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

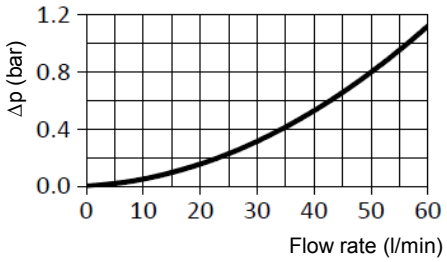
Application	Inline High Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in ½", to 1" and SAE08/SAE12/SAE16 threads
Flow Rate:	max. 240 l/min
Operating Pressure:	max. 210 bar
Burst Pressure:	min. 630 bar
Element Collapse Pressure:	10 bar (P series), 21 bar (M series), 30bar (Y series)
By-pass Opening Pressure:	Δp=6 bar + 0.6 bar
Material	
Seals:	NBR or FPM (-25°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

EFPR High Pressure Filter Series

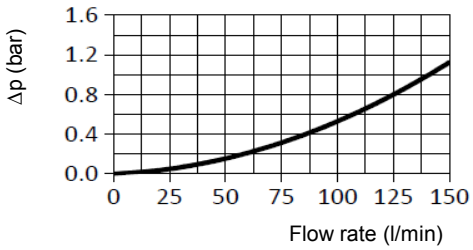
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

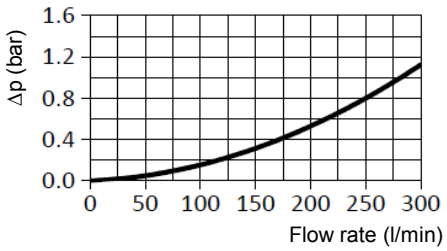
EFPR0 & EFPR1



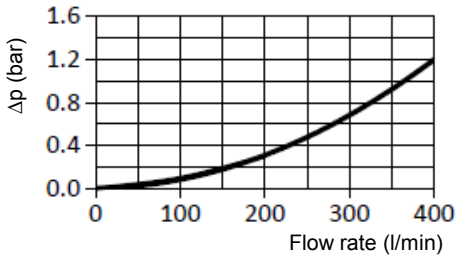
EFPR2 & EFPR3



EFPR5 & EFPR6



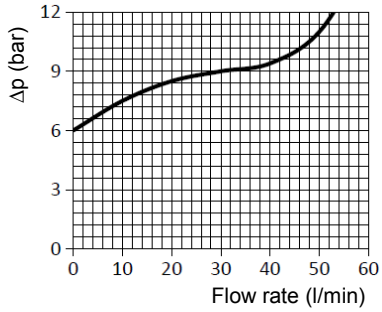
EFPR8



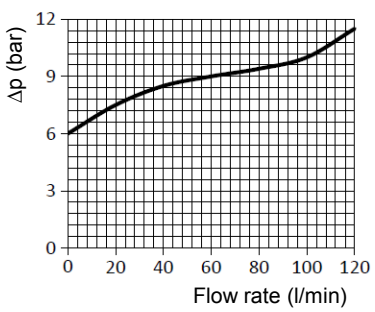
Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 3 to 8 m/s for pressure series)

Pressure drop graph on by-pass valve

EFPR0,1,2 & 3



EFPR5,6 & 8

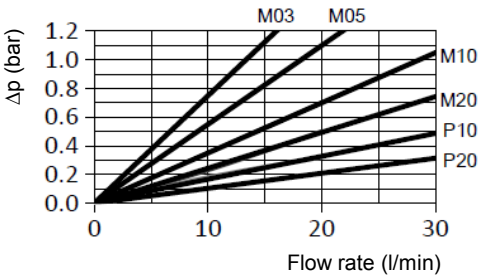


EFPR High Pressure Filter Series

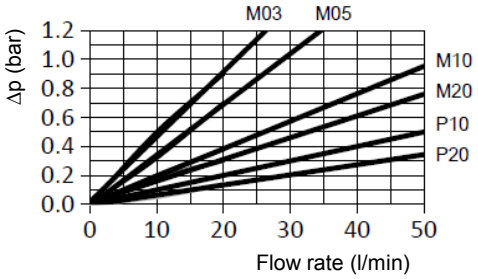
Pressure Drop Graphs (Δp)

