

In-line Air Filter

Easily maintained Filters for both positive and negative in-line pressure

Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)



(1) In-line Air Filter

(2) Filter size

Code	1	2	3
Filter area (cm ²)	4.7	7.5	12.7

(3) IN & Out Tube dia. (øD)

	mm size (mm)				inch size (inch)			
Code	44	66	88	1010	5/32-5/32	1/4-1/4	5/16-5/16	3/8
Tube O.D.	ø4	ø6	ø8	ø10	ø5/32	ø1/4	ø5/16	ø3/8

*1 Code: 44 and 5/32-5/32 can be selected for Filter size code 1 and 2.

*2. Code: 88, 1010, 5/16-5/16 and 3/8-3/8 can be selected for Filter size 3.

(4) Holder option

Code	No code	-NH
Holder option	With holder	Without holder

(5) Material option (-S3 spec.)

Code	No code	-S3
Metal material	Standard	No copper-based metallic materials used in flow paths.
Seal rubber material	Standard	HNBR or FKM
Release-ring color	Light-gray	Dark blue

* Contact us for -S3 spec. of inch tube size.

Characteristics

- Usable with both positive and negative pressure
- Best suitable for the applications in positive pressure where filtration accuracy is not required.

Use as pre-filtering application for positive pressure.

Easy maintenance.

The element is replaced easily without using tools.

-S3 Material option

- No copper-based metallic materials used in flow paths.
- The sealing rubber material of the fitting is HNBR or FKM, with good ozone resistance.

Specifications

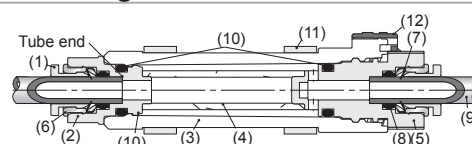
Type	SFU1	SFU2	SFU3
Fluid medium	Air		
Max. operating pressure	1.0 MPa (at 20°C) *1		
Max. vacuum	-100 kPa		
Pressure resistance	1.5 MPa		
Filtrating accuracy *2	5 µm (Trapping efficiency: 95%)		
Operating temp. range	0 to 50°C (No freezing)		
Filter area	4.7 cm ²	7.5 cm ²	12.7 cm ²

△ Warning

*1. The Max. pressure is the value at 20°C. Please refer to the Relation of operating temperature and max. operating pressure chart for the use in other temperature range.

⊕ Notes *2. Based on PISCO measuring condition.

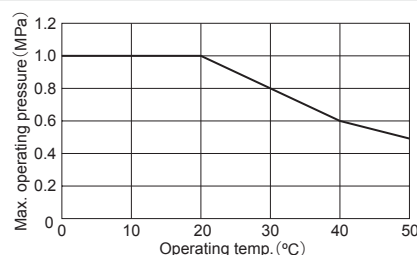
Sectional drawing



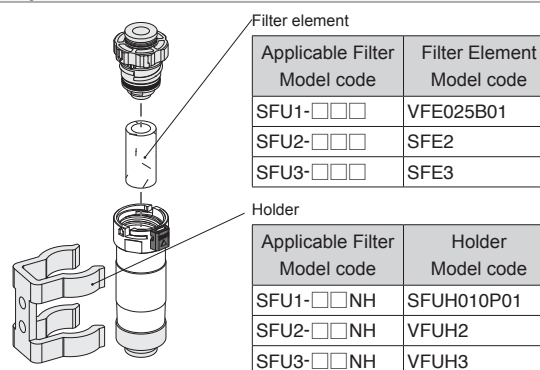
No.	Parts	Material	
		Standard specification	-S3Material option
(1)	Release-ring	POM (Color: Light-gray)	POM (Color: Dark blue)
(2)	Resin body A	PBT	
(3)	Cover	PCTG	
(4)	Element	PVF	
(5)	Resin body B	PBT	
(6)	Guide ring	Nickel-plated brass	Special stainless steel (Austenite or ferritic) *
(7)	Lock claws	Stainless steel	
(8)	Elastic sleeve	NBR	HNBR or FKM
(9)	Tube	Polyurethane, Nylon, etc	Fluororesin (PFA, FEP), etc
(10)	O-ring	NBR	HNBR or FKM
(11)	Holder	POM	
(12)	Slide Lock	POM	

* Special stainless steel of corrosion resistance equivalent to SUS303.

