



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:

$\Delta p = 6 \text{ bar} + 0.6 \text{ bar}$

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

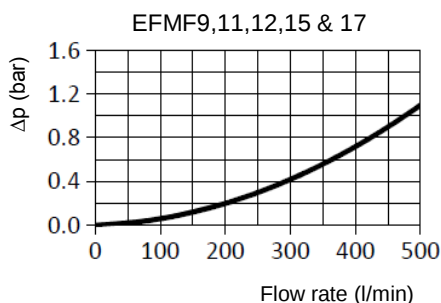
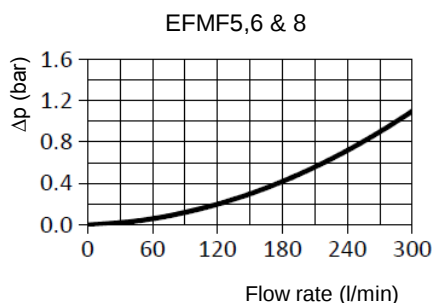
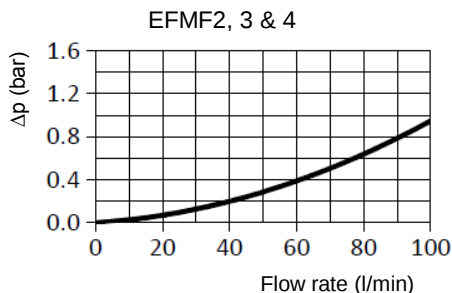
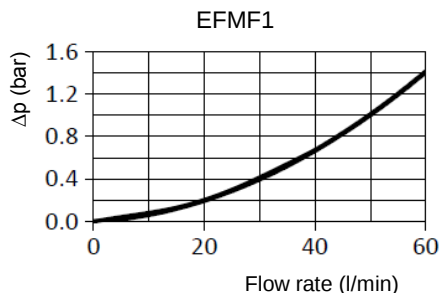
ISO3968 Pressure Drop vs. Flow Rate

ISO16889 Multi-Pass Test

EFMF Manifold Mounting High Pressure Filter

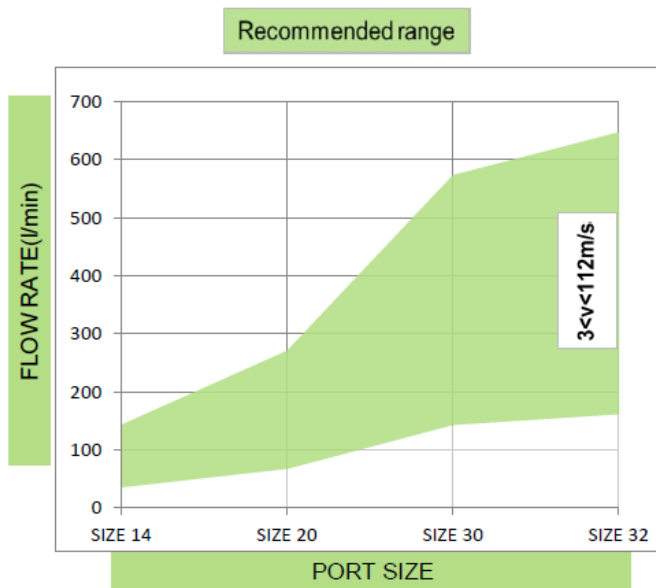
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only