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

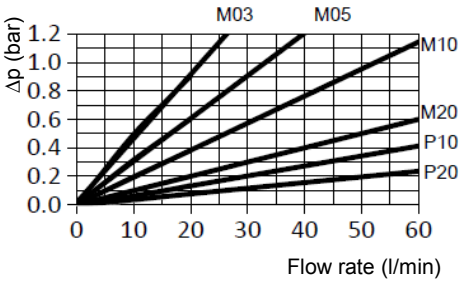
EEPR0



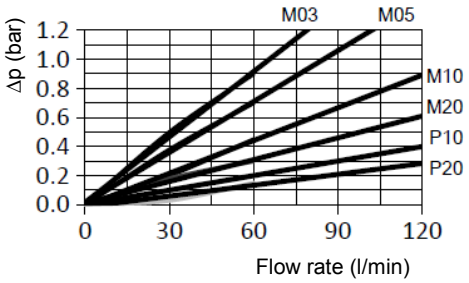
EEPR1



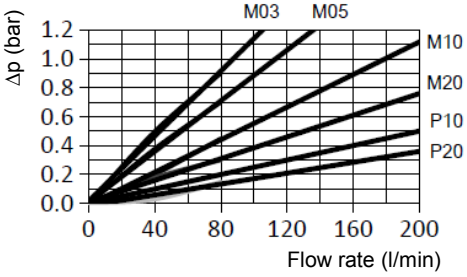
EEPR2



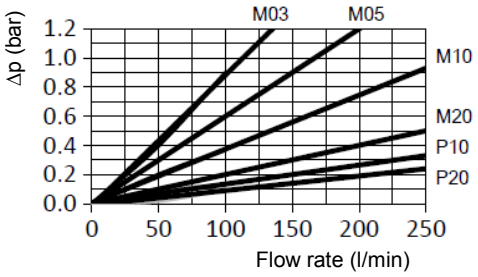
EEPR3



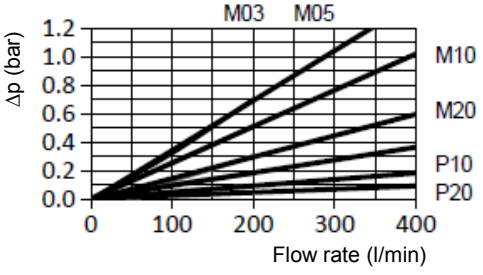
EEPR5



EEPR6



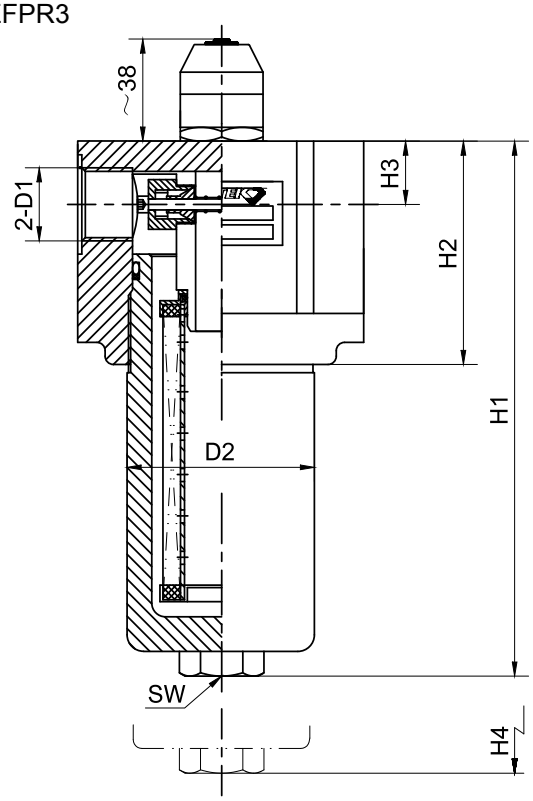
EEPR8

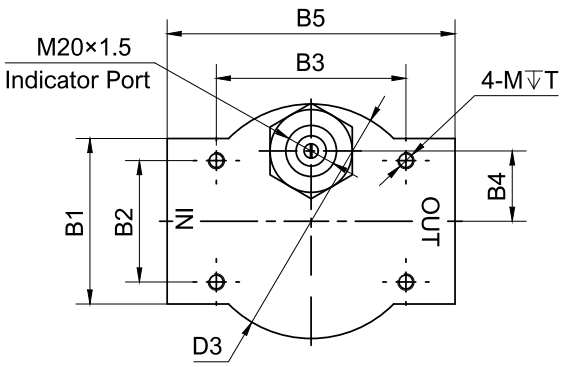


EFPR High Pressure Filter Series

Technical Drawings and Dimension

EFPR0, EFPR1, EFPR2 & EFPR3





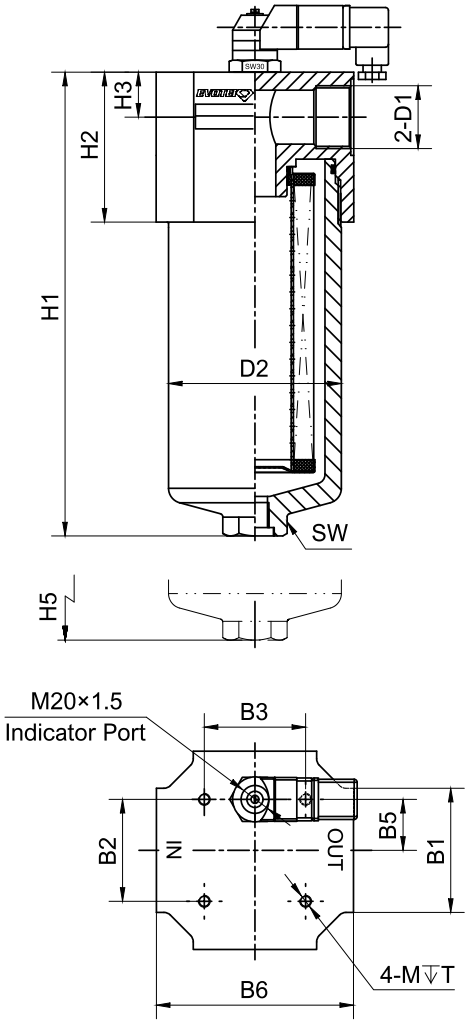
Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE) inch D1	Height mm H1	H2	H3	H4	D2	D3	B1	B2	B3	B4	B5	SW	M	T
EFPR0	½"	157	82	30	50	60	76	45	32	69.2	76	92	24	M6	18
EFPR1	SAE08	200	82	30	50	60	76	45	32	69.2	76	92	24	M6	18
EFPR2	¾" ,1"	203	90	26	60	69	85	60	47	69.2	90	105	27	M8	21
EFPR3	SAE12 SAE16	298	90	26	60	69	85	60	47	69.2	90	105	27	M8	21

