



EFMP Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 315 bar
- 600 l/min max. flow rate
- installation in manifold block mounting
- application in manifold block mounting
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

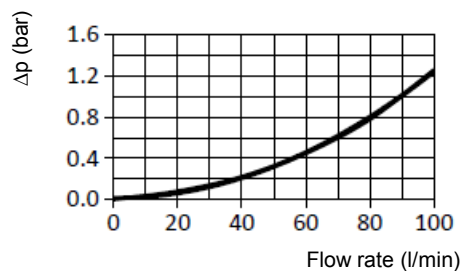
Application	Manifold mounting high pressure filter
Port Sizes:	17.5 & 30mm
Flow Rate:	max. 600 l/min
Operating Pressure:	max. 315 bar
Burst Pressure:	min. 950 bar
Element Collapse Pressure:	21 bar (M series) 210 bar (H series), 30 bar Wire Mesh
By-pass Opening Pressure:	$\Delta p = 6 \text{ bar} + 0.6 \text{ bar}$
Material	
Seals:	NBR or FPM (-25°C to 100°C)
Filter Head:	S.G. cast iron
Filter Bowl:	forged 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

EFMP Manifold Mounting High Pressure Filter

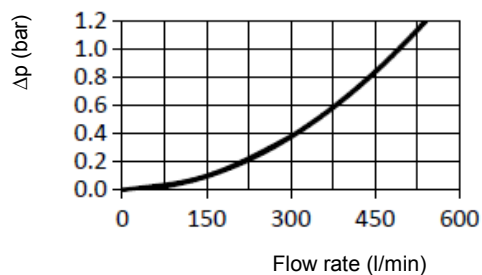
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFMP2,3 & 4



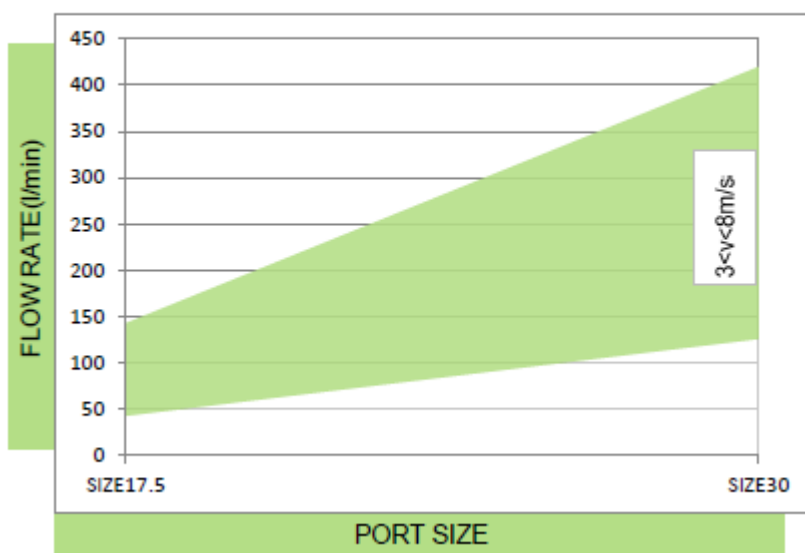
EFMP9,11 & 12



Graph of oil flow velocity

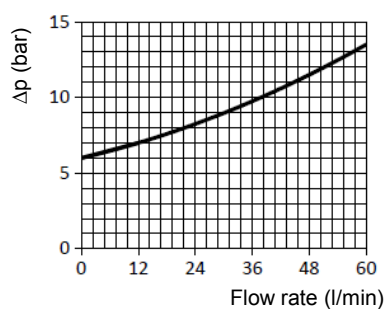
(we recommend to select size of the filter considering range of oil velocity between 3 to 8 m/s for pressure series)

