EFPR Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 210 bar
- 240 l/min max. flow rate
- installation in pressure line
- application in Saw mills, Aircraft ground support equipment, Asphalt pavers, Hydraulic fan drives, Power steering circuits, Cement trucks, Servo control protection, Logging equipment
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

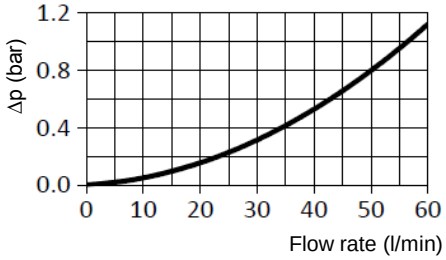
Application	Inline High Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in ½", ¾" to 1" and SAE08/SAE12/SAE16 threads
Flow Rate:	max. 240 l/min
Operating Pressure:	max. 210 bar
Burst Pressure:	min. 630 bar
Element Collapse Pressure:	10 bar (P series), 21 bar (M series), 30bar (Y series)
By-pass Opening Pressure:	Δp=6 bar + 0.6 bar
Material	
Seals:	NBR or FPM (-10°C to 100°C)
Filter Head:	Aluminum
Filter Bowl:	Aluminum
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

EFPL High Pressure Filter Series

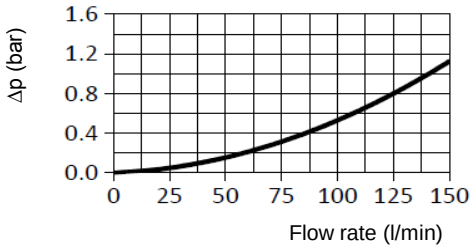
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

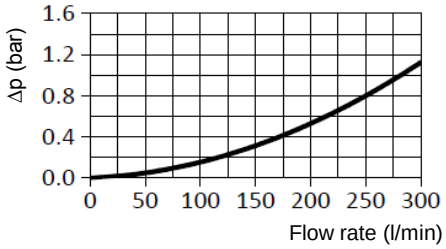
EFPR0 & EFPR1



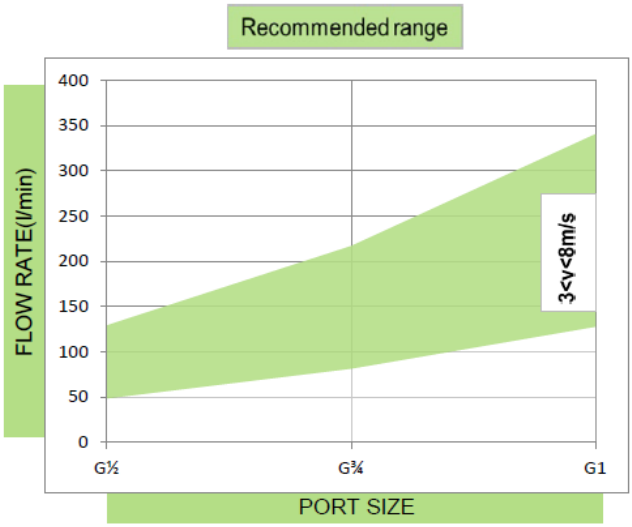
EFPR2 & EFPR3



EFPR5 & EFPR6

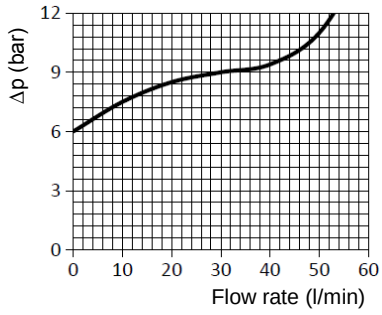


Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 3 to 8 m/s for pressure series)

