

Optional products

Discrete option model No. method

FSM3 - **K** - **P70**
A Option

B Clean-room specifications

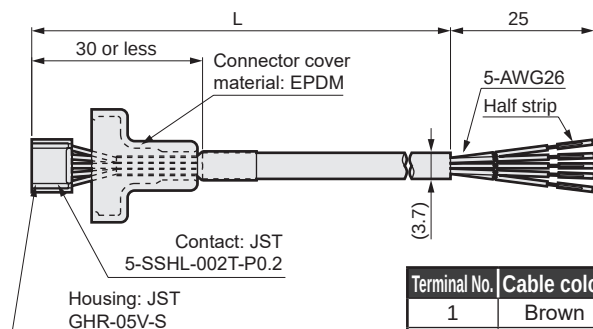
Code	Description
A Option	
A	5-conductor lead wire 1 m (for LCD display)
B	5-conductor lead wire 3 m (for LCD display)
C	4-conductor lead wire 1 m (for bar display)
D	4-conductor lead wire 3 m (for bar display)
G	M12 both-end lead wire with connector (3 m) (for IO-Link)
H	Bracket 1 (for models with a flow rate range below 200 L/min)
J	Bracket 2 (for models with a flow rate range of 500 L/min or 1000 L/min)
K	Panel mounting kit 1 (for sensor unit models with a flow rate range below 200 L/min)
L	Panel mounting kit 2 (for needle valve integrated models with a flow rate range below 200 L/min)
M	DIN rail mounting kit (for models with a flow rate range below 200 L/min)
B Clean-room specifications	
Blank	None
P70	Anti-dust generation (FSM3-G-P70 cannot be selected.)

Lead wire dimensions

● FSM3-A, B

● FSM3-A, B

5-conductor lead wire (for LCD display, for separated display)

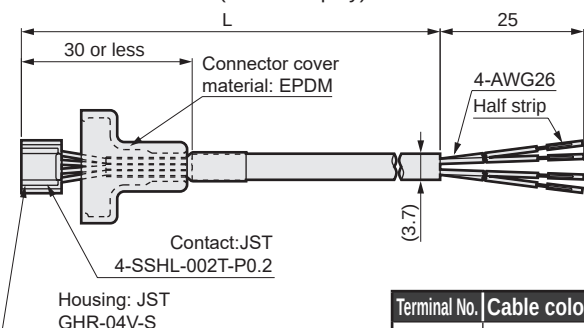


Model No.	L dimensions	Weight g
FSM3-A	1040 ± 20	21
FSM3-B	3040 ± 20	57

Terminal No.	Cable color
1	Brown
2	Black
3	White
4	Gray
5	Blue

● FSM3-C, D

4-conductor lead wire (for bar display)

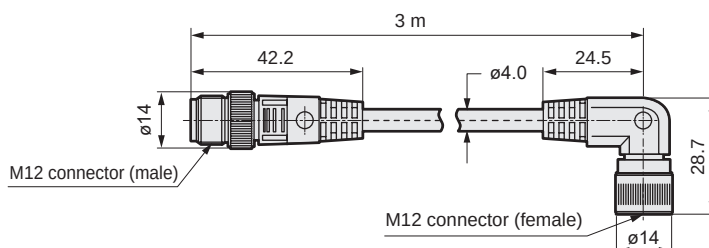


Model No.	L dimensions	Weight g
FSM3-C	1040 ± 20	19
FSM3-D	3040 ± 20	52

Terminal No.	Cable color
1	Brown
2	Black
3	White
4	Blue

● FSM3-G

(M12 both-end lead wire with connector)



