



EFPS Series

EVOTEK Low Pressure Filters

Product Description

- Operating pressure up to 12 bar
- 250 l/min max. flow rate
- installation in pressure line
- application in Mobile Equipment, Hydrostatic Drives, Power Units, and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Port Sizes:

Flow Rate:

Operating Pressure:

Burst Pressure:

Element Collapse Pressure:

By-pass Opening Pressure:

Material

Seals:

Filter Head:

Filter Bowl:

Compatibility:

Tested according to ISO standards:

Inline Pressure Filter

Threaded Connections according to BSP and NPT standard in ¾" & 1¼" and SAE12/ SAE20 threads

max. 250 l/min

max. 12 bar

min. 25 bar

4 bar

$\Delta p = 1.7 \text{ bar} + 0.3 \text{ bar}$

NBR or FPM (-10°C to 100°C)

Aluminum

Sheet steel

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)

ISO2941 Collapse/burst resistance

ISO2942 Fabrication integrity

ISO2943 Material compatibility integrity

ISO3723 Method for end load test

ISO3724 Flow fatigue characteristics

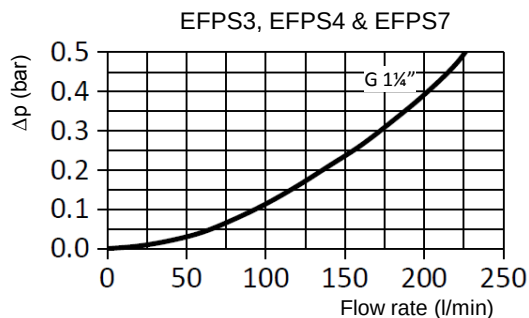
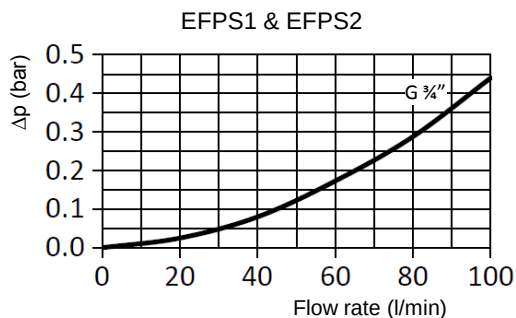
ISO3968 Pressure Drop vs. Flow Rate

ISO16889 Multi-Pass Test

EFPS Low Pressure Filter Series

Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

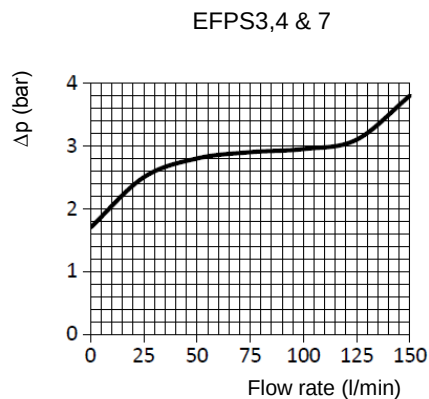
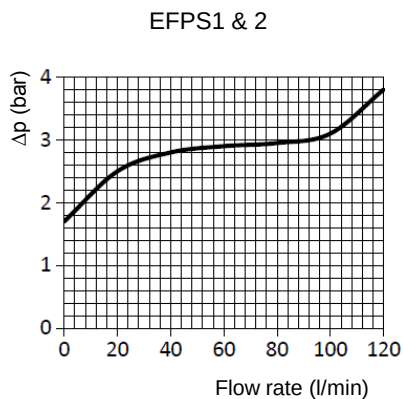


