

Filter elements

2-stage filter elements for fuel treatment systems **FC-001-040-xx**

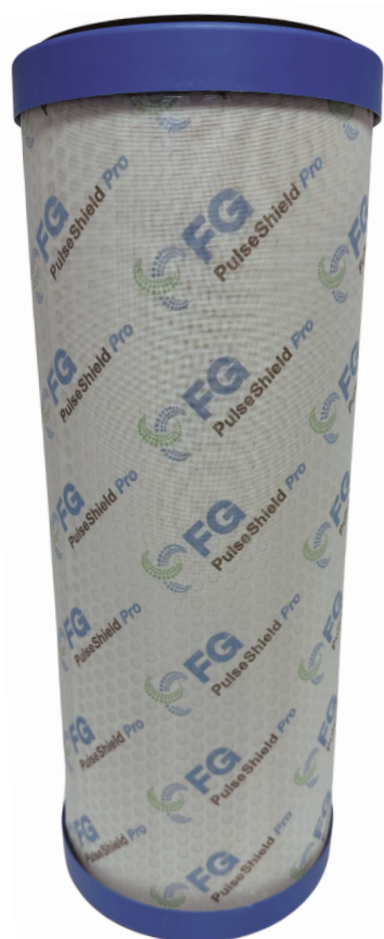
Nominal size up to 2200 l/min

1. Features

2-stage filter element for fuel treatment

The Filtration Group 2-stage filter element with the unique Premium Select element structure for an effective particle separation and a wrapped glass fibre layer for coalescing drops. These filter elements are used in the fuel treatment system KFWA 2-4.

- Filter elements with two filtration stages for the treatment of fuel of industrial engines
- Unique, multilayer Filtration Group Premium Select (PS) folding star-shape filter design made of chemically and thermally resistant materials
- Progressive structure: The degree of fineness of the glass fibre material decreases from the inside to the outside, combining the advantages of a depth filter with those of a large effective filtering surface. The result: greater dirt pick-up capacity even at lower pressure loss in conjunction with a defined discharging rate
- Supporting fibre on both sides made of high-quality stainless steel ensures the high rigidity of the folding star-shape
- Chemical resistance is guaranteed by the use of high-grade stainless steel wire mesh
- Supporting body and end plates are made of materials free of chromium VI
- Low initial differential pressure
- High differential pressure stability and dirt pick-up capacity of the elements
- Beta rated elements according to ISO 16889 or 19438 multi-pass test
- Easy to service
- Other grades of filtration on request
- Worldwide distribution



2. Separation grades

2.1 Separation grade solids

Particle separation acc. to ISO16889 or ISO 19438

2.2 Separation grade water

Water separation acc. to ISO16332 (measured at volume flow of 1500 l/h)

| Solid particles ø in µm | Medial separation grade in % | | Medial ø drop size distribution intake in µm | Medial separation grade in % |
|--|------------------------------|--|--|------------------------------|
| Fineness 10 µm FC-001-040-PS 10 | | | Fineness 10 µm FC-001-040-PS 10 | |
| 4 | ≥ 77 | | 1.500 ppm water concentration intake | |
| 6 | ≥ 94 | | 60 | ≥ 98 |
| 10 | ≥ 99 | | 300 | ≥ 98 |
| 15 | ≥ 99,9 | | 20.000 ppm water concentration intake | |
| | | | 60 | ≥ 97 |
| Fineness 19 µm FC-001-040-19 | | | Fineness 19 µm FC-001-040-19 | |
| 4 | ≥ 77 | | 1.500 ppm water concentration intake | |
| 6 | ≥ 76 | | 60 | ≥ 99 |
| 10 | ≥ 90 | | 300 | ≥ 99 |
| 19 | ≥ 99,7 | | 20.000 ppm water concentration intake | |
| | | | 60 | ≥ 96 |