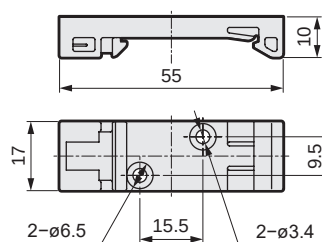
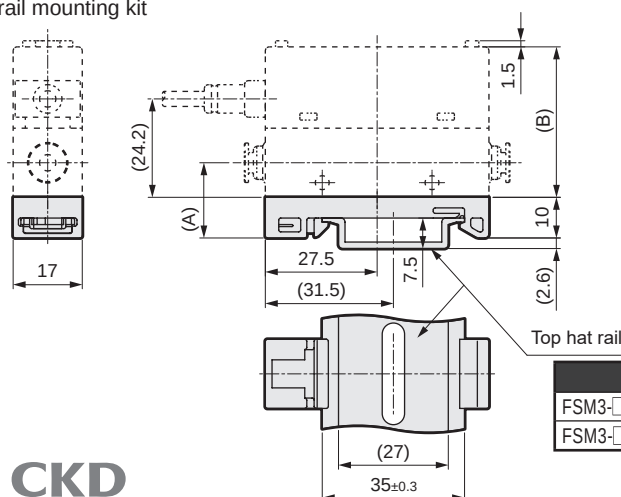
Weight: 106 g

Terminal No.	Cable color
1	Brown
2	White
3	Blue
4	Black

Dimensions with options

● FSM3-M

DIN rail mounting kit



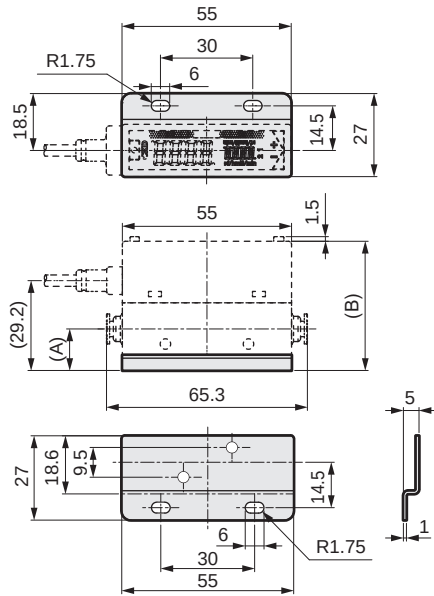
Weight: 7 g

Model No.	Dimension (A)	Dimension (B)
FSM3-□□□□/BH1/CH1/HH1/AA1/AF1/AB1/AC1/AD1/AE1	18.5	37
FSM3-□□□□/DH1/EH1/JH1/BA1/BF1/BB1/BC1/BD1/BE1	23.0	43

Dimensions with options

● FSM3-H

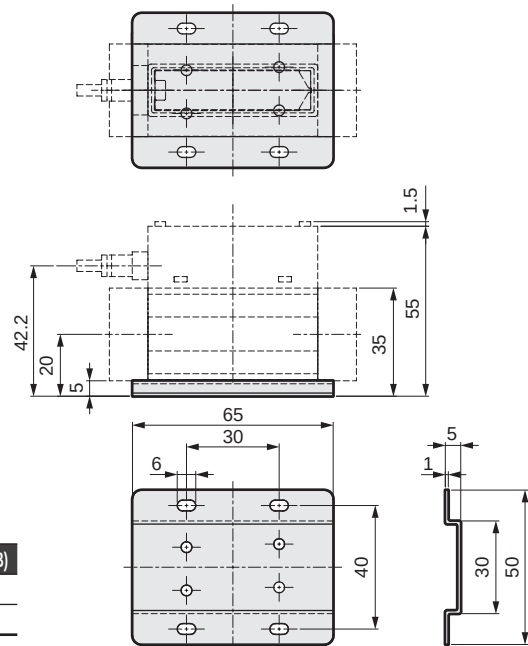
Bracket 1 (for models 200 L or less) Weight: 13 g



Model No.	Dimension (A)	Dimension (B)
FSM3-□□□□/BH1/CH1/HH1/AA1/AF1/AB1/AC1/AD1/AE1	13.5	47
FSM3-□□□□/DH1/EH1/JH1/BA1/BF1/BB1/BC1/BD1/BE1	18.0	48

