



EFRN Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 8 bar
- 450 l/min max. flow rate
- installation in Tank-top
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

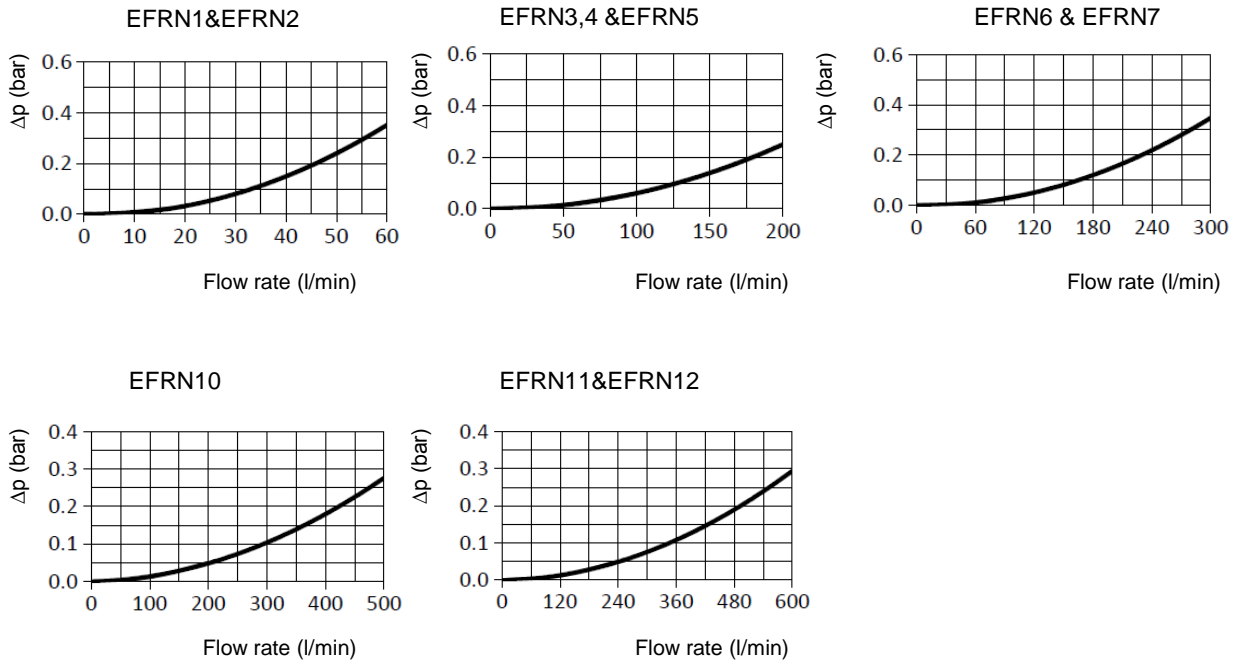
Technical Specifications

| | |
|------------------------------------|---|
| Application | Tank-top return filter |
| Port Sizes: | Threaded Connections according to BSP and NPT standard in ½" , ¾" ,1" , 1-¼" , 1-½" to 2" and SAE12,SAE16,SAE20,SAE24 |
| Flow Rate: | max. 450 l/min |
| Operating Pressure: | max. 8 bar |
| Burst Pressure: | min. 21bar |
| Element Collapse Pressure: | 10 bar |
| By-pass Opening Pressure: | $\Delta p = 1.7 \text{ bar} + 0.3 \text{ bar}$ |
| Material | |
| Seals: | NBR or FPM (-10°C to 100°C) |
| Filter Head: | Aluminum |
| Filter Bowl: | Polyamide |
| 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 ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate ISO16889 Multi-Pass Test |

EFRN Return Filter Series

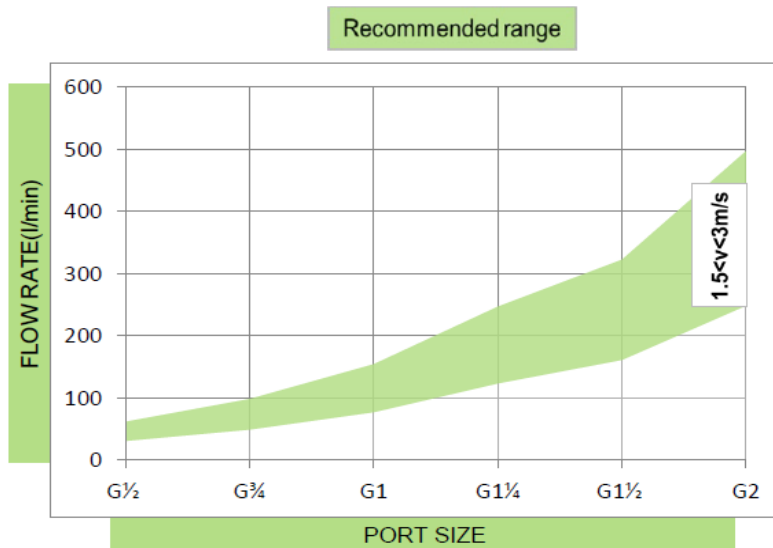
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only



Graph of oil flow velocity

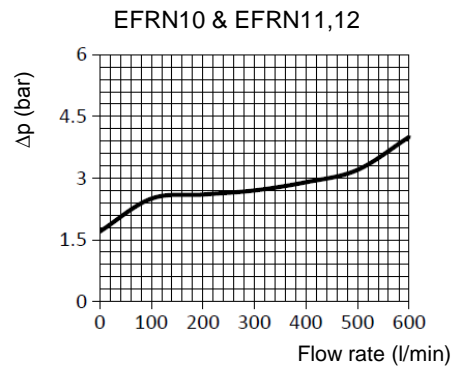
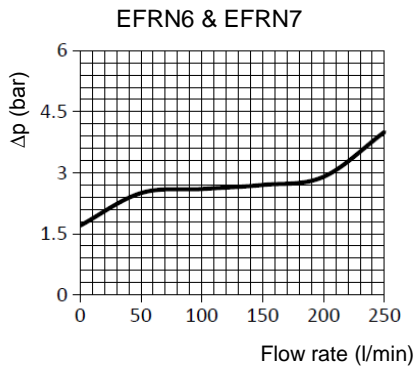
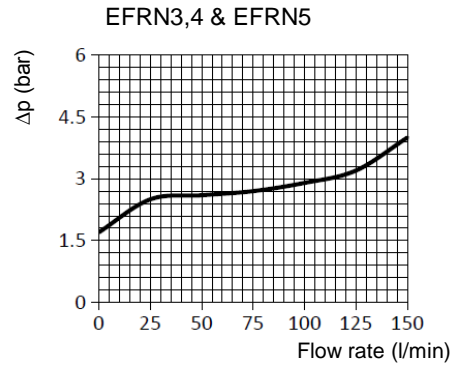
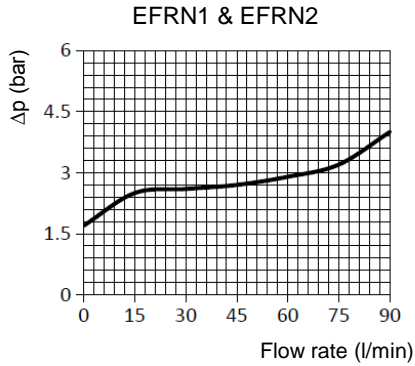
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)



EFRN Return Filter Series

Pressure Drop Graphs (Δp)

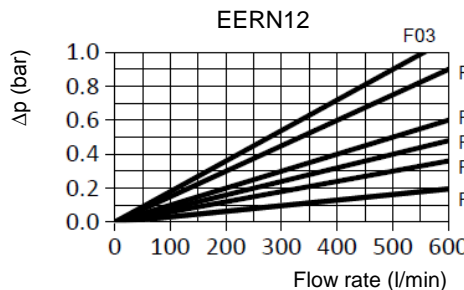
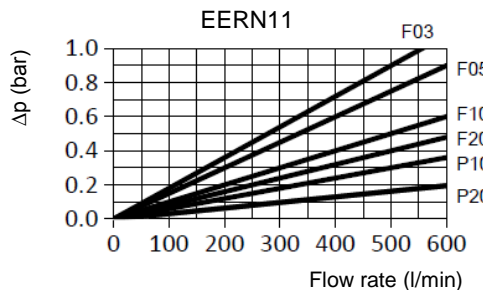
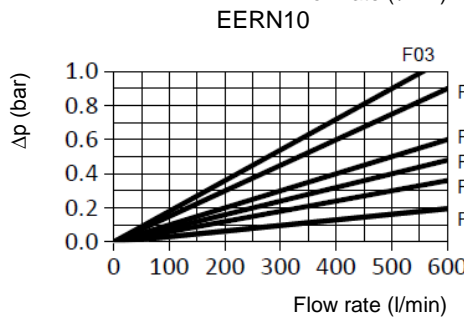
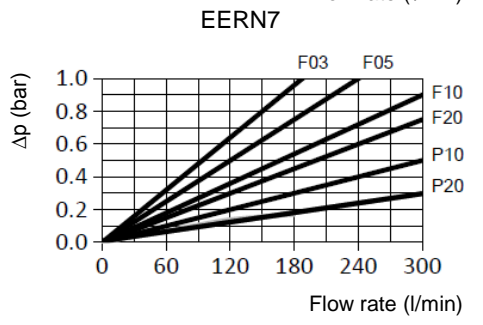
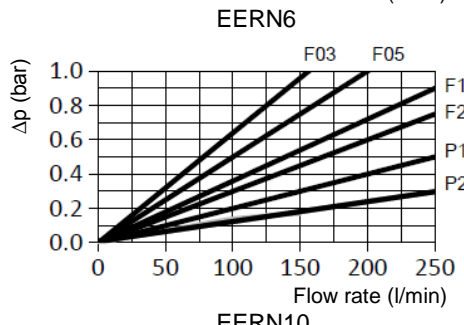
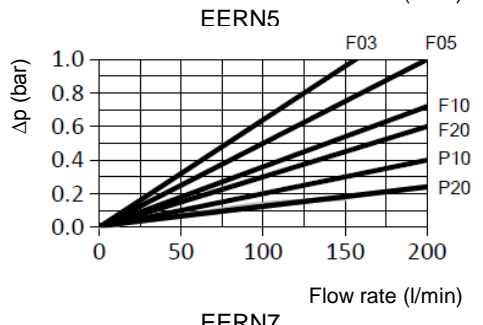
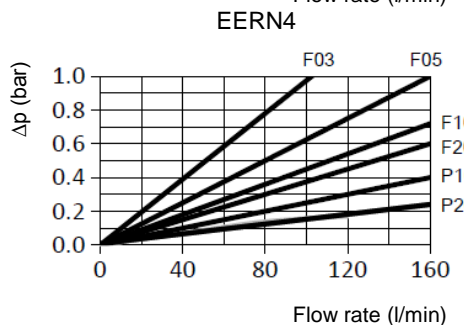
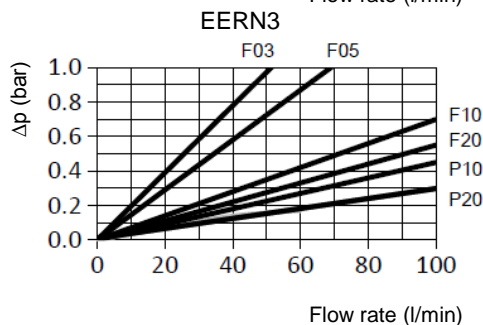
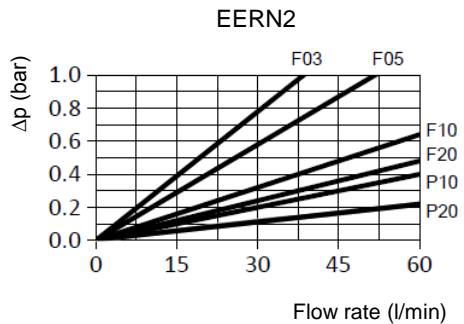
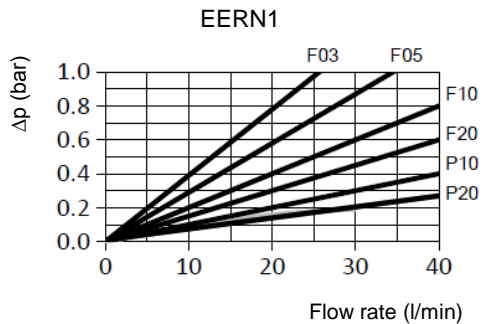
Pressure drop graph on by-pass valve



EFRN Return Filter Series

Pressure Drop Graphs (Δp)

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

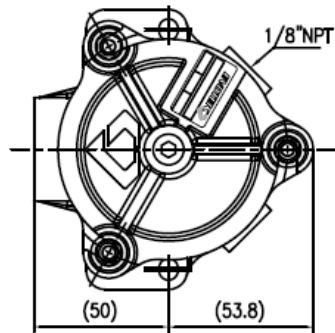
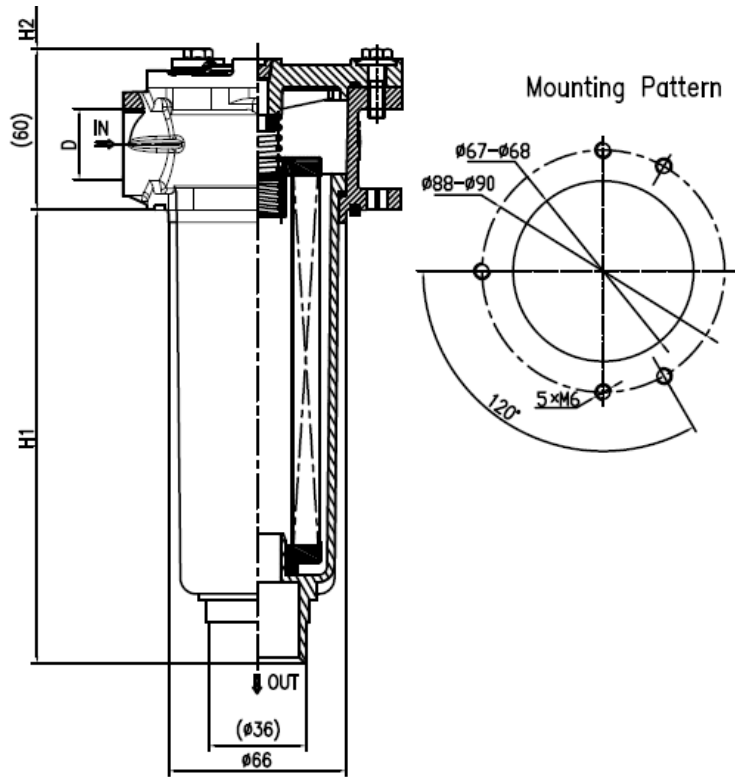


RETURN FILTERS
EFRN

EFRN Return Filter Series

Technical Drawings and Dimension

EFRN1 & EFRN 2



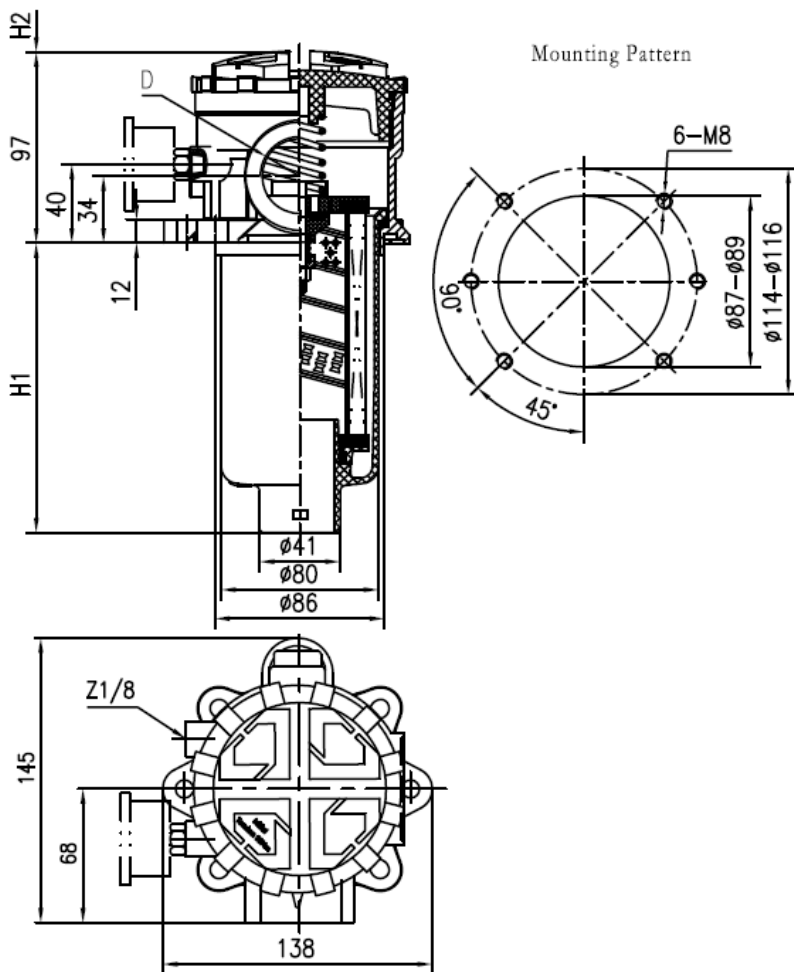
Threaded Connection Ports

| Type | Connection Port (BSP/NPT/SAE) | Height | |
|-------|----------------------------------|--------|-----|
| | inch | mm | |
| EFRN1 | D | H1 | H2 |
| EFRN1 | 1/2", 3/4", SAE12 | 102 | 122 |
| EFRN2 | | 167 | 187 |

