

Series FQ1

Specifications

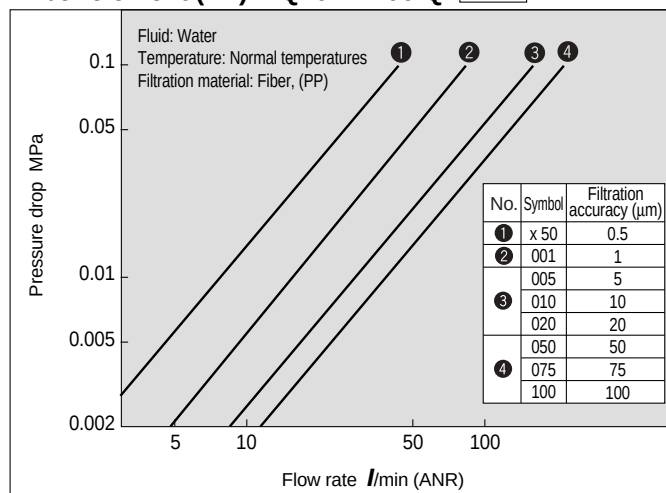


Model		FQ1010	FQ1011	FQ1012
No. of built-in elements (L: Element length in mm)		1 (L125)	1 (L250)	2 (L250 x 2)
Operating pressure		Maximum 1MPa		
Operating temperature		Maximum 80°C (Not exceeding boiling point)		
Port size Rc		1/2, 3/4	1/2, 3/4, 1	3/4, 1
Material	Housing/Seal	SUS304/NBR or FPM		
	Element (Note)	Cotton, PP, SUS304, SUS316, etc.		
Element replacement differential pressure (recommended)		Maximum 0.1MPa		
Weight kg		Approx. 1.5	Approx. 1.9	Approx. 2.7

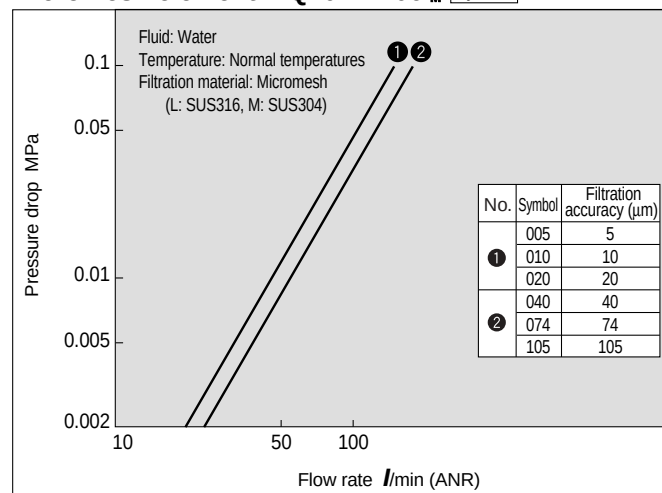
Note) For FQ1010, only micromesh elements and PP depth elements are used.