Graph of oil flow velocity

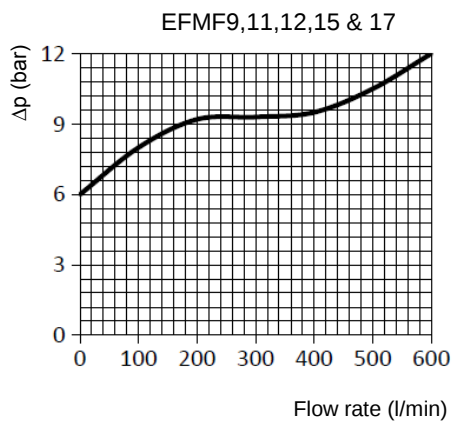
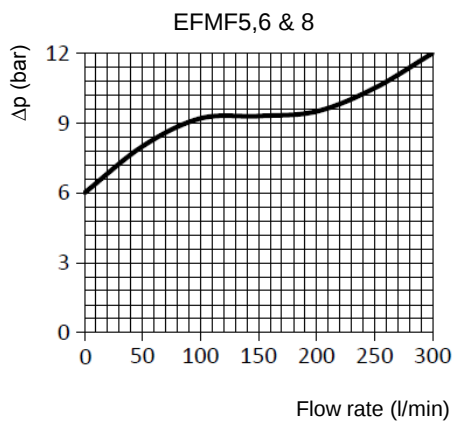
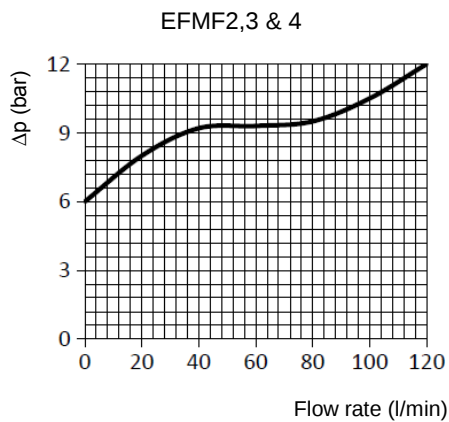
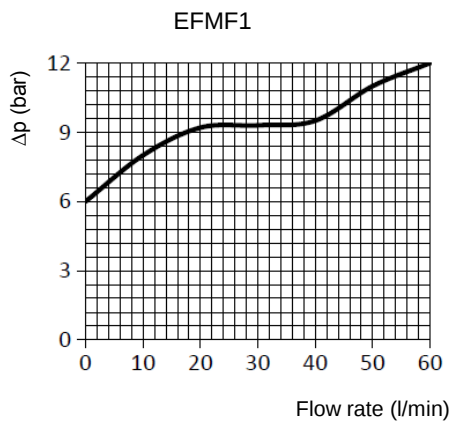
(we recommend to select size of the filter considering range of oil velocity between 3 to 12 m/s for pressure series)



