, 80 (l/min)



FCS1000 Series

■ Flow rate/300 to 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

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

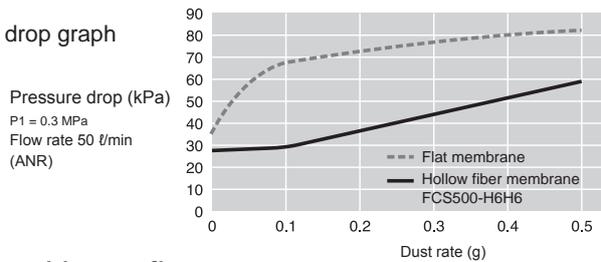
0.01 μm high precision filtration, 99.99% removal efficiency

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 with 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 room.

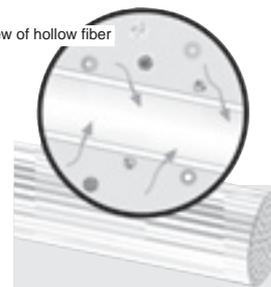
Easy maintenance

As the resin case is transparent, it is easy to visually check for dirt in 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.

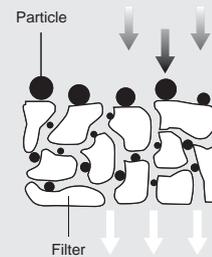
Enlarged view of hollow fiber



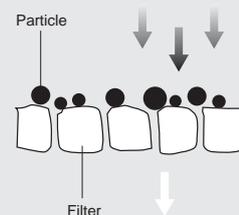
Structure of hollow fiber membrane

Hollow fiber membrane is tubular porous membrane of 3 mm or less diameter with myriad tiny holes on its wall. Particles contained in fluid are completely removed while they are passing through it. Our product uses a filter material of hollow fiber module made by bundling more than several tens of hollow fiber membranes. The filter has an extremely large membrane area enabling a large flow rate per unit volume.

■ Hollow string membrane



■ Flat membrane



Inline clean filter

FCS Series Variation

Series	Body material	Flow rate (l/min)	Port size											
			Push-in					Male thread			Female thread			
			ø 4	ø 6	ø 8	ø 10	ø 12	R1/8	R1/4	R3/8	R1/8	R1/4	R3/8	
FCS500	Resin SUS	50, 80	●	●	●	●	●	●	●	●	●	●	●	
FCS1000	Resin SUS	300 to 400			●	●	●	●	●	●	●	●	●	

Read Safety Precautions to ensure correct, safe product use.