Graph of oil flow velocity

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



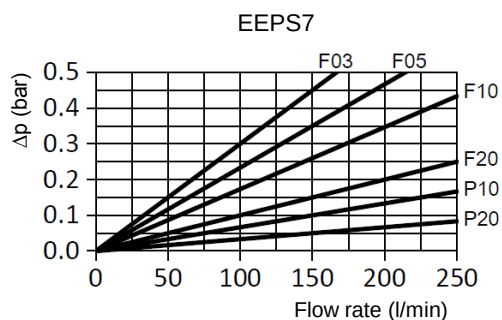
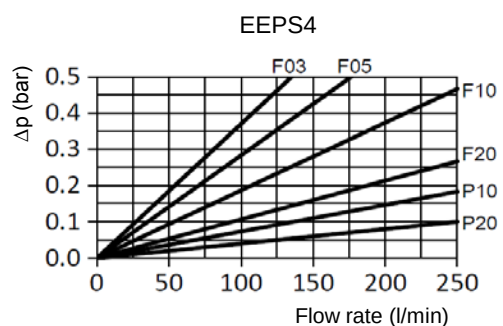
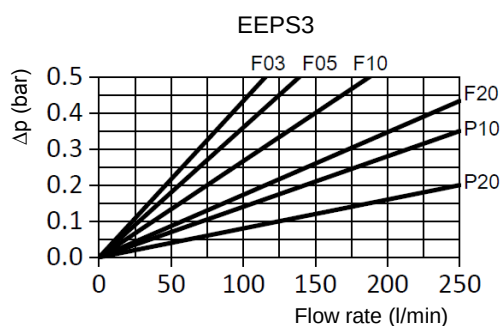
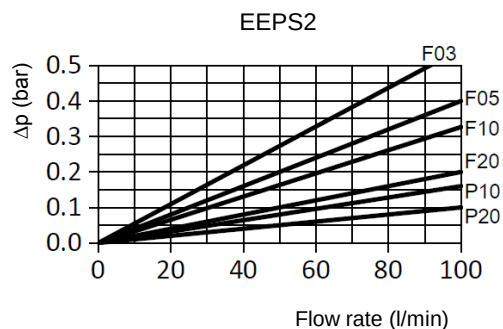
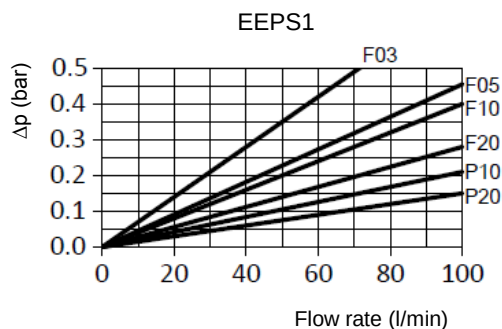
Pressure drop graph on by-pass valve



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Pressure Drop Graphs (Δp)

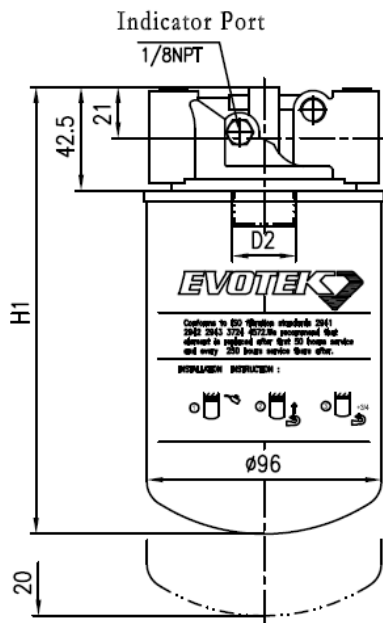
Pressure Drop with Clean Filter Elements (F and P filter media)



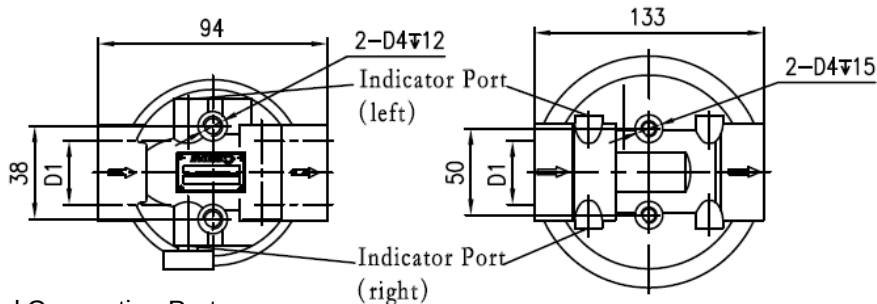
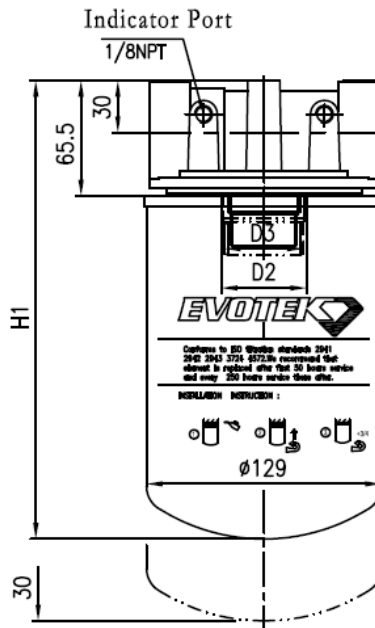
EFPS Low Pressure Filter Series