Flow Characteristics

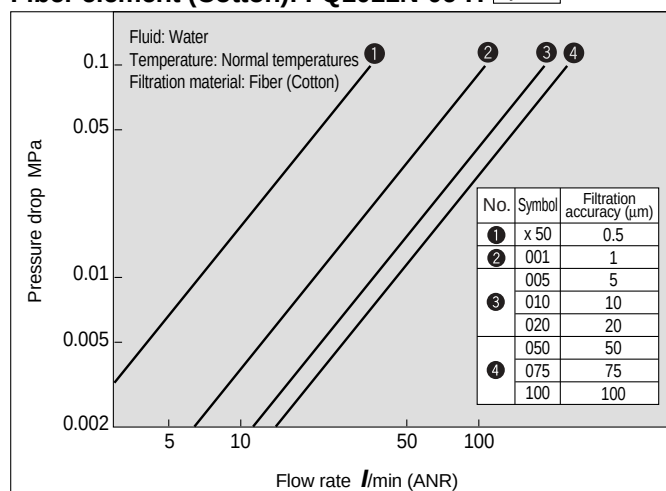
Fiber element (PP): FQ1011N-06-Q Symbol



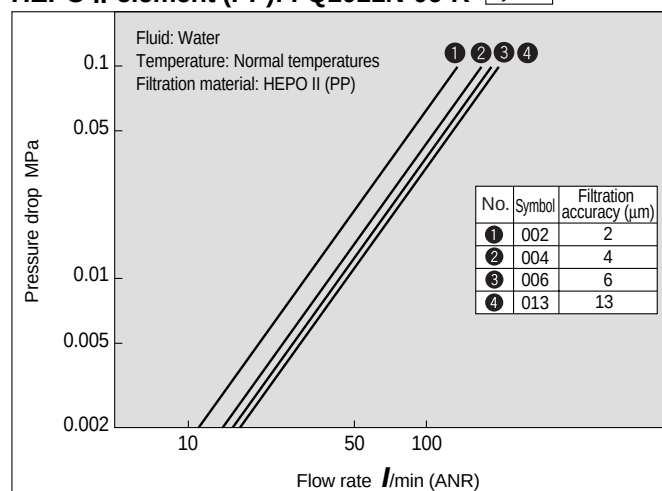
Micromesh element: FQ1011N-06-M Symbol



Fiber element (Cotton): FQ1011N-06-H Symbol



HEPO II element (PP): FQ1011N-06-R Symbol



Note) The recommended flow rate is the rate for an initial pressure drop of 0.01 to 0.02 MPa.

Series FQ1

How to Order Filters

<Applicable element dimensions: $\phi 65 \times 125\text{mm}$ >

FQ1 0 1 0 N 04 M005N B

Model symbol (In-line filters)

Element size 125mm

Element type
Select from tables on the right.

Bore size

04	Rc 1/2
06	Rc 3/4

Housing O-ring material

N	NBR
V	FPM

Element sealing method

1	Flat gasket (D.O.E)
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Housing material

Symbol	Cover	Case
0	SUS304	SUS304

Options

Nil	N/A
B	Bracket
P*	Quick plug

* A square plug set is normally used for the drain unit.

<Applicable element dimensions: $\phi 65 \times 250\text{mm}$ >

FQ1 0 1 1 N 06 Q005 B

Model symbol (In-line filters)

Element size 250mm

Element type
Select from tables on the right.

Bore size

04	Rc 1/2
06	Rc 3/4
10	Rc 1

Housing O-ring material

N	NBR
V	FPM

Element sealing method

1	Flat gasket (D.O.E)
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Housing material

Symbol	Cover	Case
0	SUS304	SUS304

Options

Nil	N/A
B	Bracket
P*	Quick plug

* A square plug set is normally used for the drain unit.

<Applicable element dimensions: $\phi 65 \times 250\text{mm}$ (2 pcs.)>

FQ1 0 1 2 N 10 Q005 B

Model symbol (In-line filters)

Element size 500mm (250mm x 2)

Element type
Select from tables on the right.

Bore size

06	Rc 3/4
10	Rc 1

Housing O-ring material

N	NBR
V	FPM

Element sealing method

1	Flat gasket (D.O.E)
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Housing material

Symbol	Cover	Case
0	SUS304	SUS304

Options

Nil	N/A
B	Bracket
P*	Quick plug

* A square plug set is normally used for the drain unit.

Element and Seal Part Numbers

1. Fiber element (PP)

Dimensions	Element symbol	Filtration accuracy (μm)	Part number
$\phi 65 \times 250\text{mm}$	QX50	0.5	EHM10AX3
	Q001	1	EHM39R10AYX3
	Q005	5	EHM23R10AYX3
	Q010	10	EHM19R10AYX3
	Q020	20	EHM15R10AX3
	Q050	50	EHM11R10AX3
	Q075	75	EHM10R10AX3
	Q100	100	EHM8R10AX3

2. Fiber element (Cotton)

Dimensions	Element symbol	Filtration accuracy (μm)	Part number
$\phi 65 \times 250\text{mm}$	HX50	0.5	EH10G
	H001	1	EH39R10GV
	H005	5	EH23R10GV
	H010	10	EH19R10GV
	H020	20	EH15R10G
	H050	50	EH11R10G
	H075	75	EH10R10G
	H100	100	EH8R10G

