EFDM Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 210 bar
- 400 l/min max. flow rate
- installation in pressure line
- application in Ship steering, Continuous operation industrial systems and High flow flushing systems
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

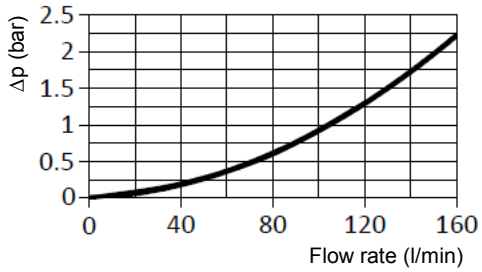
Application ：	In-line duplex filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in ¾”, 1-¼” ,1-½” inch SAE12/SAE20/SAE24 threads Flange Connections in SAE DN40 for 3000psi
Flow Rate:	max. 400 l/min
Operating Pressure:	max. 210 bar
Burst Pressure:	min. 630 bar
Element Collapse Pressure:	21 bar or 210 bar Fiberglass 30 bar Wire Mesh
By-pass Opening Pressure:	Δp =7bar ± 0.5bar
Clogging indicator setting:	Δp= 5bar ± 10%
Material	
Seals:	NBR or FPM (-25°C to 100°C)
Filter Head:	Cast iron
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

EFDM Pressure Filter Series

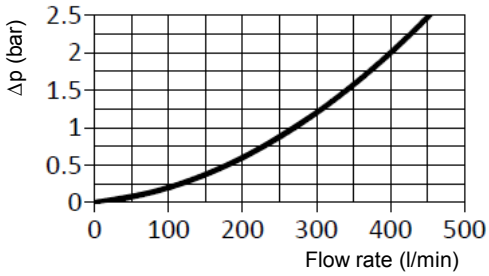
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFDM2, EFDM3 & EFDM4



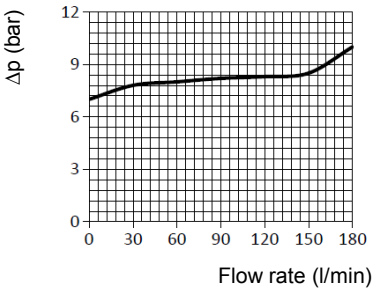
EFDM5.2, EFDM7.2 & EFDM10.2



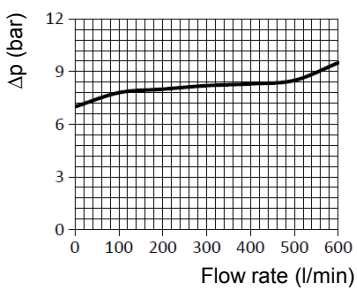
Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 3 to 12 m/s for return series)

Pressure drop graph on by-pass valve

EFDM2,3 & 4



EFDM5.2,7.2& 10.2

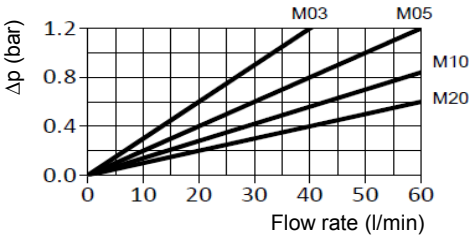


EFDM Pressure Filter Series

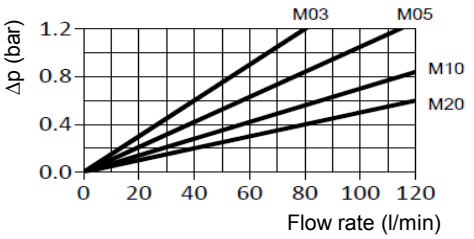
Pressure Drop Graphs (Δp)