EFRN Return Filter Series

Technical Drawings and Dimension

EFRN 3,4&EFRN5



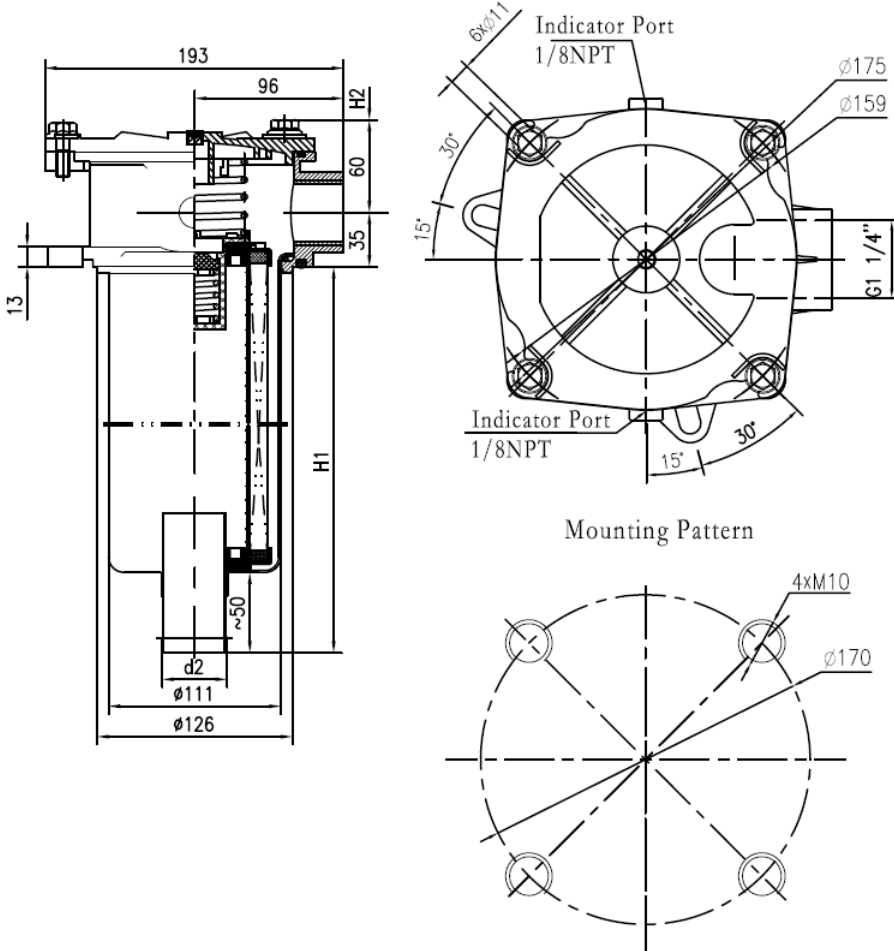
Threaded Connection Ports

| Type | Connection Port (BSP/NPT/SAE) | | Height | | |
|-------|----------------------------------|--------|--------|-----|----|
| | inch | D | mm | H1 | H2 |
| EFRN3 | 3/4" | ,SAE12 | 150 | 170 | |
| EFRN4 | 1" | ,SAE16 | 225 | 245 | |
| EFRN5 | 1-1/4" | ,SAE20 | 325 | 345 | |

EFRN Return Filter Series

Technical Drawings and Dimension

EFRN6 & EFRN7



Threaded Connection Ports

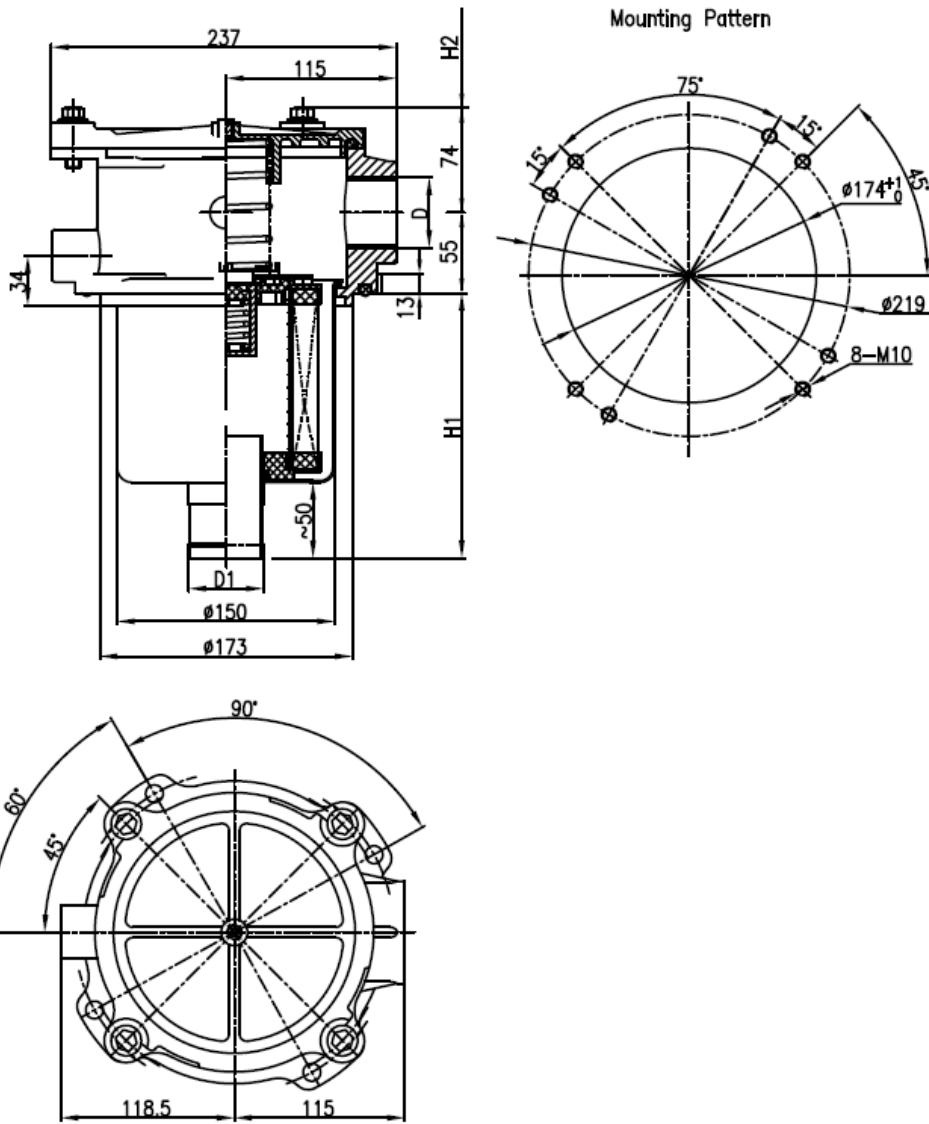
Connection Port

| Type | Connection Port | | H2 |
|-------|-----------------|--------------|-----|
| | Dia mm | Height mm | |
| EFRN6 | d2 | H1 | H2 |
| EFRN6 | 40 | 248 | 268 |
| EFRN7 | 42 | 440 | 460 |

EFRN Return Filter Series

Technical Drawings and Dimension

EFRN10, 11&12



Threaded Connection Ports

| Type | Connection Port (BSP/NPT/SAE) | | Height | |
|--------|----------------------------------|----------|----------|----------|
| | D inch | D1 mm | H1 mm | H2 mm |
| EFRN10 | 1-1/2", SAE24 | 52 | 180 | 200 |
| EFRN11 | 2" | 66 | 240 | 260 |
| EFRN12 | 2" | 66 | 290 | 310 |

EFRN Return Filter Series

Order Codes

| Filter Assembly Series | A | B | C | - | D | E | - | F | G | Element Series | A | C | D | E |
|------------------------|---|----|---|---|----|-----|---|-----|---|----------------|---|---|----|-----|
| EFRN | 3 | BC | B | - | 06 | F20 | - | R15 | R | EERN | 3 | B | 06 | F20 |

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

| | |
|----|-----------|
| 1 | 25 l/min |
| 2 | 45 l/min |
| 3 | 110 l/min |
| 4 | 140 l/min |
| 5 | 160 l/min |
| 6 | 200 l/min |
| 7 | 250 l/min |
| 10 | 300 l/min |
| 11 | 380 l/min |
| 12 | 450 l/min |

B Connection Ports

| | |
|-----|----------|
| BB | BSP ½" |
| BC | BSP ¾" |
| BD | BSP 1" |
| BE | BSP 1-¼" |
| BF | BSP 1-½" |
| BH | BSP 2" |
| NC | NPT ¾" |
| ND | NPT 1" |
| NE | NPT 1-¼" |
| NF | NPT 1-½" |
| NH | NPT 2" |
| A12 | SAE 12 |
| A16 | SAE 16 |
| A20 | SAE 20 |
| A24 | SAE 24 |

C Seal

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

D By-pass Valve

| | |
|---|---------|
| 0 | No |
| 6 | 1.7 bar |
| X | Special |

E Media Material Filtration Collapse Pressure

| | | | |
|-----|------------|------|--------|
| P10 | Cellulose | 10µm | 10 bar |
| P20 | Cellulose | 20µm | 10 bar |
| F03 | Fibreglass | 5µm | 10 bar |
| F05 | Fibreglass | 7µm | 10 bar |
| F10 | Fibreglass | 12µm | 10 bar |
| F20 | Fibreglass | 21µm | 10 bar |
| W25 | Wire Mesh | 25µm | 10 bar |
| W60 | Wire Mesh | 60µm | 10 bar |
| W90 | Wire Mesh | 90µm | 10 bar |

F Indicator

| | | |
|-----|-----------------------------|---------------|
| 0 | No | Connection |
| PZ | 0~4bar Axial pressure gauge | 1/8NPT Thread |
| R15 | 1.5 bar Pressure Switch | 1/8NPT Thread |

G Indicator Mounting position

| | |
|---|-------|
| R | Right |
| L | Left |



EFRB Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 10 bar
- 500 l/min max. flow rate
- installation in Tank-top
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

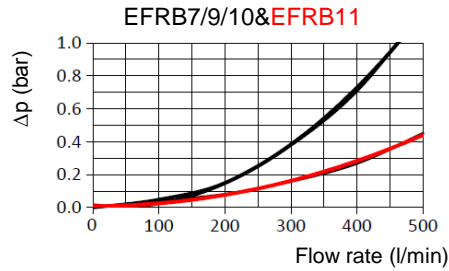
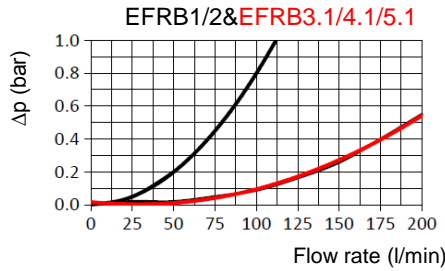
Technical Specifications

| | |
|------------------------------------|---|
| Application | Tank-top return filter |
| Port Sizes: | Threaded Connections according to BSP and NPT standard in ½ ” to 1-½” and SAE08/SAE12/ SAE16/SAE20/SAE24 threads Flange Connections in SAE DN40/ SAE DN50 / SAE DN80 for 3000psi |
| Flow Rate: | max. 500 l/min |
| Operating Pressure: | max. 10 bar |
| Burst Pressure: | min. 21 bar |
| Element Collapse Pressure: | 10 bar |
| By-pass Opening Pressure: | $\Delta p=1.7 \text{ bar} +0.3\text{bar}$ (EFRB1 to 5.1&EFRB10) $\Delta p=3.0 \text{ bar} +0.3\text{bar}$ (EFRB7 ,9 & 11) |
| Material | |
| Seals: | NBR or FPM (-10°C to 100°C) |
| Filter Head: | Aluminum |
| Filter Bowl: | Polyamide |
| 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 ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate ISO16889 Multi-Pass Test |

EFRB Return Filter Series

Pressure Drop Graphs (Δp)

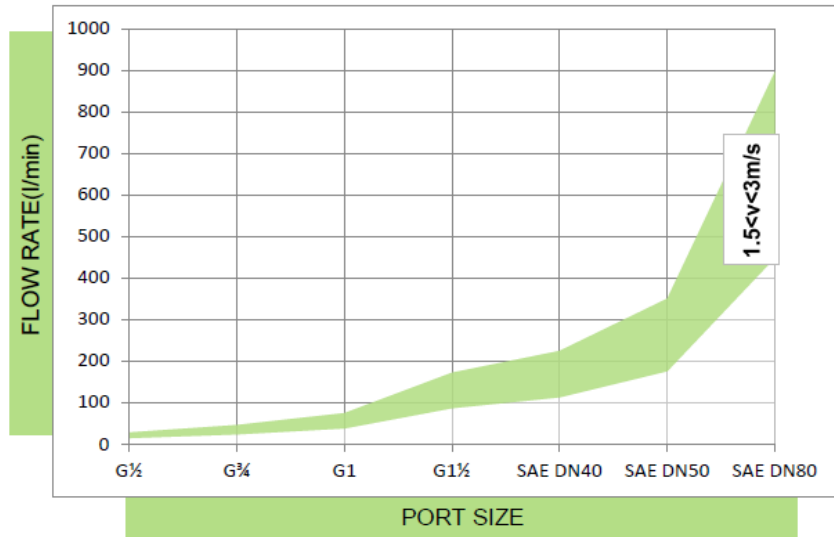
Pressure Drop of Filter Housing only



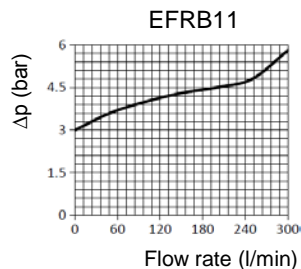
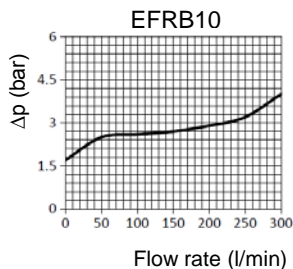
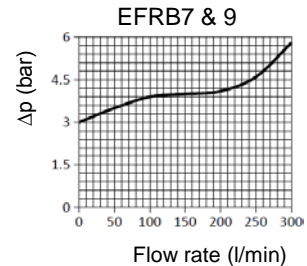
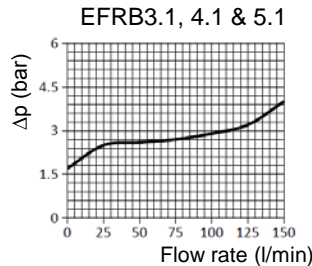
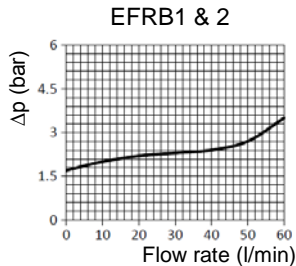
Graph of oil flow velocity

(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Recommended range



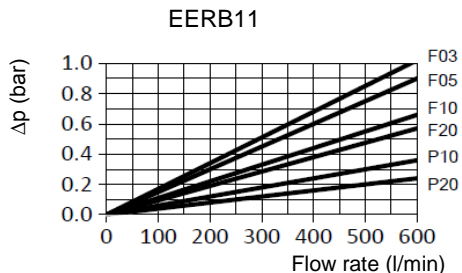
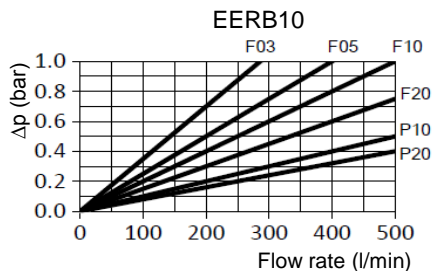
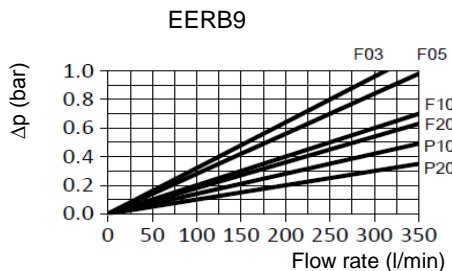
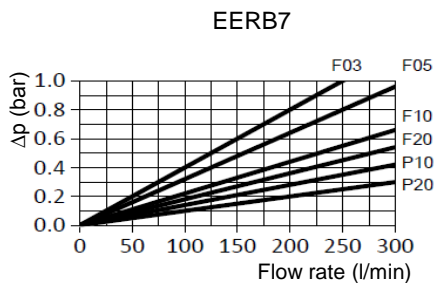
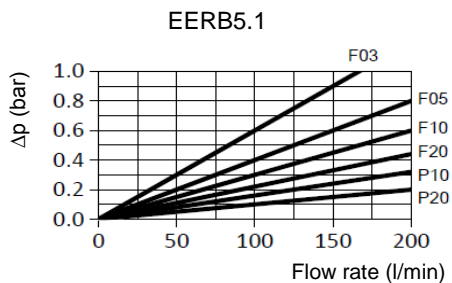
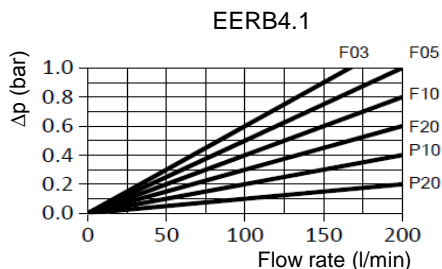
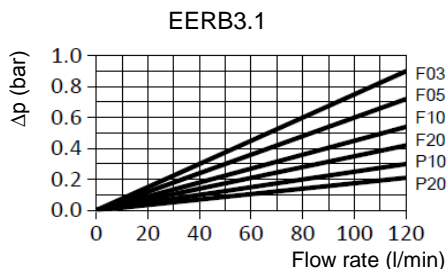
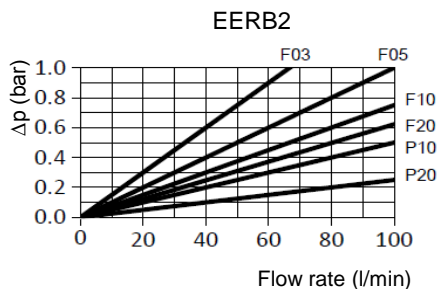
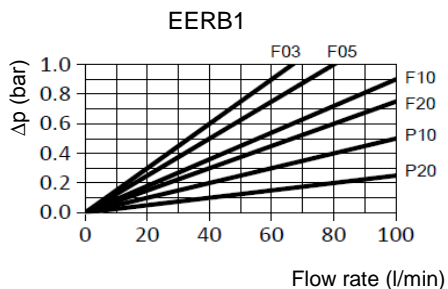
Pressure drop graph on by-pass valve



