Standard Elements
Sintered Metal / Fiber (Honeycomb)

Sintered Metal Filter Elements

- **Outstanding mechanical strength, heat resistance and chemical resistance.**
- **Formed by sintering finely powdered metal, so a high filtration accuracy can be obtained.**
- **Even if clogging progresses, the element can be reused by cleaning.**
- **Main applications**

  Ideal as a check filter for keeping fluid clean. All types of gases, fluids, general solvents and high-temperature fluids

Specifications

Material		Bronze	Stainless steel 316
Operating temperature (C°) Note 2)		–180 to 200	–180 to 300
Nominal filtration accuracy (μm)		1, 2, 5, 10, 20, 40, 70, 100, 120	
Max. differential pressure resistance		0.7 MPa	
Element replacement differential pressure		0.1 MPa	
Chemical resistance	Acid	Cannot be used.	Can be used. Note 1)
	Alkali	Can be used depending on conditions.	Can be used.
Element category of How to Order Note 3)		B	S

Note 1) Cannot be used with hydrochloric acid, hydrofluoric acid or phosphoric acid.
Note 2) Varies depending on the seal material used.
Note 3) Refer to "Element category" of "How to Order Industrial Filters" for each series.

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How to Order Standard Elements for SMC Filters

∗ Not applicable for EB (bronze). Please consult with SMC.

E B 200 – 005 N

Element symbol

Element material

Symbol	Element material
B	Bronze
S	Stainless steel 316

Element size

Symbol	Element size
100	ø65 x ℓ250
200	ø65 x ℓ500
300	ø65 x ℓ750
400	ø65 x ℓ1000

Element seal material

Symbol	Element seal material
A Note)	Non-asbestos
T	Fluororesin
N	NBR
V	FKM

Note) Not possible with bronze elements.

Nominal filtration accuracy (μm)

Symbol	Nominal filtration accuracy (μm)
001	1
002	2
005	5
010	10
020	20
040	40
070	70
100	100
120	120

Fiber Elements (Honeycomb)

- **Four types of materials with different characteristics are available so the filters are applicable to any application.**
- **Elements are economical because particle capturing capacity is excellent, and element life is long.**
- **Elements are disposable so maintenance and replacement are easy.**
- **Main applications**

Cotton	Cleaning water, General neutral fluids, General solvents, Dry air
Polypropylene	Plating fluids, General acids, Alkali fluids, Industrial water, Cooling water
Glass fiber	Acid fluids, High-temperature fluids

Specifications

Material	Core material	Operating temperature (°C)	Nominal filtration accuracy (μm)	Differential pressure resistance (Max.)	Element replacement differential pressure
Cotton	Stainless steel 304	–20 to 100	0.5, 1, 5, 10, 20, 50, 75, 100	0.2 MPa	0.1 MPa
Polypropylene	Polypropylene	0 to 60	0.5, 1, 5, 10, 20, 50, 75, 100		
Glass fiber	Stainless steel 316	0 to 400	1, 5, 10, 20		

Note) Size for all is ø65 x ℓ250.

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How to Order Standard Elements for SMC Filters

Element material		Cotton	Polypropylene	Glass fiber
Core material		Stainless steel 304	Polypropylene	Stainless steel 316
Nominal filtration accuracy (μm)	0.5	**EH10G**	**EHM10A**	—
	1	**EH39R10GV**	**EHM39R10AY**	**EHK27R10S**
	5	**EH23R10GV**	**EHM23R10AY**	**EHK19R10S**
	10	**EH19R10GV**	**EHM19R10AY**	**EHK15R10S**
	20	**EH15R10G**	**EHM15R10A**	**EHK10R10S**
	50	**EH11R10G**	**EHM11R10A**	—
	75	**EH10R10G**	**EHM10R10A**	—
	100	**EH8R10G**	**EHM8R10A**	—
Element category of How to Order Note)		H	T	G

Note) Refer to "Element category" of "How to Order Industrial Filters" for each series.