Recommended range

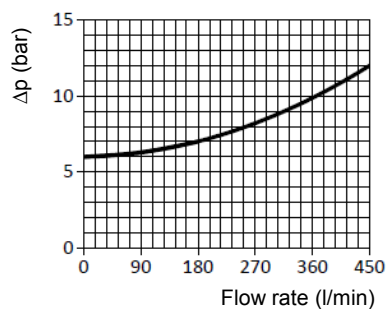


Pressure drop graph on by-pass valve

EFMP2,3 & 4



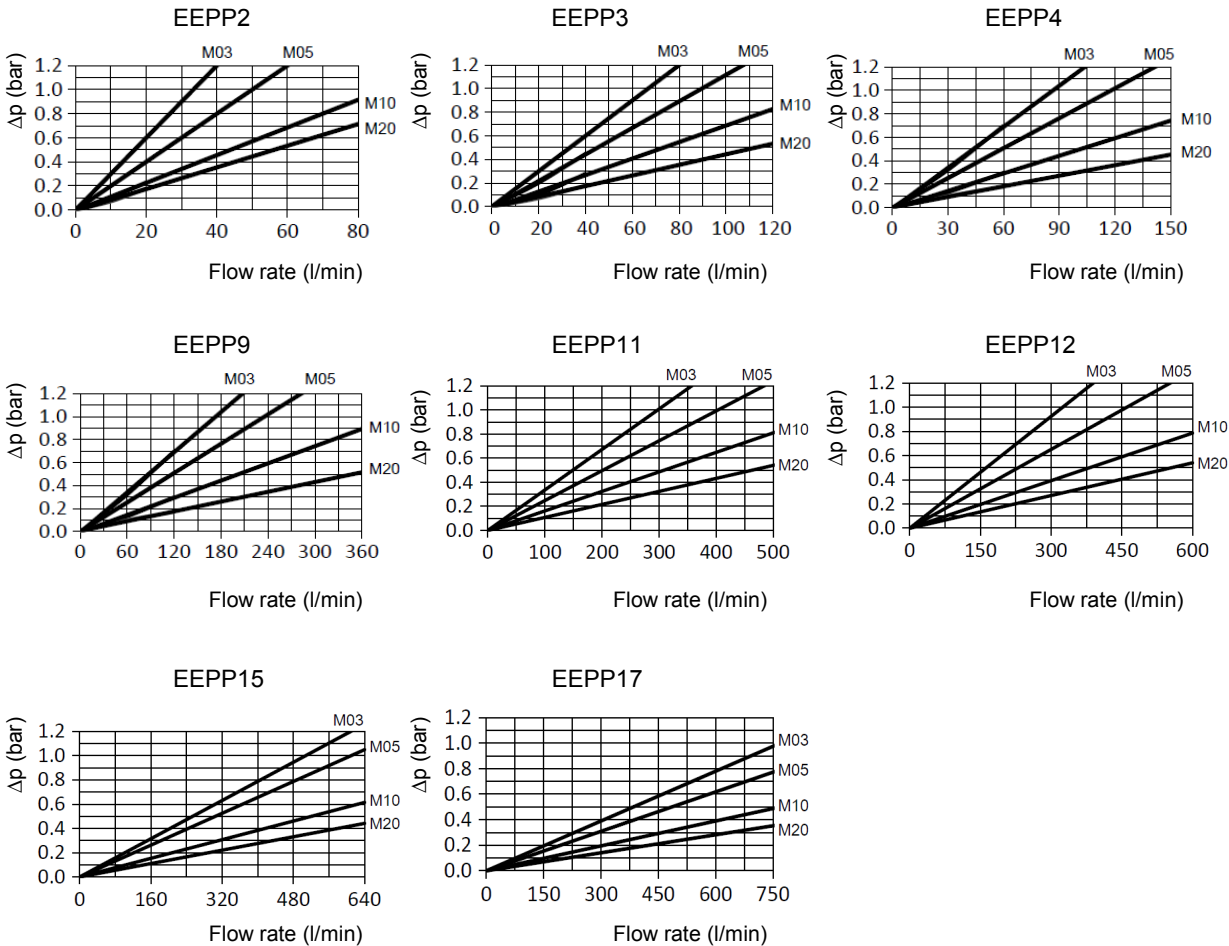
EFMP9,11 & 12,15,17



EFMP High Pressure Filter Series

Pressure Drop Graphs (Δp)