EFRB Return Filter Series

Pressure Drop Graphs (Δp)

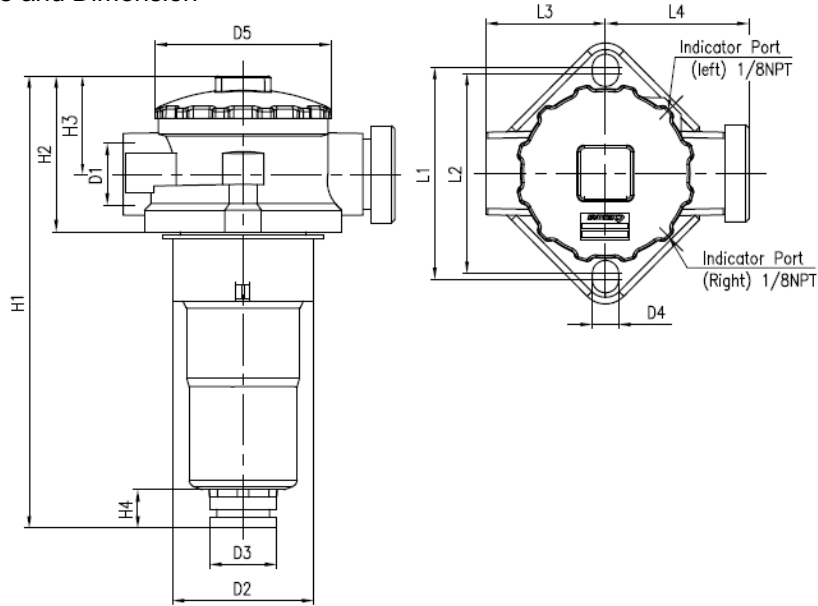
Pressure Drop with Clean Filter Elements (F and P filter media)



EFRB Return Filter Series

Technical Drawings and Dimension

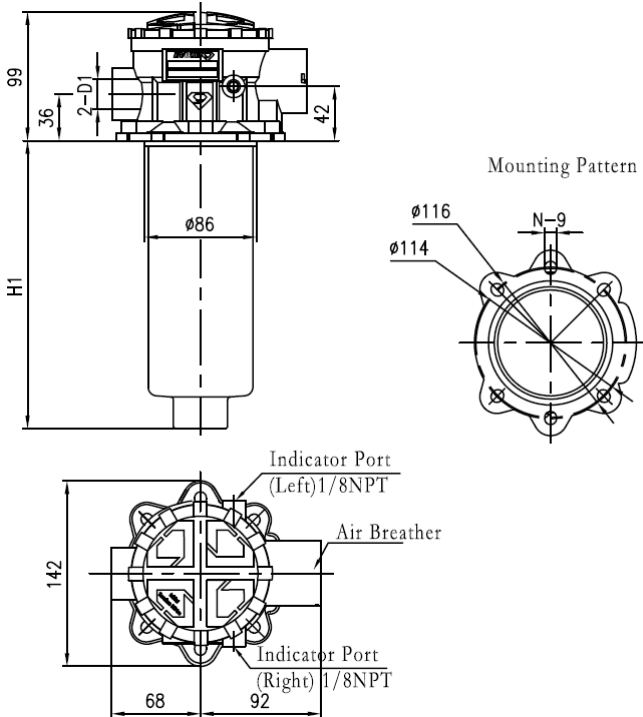
EFRB1&2



Threaded Connection Ports

| Type | Connection Port (BSP/NPT/SAE) | | Dia | | | | Height | | | | | | |
|-------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | D1 inch | D2 mm | D3 mm | D4 mm | D5 mm | H1 mm | H2 mm | H3 mm | H4 mm | L1 mm | L2 mm | L3 mm | L4 mm |
| EFRB1 | 1/2" - 3/4" SAE08 | 63 | 28 | 11 | 75 | 150 | 67 | 41 | 21 | 88 | 86 | 51 | 60 |
| EFRB2 | SAE12 | 63 | 28 | 11 | 75 | 247 | 67 | 41 | 21 | 88 | 86 | 51 | 60 |

EFRB 3.1, 4.1 & 5.1



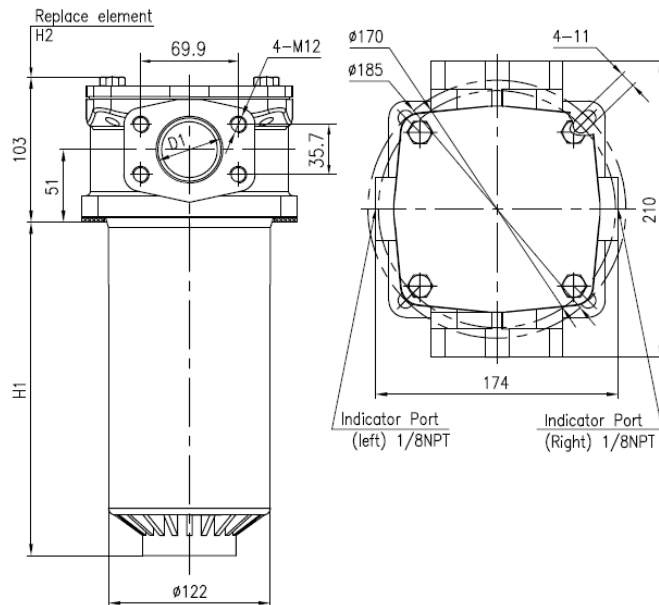
Threaded Connection Ports

| Type | Connection Port (BSP/NPT/SAE) | | Height | |
|---------|----------------------------------|----------|---------|---|
| | D1 inch | H1 mm | E mm | N |
| EFRB3.1 | 3/4" - 1" | 150 | 2 | 2 |
| EFRB4.1 | SAE12 | 225 | 4 | 4 |
| EFRB5.1 | SAE16 | 325 | 6 | 6 |

EFRB Return Filter Series

Technical Drawings and Dimension

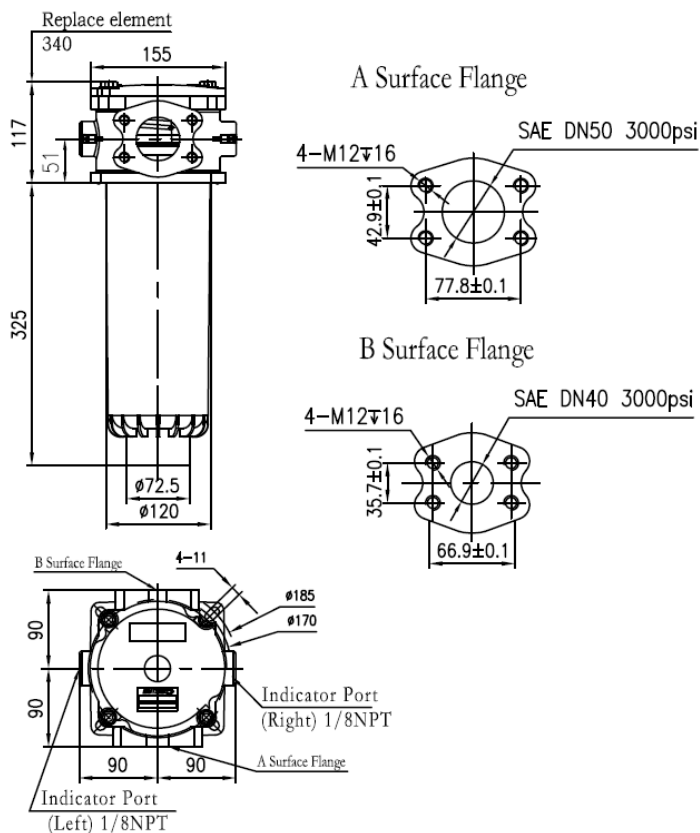
EFRB7&9



Connection Port
(BSP/NPT/SAE) Height

| Type | D1 inch | H1 mm | H2 mm |
|-------|-------------------|----------|----------|
| EFRB7 | 1½" ,SAE20 | 159 | 205 |
| EFRB9 | SAE DN40 3000 psi | 240 | 285 |

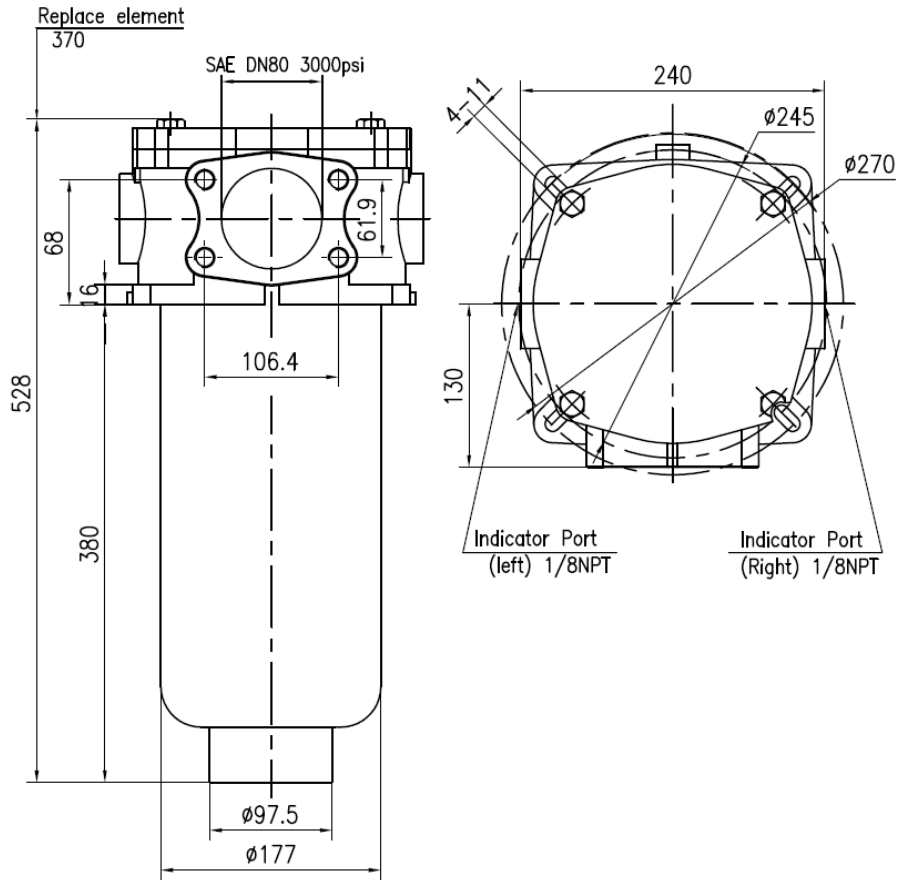
EFRB 10



EFRB Return Filter Series

Technical Drawings and Dimension

EFRB 11



EFRB Return Filter Series

Order Codes

| Filter Assembly Series | A | B | C | - | D | E | - | F | G | H | Element Series | A | C | D | E |
|------------------------|---|----|---|---|----|-----|---|-----|---|---|----------------|---|---|----|-----|
| EFRB | 3 | BC | B | - | 06 | F20 | - | R15 | R | Y | EERB | 3 | B | 06 | F20 |

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 | D By-pass Valve | |
| 1 | 30 l/min | 00 | No |
| 2 | 60 l/min | 06 | 1.7 bar (EFRB1~5.1, 10) |
| 3.1 | 110 l/min | 08 | 3 bar (EFRB7, 9, 11) |
| 4.1 | 140 l/min | E Media | |
| 5.1 | 160 l/min | Material | Filtration |
| 7 | 250 l/min | P10 | Cellulose 10µm |
| 9 | 330 l/min | P20 | Cellulose 20µm |
| 10 | 400 l/min | F03 | Fibreglass 5µm |
| 11 | 500 l/min | F05 | Fibreglass 7µm |
| | | F10 | Fibreglass 12µm |
| | | F20 | Fibreglass 21µm |
| | | W25 | Wire Mesh 25µm |
| | | W60 | Wire Mesh 60µm |
| | | W90 | Wire Mesh 90µm |
| | | F Indicator | |
| | | 0 | No Connection |
| | | PZ | 0~4bar Axial pressure gauge 1/8NPT Thread EFRB1~5.1&10 |
| | | PA | 0~10bar Axial pressure gauge 1/8NPT Thread EFRB7, 9, 11 |
| | | R15 | 1.5 bar Pressure Switch 1/8NPT Thread EFRB1~5.1&10 |
| | | R20 | 2 bar Pressure Switch 1/8NPT Thread EFRB7, 9, 11 |
| | | G Indicator Mounting position | |
| | | R | Right |
| | | L | Left |
| | | H Breather | |
| | | N | None |
| | | Y | With air breather EFRB1~5.1 |
| B Connection Ports | | | |
| A08 | SAE08 | | |
| A12 | SAE12 | | |
| A16 | SAE16 | | |
| A24 | SAE24 | | |
| BB | BSP 1/2" | | |
| BC | BSP 3/4" | | |
| BD | BSP 1" | | |
| BF | BSP 1-1/2" | | |
| NB | NPT 1/2" | | |
| NC | NPT 3/4" | | |
| ND | NPT 1" | | |
| NF | NPT 1-1/2" | | |
| FE | (3000psi) SAE DN40 | | |
| FF | (3000psi) SAE DN50 | | |
| FH | (3000psi) SAE DN80 | | |
| C Seal | | | |
| B | NBR | | |
| V | FPM | | |

EFRE Series

EVOTEK Return Filters



Product Description

- Operating pressure up to 10 bar
- 130 l/min max.Oil flow rate
- 1350 l/min max.Air flow rate
- Installed on the return line of the hydraulic system
- application in heavy duty, industry
- compliant with industry relevant ISO standards(see ISO test below)

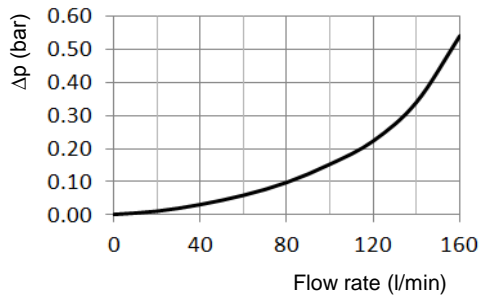
Technical Specifications

| | |
|------------------------------------|---|
| Application | Tank-top return filter with integrated level indicator, air breather & refill filtration |
| Port Sizes: | Threaded Connections according to BSP and NPT standard in 1-¼" and SAE16 threads |
| Oil Flow Rate: | max. 130 l/min |
| Air Flow Rate: | max. 1350 l/min |
| Operating Pressure: | max. 10 bar |
| Element Collapse Pressure: | 10 bar |
| By-pass Opening Pressure: | $\Delta p = 1.7 \text{ bar} + 0.3 \text{ bar}$ |
| Material | |
| Seals: | NBR or FPM (-10°C to 100°C) |
| Filter Head: | Aluminium |
| Filter Bowl: | Polyamide |
| 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 ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate ISO16889 Multi-Pass Test |

EFRE Return Filter Series

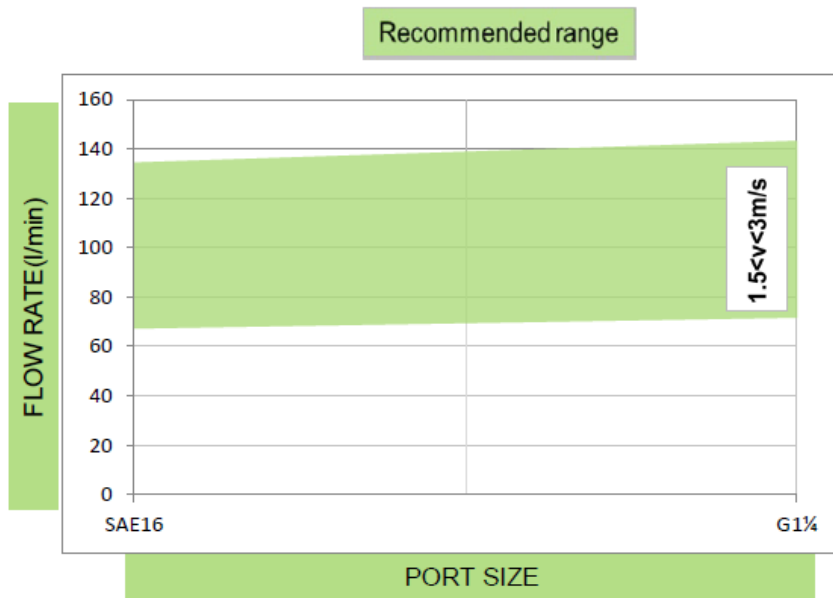
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only EFRE5 & EFRE6

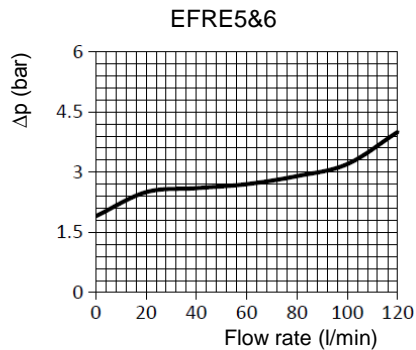


Graph of oil flow velocity

(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)