EFMF Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

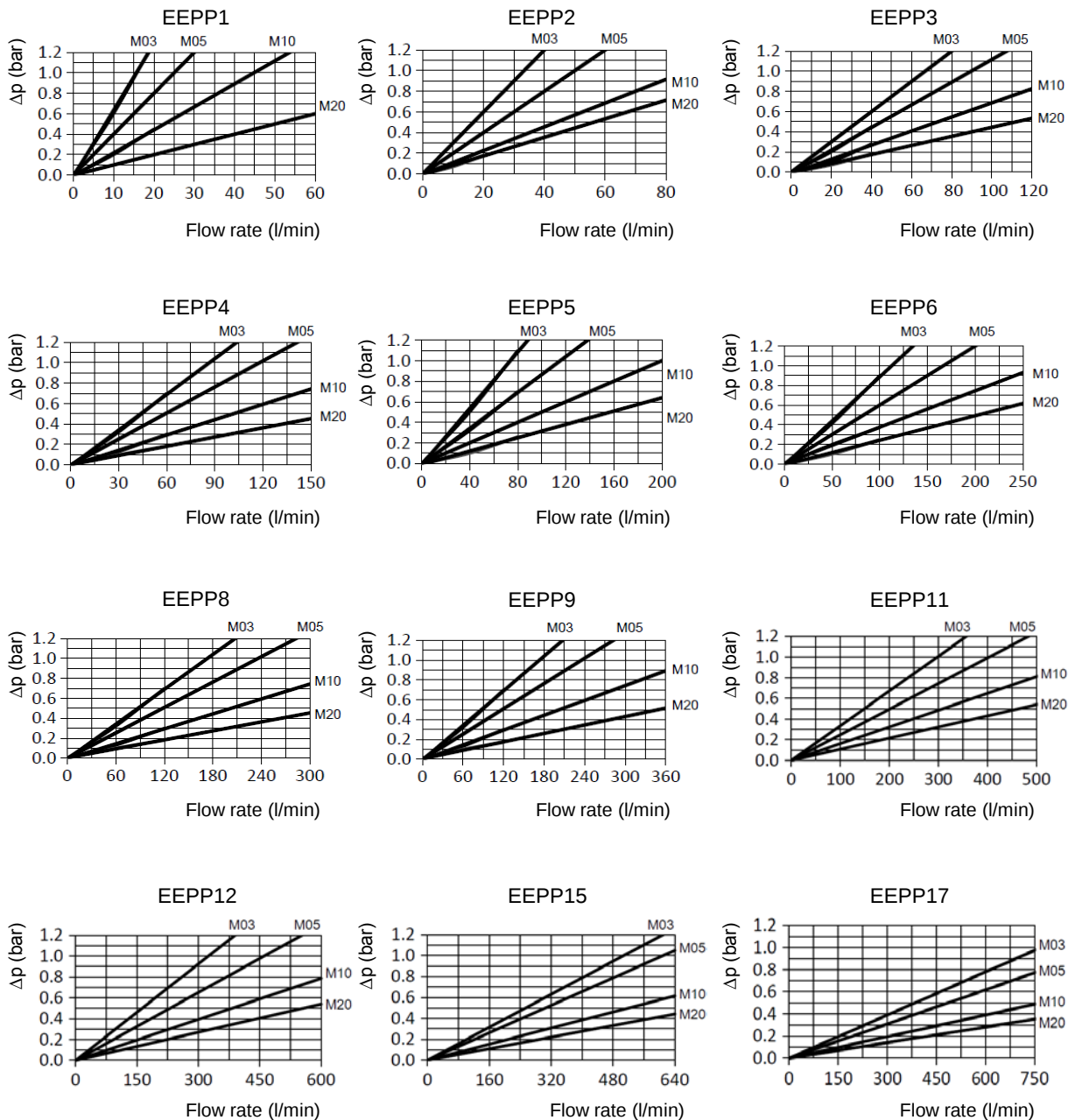
Pressure drop graph on by-pass valve



EFMF Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

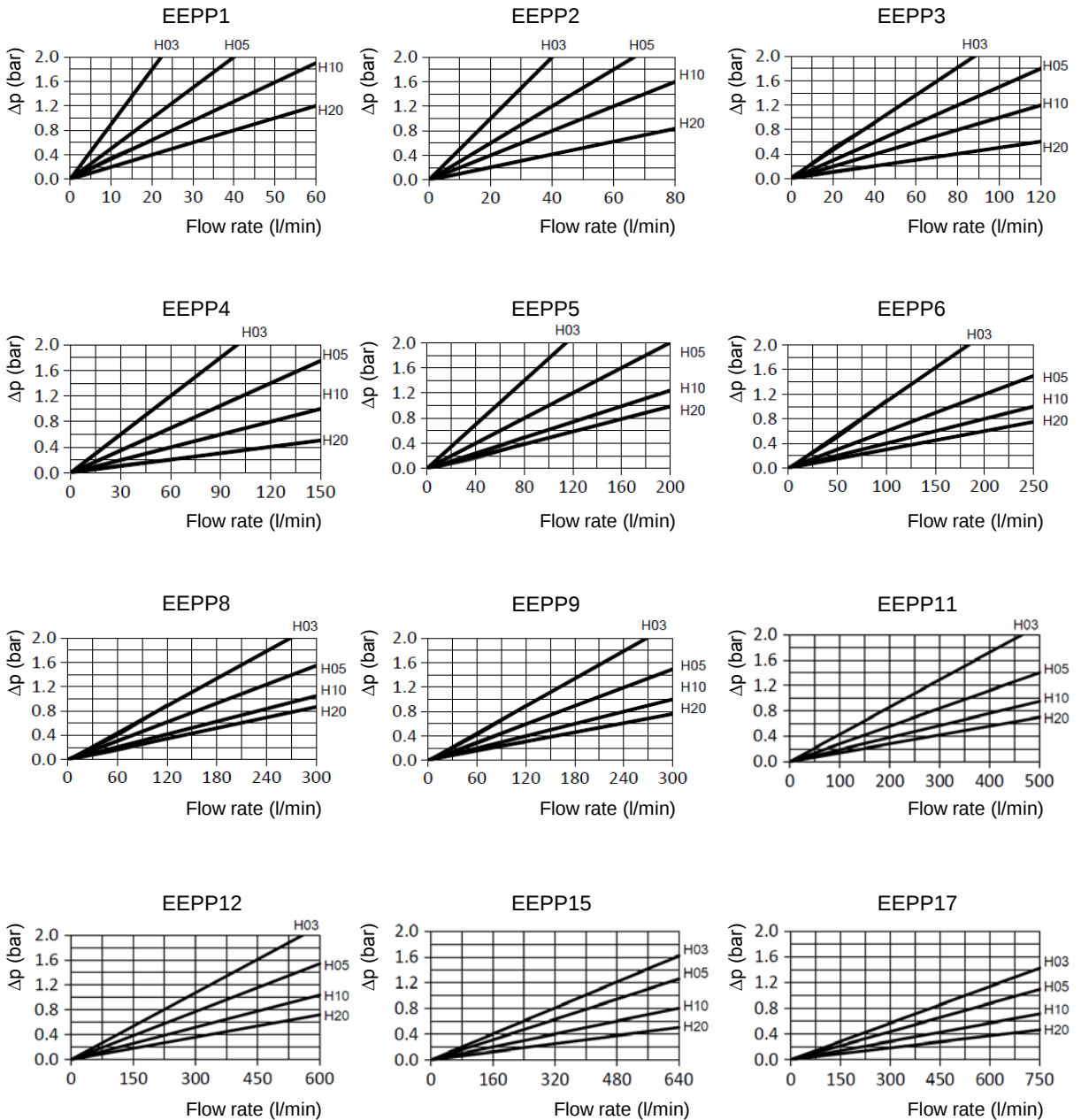
