



## EFPF Series

### EVOTEK Low Pressure Filters

#### Product Description

- Operating pressure up to 35 bar
- 190 l/min max. flow rate
- installation in pressure line
- application in construction and agricultural machines, hydrostatic transmissions and power units
- compliant with industry relevant ISO standards(see ISO test below)

#### Technical Specifications

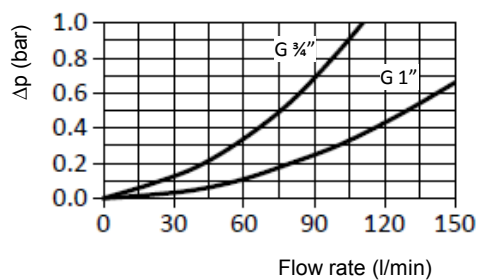
|                                    |                                                                                                                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                        | Inline Low Pressure Filter                                                                                                                                                                                                                                    |
| Port Sizes:                        | Threaded Connections according to BSP and NPT standard in ¾" to 1¼" inch and SAE12/ SAE16/ SAE20 threads                                                                                                                                                      |
| Flow Rate:                         | max. 190 l/min                                                                                                                                                                                                                                                |
| Operating Pressure:                | EFPF3,4,6 max. 35 bar<br>EFPF7,8 max. 24 bar                                                                                                                                                                                                                  |
| Burst Pressure:                    | EFPF3,4,6 min. 70 bar<br>EFPF7,8 min. 55 bar                                                                                                                                                                                                                  |
| Element Collapse Pressure:         | 10 bar                                                                                                                                                                                                                                                        |
| By-pass Opening Pressure:          | $\Delta p = 1.7 \text{ bar} \pm 10\%$ or $\Delta p = 3.5 \text{ bar} \pm 10\%$                                                                                                                                                                                |
| Material                           |                                                                                                                                                                                                                                                               |
| Seals:                             | NBR or FPM (-25°C to 100°C)                                                                                                                                                                                                                                   |
| Filter Head:                       | Aluminium                                                                                                                                                                                                                                                     |
| Filter Bowl:                       | Sheet steel                                                                                                                                                                                                                                                   |
| Compatibility:                     | Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water or other fields please contact our technical department)                                                                           |
| Tested according to ISO standards: | ISO2941 Collapse/burst resistance<br>ISO2942 Fabrication integrity<br>ISO2943 Material compatibility integrity<br>ISO3723 Method for end load test<br>ISO3724 Flow fatigue characteristics<br>ISO3968 Pressure Drop vs. Flow Rate<br>ISO16889 Multi-Pass Test |

## EFPF Low Pressure Filter Series

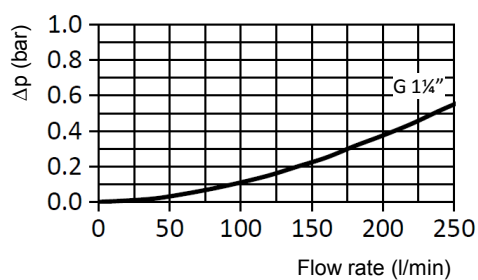
### Pressure Drop Graphs ( $\Delta p$ )

Pressure Drop of Filter Housing only

EFPF3, 4 & 6



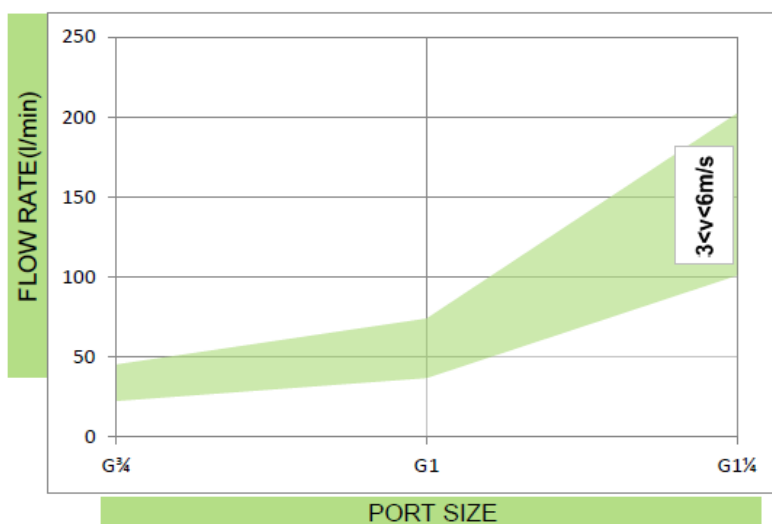
EFPF7 & 8



### Graph of oil flow velocity

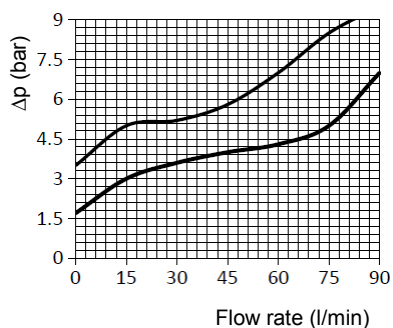
(we recommend to select size of the filter considering range of oil velocity between 3 to 6 m/s for pressure series)