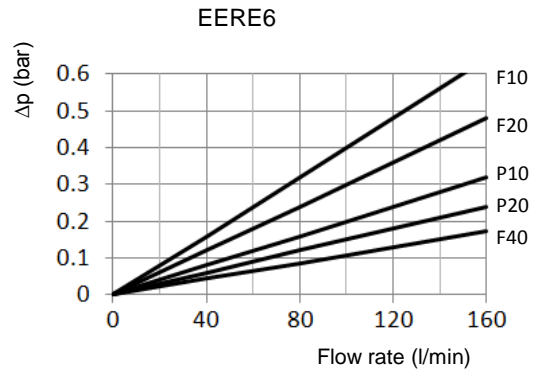
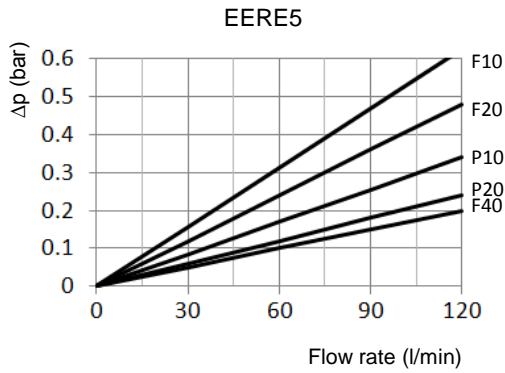
Pressure drop graph on by-pass valve



EFRE Return Filter Series

Pressure Drop Graphs (Δp)

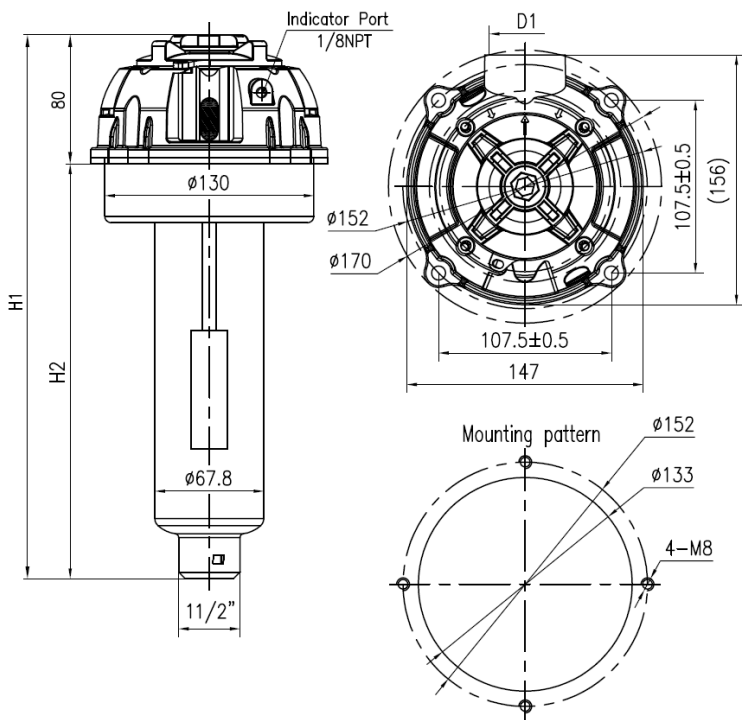
Pressure Drop with Clean Filter Elements (F and P filter media)



EFRE Return Filter Series

Technical Drawings and Dimension

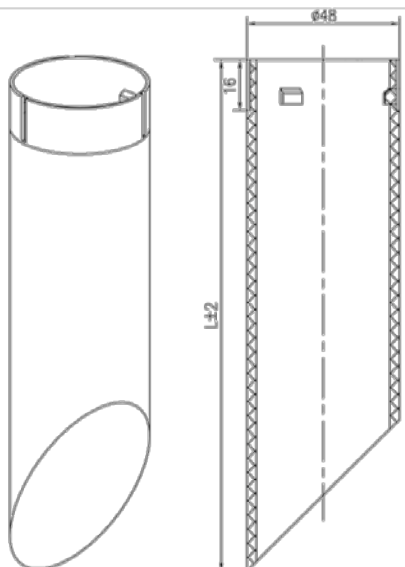
RETURN FILTERS
EFRE



Threaded Connection Ports

| Type | Connection Port (BSP/NPT/SAE) | | Height mm | | |
|-------|----------------------------------|----|--------------|------------------|-------------------|
| | Inch | D1 | H1 | H2 | |
| | | | | lowest oil level | highest oil level |
| EFRE5 | 1-1/4" | | 244 | 132 | 110 |
| EFRE6 | SAE20 | | 336 | 132 | 110 |

Extension tube



| Type | Tube length(L) |
|------|----------------|
| L130 | 130mm |
| L210 | 210mm |
| L260 | 260mm |
| L375 | 375mm |
| L425 | 425mm |
| L456 | 456mm |

EFRE Return Filter Series

Order Codes

| Filter Assembly Series | A | B | C | D | - | E | F | G | Element Series | A | D | E |
|------------------------|---|----|----|---|---|-----|----|-----|----------------|---|---|-----|
| EFRE | 6 | BE | 06 | B | - | F10 | PZ | L00 | EERE | 6 | B | F10 |

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 | E Media Material | Filtration | Collapse Pressure |
|--------------------|-----------|------------------|-------------------------|-------------------|
| 5 | 100 l/min | P10 | Cellulose 10µm | 10 bar |
| 6 | 130 l/min | P20 | Cellulose 20µm | 10 bar |
| | | F10 | Fibreglass 12µm | 10 bar |
| | | F20 | Fibreglass 21µm | 10 bar |
| | | F40 | Fibreglass 40µm | 10 bar |
| B Connection Ports | | F Indicator | | |
| A20 | SAE20 | 0 | No | Connection |
| BE | BSP 1-¼" | PZ | 0~4bar Axial gauge | 1/8NPT Thread |
| NE | NPT 1-¼" | PS | 0~4bar Radial gauge | 1/8NPT Thread |
| | | R15 | 1.5 bar Pressure Switch | 1/8NPT Thread |
| C By-pass Valve | | G Extension tube | | |
| 6 | 1.7bar | Type | Tube length(L) | |
| X | Special | L130 | 130mm | |
| | | L210 | 210mm | |
| | | L260 | 260mm | |
| | | L375 | 375mm | |
| | | L425 | 425mm | |
| | | L456 | 456mm | |
| D Seal | | | | |
| B | NBR | | | |
| V | FPM | | | |



EFRC Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 10 bar
- 800 l/min max. flow rate
- Install on top of tank
- application in waste management trucks, mobile cranes, power packs, wheeled loaders, drilling equipment
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

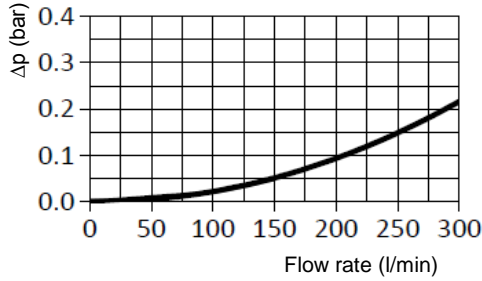
| | |
|------------------------------------|---|
| Application | Tank-top return filter |
| Port Sizes: | Threaded Connections according to BSP and NPT standard in 1-1/4" and SAE20 Flange Connections in SAE DN40 &SAE DN65 for 3000psi |
| Flow Rate: | max. 800 l/min |
| Flow Direction | Inside to out flow direction ,keeping the filter bowl decontaminated and minimizing the risk of re-contamination during element change. |
| Operating Pressure: | max. 10 bar |
| Burst Pressure: | min. 30 bar |
| Element Collapse Pressure: | 10 bar |
| By-pass Opening Pressure: | $\Delta p=1.5 \text{ bar} +0.3\text{bar}$ |
| Material | |
| Seals: | NBR or FPM (-10°C to 100°C) |
| Filter Head: | Aluminum |
| Filter Bowl: | Zinc plated 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 ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate ISO16889 Multi-Pass Test |

EFRC Return Filter Series

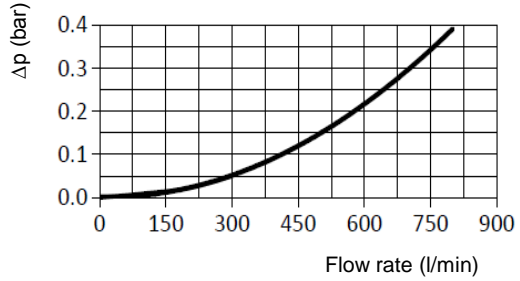
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFRC5, 6, 7



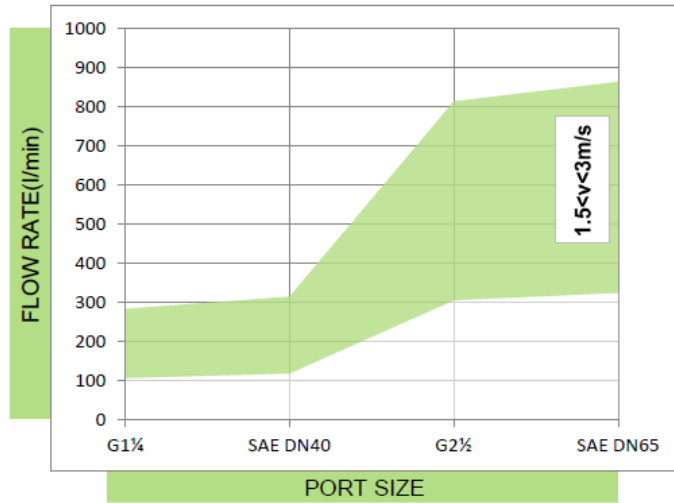
EFRC8, 9, 10, 11



Graph of oil flow velocity

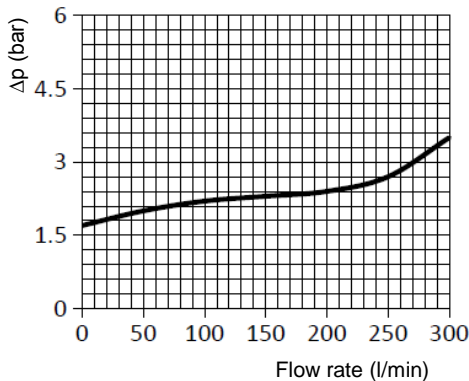
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Recommended range

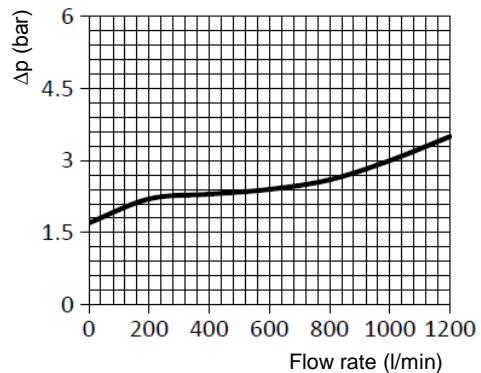


Pressure drop graph on by-pass valve

EFRC5,6,7



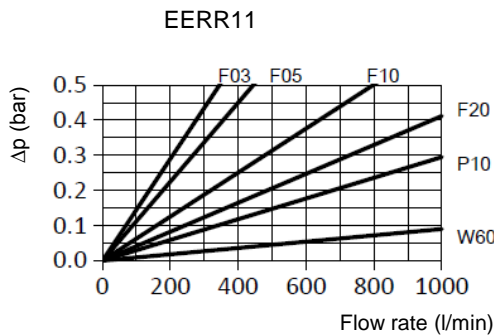
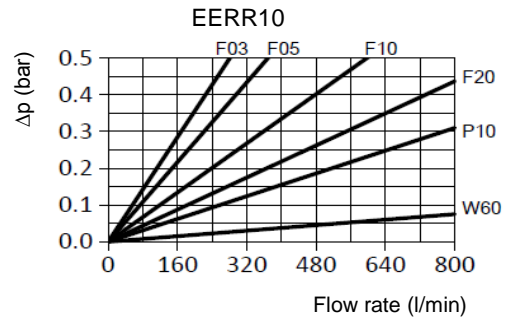
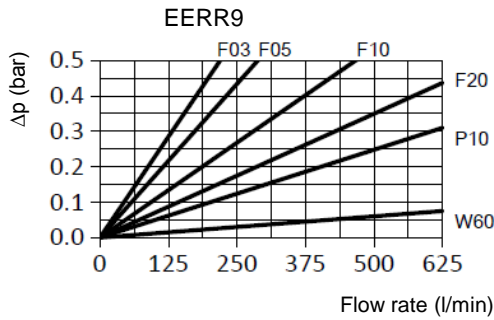
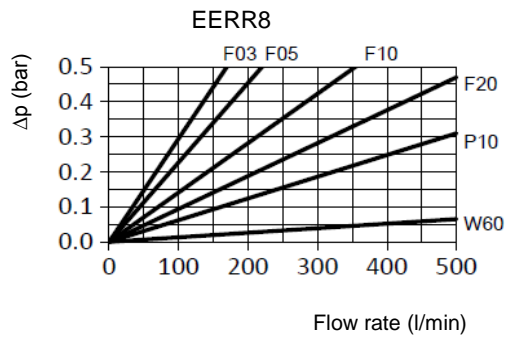
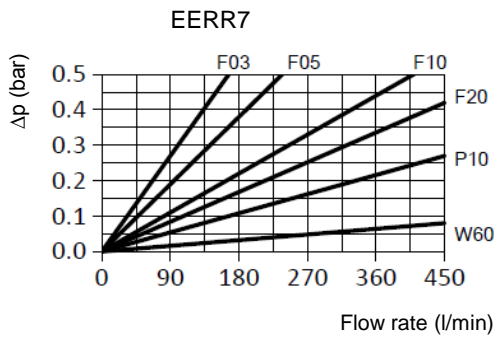
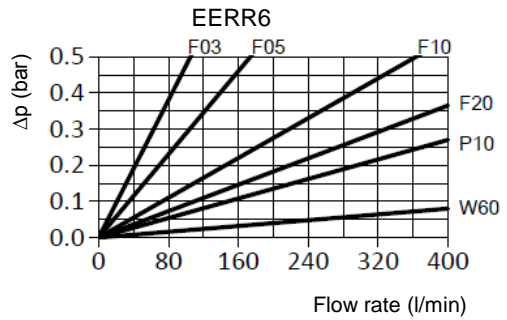
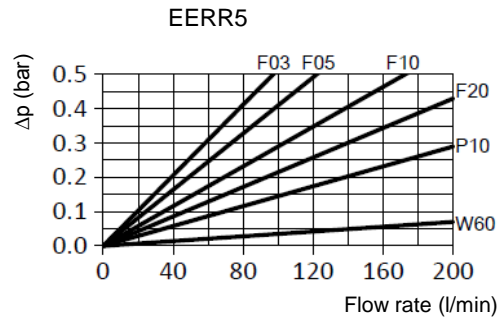
EFRC8,9,10,11



EFRC Return Filter Series

Pressure Drop Graphs (Δp)

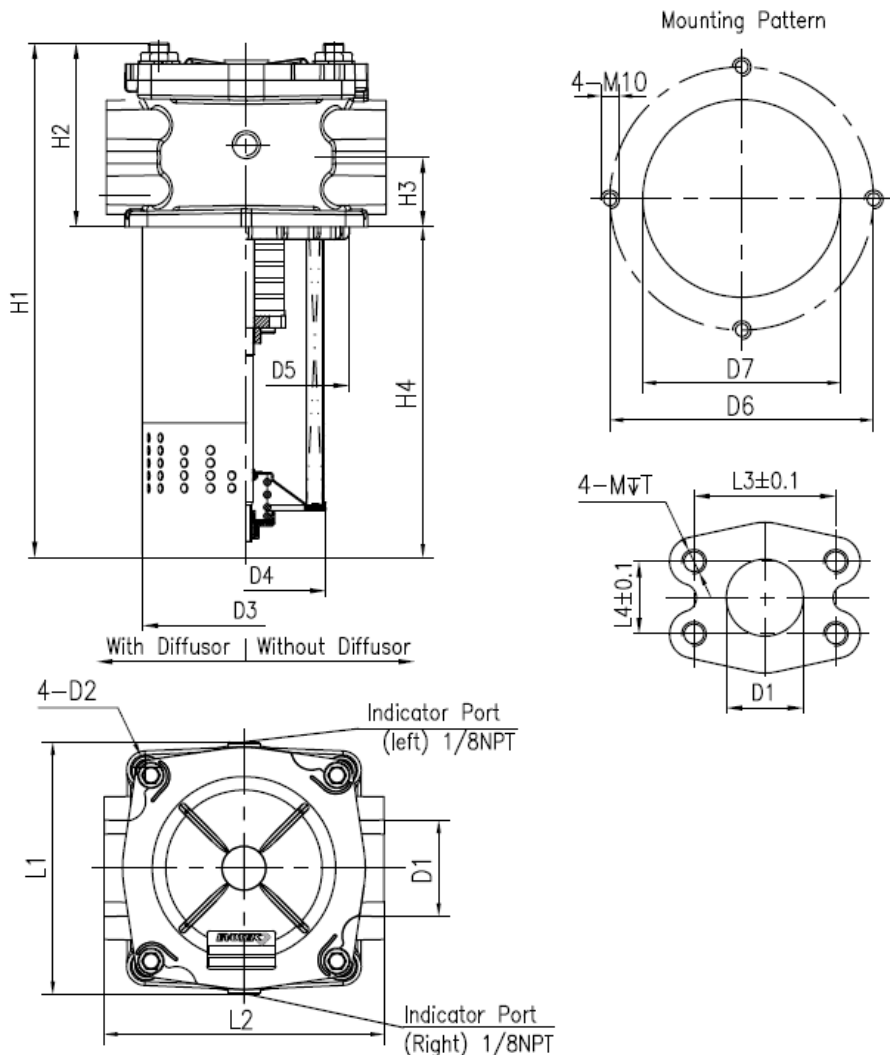
Pressure Drop with Clean Filter Elements (F ,P and W filter media)