Pressure Drop with Clean Filter Elements (M filter media)



EFMF Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

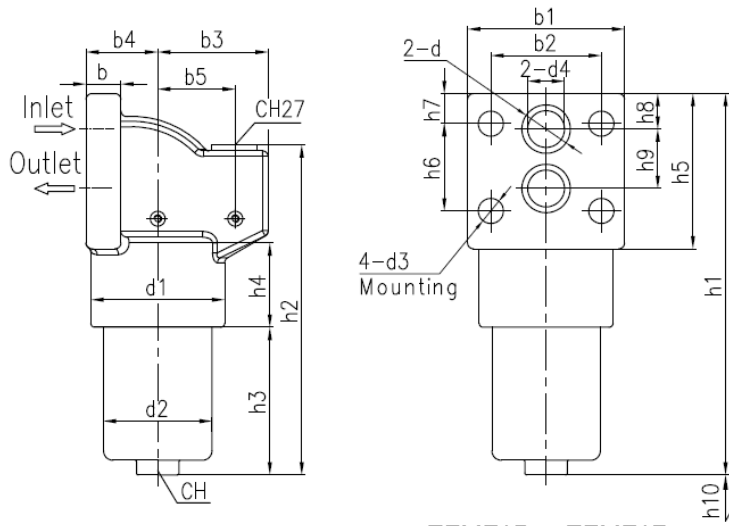
Pressure Drop with Clean Filter Elements (H filter media)



