



EFPP 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

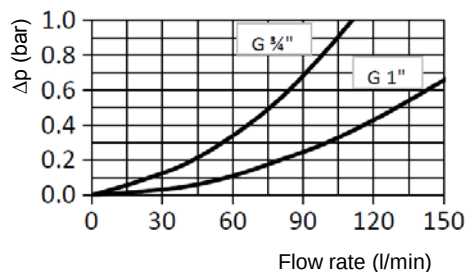
Application	Inline Low Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in 3/8" to 1 1/4" inch and SAE12/ SAE16/ SAE20 threads
Flow Rate:	max. 190 l/min
Operating Pressure:	EFPP3,4,5,6 max. 35 bar EFPP7,8 max. 24 bar
Burst Pressure:	EFPP3,4,5,6 min. 70 bar EFPP7,8 min. 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 (-10°C to 100°C)
Filter Head:	Aluminum
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

EFPF Low Pressure Filter Series

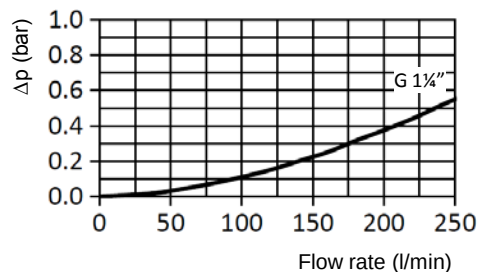
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFPF3, 4, 5, & 6



EFPF7 & 8



Graph of oil flow velocity

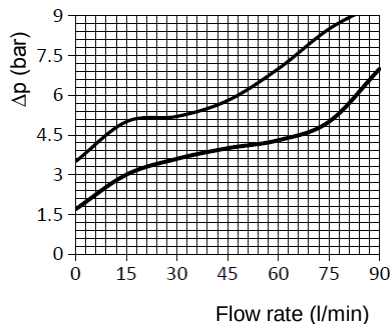
(we recommend to select size of the filter considering range of oil velocity between 3 to 6 m/s for pressure series)

Recommended range

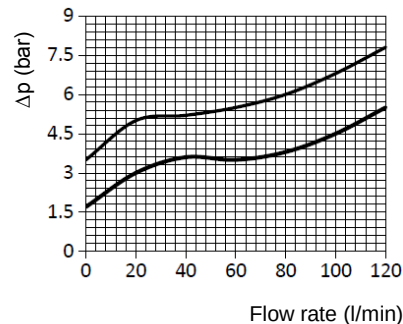


Pressure drop graph on by-pass valve

EFPF3, 4, 5 & 6



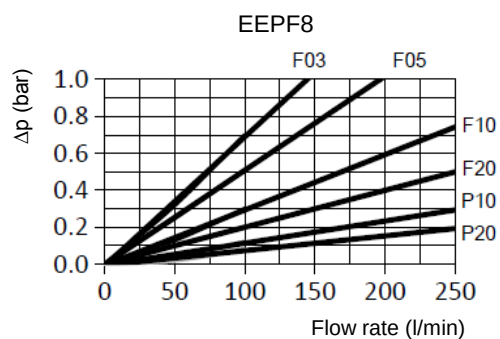
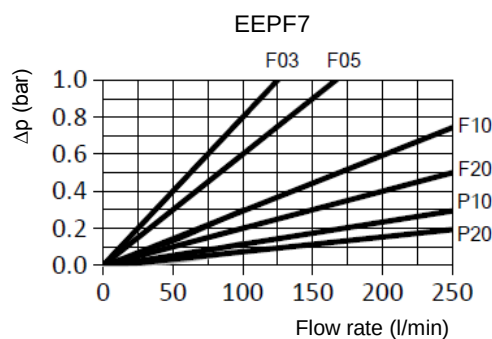
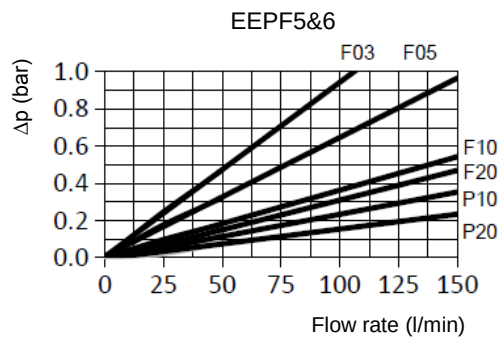
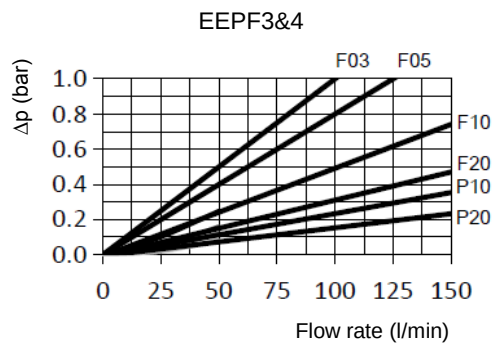
EFPF7 & 8