EFRC Return Filter Series

Technical Drawings and Dimension

RETURN FILTERS
EFRC

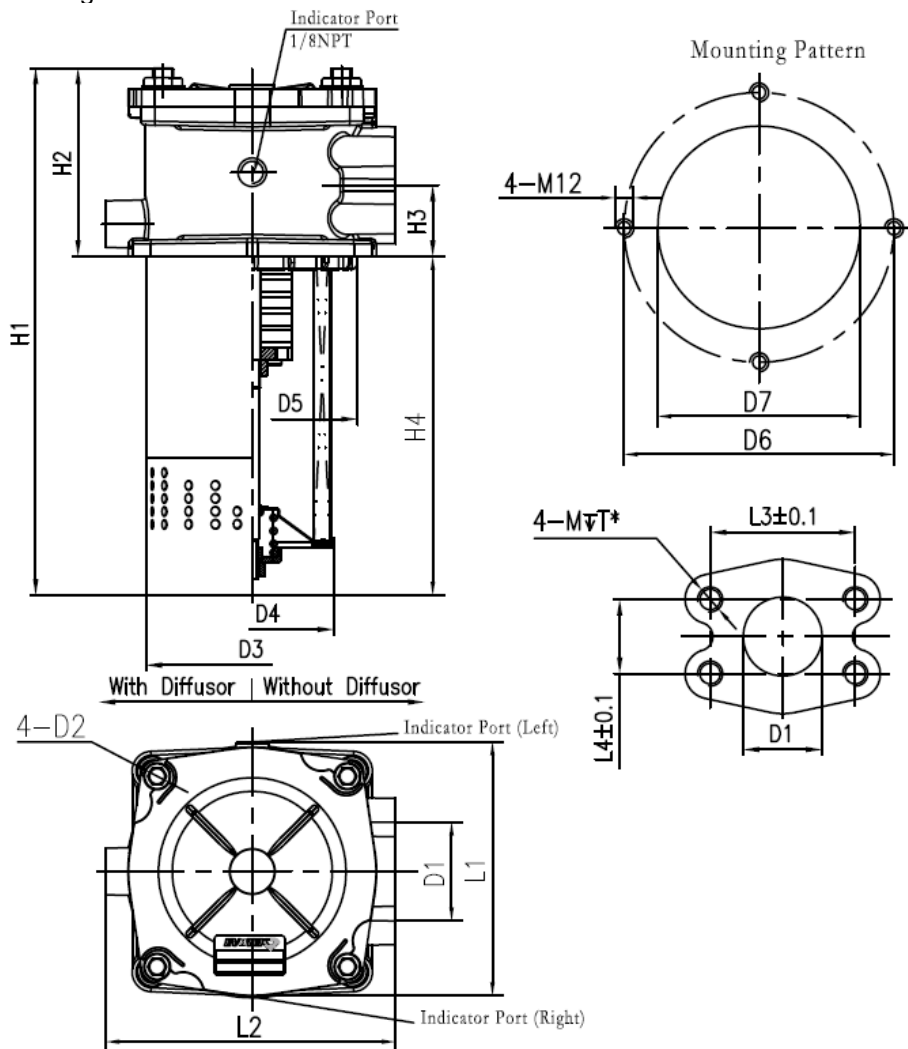


Connection Port (BSP/NPT/SAE)

| Type | inch | mm | | | | | | | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
|-------|------------------|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|------|----|----|
| | D1 | D2 | D3 | D4 | D5 | D6 | D7 | M | | | | | | | | | | |
| EFRC5 | 1 1/4" | | | | | | | | 379 | | | 250 | | | | | | |
| EFRC6 | SAE 20 | | 11 | 133 | 106 | 130 | 175 | 134 | 449 | 129 | 36 | 320 | 156 | 180 | 69.9 | 35.7 | 27 | |
| EFRC7 | SAE DN40 3000psi | | | | | | | | 654 | | | 525 | | | | | | |

EFRC Return Filter Series

Technical Drawings and Dimension



Connection Port (SAE)

| Type | D1 | mm | | | | | | | M | mm | | | | | | | |
|--------|------------------|----|-------|-----|-------|----------|-----|-----|-----|-----|----|-----|-----|-----|------|------|----|
| | | D2 | D3 | D4 | D5 | D6 | D7 | H1 | | H2 | H3 | H4 | L1 | L2 | L3 | L4 | T |
| EFRC8 | SAE DN65 3000psi | 13 | 165.5 | 126 | 162.5 | 215 -220 | 167 | M12 | 445 | 155 | 55 | 290 | 193 | 223 | 88.9 | 50.8 | 30 |
| EFRC9 | | | | | | | | | 525 | | | 370 | | | | | |
| EFRC10 | | | | | | | | | 625 | | | 470 | | | | | |
| EFRC11 | | | | | | | | | 715 | | | 560 | | | | | |

EFRC Return Filter Series

Order Codes

| Filter Assembly Series | A | B | C | D | - | E | - | F | G | H | I | Element Series | A | C | E |
|------------------------|---|----|---|----|---|-----|---|-----|---|---|---|----------------|---|---|-----|
| EFRC | 5 | BE | B | 05 | - | F10 | - | R13 | L | D | M | EERR | 5 | B | F10 |

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 |
|--------|-----------|
| 5 | 200 l/min |
| 6 | 250 l/min |
| 7 | 330 l/min |
| 8 | 500 l/min |
| 9 | 600 l/min |
| 10 | 700 l/min |
| 11 | 800 l/min |

| B Connection Ports | |
|--------------------|------------------|
| BE | BSP 1-¼" |
| NE | NPT 1-¼" |
| A20 | SAE20 |
| FE | SAE DN40 3000psi |
| FG | SAE DN65 3000psi |

| C Seal | |
|--------|-----|
| B | NBR |
| V | FPM |

| D By-pass Valve | |
|-----------------|---------|
| X | Special |
| 05 | 1.5bar |

| E Media | Material | Filtration | Collapse Pressure |
|---------|------------|------------|-------------------|
| P10 | Cellulose | 10µm | 10 bar |
| F05 | Fibreglass | 7µm | 10 bar |
| F10 | Fibreglass | 12µm | 10 bar |
| F20 | Fibreglass | 21µm | 10 bar |
| W25 | Wire Mesh | 25µm | 10 bar |
| W60 | Wire Mesh | 60µm | 10 bar |

| F Indicator | | Connection |
|-------------|------------------------------------|----------------|
| 0 | No | |
| PZ | 0-4bar Axial pressure gauge | 1/8NPT Thread |
| R13 | 1.3 bar Pressure Switch | 1/8NPT Thread |
| V13 | 1.3 bar Visual indicator | M20*1.5 Thread |
| E13 | 1.3 bar Visual /electric indicator | M20*1.5 Thread |

V13&E13 for EFRC8,9,10&11only

| G Indicator Mounting position | |
|-------------------------------|-------|
| R | Right |
| L | Left |

| H Diffusor | Type |
|------------|------------------|
| D | With Diffusor |
| 0 | Without Diffusor |

| I Magnet | |
|----------|----------------|
| M | With Magnet |
| 0 | Without Magnet |



EFRR Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 10 bar
- 2400 l/min max. flow rate
- installation in Tank
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Tank integrated return filter

Flow direction:

Inside –out flow keeping particles in the element to minimize system contamination during maintenance.

Flow Rate:

max. 2400 l/min

Operating Pressure:

max. 10 bar

Burst Pressure:

min. 30 bar

Element Collapse Pressure:

10 bar

By-pass Opening Pressure:

$\Delta p = 1.5 \text{ bar} + 0.3 \text{ bar}$

Material

Seals:

NBR or FPM (-10°C to 100°C)

Filter Head:

Aluminum

Filter Bowl:

Zinc plated steel

Compatibility:

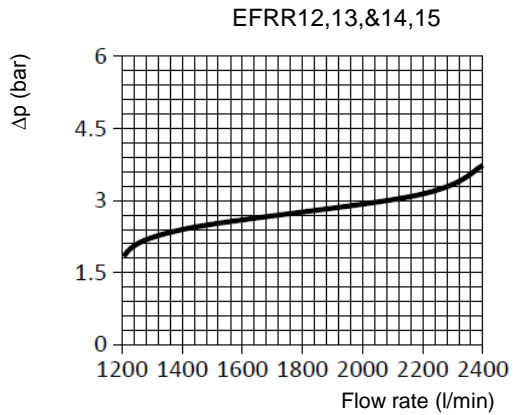
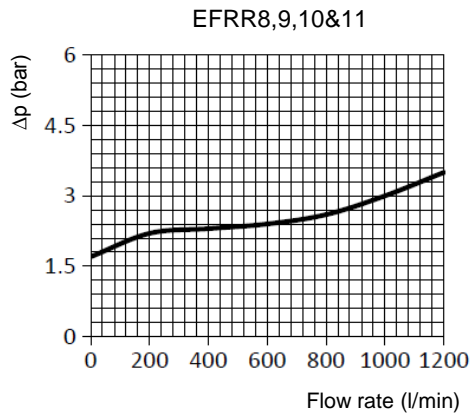
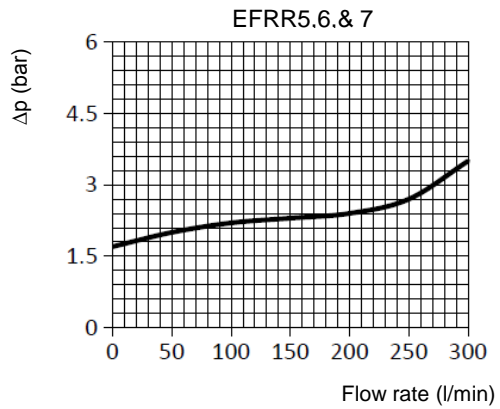
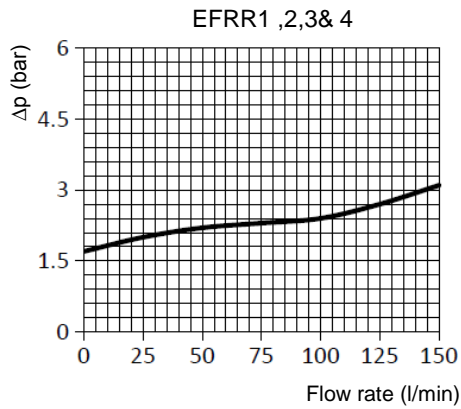
Suitable for mineral oils, lubrication oils, non-flam fluids, synthetic and rapidly biodegradable oils (for use with water or other fields please contact our technical department)

Tested according to ISO standards:

ISO2941 Collapse/burst resistance
 ISO2942 Fabrication integrity
 ISO2943 Material compatibility integrity
 ISO3723 Method for end load test
 ISO3724 Flow fatigue characteristics
 ISO3968 Pressure Drop vs. Flow Rate
 ISO16889 Multi-Pass Test

EFRR Return Filter Series

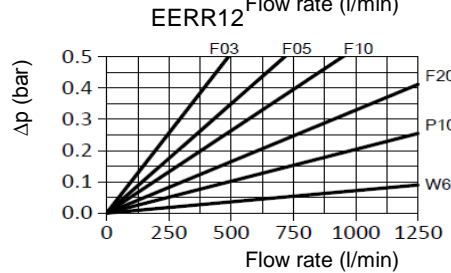
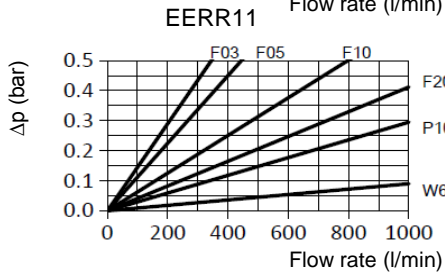
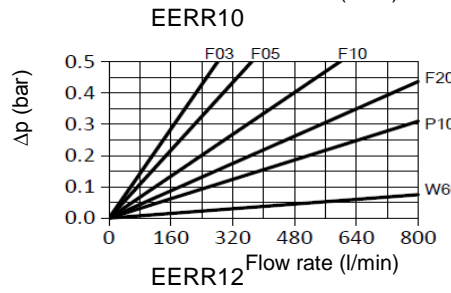
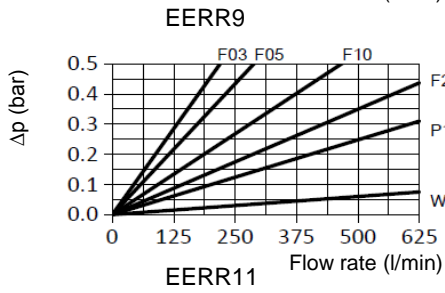
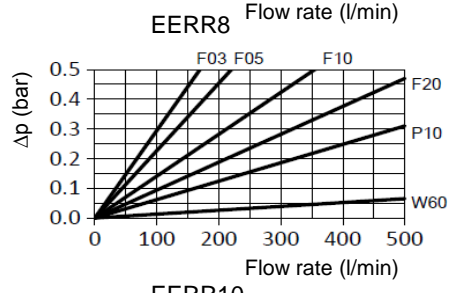
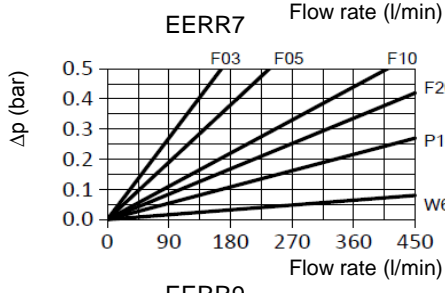
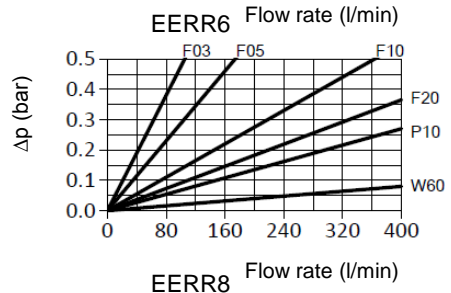
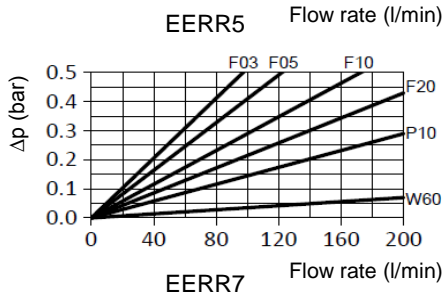
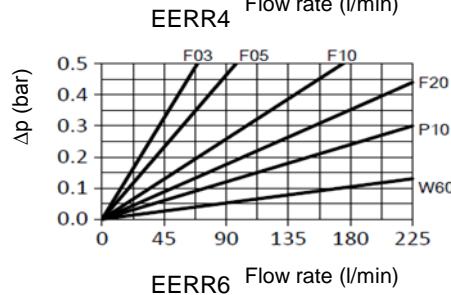
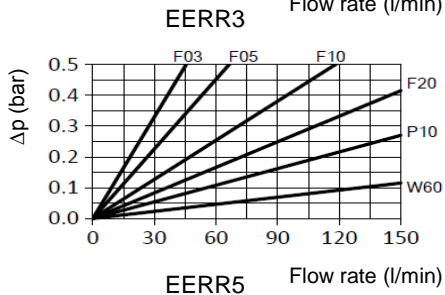
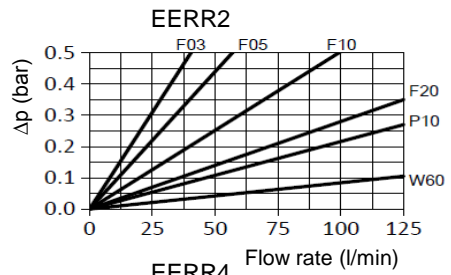
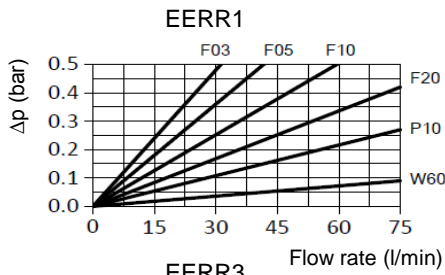
Pressure drop graph on by-pass valve



EFRR Return Filter Series

Pressure Drop Graphs (Δp)

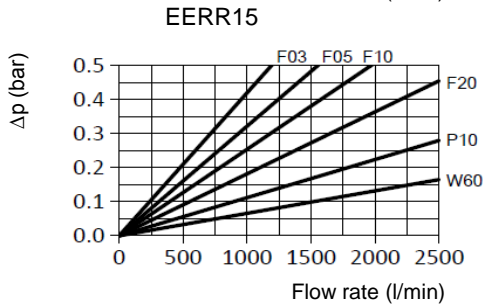
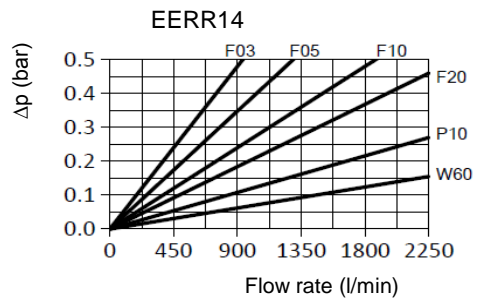
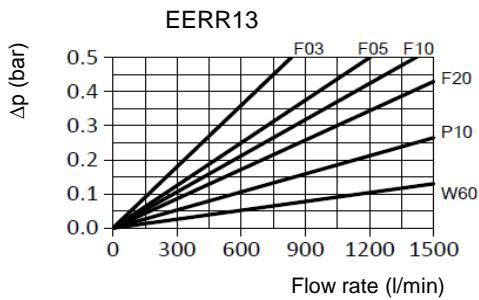
Pressure Drop with Clean Filter Elements (F ,P and W filter media)