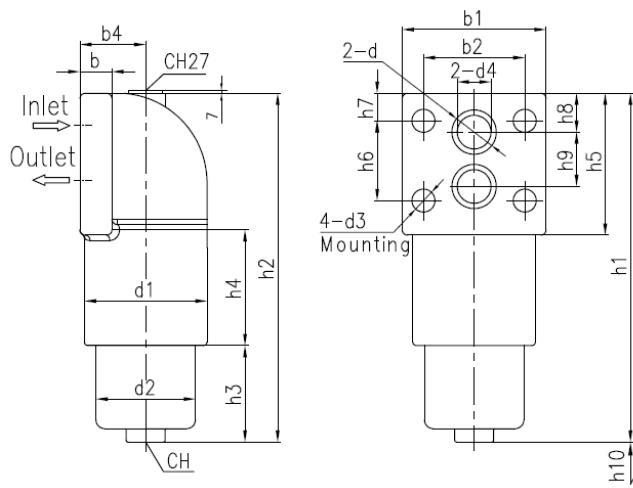
EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

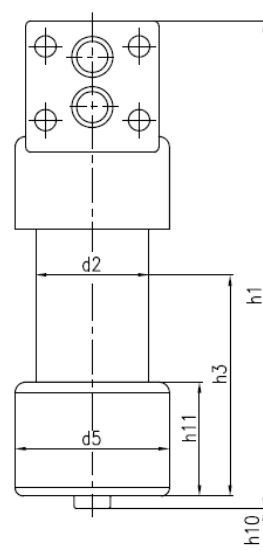
EFMF1 to EFMF8



EFMF9 to EFMF12



EFMF15 to EFMF17



Threaded Connection Ports

Type	Connection Port width					Dia		Height																CH	O-ring
	b	b1	b2	b3	b4	b5	d	d1	d2	d3	d4	d5	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11		
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	Element Series	A	D	E
EFMF	1	CA	11	B	-	M03	-	E50	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

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EFMT Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 315 bar
- 110 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

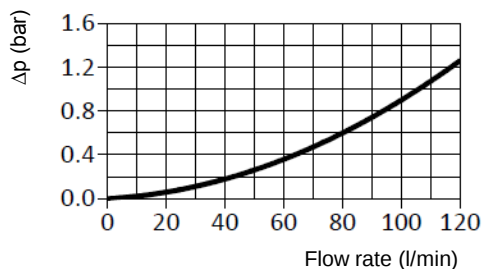
Application	Manifold mounting high pressure filter
Port Sizes:	15 mm
Flow Rate:	max. 110 l/min
Operating Pressure:	max. 315 bar
Burst Pressure:	min. 950 bar
Element Collapse Pressure:	10 bar (P series), 21 bar (M series) 210 bar (H series), 30 bar (Y series)
By-pass Opening Pressure:	$\Delta p=6 \text{ bar} +0.6\text{bar}$
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