3. Micromesh element (SUS304) Bonding material: Epoxy resin

Dimensions	Element symbol	Filtration accuracy (μm)	Part number
$\phi 65 \times 250\text{mm}$	M005□	5	EM100-005□
	M010□	10	EM100-010□
	M020□	20	EM100-020□
	M040□	40	EM100-040□
	M074□	74	EM100-074□
	M105□	105	EM100-105□
$\phi 65 \times 125\text{mm}$	M005□	5	EM200-005□ x 4
	M010□	10	EM200-010□ x 4
	M020□	20	EM200-020□ x 4
	M040□	40	EM200-040□ x 4
	M074□	74	EM200-074□ x 4
	M105□	105	EM200-105□ x 4

(Note) Specify seal material in place of "□" (N for NBR or V for FPM).

4. Micromesh element (SUS316) Bonding material: Nickel solder

Dimensions	Element symbol	Filtration accuracy (μm)	Part number
$\phi 65 \times 250\text{mm}$	L005□	5	EM500-005□
	L010□	10	EM500-010□
	L020□	20	EM500-020□
	L040□	40	EM500-040□
	L074□	74	EM500-074□
	L105□	105	EM500-105□
$\phi 65 \times 125\text{mm}$	L005□	5	EM600-005□ x 4
	L010□	10	EM600-010□ x 4
	L020□	20	EM600-020□ x 4
	L040□	40	EM600-040□ x 4
	L074□	74	EM600-074□ x 4
	L105□	105	EM600-105□ x 4

(Note) Specify seal material in place of "□" (N for NBR or V for FPM).

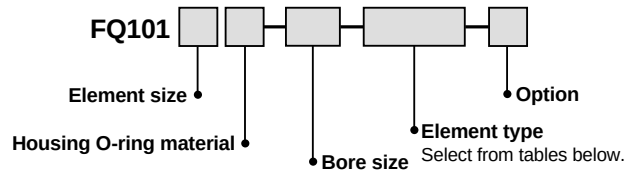


Elements other than 1 to 4 listed above are also available.
Refer to "Made to Order" elements on pages 7 and 8 for details.

Series FQ1 Made to Order

Consult SMC for detailed dimensions, specifications and lead times.

5 Nonstandard Elements for Precision Cleaning



HEPO II element "Series EJ101S"



- Material: PET
- Optimal for high precision filtration (99% or more) of a wide range of fluids
- Dimensions: $\varnothing 70 \times L250$ (EJ101S)

Recommended flow rate

Absolute filtration accuracy (μm)	Recommended flow rate (l/min)*
2	20
4	
6	
13	

- * Pressure loss: 0.01 to 0.02MPa
- Operating temperature: 0 to 80°C
- Differential pressure resistance: 0.5MPa/25°C

Element and seal part numbers

Dimensions	Element symbol	Filtration accuracy (μm)	Element part number
$\varnothing 70 \times 250$	J002□	2	EJ101S-002□
	J004□	4	EJ101S-004□
	J006□	6	EJ101S-006□
	J013□	13	EJ101S-013□

Note) Specify seal material in place of "□" (N for NBR or V for FPM).
The suffix of the filter model part number is not necessary.

HEPO II element "Series EJ102S ... Series X0"



- All parts of this element are made of polypropylene, which is optimal for various cleaning solvents including alkali and organic solvents.
- Nearly fiber separation or release of chemicals, since fibers themselves are directly fused and no adhesives are used.
- Pressure loss is low and relatively long service life is provided due to a larger filtration area
- Dimensions: $\varnothing 70 \times L250$

Recommended flow rate

Absolute filtration accuracy (μm)	Recommended flow rate (l/min)
2	20
4	
6	
13	

- Operating temperature: 0 to 80°C
- Differential pressure resistance: 0.5MPa

Element and seal part numbers

Dimensions	Element symbol	Filtration accuracy (μm)	Element part number
$\varnothing 70 \times 250$	R002□	2	EJ102S-002□X0
	R004□	4	EJ102S-004□X0
	R006□	6	EJ102S-006□X0
	R013□	13	EJ102S-013□X0

Note) Specify seal material in place of "□" (N for NBR or V for FPM).