EFRR Return Filter Series

Pressure Drop Graphs (Δp)

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

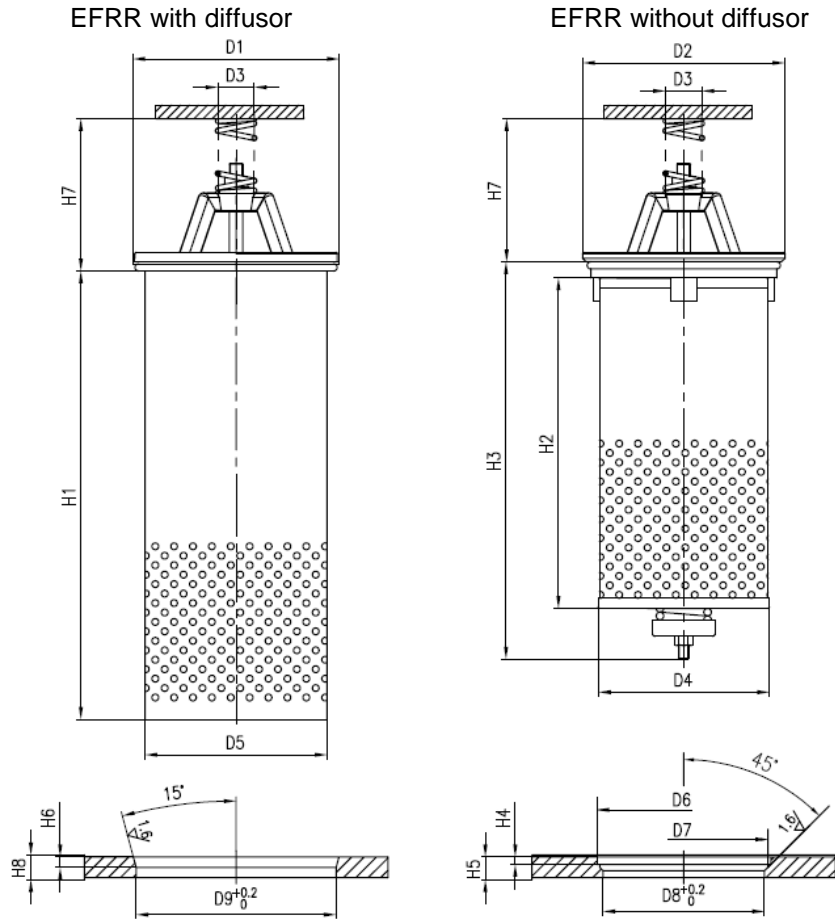


Flow rate (l/min)

Flow rate (l/min)

EFRR Return Filter Series

Technical Drawings and Dimension



| Type | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | H1 | H2 | H3 | H4 | H5 | H6 | H7 | H8 |
|--------|-----|-------|----|-----|-----|-----|-------|-----|-------|------|------|------|----|----|-----|-----|----|
| EFRR1 | 120 | 87 | 20 | 72 | 89 | 88 | 85 | 80 | 110 | 198 | 106 | 141 | 4 | 12 | 2.5 | | |
| EFRR2 | 120 | 87 | 20 | 72 | 89 | 88 | 85 | 80 | 110 | 198 | 150 | 185 | 4 | 12 | 2.5 | 62 | 12 |
| EFRR3 | 120 | 87 | 20 | 72 | 89 | 88 | 85 | 80 | 110 | 248 | 200 | 235 | 4 | 12 | 2.5 | | |
| EFRR4 | 120 | 87 | 20 | 72 | 89 | 88 | 85 | 80 | 110 | 348 | 300 | 335 | 4 | 12 | 2.5 | | |
| EFRR5 | 155 | 125.5 | 25 | 106 | 132 | 126 | 123.5 | 117 | 145 | 266 | 190 | 243 | 5 | 15 | 2.5 | | |
| EFRR6 | 155 | 125.5 | 25 | 106 | 132 | 126 | 123.5 | 117 | 145 | 336 | 260 | 313 | 5 | 15 | 2.5 | 81 | 15 |
| EFRR7 | 155 | 125.5 | 25 | 106 | 132 | 126 | 123.5 | 117 | 145 | 524 | 465 | 518 | 5 | 15 | 2.5 | | |
| EFRR8 | 185 | 150 | 25 | 126 | 165 | 151 | 149 | 139 | 178 | 300 | 210 | 275 | 5 | 18 | 2.5 | | |
| EFRR9 | 185 | 150 | 25 | 126 | 165 | 151 | 149 | 139 | 178 | 380 | 290 | 355 | 5 | 18 | 2.5 | 103 | 15 |
| EFRR10 | 185 | 150 | 25 | 126 | 165 | 151 | 149 | 139 | 178 | 480 | 390 | 455 | 5 | 18 | 2.5 | | |
| EFRR11 | 185 | 150 | 25 | 126 | 165 | 151 | 149 | 139 | 178 | 580 | 478 | 540 | 5 | 18 | 2.5 | | |
| EFRR12 | 260 | 230 | 40 | 203 | 235 | 231 | 227 | 217 | 250.5 | 425 | 330 | 405 | 6 | 20 | 2.5 | | |
| EFRR13 | 260 | 230 | 40 | 203 | 235 | 231 | 227 | 217 | 250.5 | 640 | 545 | 620 | 6 | 20 | 2.5 | 145 | 17 |
| EFRR14 | 260 | 230 | 40 | 203 | 235 | 231 | 227 | 217 | 250.5 | 920 | 825 | 900 | 6 | 20 | 2.5 | | |
| EFRR15 | 260 | 230 | 40 | 203 | 235 | 231 | 227 | 217 | 250.5 | 1185 | 1090 | 1165 | 6 | 20 | 2.5 | | |

EFRR Return Filter Series

Order Codes

| Filter Assembly Series | A | B | - | C | D | - | E | F | Element Series | A | B | D |
|------------------------|---|---|---|----|-----|---|---|---|----------------|---|---|-----|
| EFRR | 1 | B | - | 05 | P10 | - | D | M | EERR | 1 | B | P10 |

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

| | |
|----|------------|
| 1 | 100 l/min |
| 2 | 140 l/min |
| 3 | 160 l/min |
| 4 | 210 l/min |
| 5 | 250 l/min |
| 6 | 400 l/min |
| 7 | 450 l/min |
| 8 | 500 l/min |
| 9 | 650 l/min |
| 10 | 850 l/min |
| 11 | 1000 l/min |
| 12 | 1300 l/min |
| 13 | 1650 l/min |
| 14 | 2250 l/min |
| 15 | 2400 l/min |

B Seal

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

C By-pass Valve

| | |
|----|---------|
| 00 | No |
| 05 | 1.5 bar |
| X | Special |

D Media Material Filtration Collapse Pressure

| | | | |
|-----|------------|------|--------|
| P10 | Cellulose | 10µm | 10 bar |
| F05 | Fibreglass | 7µm | 10 bar |
| F10 | Fibreglass | 12µm | 10 bar |
| F20 | Fibreglass | 21µm | 10 bar |
| W25 | Wire Mesh | 25µm | 10 bar |
| W60 | Wire Mesh | 60µm | 10 bar |

E Diffusor

| Diffusor | Type |
|----------|------------------|
| D | With Diffusor |
| 0 | Without Diffusor |

F Magnet

| Magnet | Type |
|--------|----------------|
| M | With Magnet |
| 0 | Without Magnet |



EFRH Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 25 bar
- 1300 l/min max. flow rate
- installation in Tank-top or in line
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

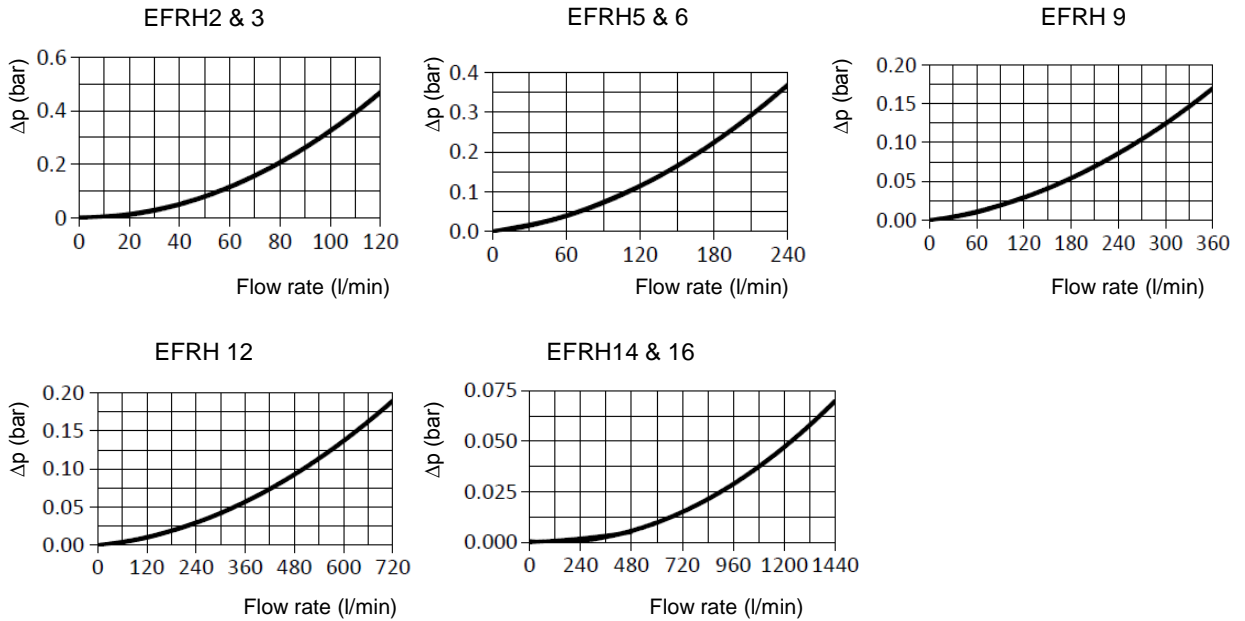
Technical Specifications

| | |
|------------------------------------|---|
| Application | Tank-top/in-line return filter |
| Port Sizes: | Threaded Connections according to BSP and NPT standard in 1-1/4" , 2" , SAE08/SAE20 threads and Flange Connections in SAE DN50/ SAE DN80 / SAE DN90 and SAE DN100 for 3000 psi |
| Flow Rate: | max. 1300 l/min |
| Operating Pressure: | max. 25 bar |
| Burst Pressure: | min. 83 bar |
| Element Collapse Pressure: | 10 bar for cellulose media 21 bar for fibreglass media 30 bar for wire mesh |
| By-pass Opening Pressure: | $\Delta p = 3 \text{ bar} \pm 10\%$ |
| Material | |
| Seals: | NBR or FPM (-10°C to 100°C) |
| Filter Head: | Steel or Aluminium |
| Filter Bowl: | Steel or Aluminium |
| 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 ISO2942 Fabrication integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate ISO16889 Multi-Pass Test |

EFRH Return Filter Series

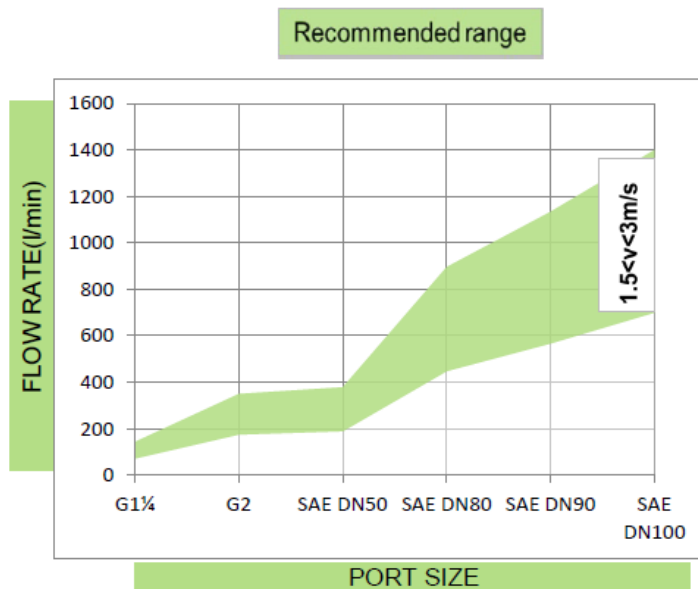
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only



Graph of oil flow velocity

(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

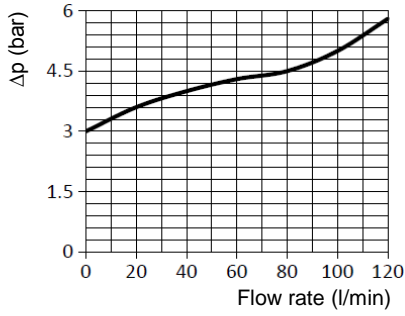


EFRH Return Filter Series

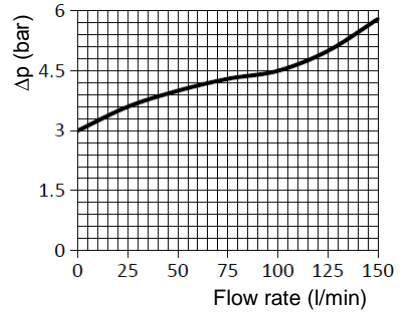
Pressure Drop Graphs (Δp)

Pressure drop graph on by-pass valve

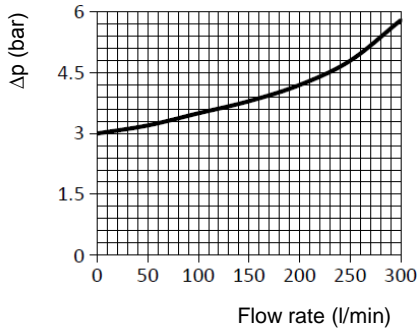
EFRH2&3



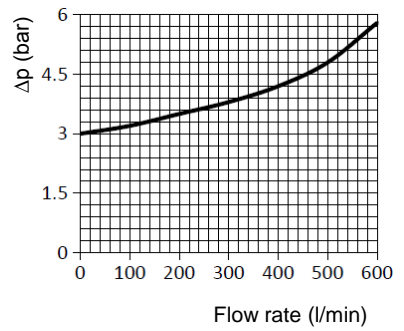
EFRH5&6



EFRH9&12



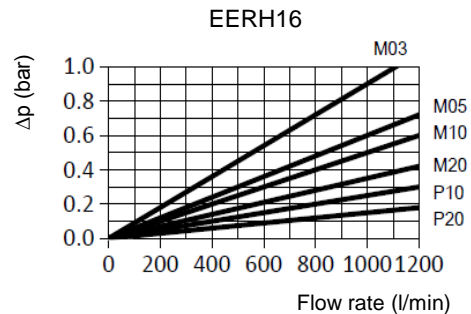
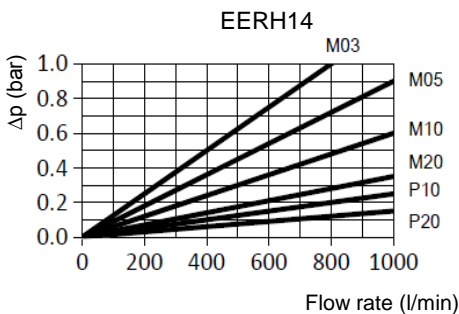
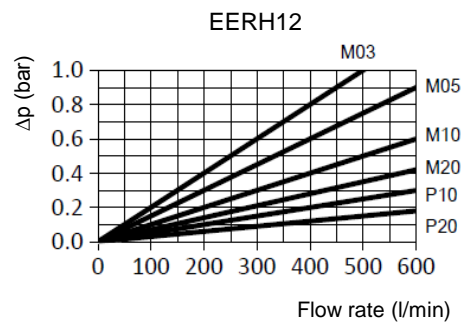
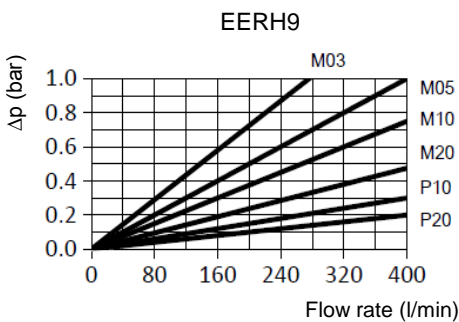
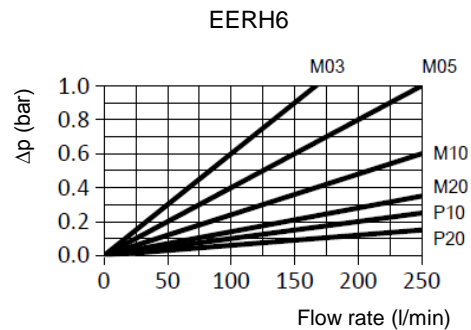
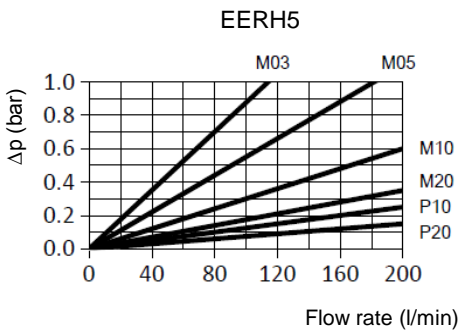
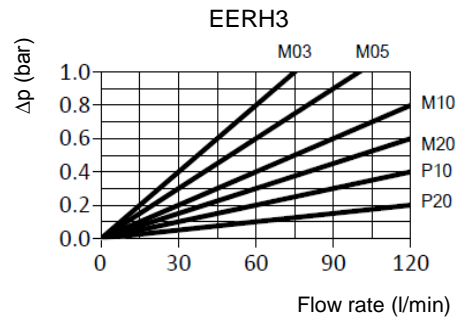
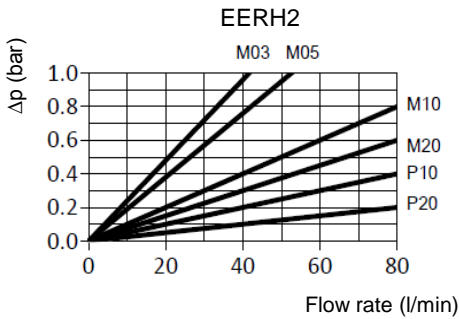
EFRH14&16