3. Quality assurance

Filtration Group filters and filter elements are manufactured and/or tested in compliance with the following international standards:

| Standard | Title |
|--------------|---|
| DIN ISO 2941 | Hydraulic fluid power; filter elements; verification of collapse/burst resistance |
| DIN ISO 2942 | Hydraulic fluid power; filter elements; verification of fabrication integrity |
| DIN ISO 2943 | Hydraulic fluid power; filter elements; verification of material compatibility with fluids |
| DIN ISO 3723 | Hydraulic fluid power; filter elements; method for end load test |
| DIN ISO 3724 | Hydraulic fluid power; filter elements; determination of resistance to flow fatigue |
| ISO 3968 | Hydraulic fluid power-filters-evaluation of pressure drop versus flow characteristics |
| ISO 10771.1 | Fatigue pressure testing of metal containing envelopes in hydraulic fluid applications |
| ISO 16332 | Diesel engines – Fuel filters – Method for evaluating fuel/water separation efficiency |
| ISO 16889 | Hydraulic fluid power filters-multipass method for evaluation filtration performance of a filter element |
| ISO 19438 | Diesel fuel and petrol filters for internal combustion engines – Filtration efficiency using particle counting and contaminant retention capacity |

4. Order numbers

| Order number | Designation |
|--------------|---|
| 72360943 | FC-001-040-PS 10 |
| 72403280 | FC-001-040-19 |
| 72360945 | FC-001-040-06 (optionally for superior fuel systems – technical details on request) |

5. Technical data

| | |
|----------------------------------|--------------------------------|
| Design: | element for use in KFWA 2-4 |
| Element design: | Pleated (star-pleated) |
| Filter media: | PS 10 |
| Direction of flow: | from the inside to the outside |
| End plates and supporting tubes: | free of chromium VI |
| max. flow rate: | 2200 l/h |
| max. differential pressure: | 5 bar |
| Operating temperature range: | +2 °C to +45 °C |
| Seals: | FKM (fluororubber) |

Permitted operating fluid (media):

Diesel Fuel EN590, ASTM D975 1D&2D, BS2869

Heizöl EL nach DIN 51603 Teil 1

Diesel Fuel with particular low sulfur (15 ppm

Marine Diesel Fuel (DMF) or Marine Gas Oil (MGO):

DMX, DMA, DMZ, DMC acc. to ISO 8217

Bundeswehr Nato Fuel F75 acc. to TL-9140-0003, 8

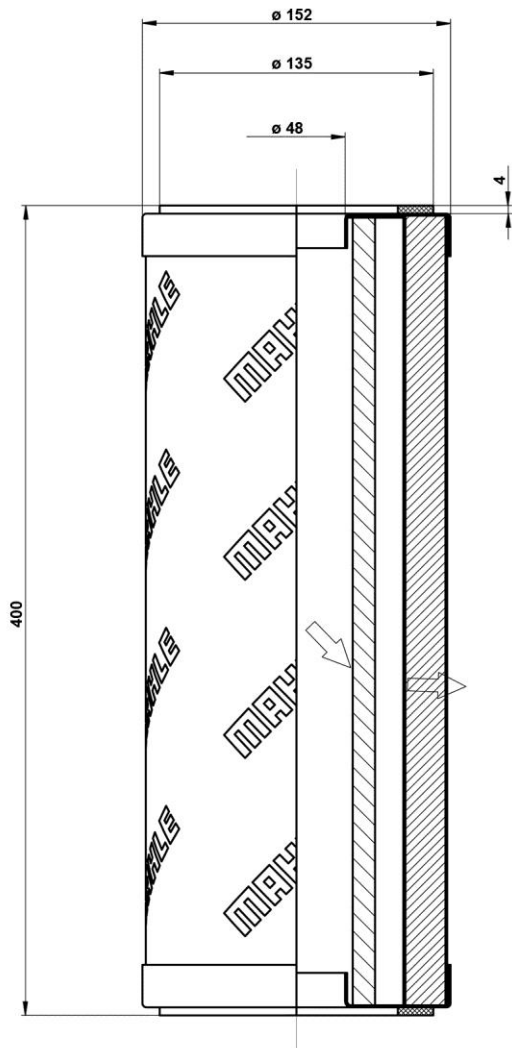
Bundeswehr Nato Fuel F76 acc. to DEFSTAN 91-4, 7

We draw attention to the fact that all values indicated are average values and do not always occur in specific cases of application. Our products are continually being further developed. Values, dimensions and weights can change as a result of this. Our specialized department will be pleased to offer you advice.

We recommend you to contact us concerning applications of our filters in areas governed by the EU Directive 94/9 EC (ATEX 95). The standard version can be used for specified fuels. If you consider to use other fluids please contact us for additional support.

Subject to technical alteration without prior notice.

6. Dimensions



Your Contact

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