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

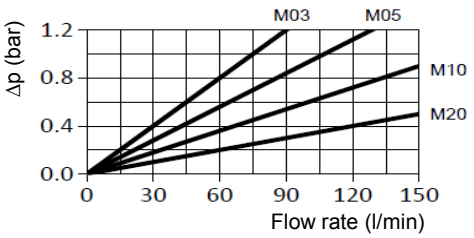
EEDM2



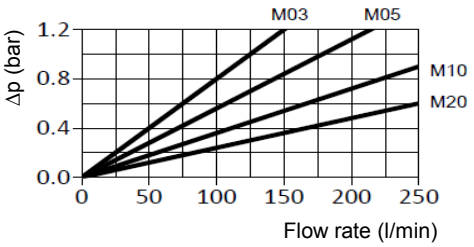
EEDM3



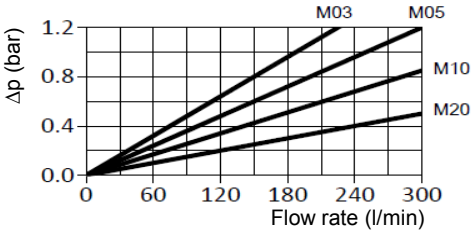
EEDM4



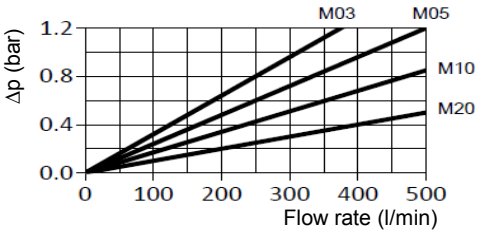
EEDM5.2



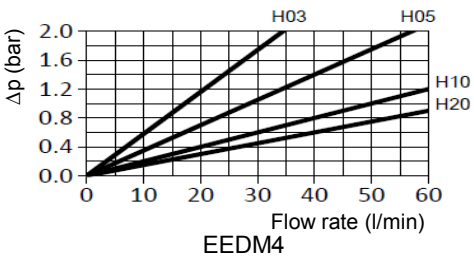
EEDM7.2



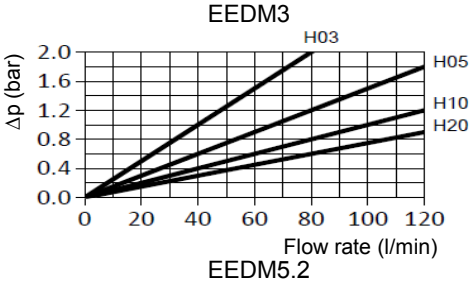
EEDM10.2



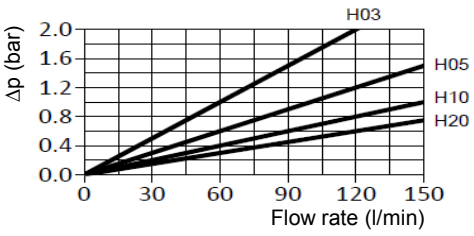
EEDM2



EEDM3



EEDM4



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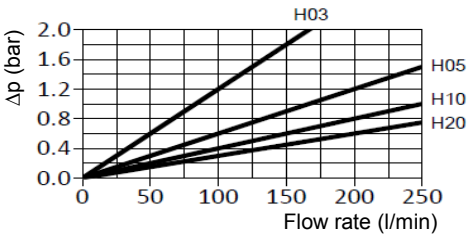
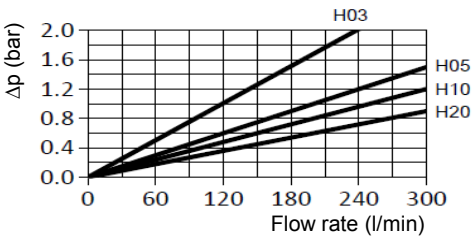
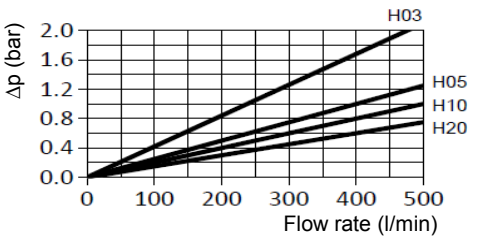


