



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 :

Port Sizes:

Flow Rate:

Operating Pressure:

Burst Pressure:

Element Collapse Pressure:

By-pass Opening Pressure:

Clogging indicator setting:

Material

Seals:

Filter Head:

Filter Bowl:

Compatibility:

Tested according to ISO standards:

In-line duplex filter

Threaded Connections according to BSP and NPT standard in $\frac{3}{4}$ ", $1\frac{1}{4}$ " , $1\frac{1}{2}$ " inch

SAE12/SAE20/SAE24 threads

Flange Connections in SAE DN40 for 3000psi max. 400 l/min

max. 210 bar

min. 630 bar

21 bar or 210 bar Fiberglass

30 bar Wire Mesh

$\Delta p = 7\text{bar} \pm 0.5\text{bar}$

$\Delta p = 5\text{bar} \pm 10\%$

NBR or FPM (-25°C to 100°C)

Cast iron

Steel

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)

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

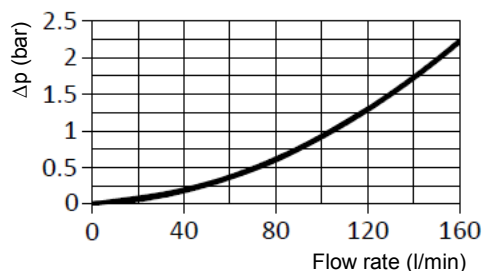
ISO16889 Multi-Pass Test

EFDM Pressure Filter Series

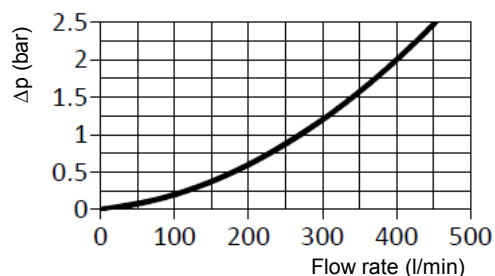
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFDM2, EFDM3 & EFDM4



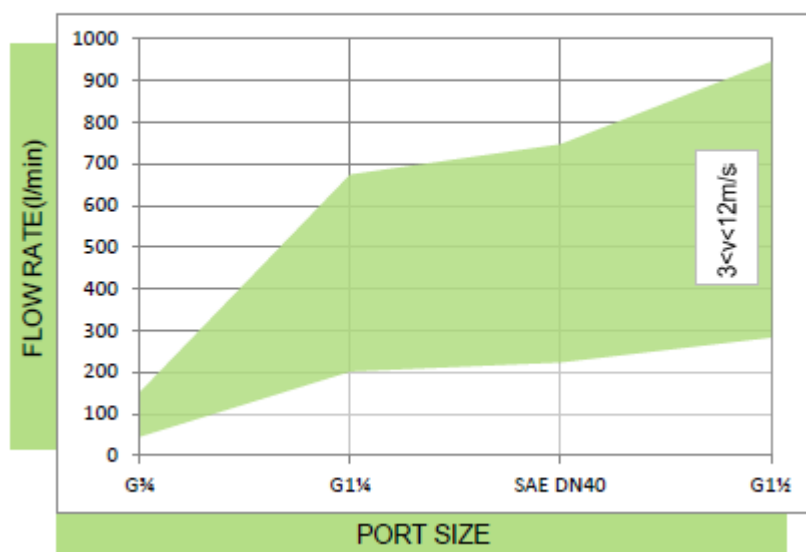
EFDM5.1, EFDM7.1 & EFDM10.1



Graph of oil flow velocity

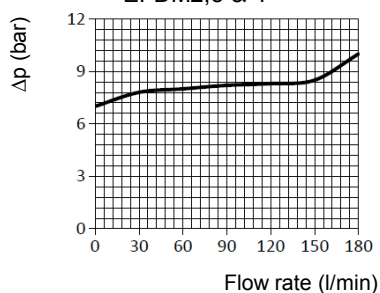
(we recommend to select size of the filter considering range of oil velocity between 3 to 12 m/s for return series)

