EFMF Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 315 bar
- 550 l/min max. flow rate
- installation in manifold block mounting
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

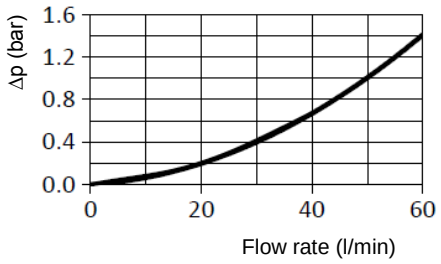
Application	Manifold mounting high pressure filter
Port Sizes:	14, 20, 30 & 32 mm
Flow Rate:	max. 550 l/min
Operating Pressure:	max. 315 bar
Burst Pressure:	min. 950 bar
Element Collapse Pressure:	21 bar (M series), 210 bar (H series)
By-pass Opening Pressure:	Δp= 6 bar +0.6bar
Material	
Seals:	NBR or FPM (-10°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

EFMF Manifold Mounting High Pressure Filter

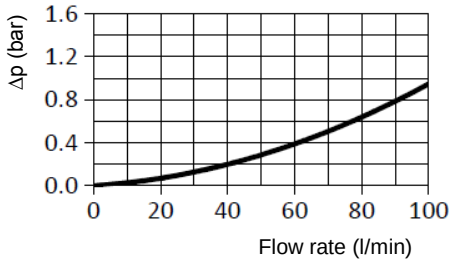
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

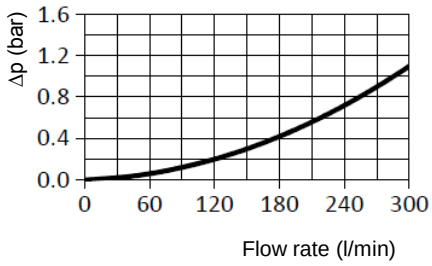
EFMF1



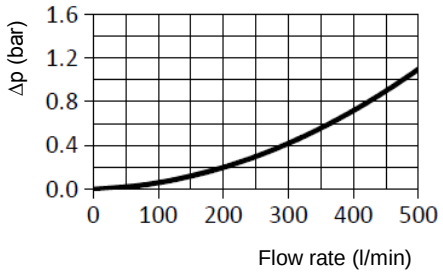
EFMF2, 3 & 4



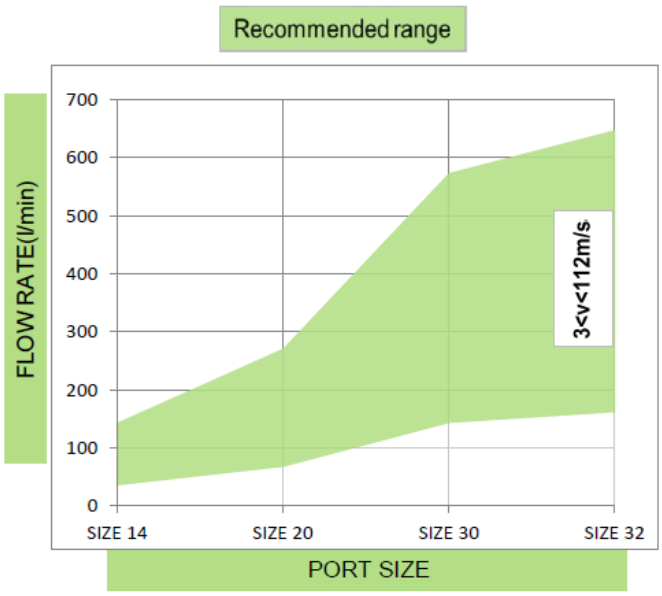
EFMF5,6 & 8



EFMF9,11,12,15 & 17



Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 3 to 12 m/s for pressure series)

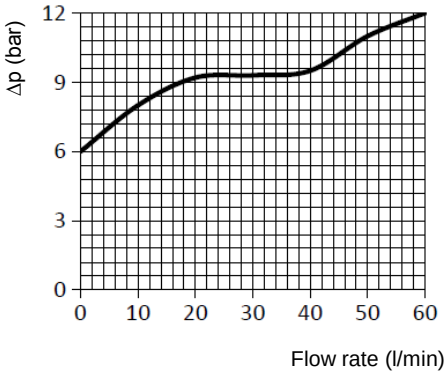


EFMF Manifold Mounting High Pressure Filter

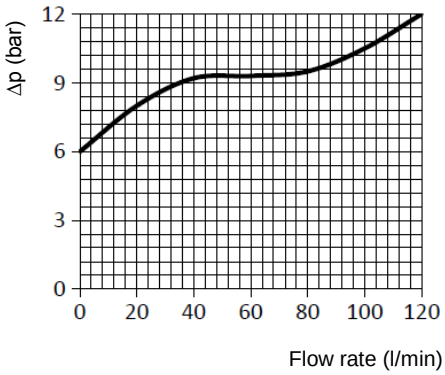
Pressure Drop Graphs (Δp)