● FSM3-J

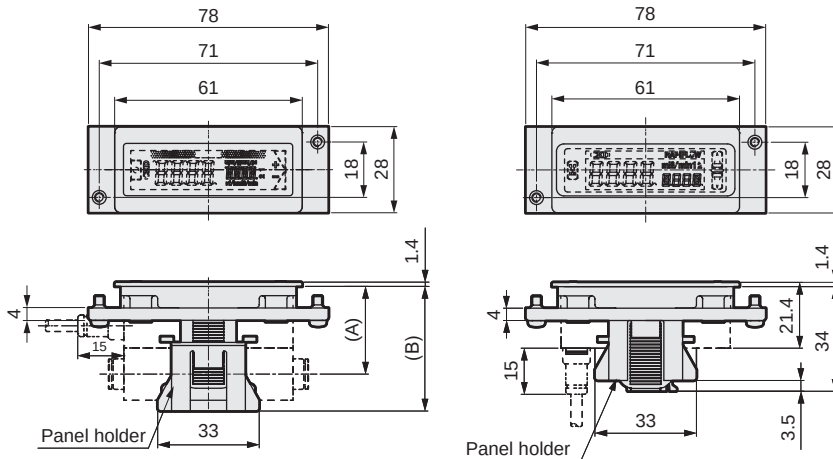
Bracket 2 (for models 500 or 1000 L) Weight: 28 g



● FSM3-K

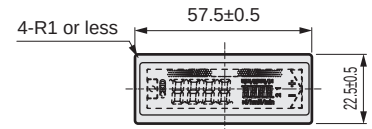
Panel mounting kit 1 (for LCD display, separated display) Weight: 21 g

- LCD display
- Separated display

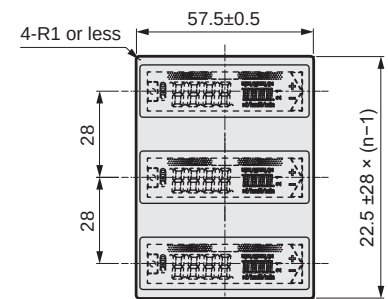


[Panel cut dimension]

In case of single installation



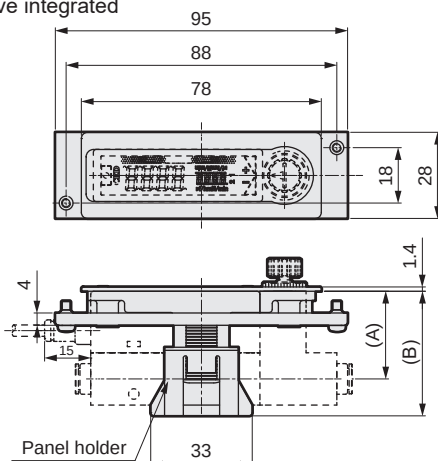
For continuous installation



● FSM3-L

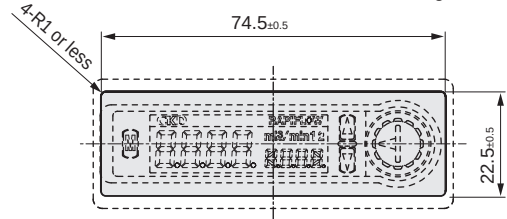
Panel mounting kit 2 (for needle valve integrated) Weight: 24 g

- Needle valve integrated



[Panel cut dimension]

In case of single installation



Model No.	Dimension (A)	Dimension (B)
FSM3-□□□□1/BH2/CH2/HH2/AA2/AB2/AC2/□□□□/N/T	28.5	40.5
FSM3-□□□□1/DH2/EH2/JH2/BA2/BB2/BC2/□□□□/N/T	30	46.5



Pilot operated 2-port solenoid valve for compressed air

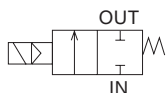
EXA Series screw-in connection body

- NC (normally closed)
- Port size: Rc1/4, 3/8



JIS symbol

- NC (normally closed)



How to order

EXA - 02 - 1 2C - 3

Model No.

A Port size

B Sealant/pilot operated combination

C Coil option

D Voltage

Code	Description
A Port size	
02	Rc1/4
03	Rc3/8
B Sealant/pilot operated combination	
0	H-NBR, internal exhaust specifications
1	H-NBR, external exhaust specifications*1
C Coil option *2	
2C	Standard Lead wire (without surge suppressor)
D Voltage *2	
1	100 VAC
3	24 VDC
4	12 VDC

*1: Check the pressure specifications.