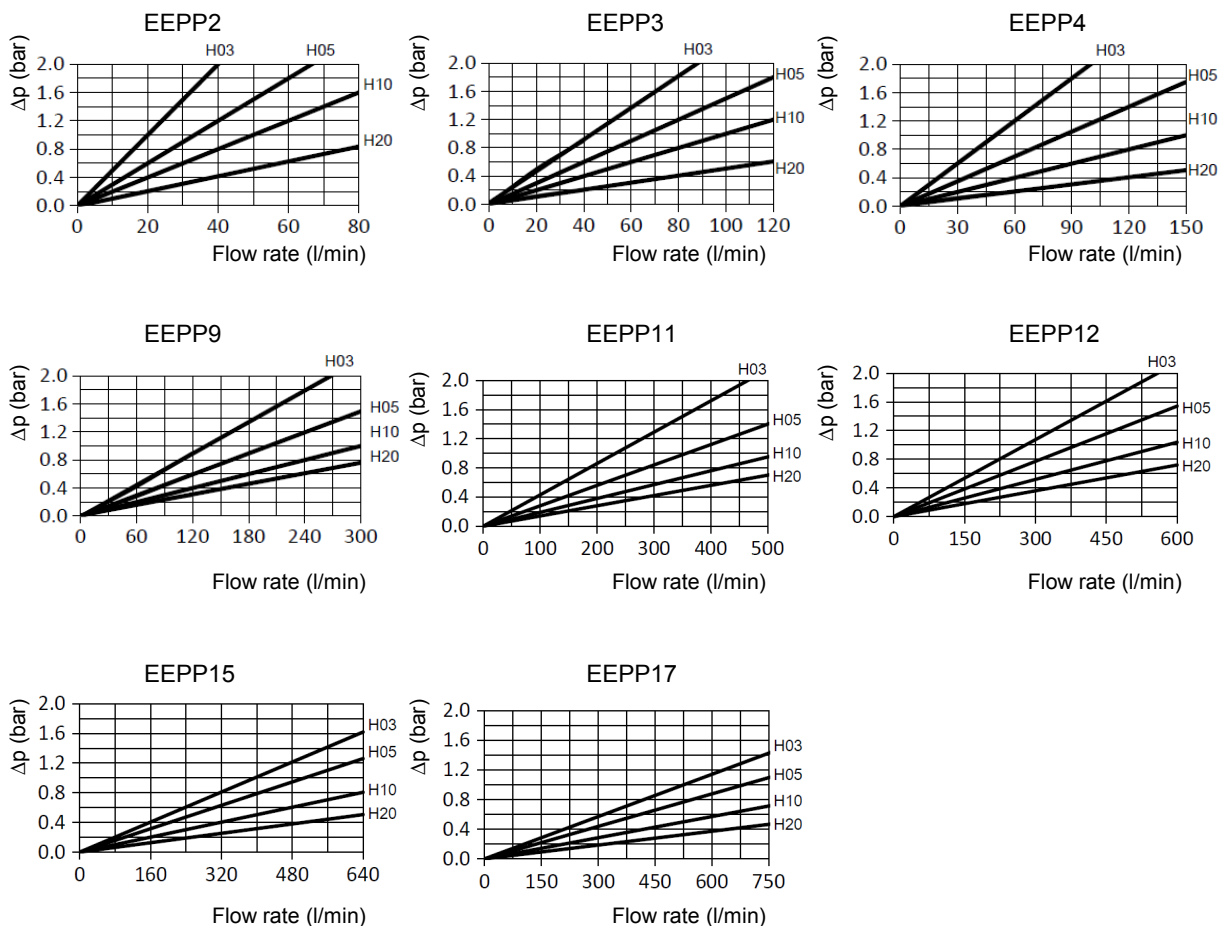
Pressure Drop with Clean Filter Elements (M filter media)



EFMP High Pressure Filter Series

Pressure Drop Graphs (Δp)

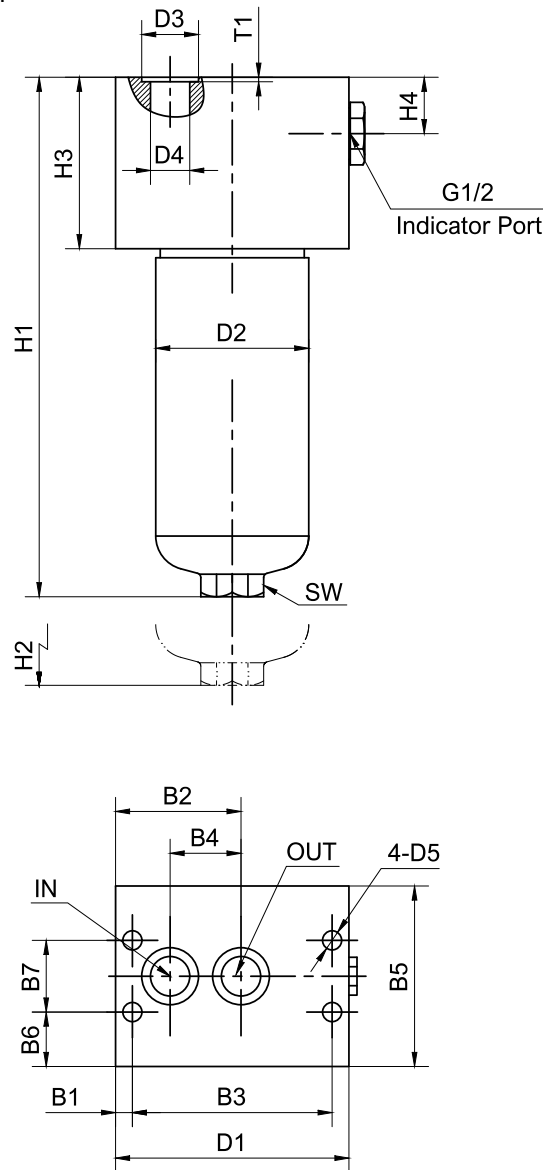
Pressure Drop with Clean Filter Elements (H filter media)