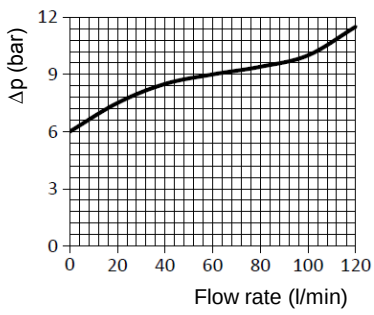


Pressure drop graph on by-pass valve

EFPR0,1,2 & 3



EFPR5 & 6

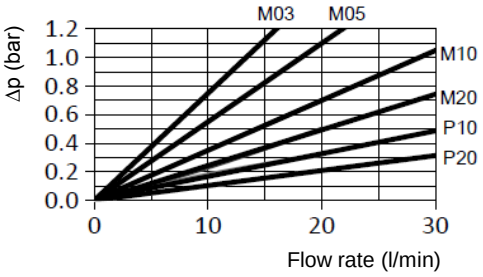


EFPR High Pressure Filter Series

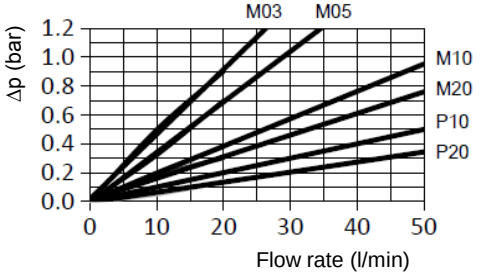
Pressure Drop Graphs (Δp)