Pressure drop graph on by-pass valve

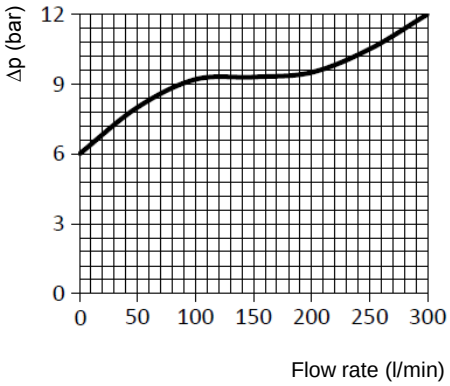
EFMF1



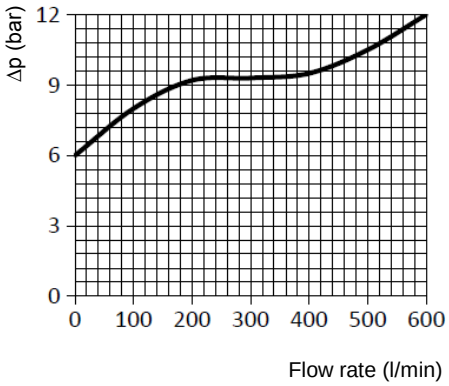
EFMF2,3 & 4



EFMF5,6 & 8



EFMF9,11,12,15 & 17

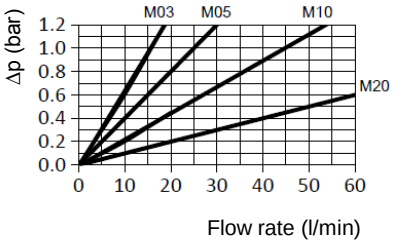


EFMF Manifold Mounting High Pressure Filter

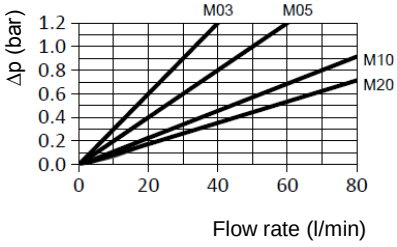
Pressure Drop Graphs (Δp)

Pressure Drop with Clean Filter Elements (M filter media)

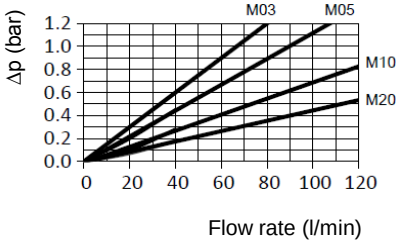
EEPP1



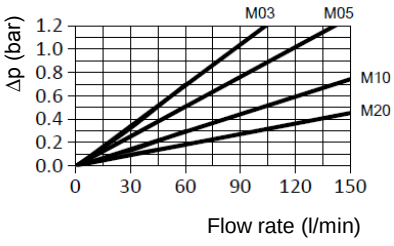
EEPP2



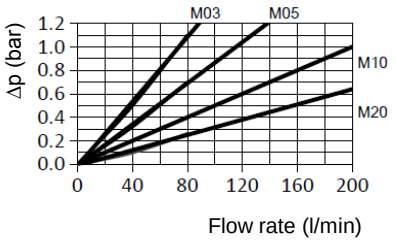
EEPP3



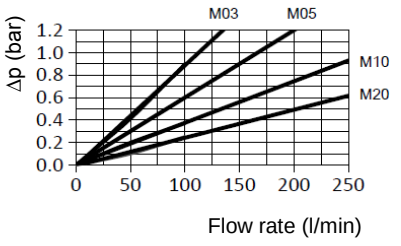
EEPP4



EEPP5



EEPP6



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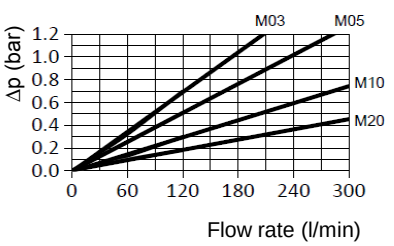
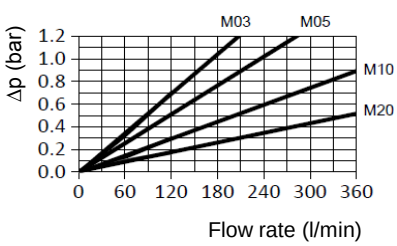