*2: Please contact us for support with G threads and NPT threads.

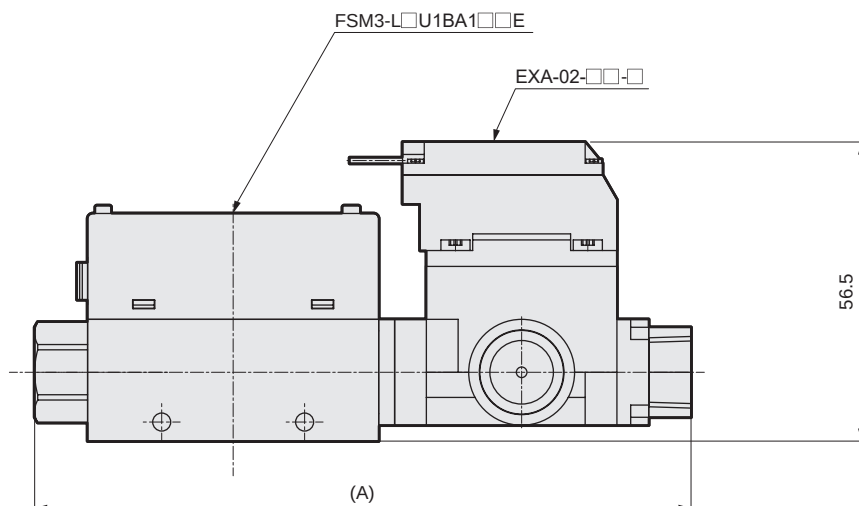
* For the connection method of FSM3, check the FSM3 instruction manual.

[Example of model No.]

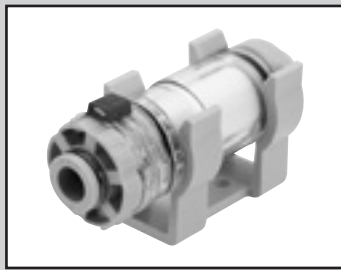
EXA-02-12C-3

- A** Port size : Rc1/4
- B** Sealant/pilot operated combination : H-NBR/external exhaust specifications
- C** Coil option : Lead wire (without surge suppressor)
- D** Voltage : DC24V

FSM3 connection dimensions



Configuration	Dimension (A)
FSM3+EXA-02	124
FSM3+EXA-03	130



Inline filter

FSL Series

● Port size: ø4 to ø10

JIS symbol



RoHS

Specifications

Item	FSL100		FSL200		FSL500		
Port size mm	ø4	ø6	ø4	ø6	ø6	ø8	ø10
Working fluid	Air						
Operating ambient temperature range °C	0 to 50 (no freezing)						
Max. working pressure MPa	0.8 (*1)						
Vacuum working pressure kPa	-100						
Proof pressure MPa	1.2						
Nominal filtration rating µm	10 (Collection efficiency 95%)						
Filtration area cm ²	4.7		7.5		12.7		
Recommended processing flow rate (*2) L/min (ANR)	10		15	20	25	50	60
Weight g	8	8.5	20.5	21.5	34.5	33.5	39

*1: The max. working pressure is the value at 20°C.

When using in other temperature ranges, refer to the "Relation of working temperature and max. working pressure" on the FSL Series page of "Pneumatic, Vacuum and Auxiliary Components (catalog No. CB-024SA)".

*2: Initial flow rate at initial pressure loss 3 kPa or less under negative pressure.

How to order

FSL 500 - 1010 - B

● Series ● Optional parts

● Vacuum side port size
- Pad side port size

Code	Description
A Series	
100	FSL100 Series
200	FSL200 Series
500	FSL500 Series
B Vacuum side port size - Pad side port size	
44	Push-in fitting ø4 - Push-in fitting ø4
66	Push-in fitting ø6 - Push-in fitting ø6
88	Push-in fitting ø8 - Push-in fitting ø8
1010	Push-in fitting ø10 - Push-in fitting ø10
C Optional parts	
Blank	None
B	Bracket

◆ Series port size combination table

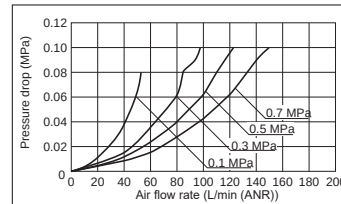
Port size Model No.	44	66	88	1010
FSL100	●	●		
FSL200	●	●		
FSL500		●	●	●

indicates not available.