Recommended range

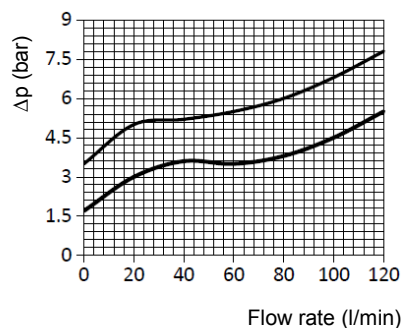


### Pressure drop graph on by-pass valve

EFPF3, 4 & 6



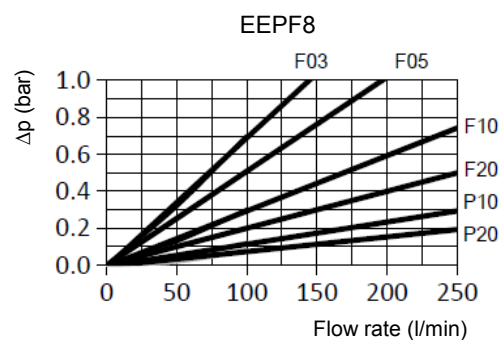
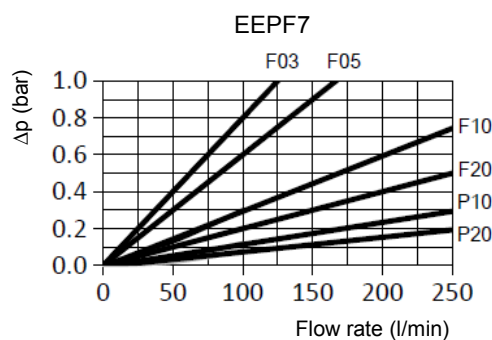
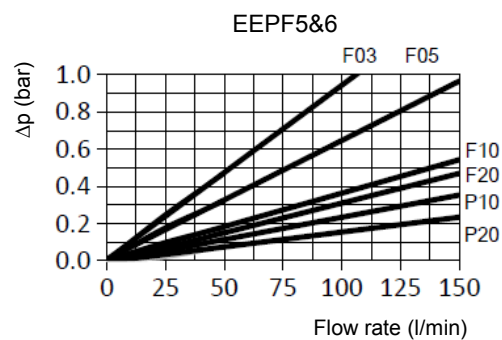
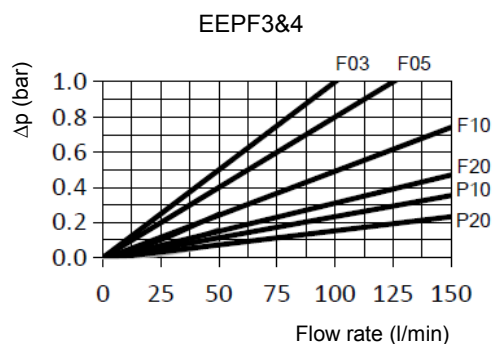
EFPF7 & 8



## EFPF Low Pressure Filter Series

### Pressure Drop Graphs ( $\Delta p$ )

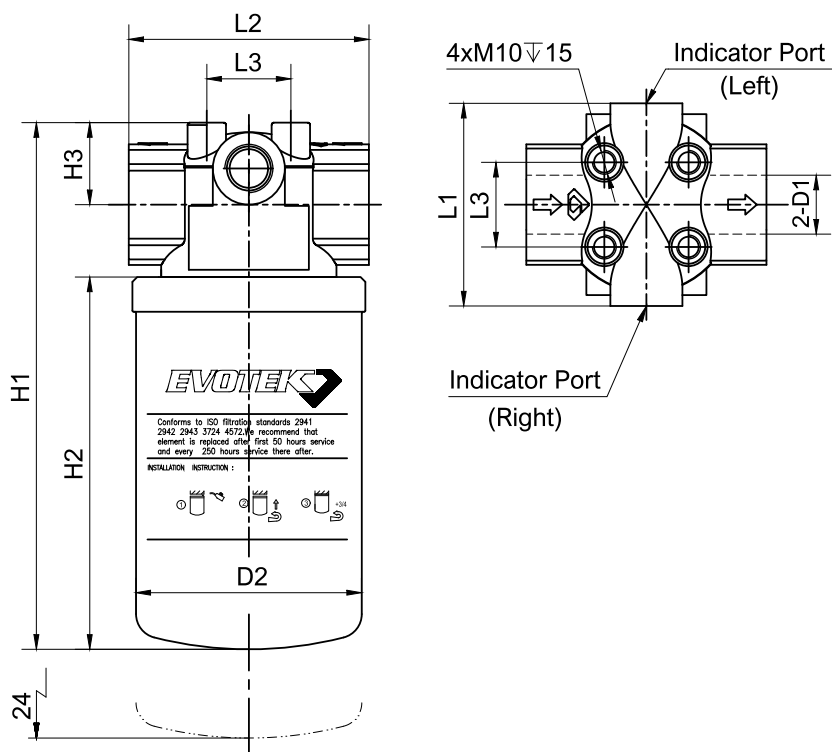
Pressure Drop with Clean Filter Elements (F and P filter media)