EEPPF Low Pressure Filter Series

Pressure Drop Graphs (Δp)

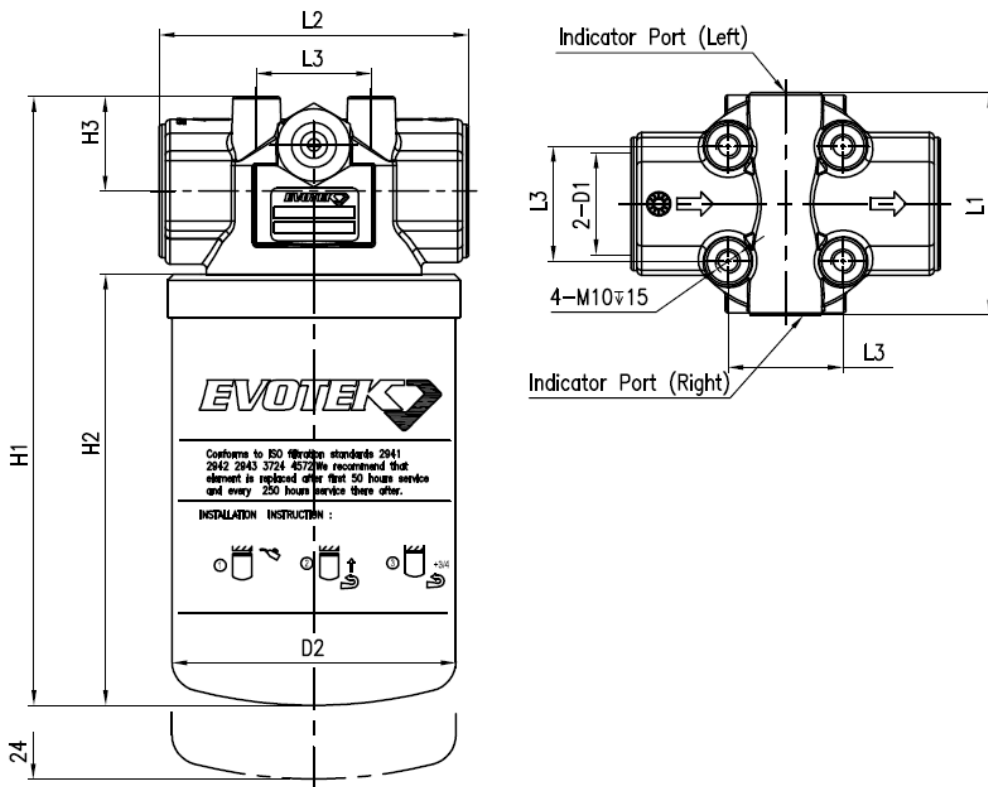
Pressure Drop with Clean Filter Elements (F and P filter media)



EFPF Low Pressure Filter Series

Technical Drawings and Dimension

EFPF

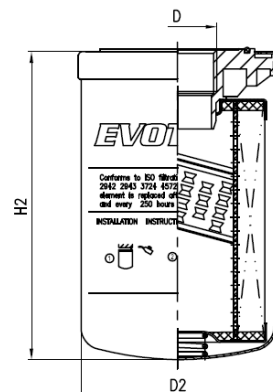


Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)	Height						
	inch	mm						
Type	D1	H1	H2	H3	D2	L1	L2	L3
EFPF3	3/4"	219	155					
EFPF4	1"	246	182	34	94	84	102	35
EFPF5	SAE12	292	228					
EFPF6	SAE16	304	240					
EFPF7	1 1/4"	369	294	40	117	92	127	47.5
EFPF8	SAE20	436	361					

ELEMENT

Type	Connection Port (UN)	Height	
	inch	mm	mm
Type	D	D2	H2
EEPF3-UB			155
EEPF4-UB	1 1/8"-12 UNF-2B	94	182
EEPF5-UB			228
EEPF6-UB			240
EEPF7-UD	1 1/4"-12 UNF-2B	117	294
EEPF8-UD			361



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EFPF Low Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F	G
EFPF	3	BC	00	-	B	F20	-	E25	R

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
5	120 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	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

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

G Indicator Mounting position

R	Right
L	Left

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