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

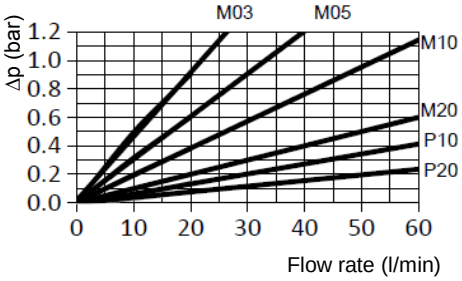
EEPR0



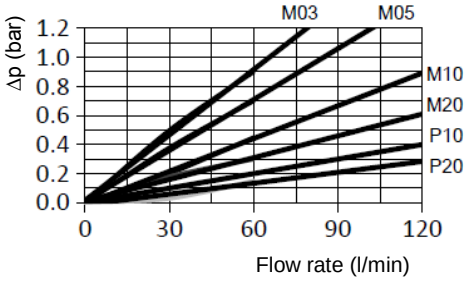
EEPR1



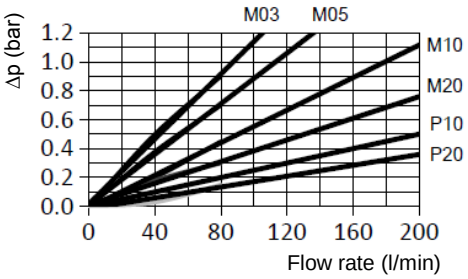
EEPR2



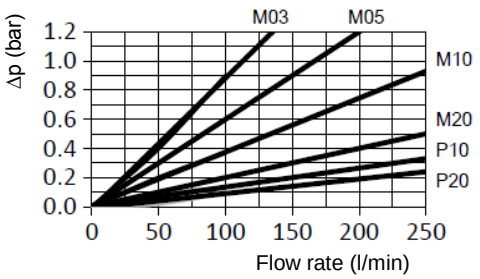
EEPR3



EEPR5



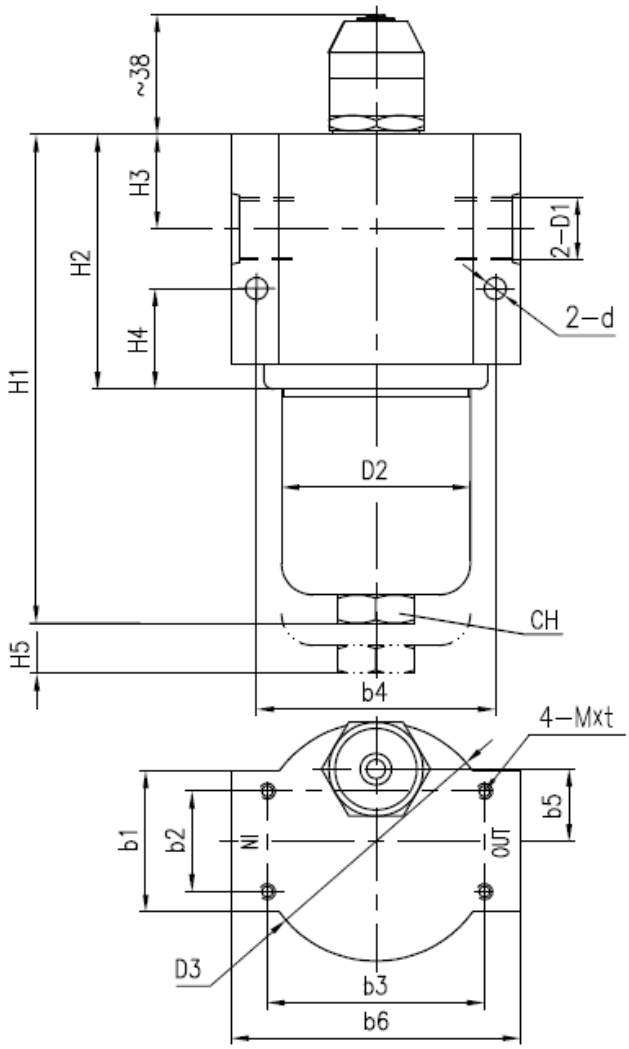
EEPR6



EFPR High Pressure Filter Series

Technical Drawings and Dimension

EFPR0, EFPR1, EFPR2 & EFPR3



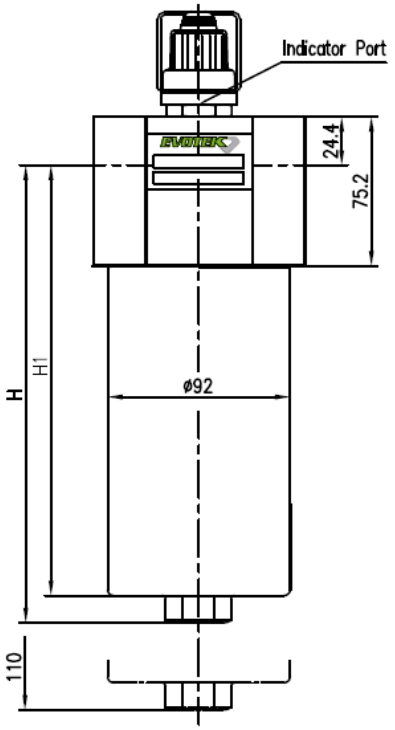
Threaded Connection Ports

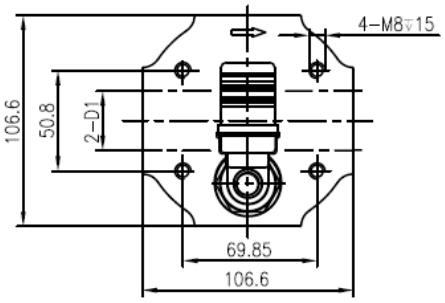
	Connection Port (BSP/NPT/SAE)	Height																
	inch	mm																
Type	D1	H1	H2	H3	H4	H5	D2	D3	2-d	b1	b2	b3	b4	b5	b6	CH	M	t
EFPR0	½"	157	82	30	32	50	60	76	7	45	32	69.2	76	23	92	24	M6	18
EFPR1	SAE08	200	82	30	32	50	60	76	7	45	32	69.2	76	23	92	24	M6	18
EFPR2	¾" ,1"	203	90	26	30	60	69	85	8.5	60	47	69.2	90	25	105	27	M8	21
EFPR3	SAE12 SAE16	298	90	26	30	60	69	85	8.5	60	47	69.2	90	25	105	27	M8	21

EFPR High Pressure Filter Series

Technical Drawings and Dimension

EFPR5& EFPR6





Threaded Connection Ports

	Connection Port (BSP/NPT/SAE)	Height	
	inch	mm	
Type	D1	H1	H
EFPR5	1"	210	230
EFPR6	SAE16	320	339

EFPR High Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F
EFPR	2	BC	11	B	-	M20	-	X50

Element Series	A	D	E
EEPR	2	B	M20

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
0	20 l/min
1	40 l/min
2	60 l/min
3	110 l/min
5	160 l/min
6	240 l/min

B Connection Ports	
A08	SAE08
A12	SAE12
A16	SAE16
BB	BSP ½”
BC	BSP ¾”
BD	BSP 1”
NB	NPT ½”
NC	NPT ¾”
ND	NPT 1”

C By-pass Valve	
00	No
11	6.0 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
M03	Fibreglass	5µm	21 bar
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

F Indicator		
00	No	Connection
X50	5 bar visual	M20*1.5 Thread
Y50	5 bar visual/electrical	M20*1.5 Thread
Y50S	5 bar electrical	M20*1.5 Thread
Y50T	5 bar electrical with thermostat (30℃)	M20*1.5 Thread