EFRH Return Filter Series

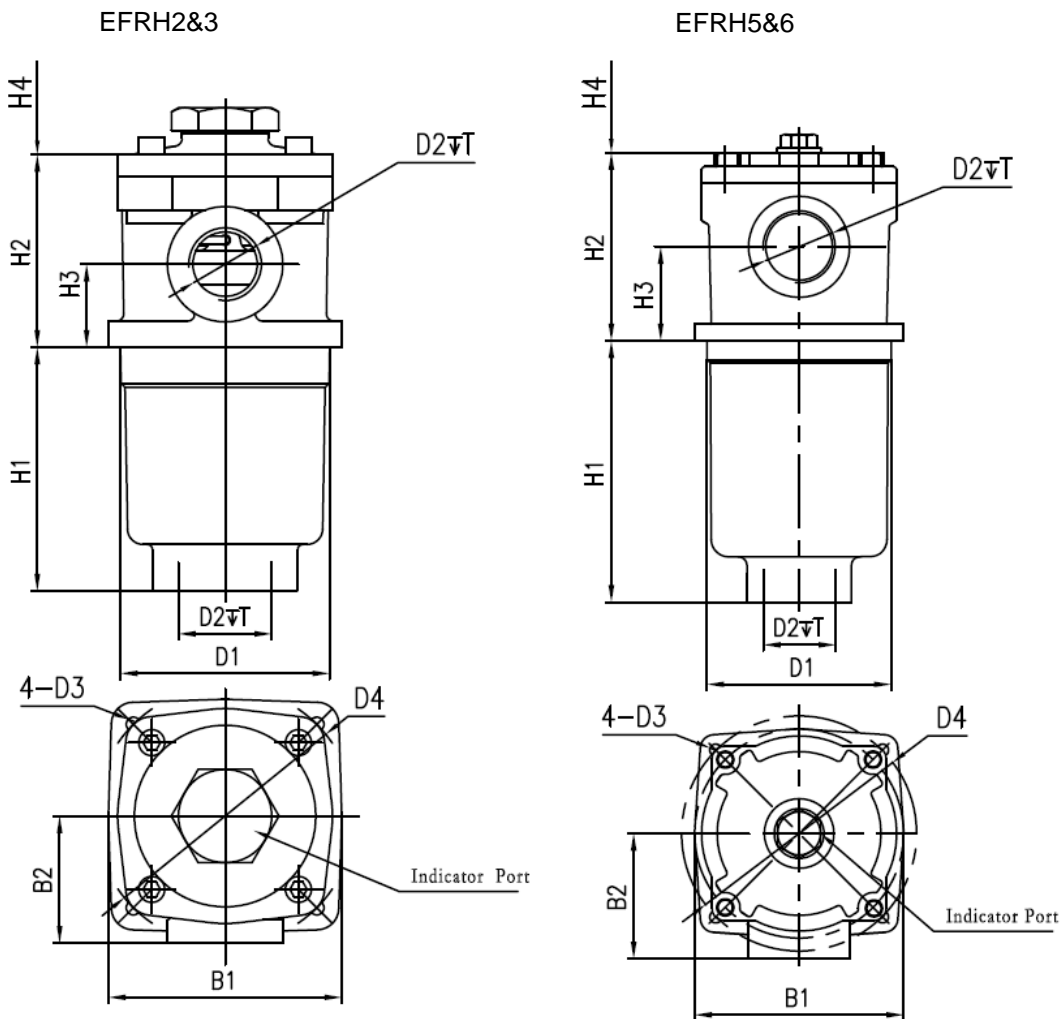
Pressure Drop Graphs (Δp)

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



EFRH Return Filter Series

Technical Drawings and Dimension



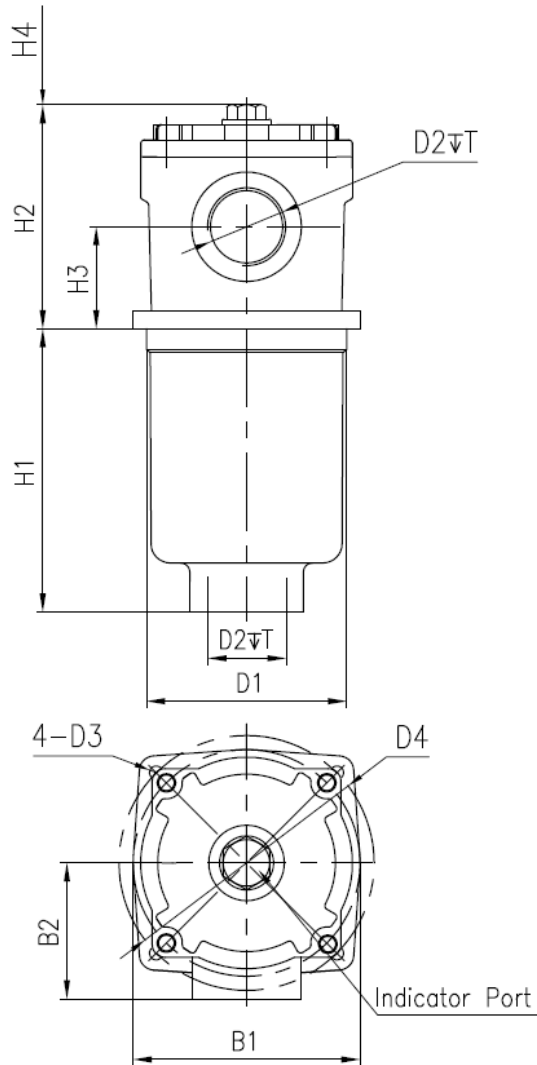
Threaded Connection Ports (Material:Aluminium)

| Type | Connection Port (BSP/NPT/SAE) | | Height | | | | | | | | |
|-------|----------------------------------|---------------|--------|-----|-----|----|----|-----|-----|----|-----|
| | mm | inch | D3 | D4 | B1 | B2 | T | H1 | H2 | H3 | H4 |
| EFRH2 | 80 | 3/4", SAE08 | 5.5 | 100 | 94 | 48 | 16 | 94 | 88 | 32 | 80 |
| EFRH3 | 80 | 3/4", SAE08 | 5.5 | 100 | 94 | 48 | 16 | 161 | 88 | 32 | 145 |
| EFRH5 | 106 | 1 1/4", SAE20 | 7 | 135 | 125 | 66 | 20 | 95 | 112 | 52 | 120 |
| EFRH6 | 106 | 1 1/4", SAE20 | 7 | 135 | 125 | 66 | 20 | 154 | 112 | 52 | 180 |

EFRH Return Filter Series

Technical Drawings and Dimension

EFRH2&6



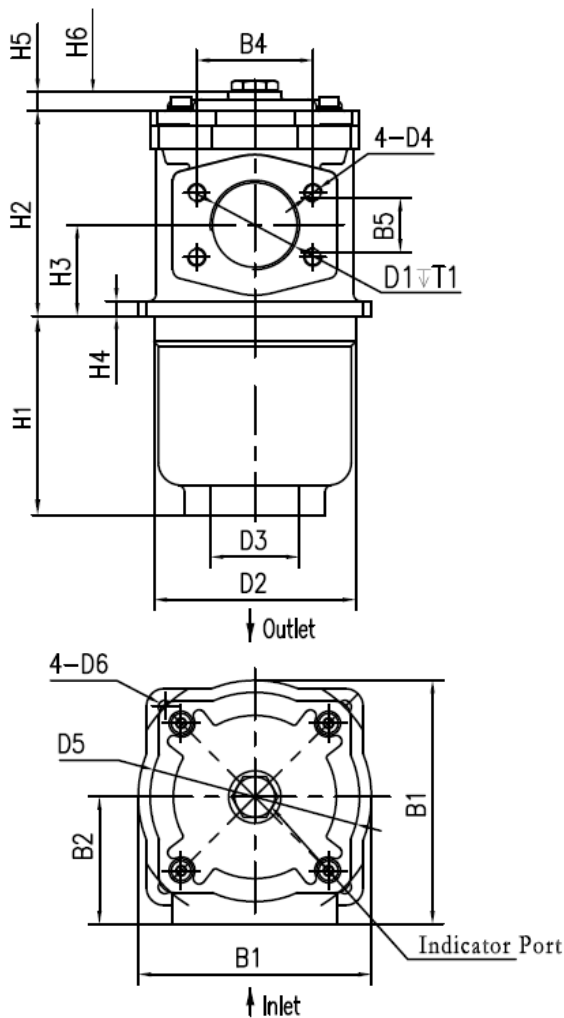
Threaded Connection Ports (Material: Steel)

| Type | Connection Port (BSP/NPT/SAE) | | Height | | | | | | | | | | |
|-------|----------------------------------|---------------|--------|-----|-----|----|----|-----|-----|----|-----|----|----|
| | mm | inch | D1 | D2 | D3 | D4 | B1 | B2 | T | H1 | H2 | H3 | H4 |
| EFRH2 | 80 | 3/4",SAE08 | 6 | 100 | 96 | 57 | 16 | 66 | 88 | 44 | 80 | | |
| EFRH3 | 80 | 3/4",SAE08 | 6 | 100 | 96 | 57 | 16 | 133 | 88 | 44 | 145 | | |
| EFRH5 | 106 | 1 1/4", SAE20 | 7 | 135 | 126 | 72 | 20 | 89 | 108 | 54 | 120 | | |
| EFRH6 | 106 | 1 1/4", SAE20 | 7 | 135 | 126 | 72 | 20 | 150 | 108 | 54 | 180 | | |

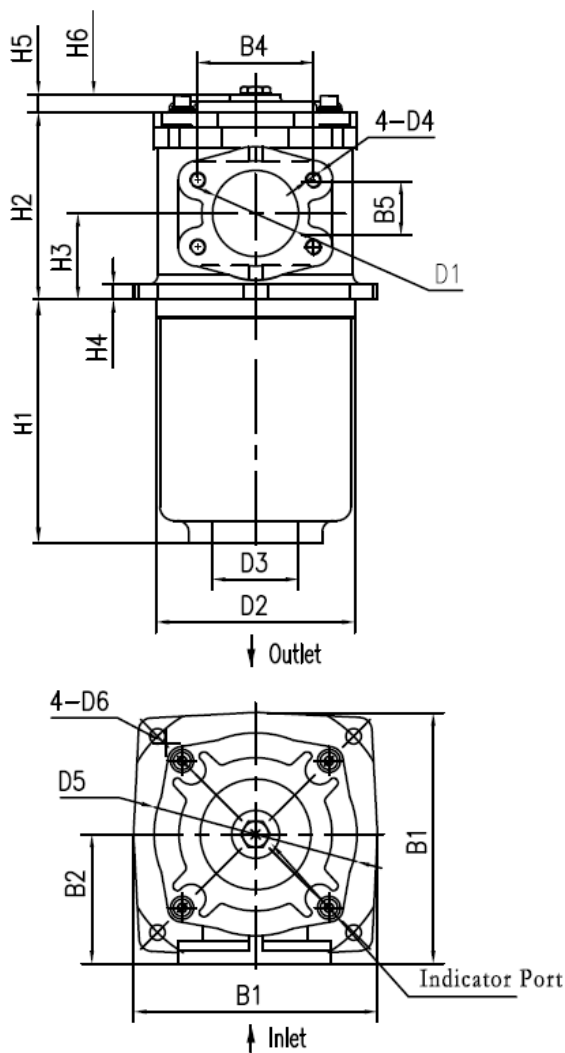
EFRH Return Filter Series

Technical Drawings and Dimension

EFRH9&12



EFRH 14&16



(Material:Aluminium)

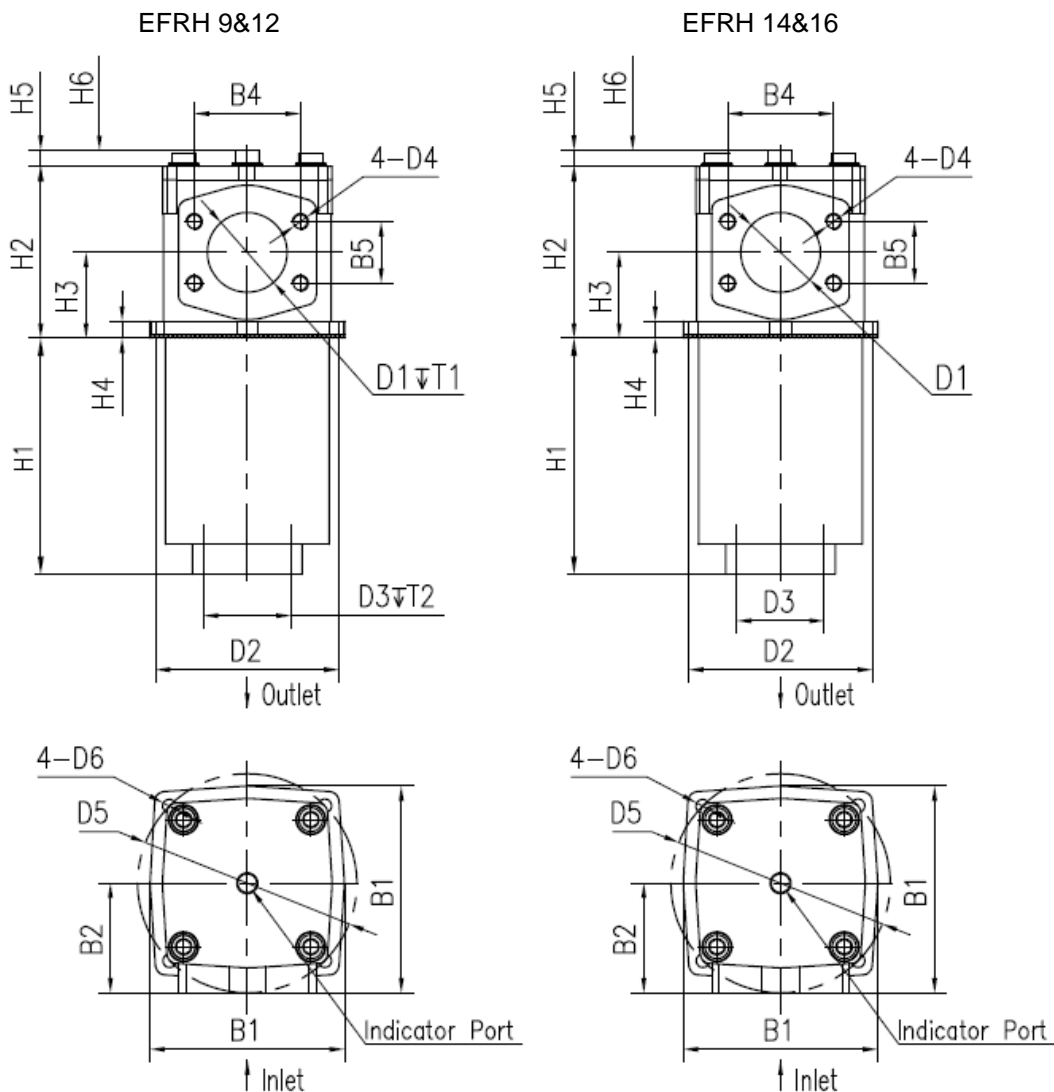
Connection Port
(BSP/NPT/SAE)
inch

Height
mm

| Type | D1 | D2 | D3 | D4 | D5 | D6 | H1 | H2 | H3 | H4 | H5 | H6 | B1 | B2 | B4 | B5 | T1 | T2 |
|--------|-----------------------------|-----|-----------------------------|-----|-----|----|-----|-----|-----|----|------|-----|-------|-----|-------|------|----|----|
| EFRH9 | 2" SAE DN50 (2") | 156 | 2" | M12 | 170 | 9 | 133 | 137 | 61 | 10 | 20.5 | 180 | 163 | 85 | 77.8 | 42.9 | 27 | 27 |
| EFRH12 | 3" SAE DN80 (3") | 200 | 3" SAE DN80 (3") | M12 | 220 | 9 | 245 | 166 | 81 | 14 | 20.5 | 320 | 210 | 110 | 106.4 | 61.9 | 28 | 28 |
| EFRH14 | 3 1/2" SAE DN90 (3 1/2") | 255 | 3 1/2" SAE DN90 (3 1/2") | M16 | 290 | 18 | 254 | 195 | 90 | 16 | 22.5 | 385 | 262.5 | 135 | 120.7 | 69.9 | - | - |
| EFRH16 | 4" SAE DN100 (4") | 255 | 4" SA EDN100 (4") | M16 | 290 | 18 | 335 | 238 | 118 | 16 | 22.5 | 485 | 272.5 | 145 | 130.2 | 77.8 | - | - |

EFRH Return Filter Series

Technical Drawings and Dimension



(Material: Steel)

