



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 manifold block mounting
- compliant with industry relevant ISO standards(see ISO test below)

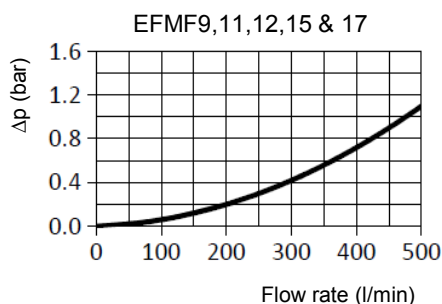
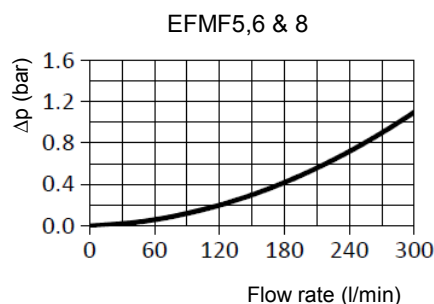
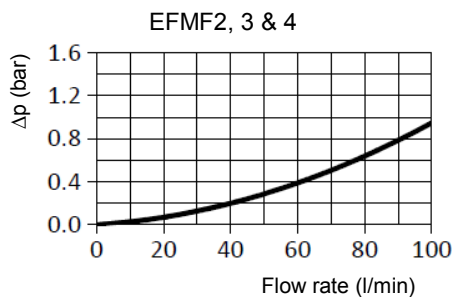
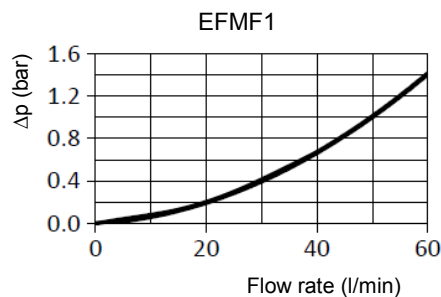
Technical Specifications

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:	30 bar Wire Mesh $\Delta p = 6 \text{ bar} + 0.6 \text{ bar}$
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