EEPP9



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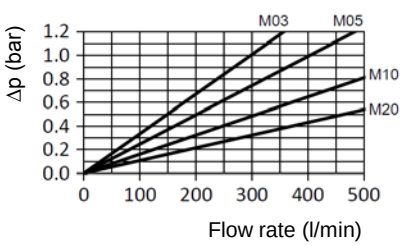

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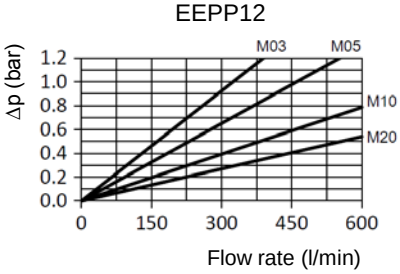

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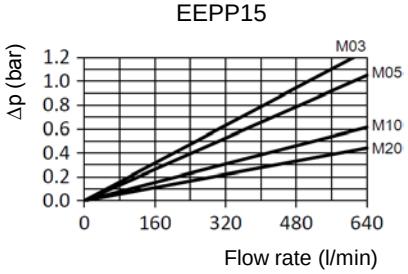

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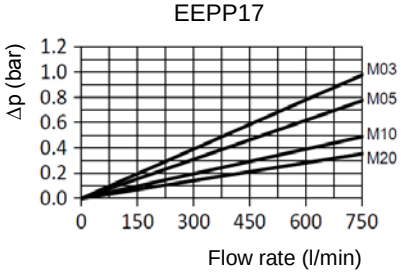
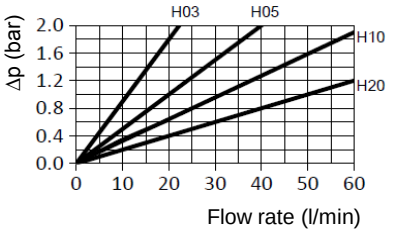


EFMF Manifold Mounting High Pressure Filter

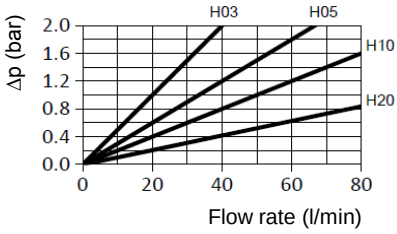
Pressure Drop Graphs (Δp)

Pressure Drop with Clean Filter Elements (H filter media)