Relation of Operating Temp. & Max. Operating Pressure



Replacement filter element



RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code	Model code
In-line Air Filter	SFU1-44(4)5	SFU1-5/32-5/32(4)
	SFU1-66(4)5	SFU1-1/4-1/4(4)
	SFU2-44(4)5	SFU2-5/32-5/32(4)
	SFU2-66(4)5	SFU2-1/4-1/4(4)
	SFU3-66(4)5	SFU3-1/4-1/4(4)
	SFU3-88(4)5	SFU3-5/16-5/16(4)
	SFU3-1010(4)5	SFU3-3/8-3/8(4)

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag
10 pcs. /bag: Filter element

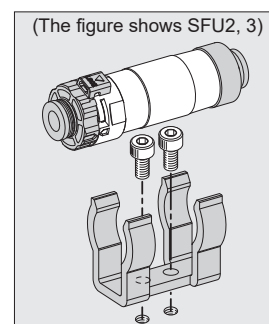
Standard options
④ : -HN ⇒ Without holder
⑤ : -S3 ⇒ -S3 spec.

How to fix

Use the fixing holes in Holder to fasten with the screws below.

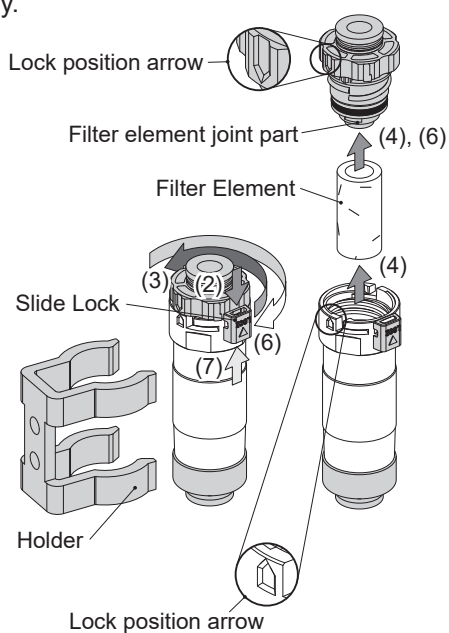
【Refer to the dimensional drawings of In-line Air Filter for the hole pitch under Type & Price List on PISCO website. (<https://www.pisco.co.jp/en/product/I/I01/>)】

Fixing screws ► SFU1: M3 machine screws, SFU2, 3: M4 screws



How to replace Filter Element

- (1) Release the residual pressure inside In-line Air Filter and make the internal pressure at the atmospheric pressure level.
- (2) Unlock the red slide lock by moving it to the opposite direction of the lock arrow mark.
- (3) Turn the fitting body 180° counterclockwise.
- (4) Remove the rotated fitting body from the filter cover and replace Filter Element.
- (5) Remove dust inside the filter cover by air blowing.
- (6) Place Filter Element on the joint part of the fitting body, insert it into the filter cover and turn it clockwise until it stops.
- (7) Make sure the lock position arrow on the fitting body and that on the filter cover meet face to face, then push up the slide lock to the arrowed direction. Make sure the fitting body is fixed on the filter cover properly.



Replacement part model code

Filter Element

In-line Air Filter Model code	Filter Element Model code
SFU1-□□-□	VFE025B01
SFU2-□□-□	SFE2
SFU3-□□-□	SFE3

Holder

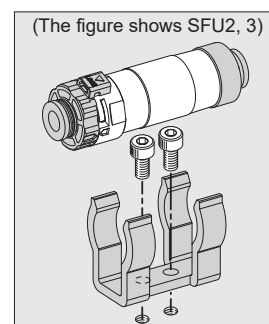
In-line Air Filter Model code	Holder Model code
SFU1-□□-□	SFUH010P01
SFU2-□□-□	VFUH2
SFU3-□□-□	VFUH3

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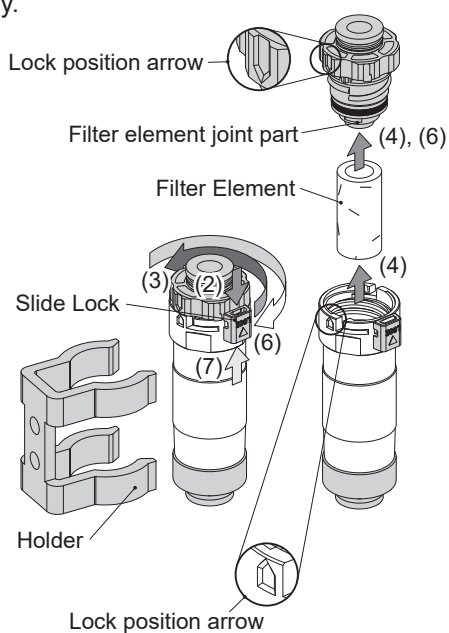
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SFU1-□□-□	VFE025B01
SFU2-□□-□	SFE2
SFU3-□□-□	SFE3

Holder

In-line Air Filter Model code	Holder Model code
SFU1-□□-□	SFUH010P01
SFU2-□□-□	VFUH2
SFU3-□□-□	VFUH3