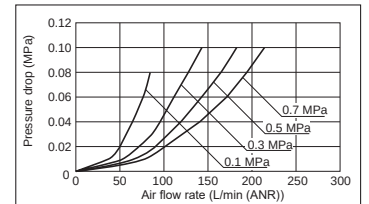
Flow characteristics

* The flow characteristics graph gives reference values and does not guarantee the values.

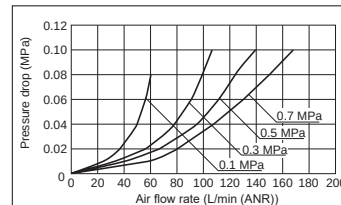
● FSL100-44



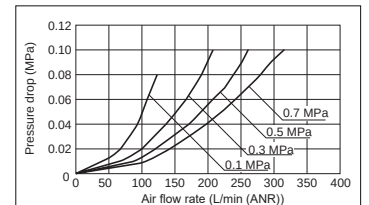
● FSL100-66



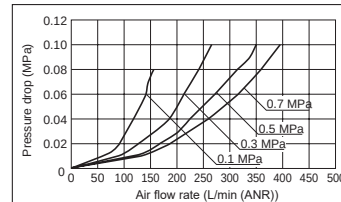
● FSL200-44



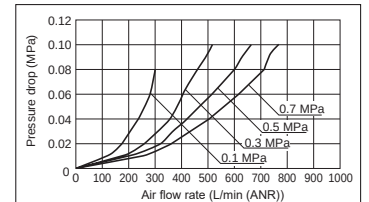
● FSL200-66



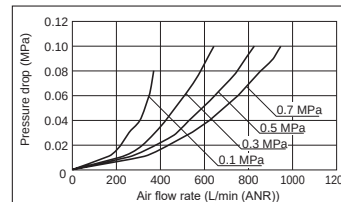
● FSL500-66



● FSL500-88



● FSL500-1010



CKD



Inline clean filter Stainless steel

FCS500 Series

● Port size: Rc1/8, Rc1/4

JIS symbol



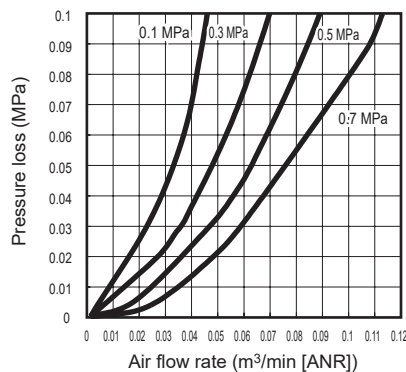
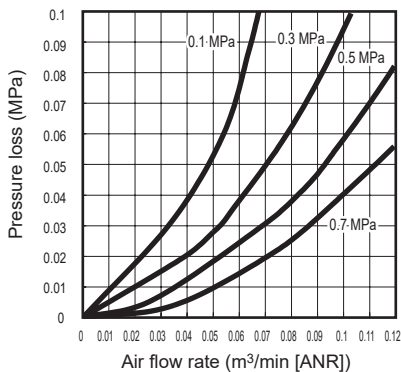
Specifications

Item		FCS500-66-P90 FCS500-66-P94	FCS500-88-P90 FCS500-88-P94
Working fluid		Compressed air, N ₂	
IN side bore size (*1)		Rc1/8	Rc1/4
OUT side bore size (*2)		Rc1/8	Rc1/4
Proof pressure	MPa	2.25 (Compressed air), 1.5 (N ₂)	
Differential pressure-resistant	MPa	0.5	
Working pressure	MPa	-0.095 to 1.5 (Compressed air), -0.095 to 0.99 (N ₂)	
Ambient/fluid temperatures	°C	5 to 45	
Filtration	μm	0.01 (removal efficiency 99.99%)	
Processing flow rate	L/min (ANR) *1	50	80
Weight	g	100	100
Material	Body	Stainless steel	
	Case	Stainless steel	
	Element	Polypropylene + urethane	
Assembling/inspection/packaging		Integrated production in cleanroom	
Cleaning		Degreasing	

*1: Initial flow rate at primary pressure 0.7 MPa and pressure drop 0.03 MPa.