# EFPF Low Pressure Filter Series

## Technical Drawings and Dimension

### EFPF

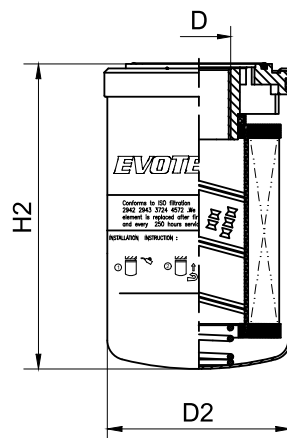


### Threaded Connection Ports

| Type  | Connection Port<br>(BSP/NPT/SAE) |    | Height |     |    |     |    |     |
|-------|----------------------------------|----|--------|-----|----|-----|----|-----|
|       | inch                             | mm | H1     | H2  | H3 | D2  | L1 | L2  |
| EFPF3 | 3/4", 1"                         |    | 219    | 155 |    |     |    |     |
| EFPF4 | SAE12                            |    | 246    | 182 | 34 | 94  | 84 | 102 |
| EFPF6 | SAE16                            |    | 304    | 240 |    |     |    |     |
| EFPF7 | 1 1/4"                           |    | 369    | 294 | 40 | 117 | 92 | 127 |
| EFPF8 | SAE20                            |    | 436    | 361 |    |     |    |     |

### ELEMENT

| Type     | Connection Port<br>(UN) |     | Height |     |
|----------|-------------------------|-----|--------|-----|
|          | inch                    | mm  | D2     | H2  |
| EEPF3-UB |                         |     |        | 155 |
| EEPF4-UB | 1 3/8"-12 UNF-2B        | 94  |        | 182 |
| EEPF6-UB |                         |     |        | 240 |
| EEPF7-UD | 1 3/4"-12 UN-2B         | 117 |        | 294 |
| EEPF8-UD |                         |     |        | 361 |



## EFPF Low Pressure Filter Series

### Order Codes

| Filter Assembly Series | A | B  | C  | - | D | E   | - | F   |
|------------------------|---|----|----|---|---|-----|---|-----|
| EFPF                   | 3 | BC | 06 | - | B | F20 | - | E25 |

| Element Series | A | - | See prev. page | E   | D |
|----------------|---|---|----------------|-----|---|
| EEPF           | 3 | - | UB             | F20 | B |

Select the code for each filter (or element) feature according to your requirements and place it in the sequence (see example above) to create the corresponding product order code.

#### A Size Flow Rate

|   |           |
|---|-----------|
| 3 | 80 l/min  |
| 4 | 90 l/min  |
| 6 | 130 l/min |
| 7 | 170 l/min |
| 8 | 190 l/min |

#### B Connection Ports

|     |         |
|-----|---------|
| A12 | SAE12   |
| A16 | SAE16   |
| A20 | SAE20   |
| BC  | BSP ¾"  |
| BD  | BSP 1"  |
| BE  | BSP 1¼" |
| NC  | NPT ¾"  |
| ND  | NPT 1"  |
| NE  | NPT 1¼" |

#### C By-pass Valve

|    |         |
|----|---------|
| 00 | No      |
| 06 | 1.7 bar |
| 09 | 3.5 bar |

#### D Seal

|   |     |
|---|-----|
| B | NBR |
| V | FPM |

#### E Media Material Filtration Collapse Pressure

|     |            |      |        |
|-----|------------|------|--------|
| P10 | Cellulose  | 10µm | 10 bar |
| P20 | Cellulose  | 20µm | 10 bar |
| F03 | Fiberglass | 5µm  | 10 bar |
| F05 | Fiberglass | 7µm  | 10 bar |
| F10 | Fiberglass | 12µm | 10 bar |
| F20 | Fiberglass | 21µm | 10 bar |

#### F Indicator

#### Connection

|     |                           |                |
|-----|---------------------------|----------------|
| 00  | No                        |                |
| V13 | 1.3 bar visual            | M20*1.5 Thread |
| V25 | 2.5 bar visual            | M20*1.5 Thread |
| E13 | 1.3 bar visual/electrical | M20*1.5 Thread |
| E25 | 2.5 bar visual/electrical | M20*1.5 Thread |

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