EFMF Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

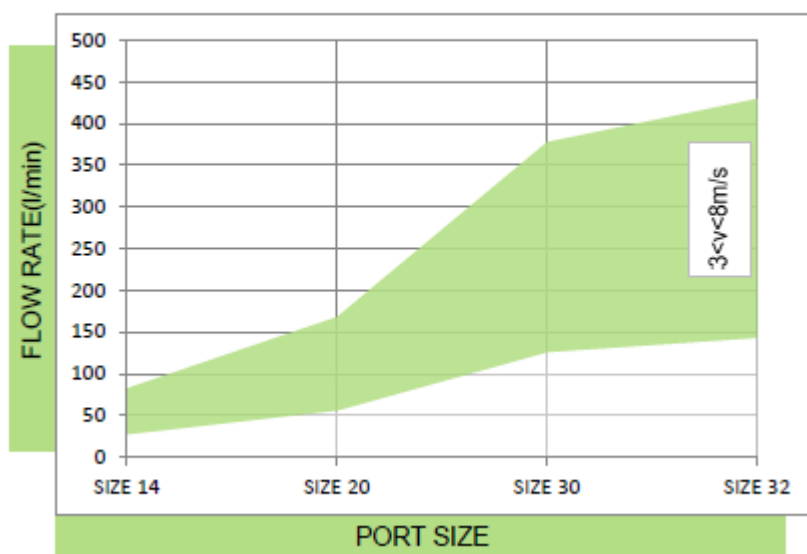
Pressure Drop of Filter Housing only



Graph of oil flow velocity

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

Recommended range

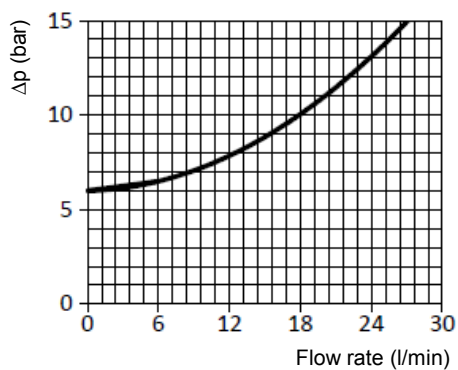


EFMF Manifold Mounting High Pressure Filter

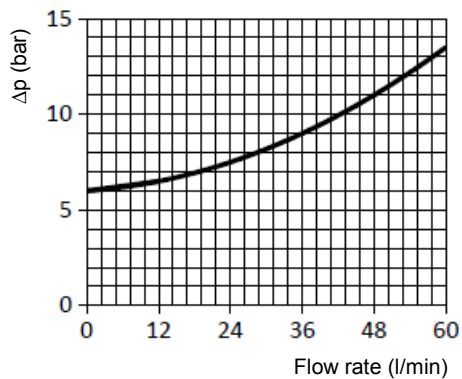
Pressure Drop Graphs (Δp)

