



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

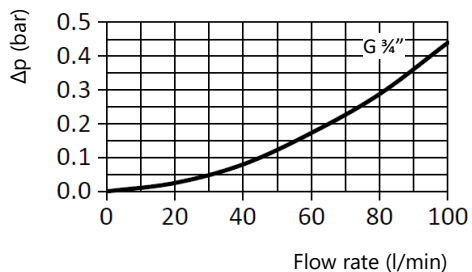
Application	Inline Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in ¾" & 1¼" and SAE12/ SAE20 threads
Flow Rate:	max. 250 l/min
Operating Pressure:	max. 12 bar
Burst Pressure:	min. 25 bar
Element Collapse Pressure:	4 bar
By-pass Opening Pressure:	$\Delta p=1.7 \text{ bar} + 0.3\text{bar}$
Material	
Seals:	NBR or FPM (-10°C to 100°C)
Filter Head:	Aluminium
Filter Bowl:	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 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

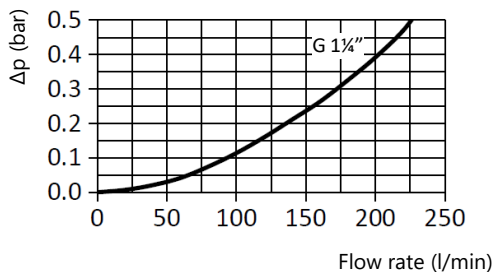
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFPS1 & EFPS2



EFPS3, EFPS4 & EFPS7



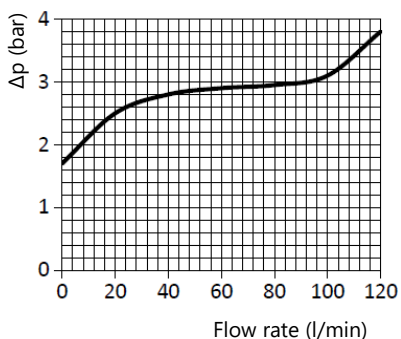
Graph of oil flow velocity

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

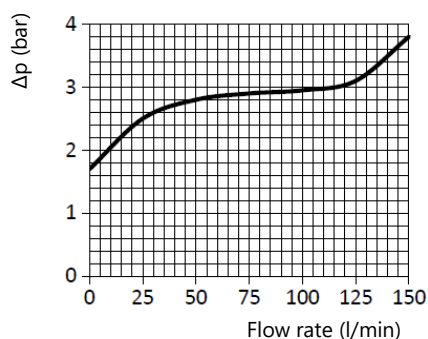


Pressure drop graph on by-pass valve

EFPS1 & 2



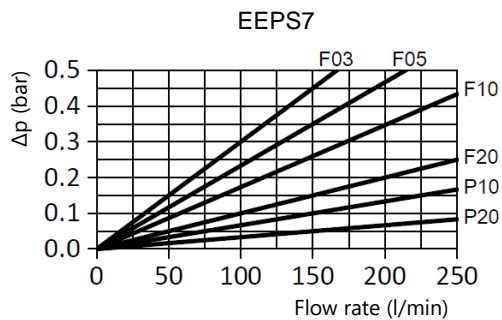
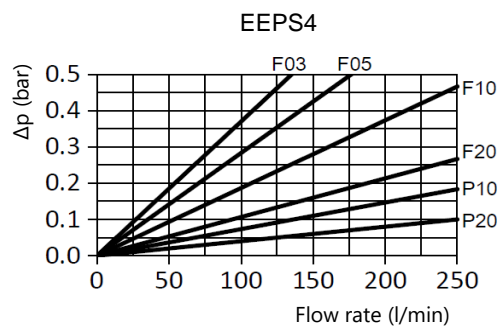
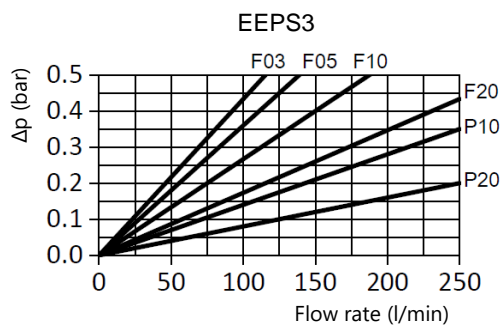
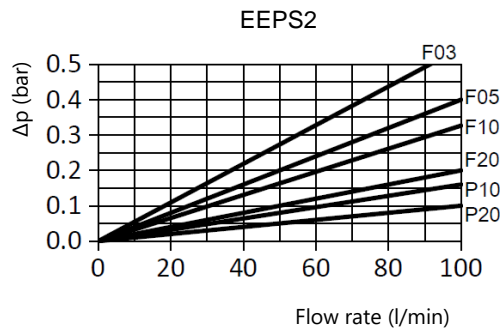
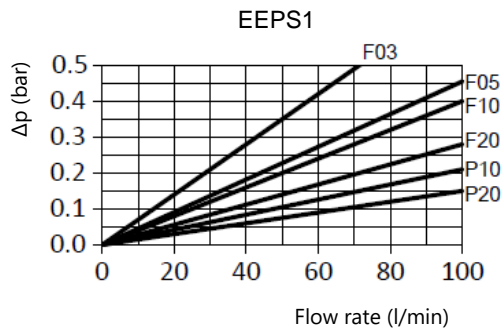
EFPS3,4 & 7