EFMP Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMP2,3 to EFMP4

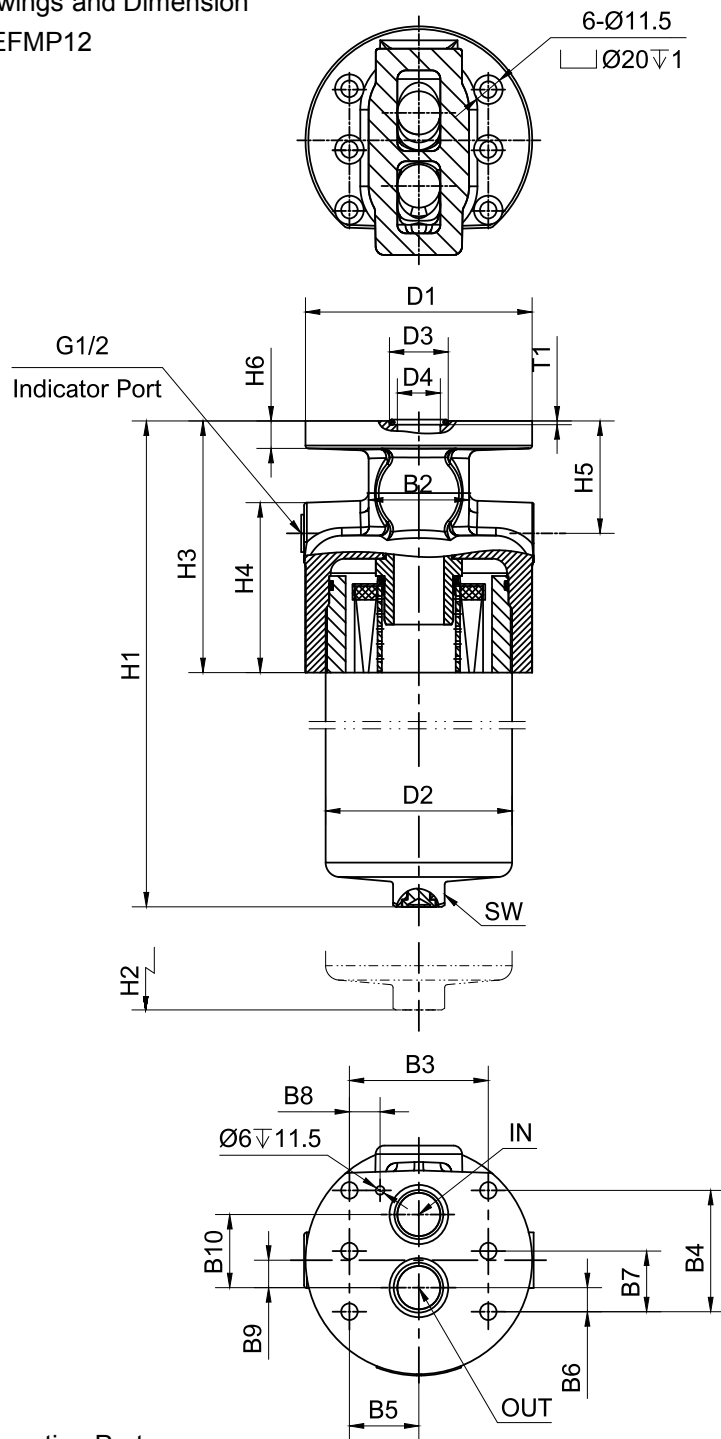


Threaded Connection Ports

Type	Connection Port									Height								
	D4	B1	B2	B3	B4	B5	B6	B7	D1	D2	D3	D5	H1	H2	H3	H4	T1	SW
EFMP2													158.5					
EFMP3	17.5	7.5	55.9	89	31.6	80	24.1	31.8	104	68	25.3	8.5	227.5	75	76	25	2	27
EFMP4													269.5					