Pressure drop graph on by-pass valve

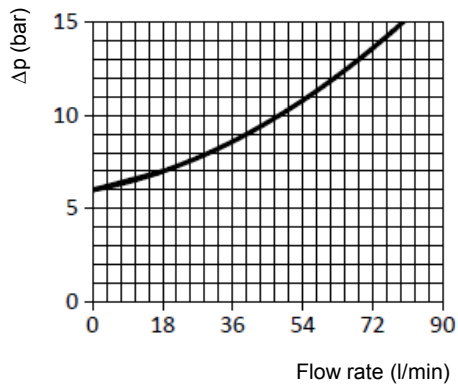
EFMF1



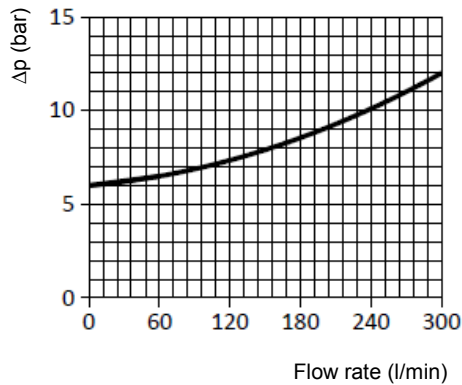
EFMF2,3 & 4



EFMF5,6 & 8



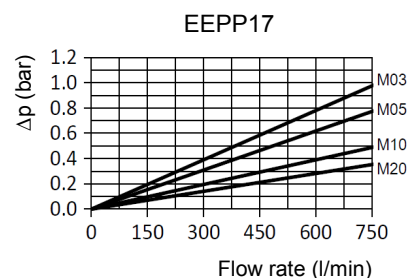
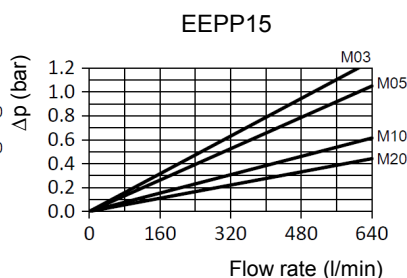
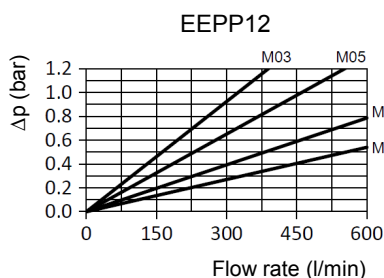
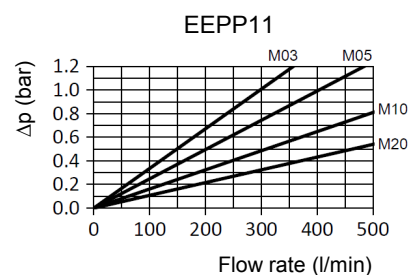
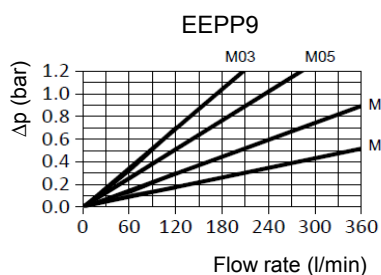
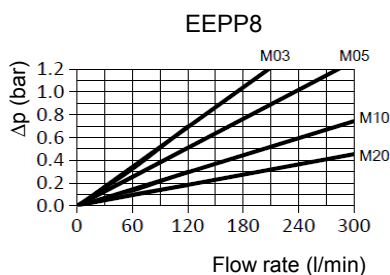
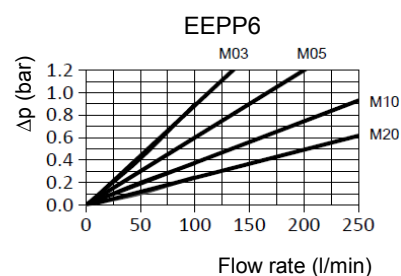
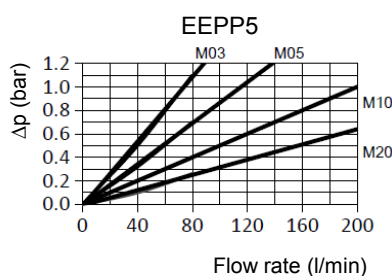
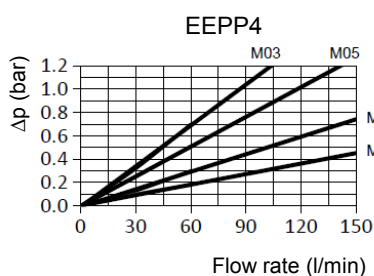
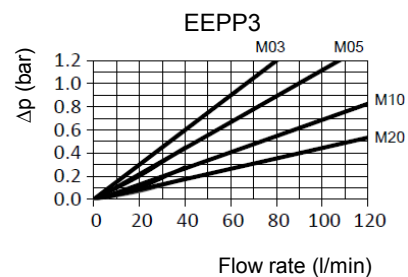
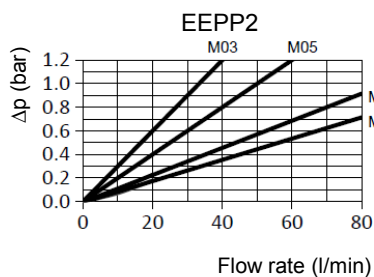
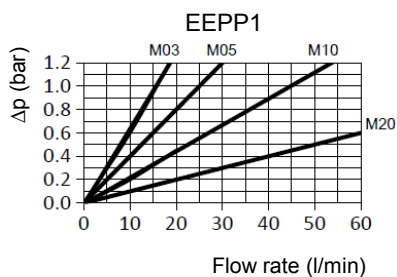
EFMF9,11,12,15 & 17