EFMT Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

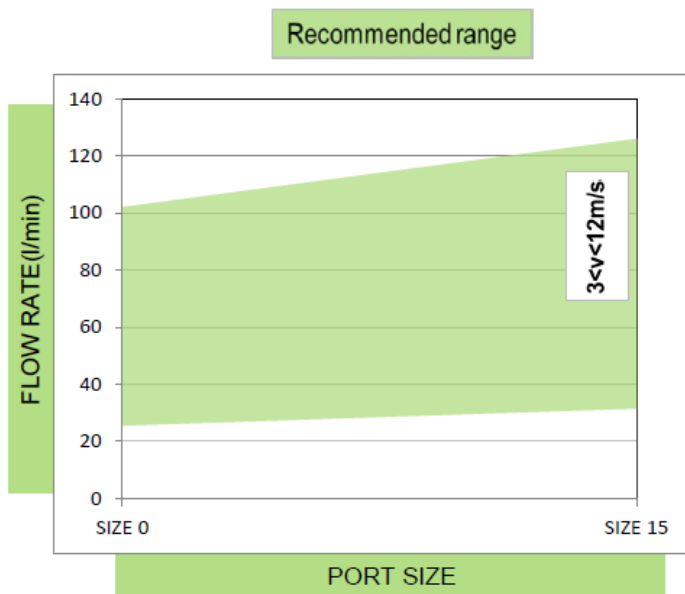
Pressure Drop of Filter Housing only

EFMT1, 2 & 3



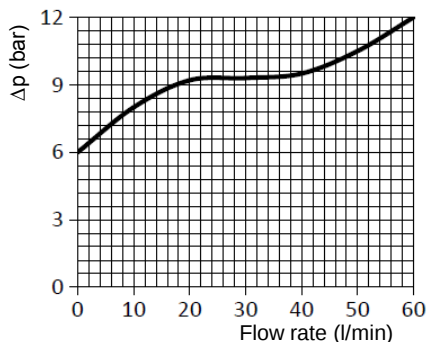
Graph of oil flow velocity

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



Pressure drop graph on by-pass valve

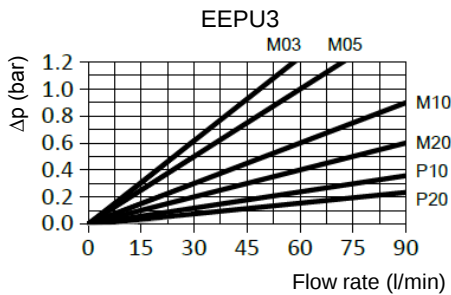
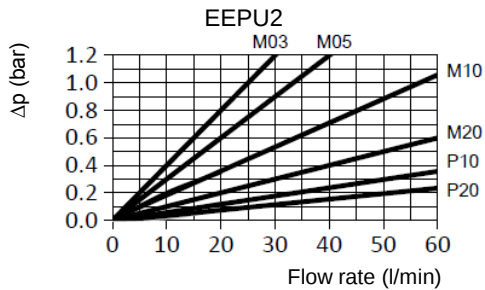
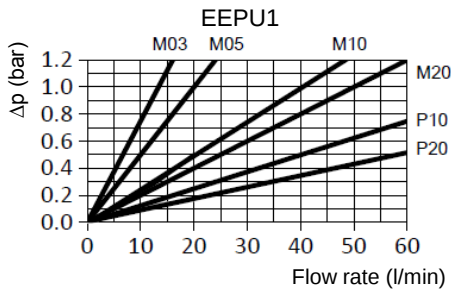
EFMT1,2 & 3



EFMT Manifold Mounting High Pressure Filter

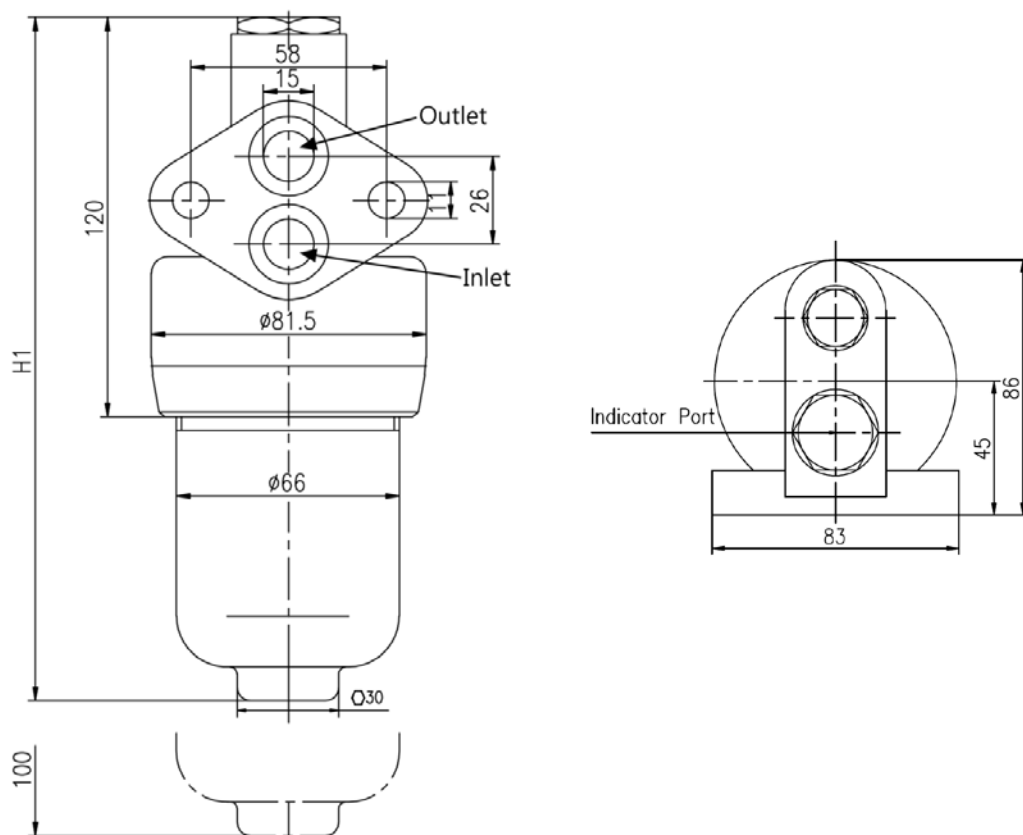
Pressure Drop Graphs (Δp)