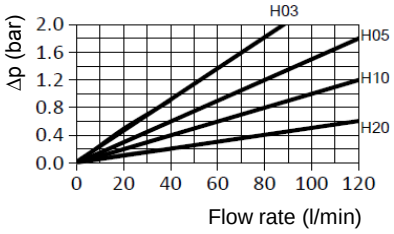
EEPP1



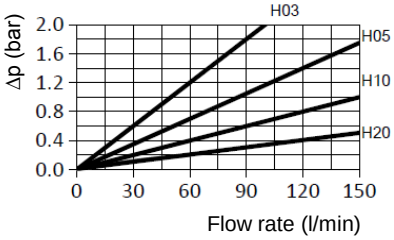
EEPP2



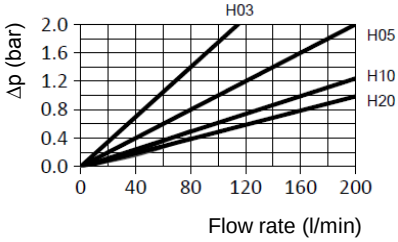
EEPP3



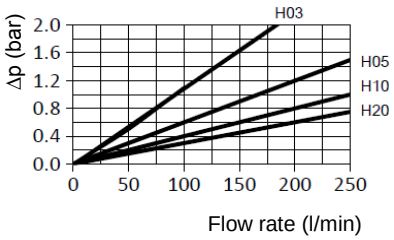
EEPP4



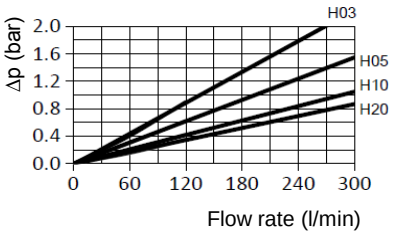
EEPP5



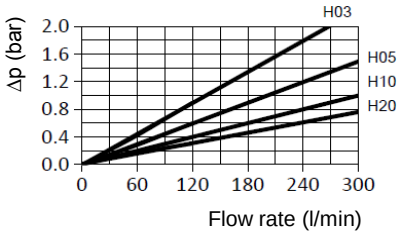
EEPP6



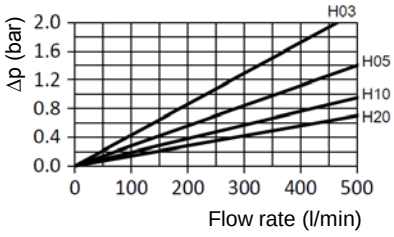
EEPP8



EEPP9



EEPP11



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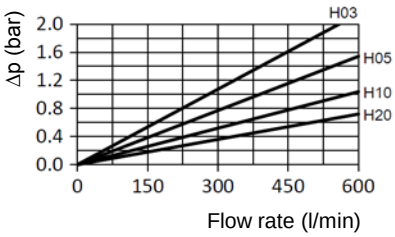

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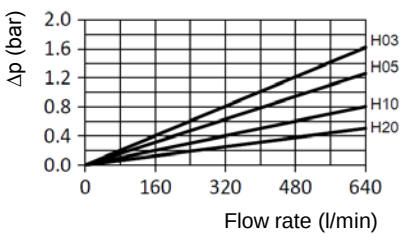
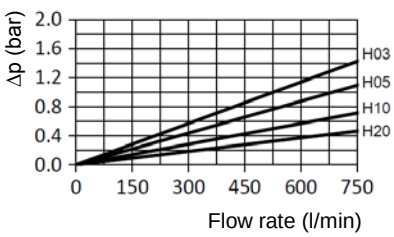


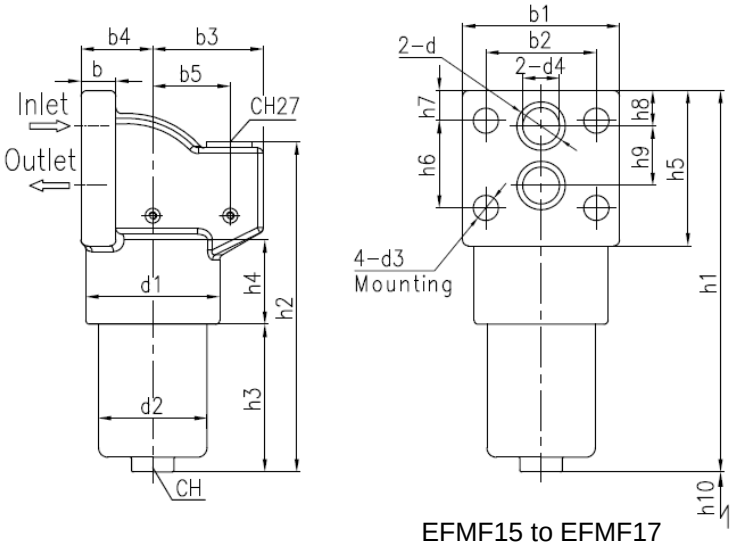
EEPP17



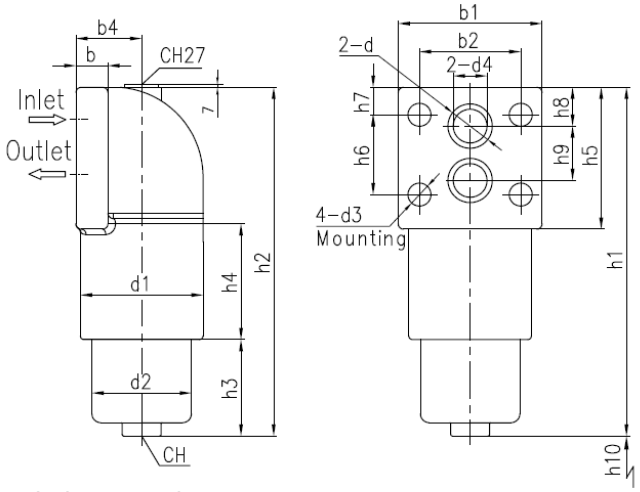
EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