EFMF Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

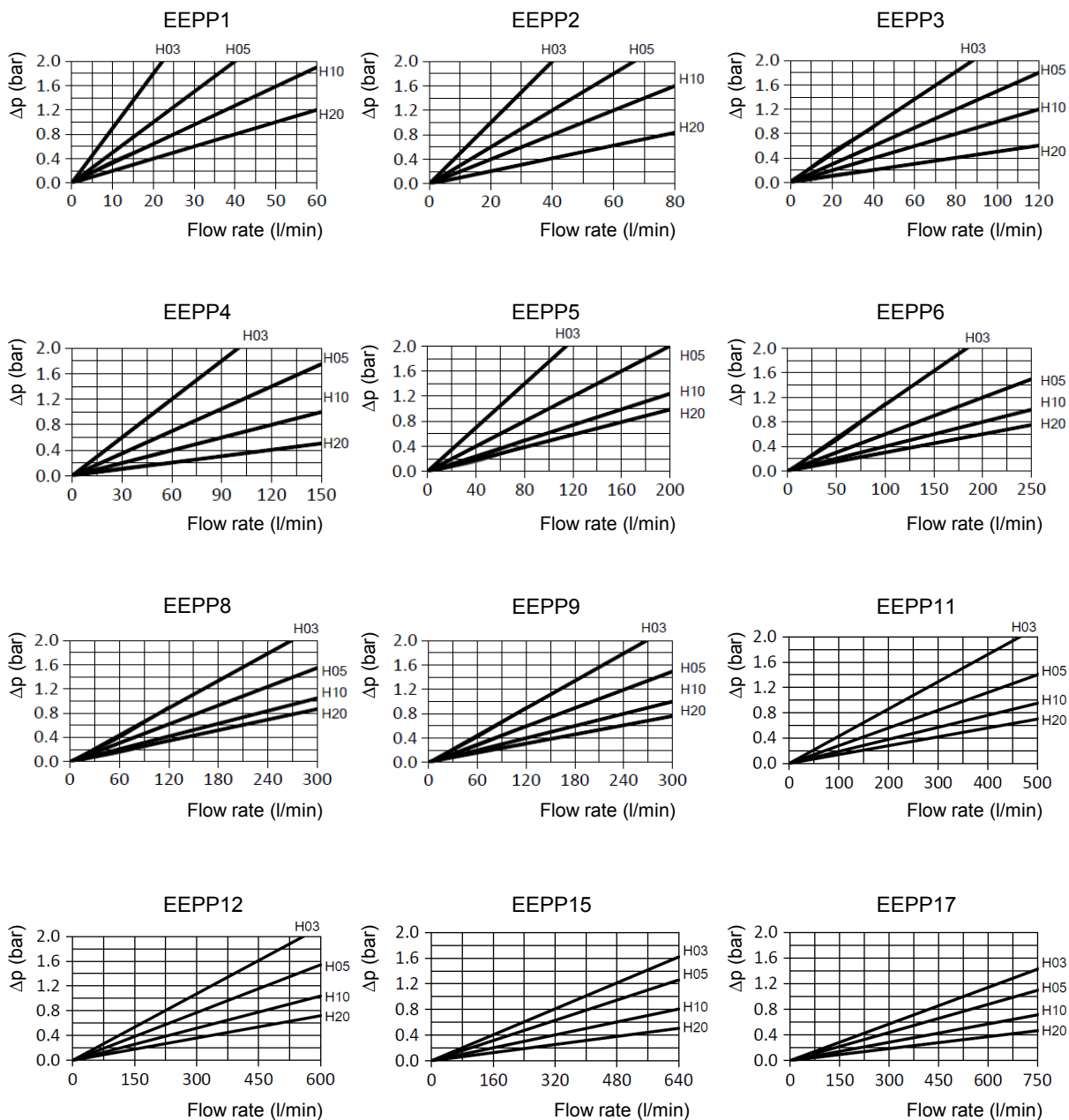
Pressure Drop with Clean Filter Elements (M filter media)



EFMF Manifold Mounting High Pressure Filter

Pressure Drop Graphs (Δp)

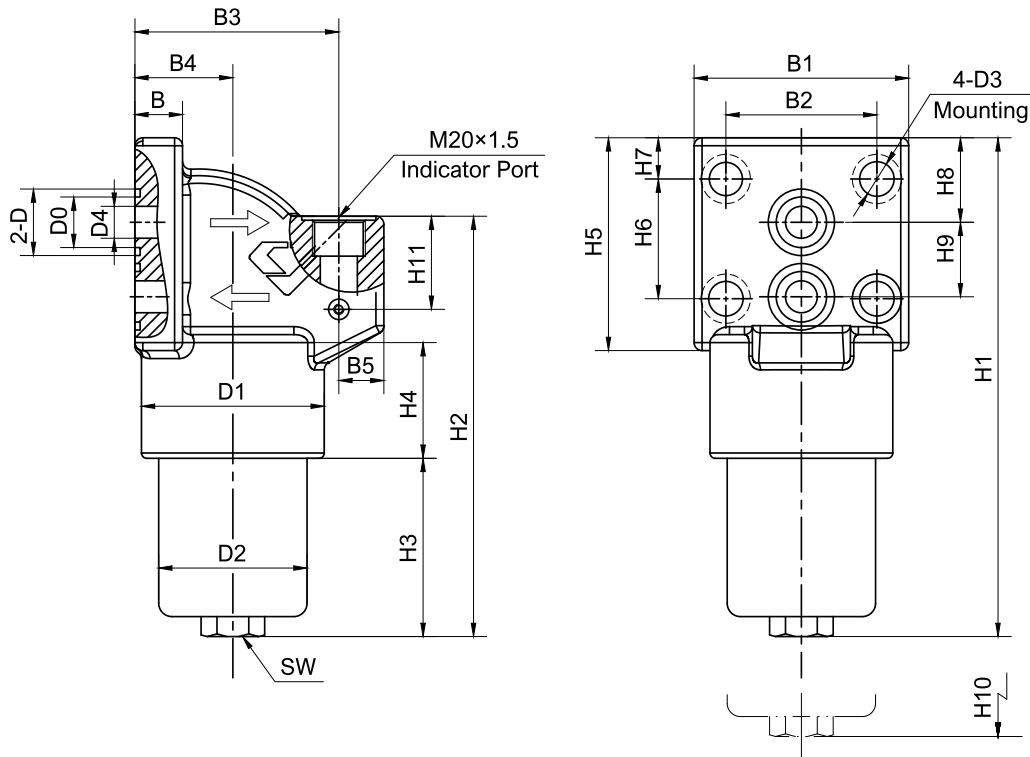
Pressure Drop with Clean Filter Elements (H filter media)



EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMF1



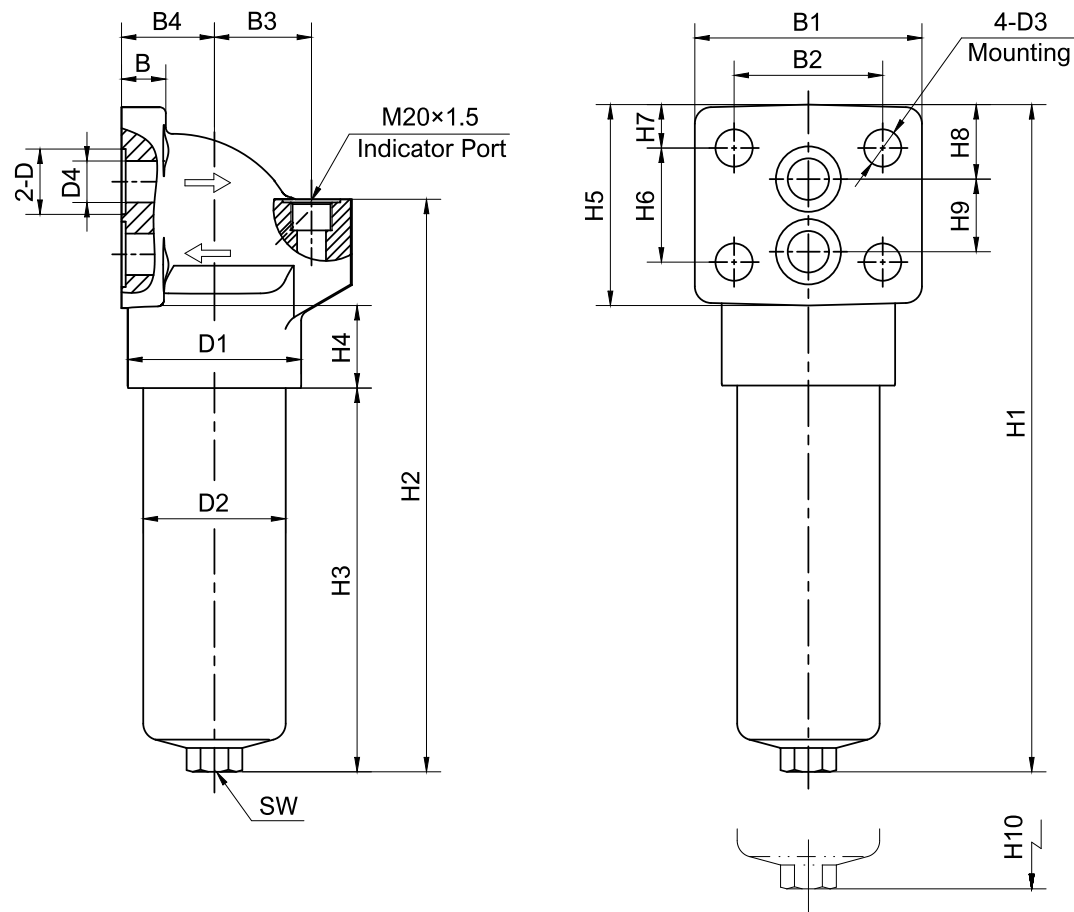
Threaded Connection Ports

Type	Connection Port width		Dia											
	mm	mm		B	B1	B2	B3	B4	B5	D	D0	D1	D2	D3
EFMF1	18	80	57	77	37	17	25	19	67	56	13	12		
Type	Height													
	mm	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	SW	O-ring
EFMF1	197	176	78	48	76	45	15.5	30.5	28	75	35	24	18X2.5	

EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMF2,3 to EFMF4



Threaded Connection Ports

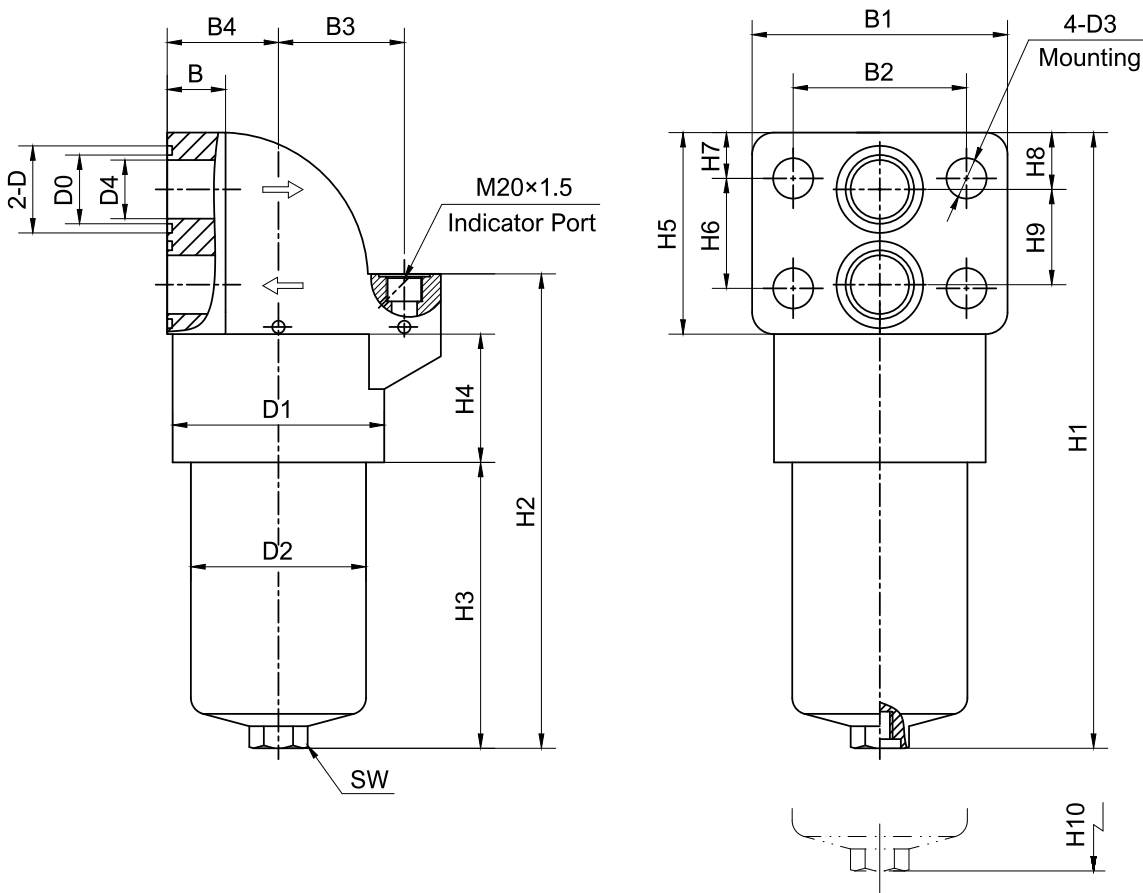
Type	Connection Port width		Dia								
	mm	mm	mm								
Type	B	B1	B2	B3	B4	B5	D	D1	D2	D3	D4
EFMF2	20	110	72	47	45	48	26	84	68	18	20
EFMF3	20	110	72	47	45	48	26	84	68	18	20
EFMF4	20	110	72	47	45	48	26	84	68	18	20

Type	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	SW	O-ring
EFMF2	217	181	83	45.5	94	55	19.5	34.5	35	85	27	24X3
EFMF3	284	248	150	45.5	94	55	19.5	34.5	35	85	27	24X3
EFMF4	328	292	194	45.5	94	55	19.5	34.5	35	85	27	24X3

EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMF5,6 to EFMF8



Threaded Connection Ports

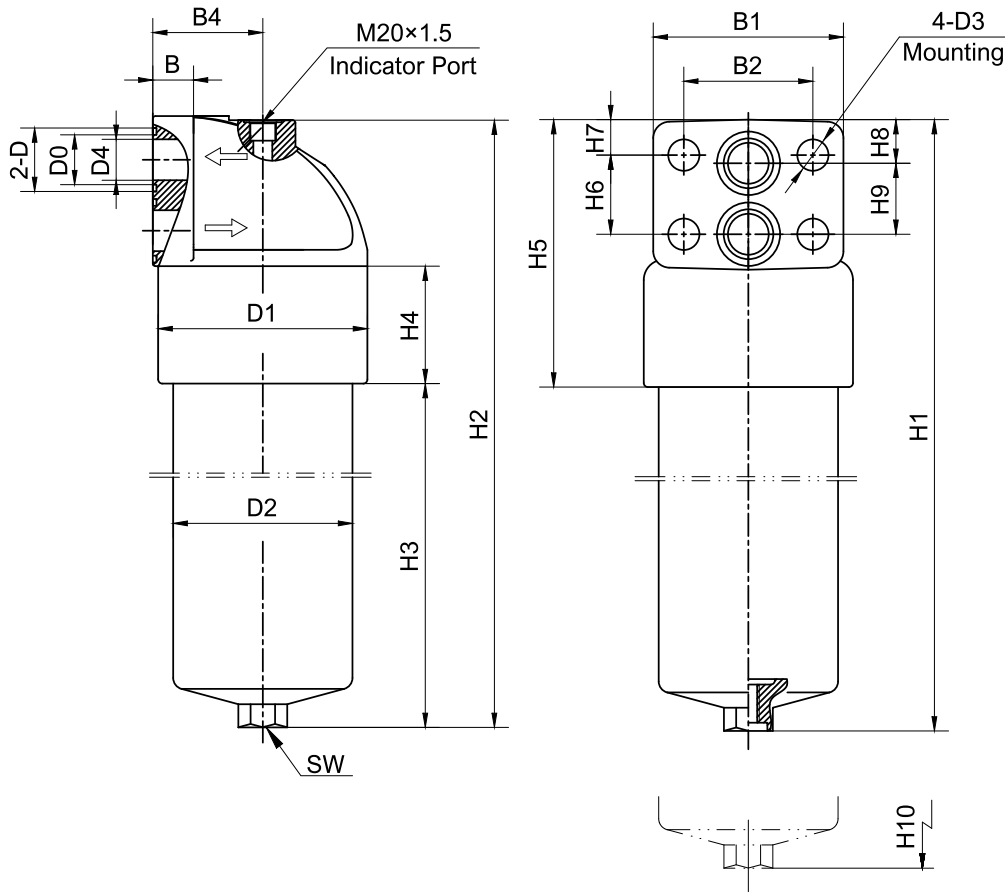
Type	Connection Port width mm					Dia mm						
	B	B1	B2	B3	B4	B5	D	D0	D1	D2	D3	D4
EFMF5	30	140	95	69	59	69	47.5	37.5	116	95	22	32
EFMF6	30	140	95	69	59	69	47.5	37.5	116	95	22	32
EFMF8	30	140	95	69	59	69	47.5	37.5	116	95	22	32

Type	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	SW	O-ring
EFMF5	280	222	117	61	110	60	25	31	52	105	32	40X3.5
EFMF6	340	282	177	61	110	60	25	31	52	105	32	40X3.5
EFMF8	522	464	359	61	110	60	25	31	52	105	32	40X3.5

EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMF9,11 to EFMF12



Threaded Connection Ports

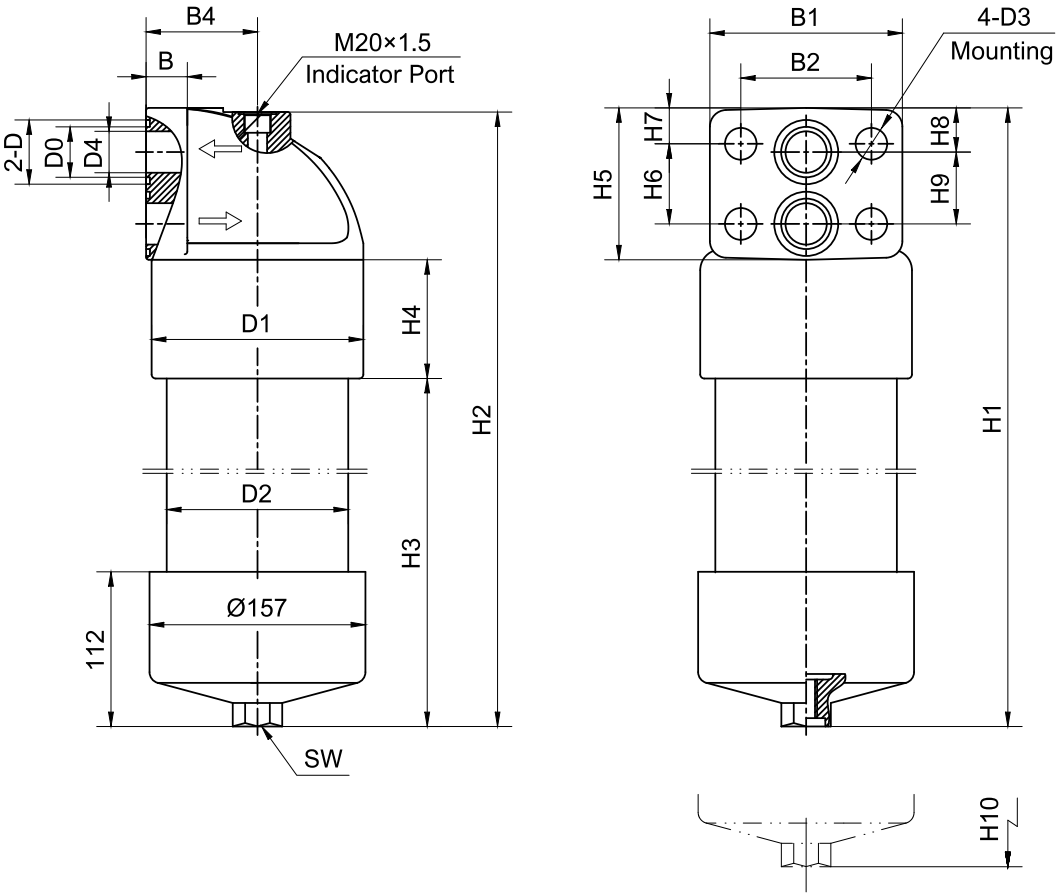
Connection Port width mm					Dia mm					
Type	B	B1	B2	B4	D	D0	D1	D2	D3	D4
EFMF9	30	140	95	79.5	46.5	36.5	154	130	23	30
EFMF11	30	140	95	79.5	46.5	36.5	154	130	23	30
EFMF12	30	140	95	79.5	46.5	36.5	154	130	23	30

Type	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	SW	O-ring
EFMF9	353	357	157	94	110	58	26	32	52	115	36	40X3.5
EFMF11	446	450	250	94	110	58	26	32	52	115	36	40X3.5
EFMF12	523	527	329	94	110	58	26	32	52	115	36	40X3.5

EFMF Manifold Mounting High Pressure Filter

Technical Drawings and Dimension

EFMF15 to EFMF17



Threaded Connection Ports

		Connection Port width mm				Dia mm						
Type	B	B1	B2	B4	D	D0	D1	D2	D3	D4		
EFMF15	30	140	95	79.5	46.5	36.5	154	132	23	30		
EFMF17	30	140	95	79.5	46.5	36.5	154	132	23	30		
Type	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	SW	O-ring
EFMF15	673	677	477	94	110	58	26	32	52	500	36	40X3.5
EFMF17	839	843	643	94	110	58	26	32	52	670	36	40X3.5

EFMF Manifold Mounting High Pressure Filter

Order Codes

Filter Assembly Series	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	Fiberglass	5µm	21 bar
M05	Fiberglass	7µm	21 bar
M10	Fiberglass	12µm	21 bar
M20	Fiberglass	21µm	21 bar
H03	Fiberglass	5µm	210 bar
H05	Fiberglass	7µm	210 bar
H10	Fiberglass	12µm	210 bar
H20	Fiberglass	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		Connection
00	No	
V50	5 bar visual	M20*1.5 Thread
E50	5 bar visual/electrical	M20*1.5 Thread

Notes

[illegible]