Technical Drawings and Dimension

EFPS1 & EFPS2



EFPS3, EFPS4 & EFPS7



Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE) inch				Height mm
EFPS1BC	D1 G 3/4"	D2 G 3/4"	D3 -	D4 M8	H1 188
EFPS1NC	3/4" NPT	1" - 12UNF	-	5/16-18UN	188
EFPS1A12	SAE12	1" - 12UNF	-	5/16-18UN	188
EFPS2BC	D1 G 3/4"	D2 G 3/4"	D3 -	D4 M8	H1 234
EFPS2NC	3/4" NPT	1" - 12UNF	-	5/16-18UN	234
EFPS2A12	SAE12	1" - 12UNF	-	5/16-18UN	234
EFPS3BE	D1 G 1 1/4"	D2 G 1 1/4"	D3 -	D4 M8	H1 248
EFPS3NE	1 1/4" NPT	-	1 1/2" - 16UN	5/16-18UN	240
EFPS3A20	SAE20	-	1 1/2" - 16UN	5/16-18UN	240
EFPS4BE	D1 G 1 1/4"	D2 G 1 1/4"	D3 -	D4 M8	H1 293
EFPS4NE	1 1/4" NPT	-	1 1/2" - 16UN	5/16-18UN	335
EFPS4A20	SAE20	-	1 1/2" - 16UN	5/16-18UN	335
EFPS7BE	D1 G 1 1/4"	D2 G 1 1/4"	D3 -	D4 M8	H1 375

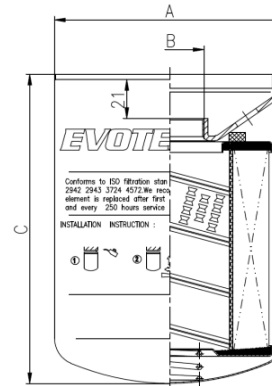
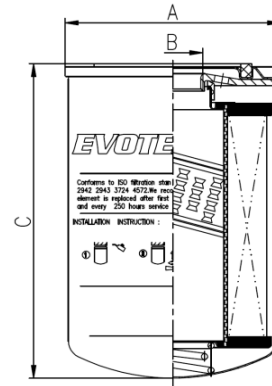
EFPS Low Pressure Filter Series

Technical Drawings and Dimension

ELEMENT

Type	Connection Port (BSP/UN)	Diameter	Height
	inch	mm	mm
EEPS1-B	G ¾"	96	146
EEPS2-B	G ¾"	96	191
EEPS1-U	1"-12 UNF-2B	96	146
EEPS2-U	1"-12 UNF-2B	96	191
EEPS3-B	G 1¼"	129	181
EEPS4-B	G 1¼"	129	226
EEPS7-B	G 1¼"	129	308

Type	Connection Port (UN)	Diameter	Height
	inch	mm	mm
EEPS3-U	1½" 16-UN	128	175
EEPS4-U	1½" 16-UN	128	270



EFPS Low Pressure Filter Series

Order Codes

Filter Assembly Series A B C - D E - F G

EFPS 1 BC 00 - B F20 - PZ R

Element Series A - See prev. page E D

EEPS 1 - B (BSP) / U (UN) 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

1	80 l/min
2	100 l/min
3	180 l/min
4	210 l/min
7	250 l/min

B Connection Ports

A12 SAE12

A20 SAE20

BC BSP ¾"

BE BSP 1½"

NC NPT ¾"

NE NPT 1½"

C By-pass Valve

00	No
06	1.7 bar
X	special

D Seal

B	NBR
V	FPM

E Media Material Filtration Collapse Pressure

P10	Cellulose	10µm	4 bar
P20	Cellulose	20µm	4 bar
F03	Fibreglass	5µm	4 bar
F05	Fibreglass	7µm	4 bar
F10	Fibreglass	12µm	4 bar
F20	Fibreglass	21µm	4 bar
W60	Wire Mesh	60µm	4 bar
W90	Wire Mesh	90µm	4 bar

F Indicator Connection

00	No	
PZ	0~4 bar Axial pressure gauge	1/8NPT Thread
R15	1.5 bar Pressure switch	1/8NPT Thread

G Indicator Mounting position

R	Right
L	Left