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



EFMT Manifold Mounting High Pressure Filter

Technical Drawings and Dimension



Type	Connection Port	Height		O-ring
	mm	mm	h1	
EFMT1	15	194		19X2.65
EFMT2	15	225		19X2.65
EFMT3	15	320		19X2.65

EFMT Manifold Mounting High Pressure Filter

Order Codes

Filter Assembly	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFMT	1	CB	11	B	-	M03	-	V50	EEPU	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	60 l/min
3	110 l/min

B Connection Ports

CB	15mm
----	------

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
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

F Indicator

00	No	Connection
V50	5 bar visual	M20*1.5 Thread
E50	5 bar visual/electrical	M20*1.5 Thread
E50S	5 bar electrical	M20*1.5 Thread
E50T	5 bar electrical with thermostat (30°C)	M20*1.5 Thread

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EFPI Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 315 bar
- 110 l/min max. flow rate
- application in sandwich stacking
- compliant with industry relevant ISO standards(see ISO test below)

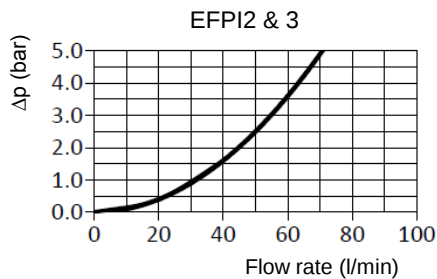
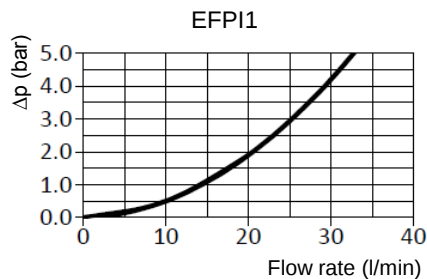
Technical Specifications

Application	Sandwich Stacking high pressure filter
Port Sizes:	between CETOP 4 or 5 valves
Flow Rate:	max. 110 l/min
Operating Pressure:	max. 315 bar
Burst Pressure:	min. 950 bar
Element Collapse Pressure:	210 bar
Indicator on pressure:	$\Delta p = 8 \text{ bar} \pm 10\%$
Material	
Seals:	NBR or FPM (-10°C to 100°C)
Filter Head:	steel
Filter Bowl:	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