Connection Port
(BSP/NPT/SAE)
inch

Height
mm

| Type | D1 | D2 | D3 | D4 | D5 | D6 | H1 | H2 | H3 | H4 | H5 | H6 | T1 | T2 | B1 | B2 | B4 | B5 |
|--------|-------------------------|-----|-----------------|-----|-----|-----|-------|-----|-----|----|----|-----|----|----|-----|-----|-------|------|
| EFRH9 | 2" SAE DN 50 3000psi | 135 | G 2" | M12 | 170 | M8 | 139 | 130 | 63 | 13 | 12 | 180 | 27 | 27 | 150 | 85 | 77.8 | 42.9 |
| EFRH12 | SAE DN 80 3000psi | 180 | G 3" | M16 | 220 | M12 | 246 | 203 | 83 | 13 | 8 | 320 | 28 | 28 | 195 | 110 | 106.4 | 61.9 |
| EFRH14 | SAE DN 90 3000psi | 208 | SAE DN 90 (3½") | M16 | 290 | M16 | 252.5 | 225 | 93 | 13 | 8 | 385 | - | - | 250 | 135 | 120.7 | 69.9 |
| EFRH16 | SAE DN 100 3000psi | 208 | SAE DN 100 (4") | M16 | 290 | M16 | 330.5 | 269 | 121 | 13 | 8 | 485 | - | - | 250 | 145 | 130.2 | 77.8 |

EFRH Return Filter Series

Order Codes

| Filter Assembly Series | A | B | C | - | D | E | - | F | G | Element Series | A | C | D | E |
|------------------------|---|----|---|---|----|-----|---|-----|-----|----------------|---|---|----|-----|
| EFRH | 5 | BE | B | - | 08 | P10 | - | 2RE | /AL | EERH | 5 | B | 08 | P10 |

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

| | |
|----|------------|
| 2 | 60 l/min |
| 3 | 110 l/min |
| 5 | 160 l/min |
| 6 | 240 l/min |
| 9 | 330 l/min |
| 12 | 660 l/min |
| 14 | 950 l/min |
| 16 | 1300 l/min |

B Connection Ports

| | |
|-----|---------------------|
| BC | BSP ¾" |
| BE | BSP 1-¼" |
| BH | BSP 2" |
| NC | NPT ¾" |
| NE | NPT 1-¼" |
| NH | NPT 2" |
| A08 | SAE08 |
| A20 | SAE20 |
| FF | SAE DN50 (3000psi) |
| FH | SAE DN80 (3000psi) |
| FK | SAE DN90 (3000psi) |
| FL | SAE DN100 (3000psi) |

C Seal

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

D By-pass Valve

| | |
|----|---------|
| 00 | No |
| 08 | 3bar |
| 11 | 6bar |
| X | Special |

E Media Material Filtration Collapse Pressure

| | | | |
|------|------------|-------|--------|
| P10 | Cellulose | 10µm | 10 bar |
| P20 | Cellulose | 20µm | 10 bar |
| M03 | Fibreglass | 5µm | 21bar |
| M05 | Fibreglass | 7µm | 21 bar |
| M10 | Fibreglass | 12µm | 21 bar |
| M20 | Fibreglass | 21µm | 21 bar |
| Y25 | Wire Mesh | 25µm | 30 bar |
| Y60 | Wire Mesh | 60µm | 30 bar |
| Y90 | Wire Mesh | 90µm | 30 bar |
| Y125 | Wire Mesh | 125µm | 30 bar |

F Indicator

| Indicator | Pressure | Type | Connection |
|-----------|----------|------------|---------------|
| 00 | - | None | - |
| 2RE | 2bar | Electrical | BSP ½" Thread |
| 5PE | 5bar | Electrical | BSP ½" Thread |

G Shell Material

| | |
|-----|-----------|
| | Steel |
| /AL | Aluminium |



EFRL Series

EVOTEK Return Filters

Product Description

- Operating pressure up to 16 bar
- 990 l/min max. flow rate
- installation in Tank-top
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Tank-top return filter

Port Sizes:

Threaded Connections according to BSP and NPT standard in 1-½" and SAE24

Flange Connections in SAE DN40/ SAE DN65/ SAE DN90 for 3000psi

Flow Rate:

max. 990 l/min

Operating Pressure:

max. 16bar

Burst Pressure:

min. 48 bar

Element Collapse Pressure:

10 bar

By-pass Opening Pressure:

$\Delta p = 4 \text{ bar} \pm 10\%$

Material

Seals:

NBR or FPM (-10°C to 100°C)

Filter Head:

Aluminium

Filter Bowl:

Aluminium

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

ISO2942 Fabrication integrity

ISO2943 Material compatibility integrity

ISO3723 Method for end load test

ISO3724 Flow fatigue characteristics

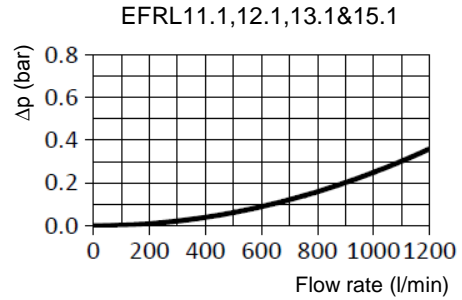
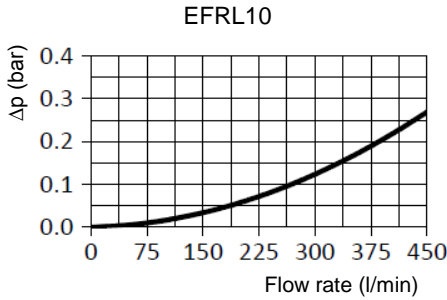
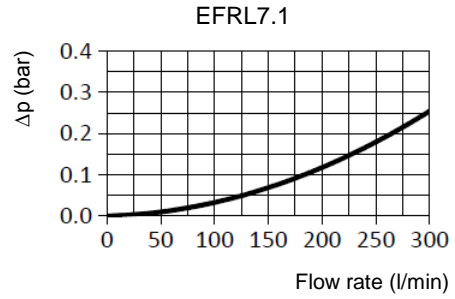
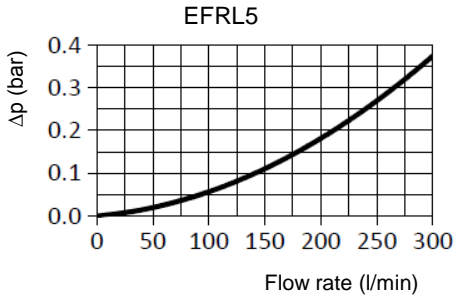
ISO3968 Pressure Drop vs. Flow Rate

ISO16889 Multi-Pass Test

EFRL Return Filter Series

Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

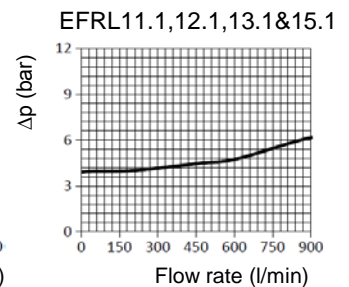
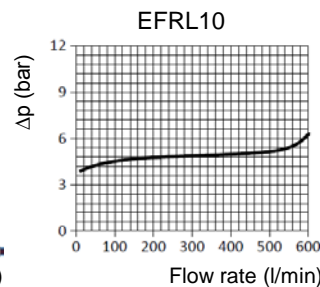
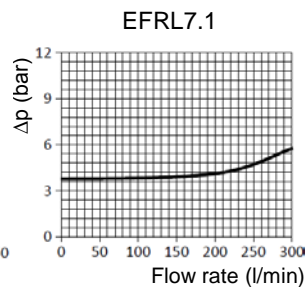
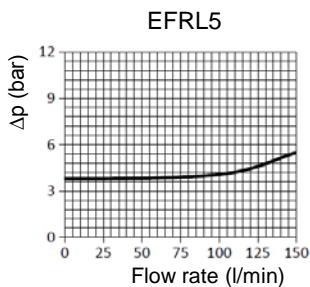


Graph of oil flow velocity

(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)



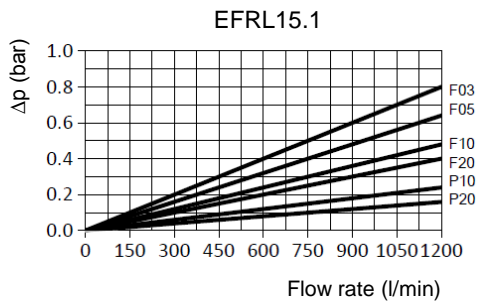
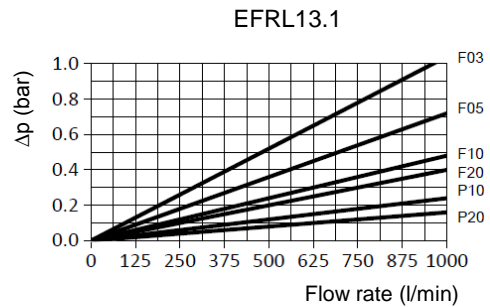
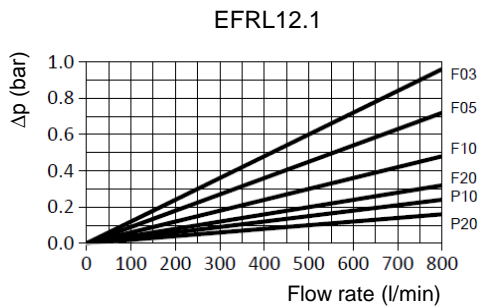
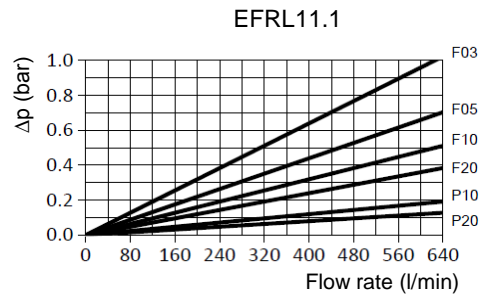
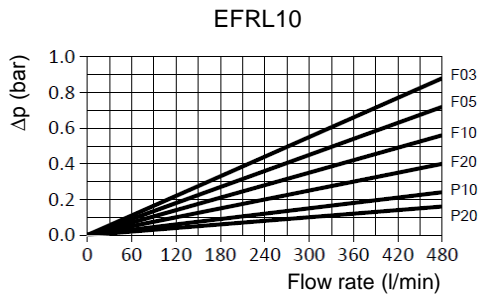
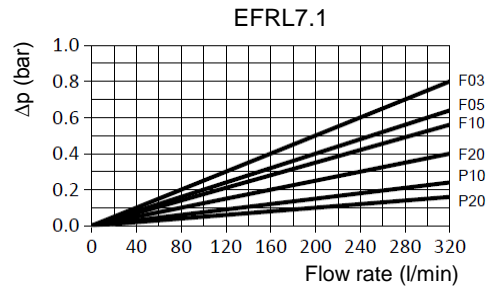
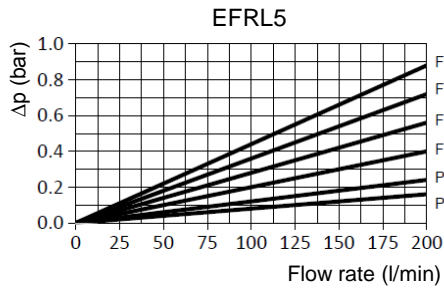
Pressure drop graph on by-pass valve



EFRL Return Filter Series

Pressure Drop Graphs (Δp)

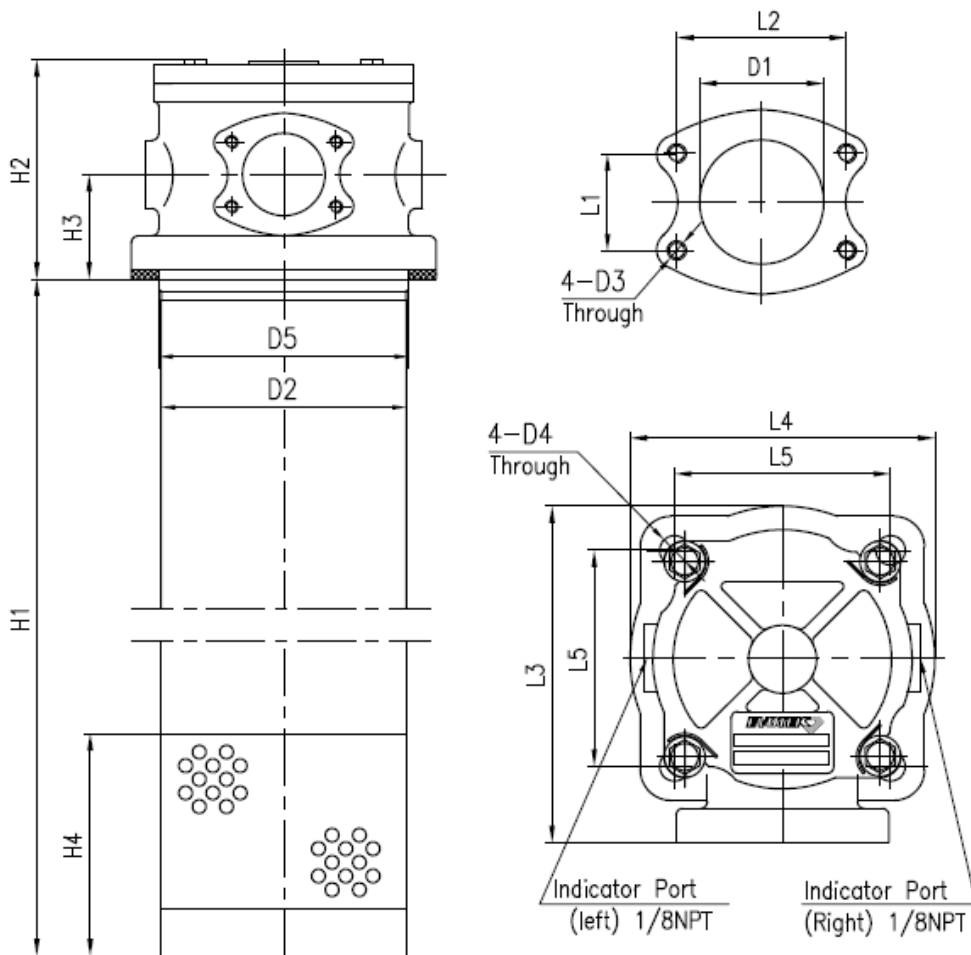
Pressure Drop with Clean Filter Elements (F and P filter media)



EFRL Return Filter Series

Technical Drawings and Dimension

RETURN FILTERS
EFRL



Threaded Connection Ports

Connection Port
(BSP/NPT/SAE)
inch

| Type | D1 | D2 | D3 | D4 | D5 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | L5 |
|----------|-------------------|-----|-----|----|-----|-----|-----|----|-----|------|-------|-----|-----|-----|
| EFRL5 | 1½" ,SAE24 | 104 | - | 13 | 110 | 319 | 102 | 40 | 80 | - | - | 152 | 134 | 95 |
| EFRL7.1 | SAE DN 40 3000psi | 104 | M10 | 13 | 110 | 419 | 102 | 40 | 80 | 35.7 | 69.9 | 152 | 134 | 95 |
| EFRL10 | SAE DN 65 3000psi | 124 | M10 | 13 | 130 | 463 | 127 | 55 | 90 | 50.8 | 88.9 | 169 | 158 | 110 |
| EFRL11.1 | | | | | | 626 | | | | | | | | |
| EFRL12.1 | | | | | | 488 | | | | | | | | |
| EFRL13.1 | SAE DN 90 3000psi | 154 | M10 | 13 | 160 | 598 | 164 | 70 | 100 | 69.9 | 120.6 | 206 | 192 | 140 |
| EFRL15.1 | | | | | | 779 | | | | | | | | |

EFRL Return Filter Series

Order Codes

| Filter Assembly Series | A | B | C | D | - | E | - | F | G | Element Series | A | D | E |
|------------------------|------|----|----|---|---|-----|---|-----|---|----------------|----|---|-----|
| EFRL | 12.1 | FK | 10 | B | - | P10 | - | R35 | R | EERL | 12 | B | P10 |

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

| | |
|------|-----------|
| 5 | 160 l/min |
| 7.1 | 250 l/min |
| 10 | 400 l/min |
| 11.1 | 500 l/min |
| 12.1 | 660 l/min |
| 13.1 | 850 l/min |
| 15.1 | 990 l/min |

B Connection Ports

| | |
|-----|--------------------|
| A24 | SAE24 |
| BF | BSP 1-1/2" |
| FE | SAE DN40 (3000psi) |
| FG | SAE DN65 (3000psi) |
| FK | SAE DN90 (3000psi) |

C By-pass Valve

| | |
|----|---------|
| 10 | 4 bar |
| X | Special |

D Seal

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

E Media Material Filtration Collapse Pressure

| | | | |
|------|------------|-------|--------|
| P10 | Cellulose | 10µm | 10 bar |
| P20 | Cellulose | 20µm | 10 bar |
| F03 | Fibreglass | 5µm | 10 bar |
| F05 | Fibreglass | 7µm | 10 bar |
| F10 | Fibreglass | 12µm | 10 bar |
| F20 | Fibreglass | 21µm | 10 bar |
| W25 | Wire Mesh | 25µm | 10 bar |
| W60 | Wire Mesh | 60µm | 10 bar |
| W90 | Wire Mesh | 90µm | 10 bar |
| W125 | Wire Mesh | 125µm | 10 bar |

F Indicator

| | No | Connection |
|-----|-------------------------|---------------|
| PA | 0~10bar Pressure gauge | 1/8NPT Thread |
| R35 | 3.5 bar Pressure Switch | 1/8NPT Thread |

G Indicator Mounting position

| | |
|---|-------|
| R | Right |
| L | Left |

Notes