*2: Maximum working pressure varies with working temperature. Check graphs showing the relationship of working temperature and maximum working pressure.

Flow characteristics



How to order

FCS500 - 88 - B - P90

Model No.
(clean-room
specifications)
(oil-prohibited
specifications)

A Port size

B Optional parts
(not assembled)

C Clean-room
specifications

A Port size

66	IN side/OUT side port size Rc1/8
88	IN side/OUT side port size Rc1/4

B Optional parts (not assembled)

Blank	None
B	Bracket, mounting screw

C Clean-room specifications

	Structure/treatment	Material limitations
P90	Stainless steel Oil free	—
P94	Stainless steel Oil free	Use of copper-, silicon-, or halogen-based materials (e.g. fluorine, chlorine, or bromine) is not possible

Note: "P94" is a made-to-order product.



Inline clean filter

FCS1000 Series

- Port size: Rc1/4, Rc3/8, R1/4, R3/8
Push-in fitting ø8, ø10, ø12

JIS symbol



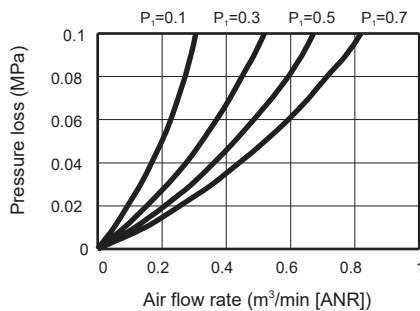
Specifications

Item		Stainless steel (custom order)	
		FCS1000-(*1) (*2)-P90 FCS1000-(*1) (*2)-P94	
Working fluid		Compressed air, N2	
IN side bore size (*1)		Select from Rc1/4 and Rc3/8	
OUT side bore size (*2)			
Proof pressure	MPa	2.25 (Compressed air), 1.5 (N2)	
Differential pressure-resistant	MPa	0.5	
Working pressure	MPa	−0.095 to 1.5 (Compressed air), −0.095 to 0.99 (N2)	
Ambient/fluid temperatures	°C	5 to 45	
Filtration	μm	0.01 (removal efficiency 99.99%)	
Processing flow rate	L/min (ANR)	300 to 400 *1	
Weight	kg	0.5	
Material	Body	Stainless steel	
	Case	Stainless steel	
	Element	Polypropylene + urethane	
Assembling/inspection/packaging		Integrated production in cleanroom	
Cleaning		Degreasing	

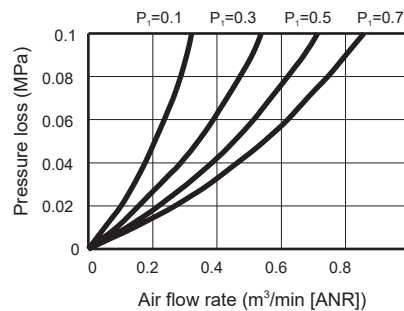
*1: Initial flow rate at primary pressure 0.7 MPa and pressure drop 0.03 MPa. (Differs according to port size.)

Flow characteristics

- FCS1000-88
- FCS1000-88-P90-P94



- FCS1000-1010
- FCS1000-1010-P90-P94



How to order

- Stainless steel (custom order)

FCS1000 - 8 8 - P90

Model No.
(clean-room
specifications)
(oil-prohibited
specifications)

A IN side
Port size

B OUT side
Port size

C Clean-room
specifications

A IN side port size

8	Rc1/4
10	Rc3/8

B OUT side port size

8	Rc1/4
10	Rc3/8

C Clean-room specifications

	Structure/treatment	Material limitations
P90	Stainless steel material used Oil free	-
P94	Stainless steel material used Oil free	Use of copper-, silicon-, or halogen-based materials (e.g. fluorine, chlorine, or bromine) is not possible