EEPS Low Pressure Filter Series

Pressure Drop Graphs (Δp)

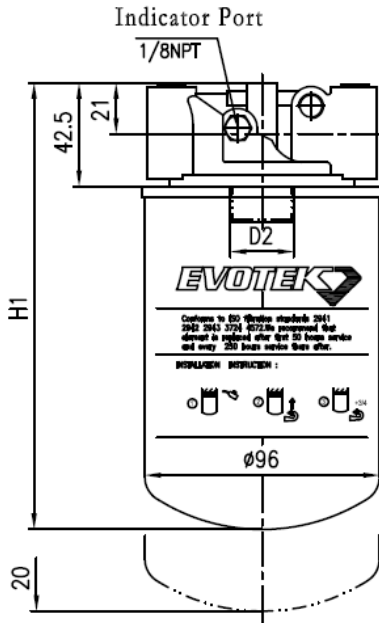
Pressure Drop with Clean Filter Elements (F and P filter media)



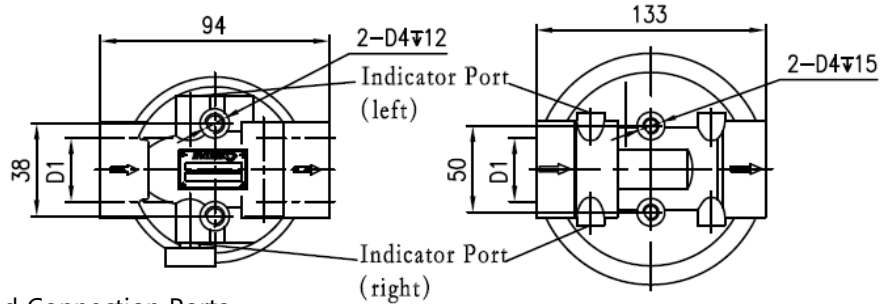
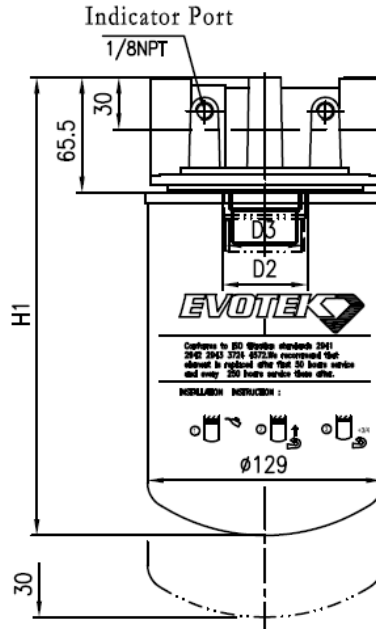
EFPS Low Pressure Filter Series

Technical Drawings and Dimension

EFPS1 & EFPS2



EFPS3, EFPS4 & EFPS7



Threaded Connection Ports

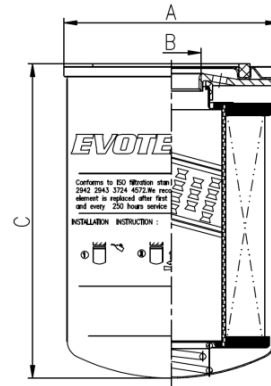
Type	Connection Port (BSP/NPT/SAE)				Height mm
	D1 inch	D2	D3	D4	
EFPS1BC	G 3/4"	G 3/4"	-	M8	188
EFPS1NC	3/4" NPT	1" - 12UNF	-	5/16-18UN	188
EFPS1A12	SAE12	1" - 12UNF	-	5/16-18UN	188
EFPS2BC	G 3/4"	G 3/4"	-	M8	234
EFPS2NC	3/4" NPT	1" - 12UNF	-	5/16-18UN	234
EFPS2A12	SAE12	1" - 12UNF	-	5/16-18UN	234
EFPS3BE	G 1 1/4"	G 1 1/4"	-	M8	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	G 1 1/4"	G 1 1/4"	-	M8	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	G 1 1/4"	G 1 1/4"	-	M8	375

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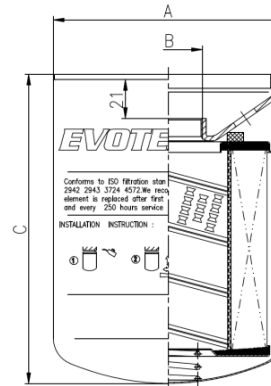
Technical Drawings and Dimension

ELEMENT

Type	Connection Port (BSP/UN)	Diameter	Height
	inch	mm	mm
	B	A	C
EEPS1-B	G 3/4"	96	146
EEPS2-B	G 3/4"	96	191
EEPS1-U	1"-12 UNF-2B	96	146
EEPS2-U	1"-12 UNF-2B	96	191
EEPS3-B	G 1 1/4"	129	181
EEPS4-B	G 1 1/4"	129	226
EEPS7-B	G 1 1/4"	129	308



Type	Connection Port (UN)	Diameter	Height
	inch	mm	mm
	B	A	C
EEPS3-U	1 1/2" 16-UN	128	175
EEPS4-U	1 1/2" 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 3/4"
BE	BSP 1 1/4"
NC	NPT 3/4"
NE	NPT 1 1/4"

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