EEDM7.2

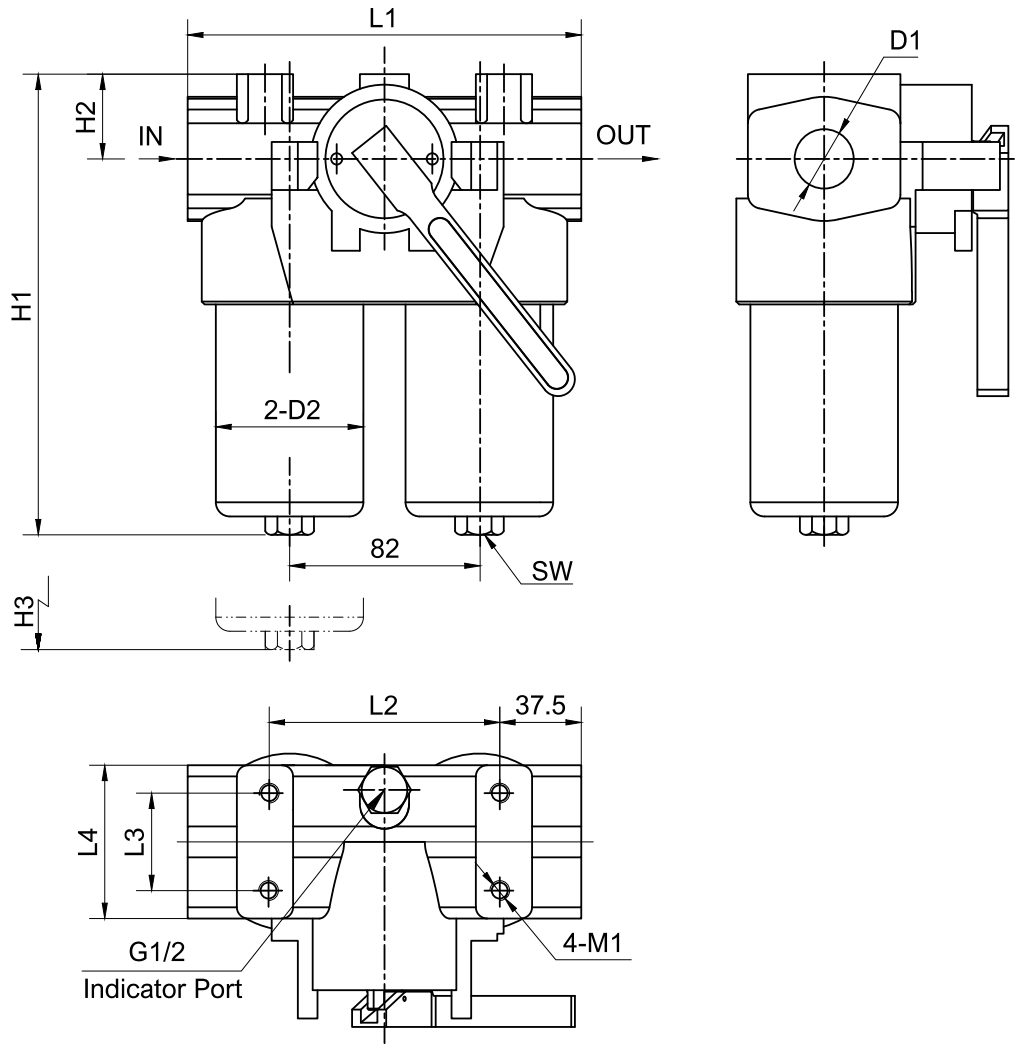


EEDM10.2



EFDM Pressure Filter Series

Technical Drawings and Dimension



Connection Port
(BSP/NPT/SAE)

	inch	H/mm									
Type	D1	D2	D3	H1	H2	H3	L1	L2	L3	L4	SW
EFDM2		68	M8x16	180	38	76	190	106	54.5	70	27
EFDM3	¾",SAE12	68	M8x16	245	38	76	190	106	54.5	70	27
EFDM4		68	M8x16	290	38	76	190	106	54.5	70	27