EFPR High Pressure Filter Series

Technical Drawings and Dimension

EFPR5& EFPR6,EFPR8



Threaded Connection Ports

	Connection Port (BSP/NPT/SAE)	Height												
	inch	mm												
Type	D1	H1	H2	H3	H5	D2	B1	B2	B3	B5	B6	SW	M	T
EFPR5	1" ,SAE16	245	75.2	24.4	110	92	67	50.8	69.9	32	102	27	M8	15
EFPR6	1" ,SAE16	355	75.2	24.4	110	92	67	50.8	69.9	32	102	27	M8	15
EFPR8	1-1/4"	310	100	30	120	116	66	68	68	34	133	32	M8	17

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
8	280 l/min

B Connection Ports	
A08	SAE08
A12	SAE12
A16	SAE16
A20	SAE20
BB	BSP ½”
BC	BSP ¾”
BD	BSP 1”
BE	BSP 1 ¼”
NB	NPT ½”
NC	NPT ¾”
ND	NPT 1”
NE	NPT1 ¼”

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	Fiberglass	5μm	21 bar
M05	Fiberglass	7μm	21 bar
M10	Fiberglass	12μm	21 bar
M20	Fiberglass	21μm	21 bar
Y25	Wire Mesh	25μm	30 bar
Y60	Wire Mesh	60μm	30 bar

F Indicator		Connection
00	No	
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