EFMP Manifold Mounting High Pressure Filter

Technical Drawings and Dimension
EFMP9,11 to EFMP12



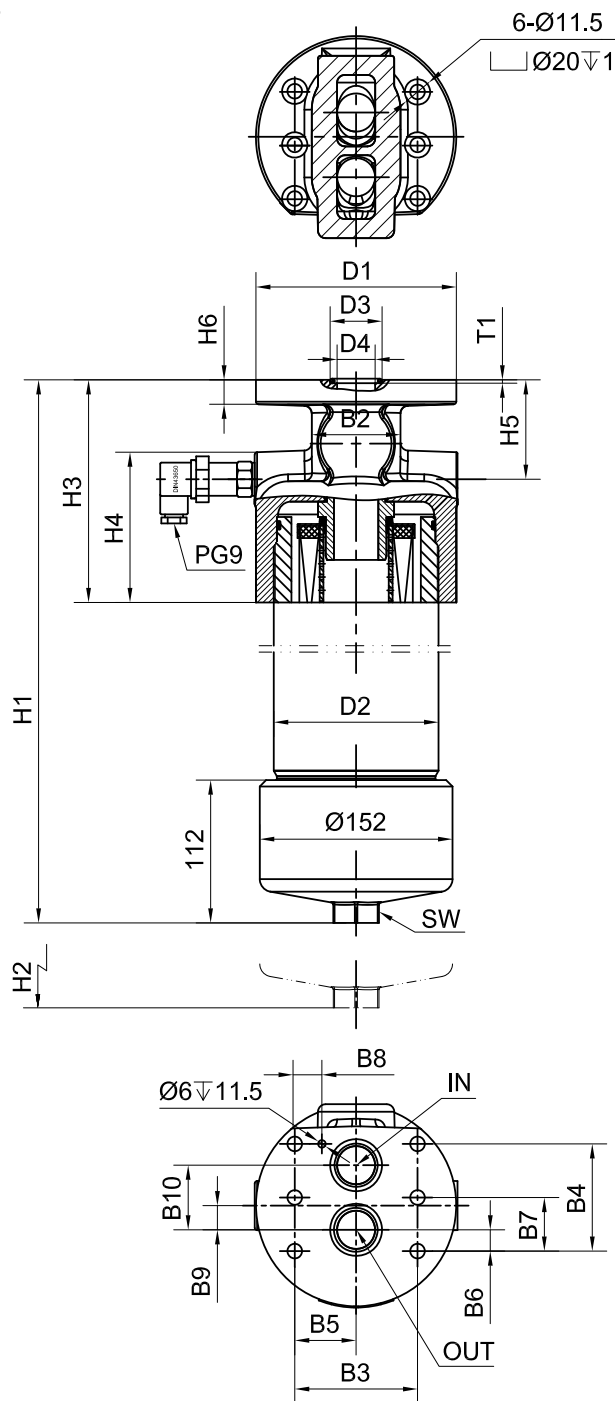
Threaded Connection Ports

Type	Connection Port mm													Height mm									
	D4	B2	B3	B4	B5	B6	B7	B8	B9	B10	D1	D2	D3	H1	H2	H3	H4	H5	H6	T1	SW		
EFMP9														339.5									
EFMP11	30	70	96.8	84.1	48.4	16.7	42.05	21.4	19	50.7	158	130	41	432.5	95	174.5	98	96	19	2.6	36		
EFMP12														510.0									

EFMP Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMP15 to EFMP17



Threaded Connection Ports

Type	Connection Port mm													Height mm							
	D4	B2	B3	B4	B5	B6	B7	B8	B9	B10	D1	D2	D3	H1	H2	H3	H4	H5	H6	T1	SW
EFMP15	30	70	96.8	84.1	48.4	16.7	42.05	21.4	19	50.7	158	130	41	660	95	174.5	98	96	19	2.6	36
EFMP17														826							

EFMP Manifold Mounting High Pressure Filter

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFMP	12	CF	00	B	-	M03	-	5PV	EEPP	12	B	M03

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
2	60 l/min
3	110 l/min
4	140 l/min
9	300 l/min
11	360 l/min
12	400 l/min
15	500 l/min
17	600 l/min

B Connection Ports	
CC	17.5mm
CF	30mm

C By-pass Valve	
00	No
11	6.0 bar

D Seal	
B	NBR
V	FPM

E Media Material	Filtration	Collapse Pressure
M03	Fiberglass	5µm
M05	Fiberglass	7µm
M10	Fiberglass	12µm
M20	Fiberglass	21µm
H03	Fiberglass	5µm
H05	Fiberglass	7µm
H10	Fiberglass	12µm
H20	Fiberglass	21µm
Y25	Wire Mesh	25µm
Y60	Wire Mesh	60µm
Y90	Wire Mesh	90µm
Y125	Wire Mesh	125µm

F Indicator	Connection
00	No
5PV	5 bar visual
5PB	5 bar visual/electrical
5PE	5 bar electrical