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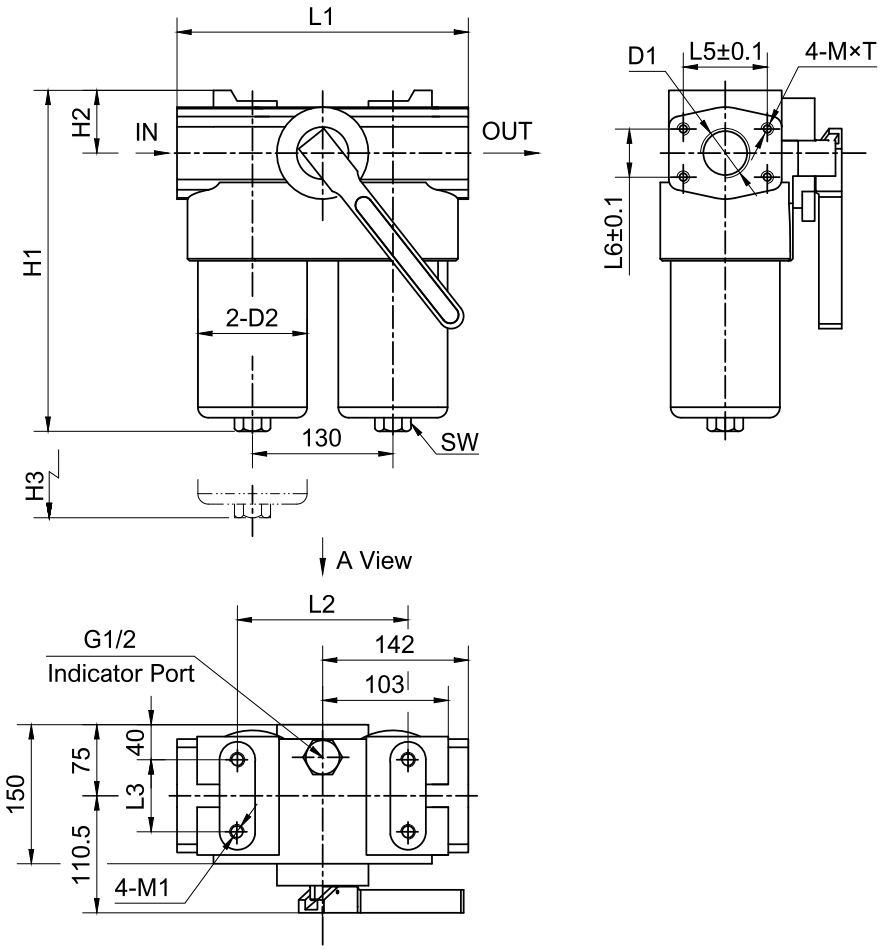

Connection Port
(BSP/NPT/SAE)

	inch	H/mm												
Type	D1	D2	D3	H1	H2	H3*	L1	L2	L3	L5	L6	M	T	SW
EFDM5.2	1¼",SAE20	115.5	M12x18	308	65	85	285	210	62	-	-	-	-	32
EFDM7.2	1½",SAE24	115.5	M12x18	398	65	85	285	210	62	-	-	-	-	32
EFDM10.2	SAE DN40 3000 psi	115.5	M12x18	548	65	85	285	210	62	69.9	35.7	12	23	32

EFDM Pressure Filter Series

Order Codes

Filter. Assembly Series	A	B	C	D	-	E	-	F
EFDM	2	BC	12	B	-	M03	-	5PV

Element Series	A	D	E
EEDM	2	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
5.2	160 l/min
7.2	250 l/min
10.2	400 l/min

B Connection Ports	
BC	BSP ¾"
BE	BSP 1-¼"
BF	BSP 1-½"
NC	NPT ¾"
NE	NPT 1-¼"
NF	NPT 1-½"
A12	SAE12
A20	SAE20
A24	SAE24
FE	SAE DN40 3000psi

C By-pass Valve	
00	NO
09	3.5bar
12	7bar

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	N0		
2.5PV	2.5bar	Visual	BSP½" Thread
2.5PE	2.5bar	Electrical	BSP½" Thread
2.5PB	2.5 bar	Visual/Electrical	BSP½" Thread
5PV	5bar	Visual	BSP½" Thread
5PE	5bar	Electrical	BSP½" Thread
5PB	5 bar	Visual/Electrical	BSP½" Thread