



FE A

FILTER ELEMENT FOR DF 4.222/212

DESCRIPTION

Replacement filter elements for double changeover filter DF 4.222 (DN 25/40/50) and series 4.212 (DN 25).

APPLICATION

Filtration of hydraulic fluids, lubricants, industrial fluids, gases and water.

DESIGN

Star-pleated special filter material, longitudinally microplasma-welded with inner support tube. End caps glued. Sealing takes place via O-ring.

MATERIALS

End caps: Galvanised sheet steel (others on request)

Filter material:

- optimesh® wire mesh (10-100 µm) made of stainless steel 1.4401
- precimesh® wire mesh (< 10 µm; > 100 µm) made of stainless steel 1.4401
- optional: Glass fiber paper; filter paper; metal fiber fleece (stainless steel 1.4404)

Seals: NBR Nitrile (FKM Fluor elastomer and other materials on request)

Sealing compound: 2K epoxy resin; other options available on request.

PRESSURE

Max working pressure 16 bar.

FLOW RATE

From 65 to 360 l/min depending on DN (nominal connection width size)

WORKING TEMPERATURE

From -10° to +120° C

ISO COMPITABILITY

DIN ISO 2941	Fluid technology hydraulic filter elements, collapse and burst pressure test.
DIN ISO 2942	Fluid technology filter elements, verification of flawless manufacturing quality.
DIN ISO 2943	Fluid technology hydraulic filter elements, verification of compatibility with the pressure fluid.
DIN ISO 3723	Fluid technology hydraulic filter elements, procedure for testing the end cap load.
ISO 3968	Hydraulic fluid power-filters-evaluation of pressure drop versus flow characteristics.



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ORDERING AND OPTION CHART

Type code (ordering example) - The type code is found on the element head.

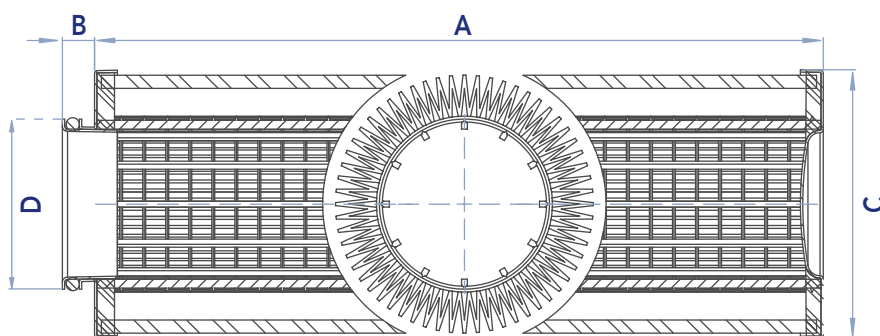
FE A	40	060	L2	B1	V	
						Sealing material
						P NBR (Standard)
						V FPM
						Other materials on request
						Filter area
						Bx See table on page 2
						Others on request
						Length code
						L2 Standard length all sizes (cast Al filter hoods)
						L3 Length for DN 25 (cast Al filter hoods)
						Other lengths on request (welded filter hoods)
						Filter fineness/medium
						005 optimesh® wire mesh 5µm nominal, 10µm absolute
						010 optimesh® wire mesh 10µm nominal, 25µm absolute
						015 optimesh® wire mesh 15µm nominal, 34µm absolute
						020 optimesh® wire mesh 20µm nominal, 40µm absolute
						025 optimesh® wire mesh 25µm nominal, 60µm absolute
						040 optimesh® wire mesh 40µm nominal, 80µm absolute
						060 optimesh® wire mesh 60µm nominal, 100µm absolute
						080 precimesh® wire mesh 80µm nominal, 150µm absolute
						100 precimesh® wire mesh 100µm nominal, 200µm absolute
						120 precimesh® wire mesh 120µm nominal, 250µm absolute
						150 precimesh® wire mesh 150µm nominal, 300µm absolute
						xxx Paper, glass fibre paper
						Other fineness grades on request
						Nominal connection width/size DN [mm]
						25 / 40 / 50
						Series
						FE A Element for Double Changeover filter type 4.222

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DIMENSIONS AND TECHNICAL DATA

FLOW FROM OUTSIDE TO INSIDE



DN	Length code	A [mm]	B [mm]	C [mm]	D [mm]	Filter surface approx. [cm ²]	Collapse pressure [bar]	Weight [kg]
25	L1.B2	66,5	9,6	54,6	30	465	14	0,16
	L2.B2	140,5	9,6	54,6	30	1020	14	0,26
	L3.B2	207,5	9,6	54,6	30	1522	14	0,35
40	L2.B1	248,6	10	78,6	48	2800	22	0,75
	L2.B2	248,6	10	78,6	48	5200	22	1,10
50	L2.B1	248,6	11	91,4	58	4050	13	0,96
	L3.B1	366,0	11	91,4	58	6000	13	1,21
	L3.B2	366,0	11	91,4	58	7726	13	1,47

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MAINTENANCE

Is my filter element cleanable?

Whether a filter element can be effectively cleaned depends primarily on the type of filter material used. At FRIEDRICH'S FILTERSYSTEME, we offer a wide range of filter elements designed for the most diverse range of filtration needs, and we want to provide you with the necessary information to make the right choice and to increase the lifetime.

Standard Wire Mesh: In our standard filter elements, we use wire mesh that can be cleaned multiple times. You can find detailed information about cleaning procedures in a separate Data Sheet.

Custom Filter Media: If you've requested filter elements with different materials, such as fleece or paper, in general it is not possible to clean these, so once exhausted, they must be properly disposed of according to the relevant local regulations.

Cleaning Considerations: When cleaning is possible (as with wire mesh), the number of cleaning cycles is limited by the accumulation of insoluble contaminants in the mesh, which gradually blocks the pores. As a result, pressure loss increases over time, and cleaning intervals become shorter. The degree to which this occurs depends on the nature of the contaminants and filter media. Fibrous, viscous, and insoluble particles tend to accelerate this aging process.

Cleaning Equipment: We can provide you with information about suitable cleaning equipment to maintain the effectiveness of your filter elements. Please feel free to contact us for any additional information or support.

CAUTION: When cleaning wire mesh filter elements, the fine wire construction has to be handled with care. To ensure effective filtration, it's crucial to avoid cracking or damaging the pleats of the filter material.

At FRIEDRICH'S FILTERSYSTEME, we are committed to providing you not only with high-quality filter elements but also with the knowledge and support you need to make the most of your filtration solutions. If you have any questions or require assistance with cleaning procedures or equipment, our team is here to assist you.