EFPI Sandwich Stacking high pressure filter

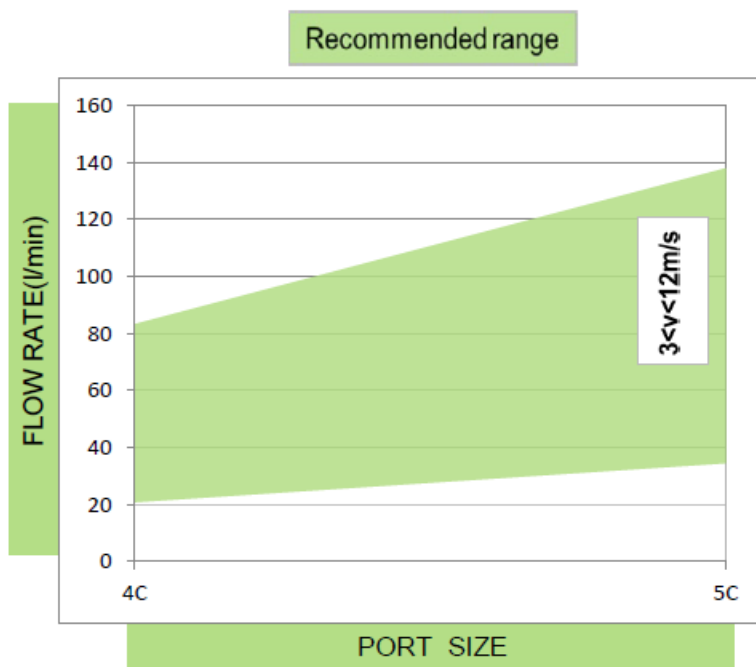
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only



Graph of oil flow velocity

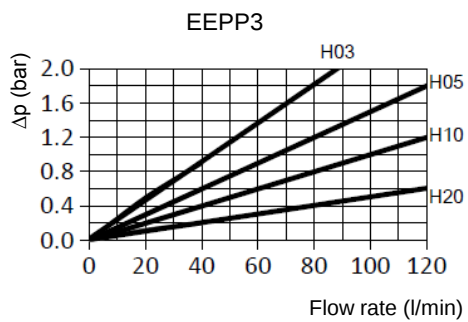
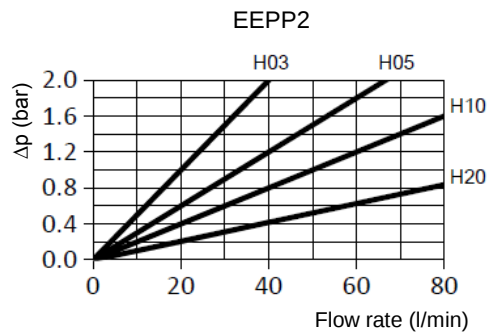
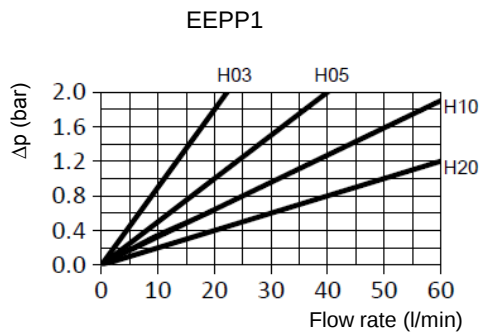
(we recommend to select size of the filter considering range of oil velocity between 3 to 12 m/s for pressure series)

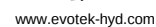
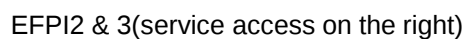


EFPI Sandwich Stacking high pressure filter

Pressure Drop Graphs (Δp)

Pressure Drop with Clean Filter Elements (H filter media)





EFPI Sandwich Stacking high pressure filter

Order Codes

Filter Assembly Series	A	B	C	-	D	-	E	F	Element Series	A	D	E
EFPI	1	4C	B	-	H03	-	E80		EEPP	1	B	H03

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	60 l/min
3	110 l/min

B Connection Ports

4C	4 ports A6 DIN 24340 / CETOP R35H
5C	5 ports A10 DIN 24340 / CETOP R35H

C Seal

B	NBR
V	FPM

D Media Material Filtration Collapse Pressure

H03	Fibreglass	5µm	210 bar
H05	Fibreglass	7µm	210 bar
H10	Fibreglass	12µm	210 bar
H20	Fibreglass	21µm	210 bar

E Indicator

00	No	Connection
V80	8 bar visual	M20*1.5 Thread
E80	8 bar visual/electrical	M20*1.5 Thread
E80S	8 bar electrical	M20*1.5 Thread
E80T	8 bar electrical with thermostat (30°C)	M20*1.5 Thread

F Special

L	service access on the left
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