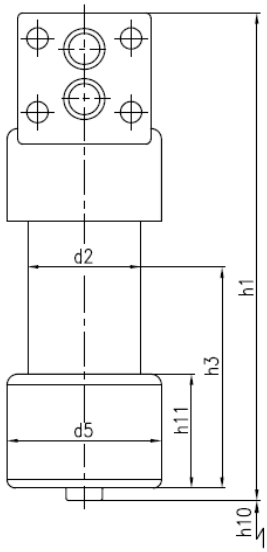
EFMF1 to EFMF8



EFMF9 to EFMF12



EFMF15 to EFMF17



Threaded Connection Ports

	Connection Port width					Dia						Height												
	mm	mm				mm						mm												
Type	b	b1	b2	b3	b4	b5	d	d1	d2	d3	d4	d5	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11	CH	O-ring
EFMF1	18	80	57	56	37	38	20	67	52	13	14	-	197	176	78	48	76	45	15.5	30.5	28	75	-	24	18X2.5
EFMF2	20	110	72	66	45	48	26	84	68	18	20	-	217	181	83	45.5	94	55	19.5	34.5	35	75	-	27	24X3
EFMF3	20	110	72	66	45	48	26	84	68	18	20	-	284	248	150	45.5	94	55	19.5	34.5	35	75	-	27	24X3
EFMF4	20	110	72	66	45	48	26	84	68	18	20	-	328	292	194	45.5	94	55	19.5	34.5	35	75	-	27	24X3
EFMF5	30	140	95	89	59	69	32	116	95	22	32	-	280	222	117	61	110	60	25	31	52	85	-	32	40X3.5
EFMF6	30	140	95	89	59	69	32	116	95	22	32	-	340	282	177	61	110	60	25	31	52	85	-	32	40X3.5
EFMF8	30	140	95	89	59	69	32	116	95	22	32	-	522	464	359	94	110	60	25	31	52	85	-	32	40X3.5
EFMF9	30	140	95	-	79.5	-	32	154	130	23	30	-	353	357	157	94	110	58	26	32	52	115	-	36	40X3.5
EFMF11	30	140	95	-	79.5	-	32	154	130	23	30	-	446	450	250	94	110	58	26	32	52	115	-	36	40X3.5
EFMF12	30	140	95	-	79.5	-	32	154	130	23	30	-	523	527	329	94	110	58	26	32	52	115	-	36	40X3.5
EFMF15	30	140	95	-	79.5	-	32	154	132	23	30	152	673	677	477	94	110	58	26	32	52	500	112	36	40X3.5
EFMF17	30	140	95	-	79.5	-	32	154	132	23	30	152	839	843	643	94	110	58	26	32	52	670	112	36	40X3.5

EFMF Manifold Mounting High Pressure Filter

Order Codes

Filter Assembly	A	B	C	D	-	E	-	F
EFMF	1	CA	11	B	-	M03	-	E50

Element Series	A	D	E
EEPP	1	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

1	30 l/min
2	50 l/min
3	80 l/min
4	100 l/min
5	140 l/min
6	180 l/min
8	250 l/min
9	300 l/min
11	360 l/min
12	400 l/min
15	450 l/min
17	550 l/min

B Connection Ports

CA	14mm
CD	20mm
CF	30mm
CG	32mm

C By-pass Valve

00	No
11	6.0 bar
X	special

D Seal

B	NBR
V	FPM

E Media Material

		Filtration	Collapse Pressure
M03	Fibreglass	5µm	21 bar
M05	Fibreglass	7µm	21 bar
M10	Fibreglass	12µm	21 bar
M20	Fibreglass	21µm	21 bar
H03	Fibreglass	5µm	210 bar
H05	Fibreglass	7µm	210 bar
H10	Fibreglass	12µm	210 bar
H20	Fibreglass	21µm	210 bar
Y25	Wire Mesh	25µm	30 bar
Y60	Wire Mesh	60µm	30 bar
Y90	Wire Mesh	90µm	30 bar
Y125	Wire Mesh	125µm	30 bar

F Indicator

00	No	Connection
V50	5 bar visual	M20*1.5 Thread
E50	5 bar visual/electrical	M20*1.5 Thread

Notes