

Stainless Steel Filter Elements

Our **Stainless Steel Filter Elements** consist of a support shell that is covered with smooth filter fabric. The support shell, the end caps and the filter fabric are made of stainless steel. The two seals are made of Teflon.

These filter elements by default are available in 18 different grades of fineness as well as in 9 different lengths.

Advantages

- High flow rates
- High temperature resistance
- Very resistant to high differential pressures
- Possibilities for cleaning and reuse
- No material dissolution into the filtrate possible



The resulting pressure loss in the clean **stainless steel filter elements** is very low; the maximum permissible differential pressure is 6 bar. However, we recommend cleaning the filter elements at a differential pressure of 2.5 bar.

Our **stainless steel filter elements** can be cleaned from a fineness of 40 μm up by washing or blowing them out. They last almost indefinitely when handled properly. At existing back flushing devices backwashing may be done even without removing the elements.

For filter fineness degrees below 40 μm , the cleaning result strongly depends on the type of contamination. In difficult cases good results were achieved by cleaning in an ultrasonic bath.

Technical data

| | |
|--|---------------|
| Initial differential pressure in a pure state | 0.1 - 0.3 bar |
| Recommended differential pressure for filter change | 2.5 bar |
| Permissible end differential pressure | 6.0 bar |

Applications

- ✓ Water treatment
- ✓ Chemical industry
- ✓ Pharmaceutical industry
- ✓ Beverage industry
- ✓ Food industry
- ✓ Paint and coatings industry
- ✓ Cosmetics industry
- ✓ Petroleum industry
- ✓ Photographic industry
- ✓ Environmental technology
- ✓ Hydraulic oil

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Flow rate in l/min at a differential pressure of 0.2 bar
based on water (1 cp)

| Fineness in µm | 254 mm long | 508 mm long | 762 mm long |
|----------------|-------------|-------------|-------------|
| 3 - 5 | 42 | 84 | 90 |
| 10 | 50 | 90 | 90 |
| 20 - 25 | 60 | 90 | 90 |
| 40 | 65 | 90 | 90 |
| 50 - 75 | 70 | 90 | 90 |
| 100 - 150 | 75 | 90 | 90 |
| 200 - 250 | 80 | 90 | 90 |
| 300 - 400 | 85 | 90 | 90 |
| 500 - 1000 | 90 | 90 | 90 |

Due to the inner diameter of the filter elements the flow rate is limited to max. 90 l/min.

Ordering information

| Product group | Material | Fineness | Length | Sealing | Other |
|---------------|------------|-------------|------------|----------|-----------|
| EFK | V2A | 0040 | 254 | T | BF |

| | | | | | |
|---------------------------|-------------------------------------|-------------------------------|---------------------------|--|--|
| Product group | EFK | | | | |
| Filter material | V2A AISI 304 Stainless steel | | max. 230°C | | |
| | V4A AISI 316 Stainless steel | | max. 230°C | | |
| Fineness (nominal) | 0003 3 µm | 0050 50 µm | 0300 300 µm | | |
| | 0005 5 µm | 0075 75 µm | 0350 350 µm | | |
| | 0010 10 µm | 0100 100 µm | 0400 400 µm | | |
| | 0020 20 µm | 0150 150 µm | 0500 500 µm | | |
| | 0025 25 µm | 0200 200 µm | 0750 750 µm | | |
| | 0040 40 µm | 0250 250 µm | 1000 1000 µm | | |
| Length | 127 5" (127 mm) | 495 19 ½" (495 mm) | 762 30" (762 mm) | | |
| | 248 9 ¾" (248 mm) | 508 20" (508 mm) | 991 39" (991 mm) | | |
| | 254 10" (254 mm) | 743 29 ¼" (743 mm) | 1016 40" (1016 mm) | | |
| Diameter | outside 65 mm | inside 27 mm | | | |
| Sealing | T Teflon | | | | |
| Other | BF Back flush protection | IK Inner support shell | C3 Code 3 adapter | | |