Recommended range

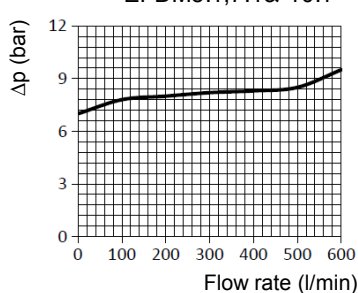


Pressure drop graph on by-pass valve

EFDM2,3 & 4



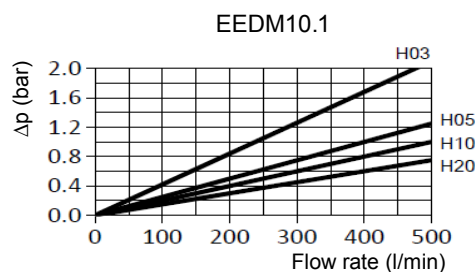
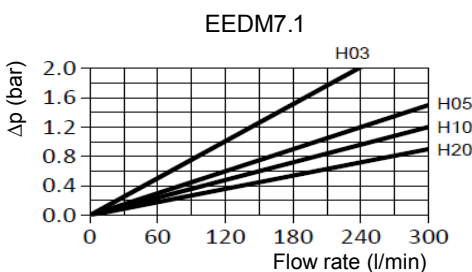
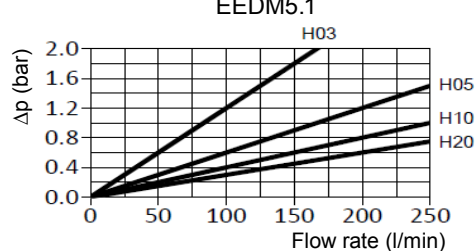
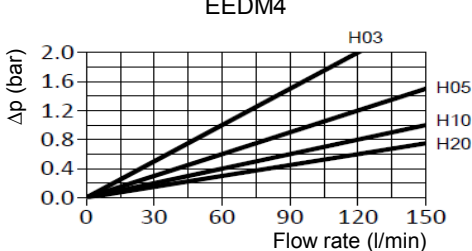
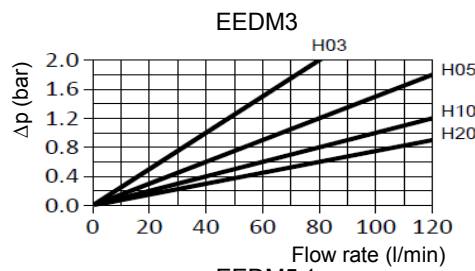
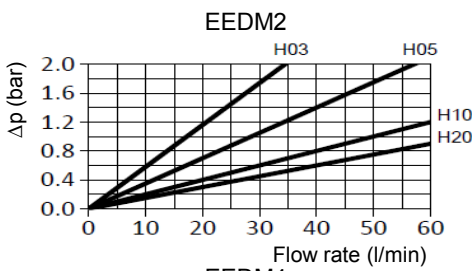
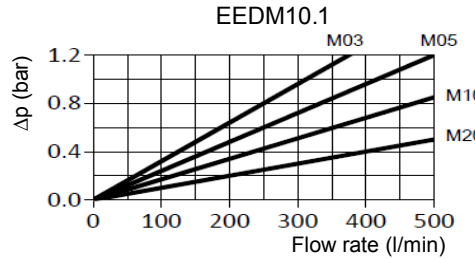
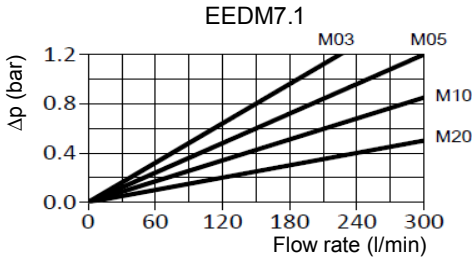
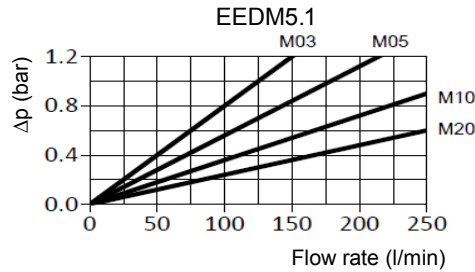
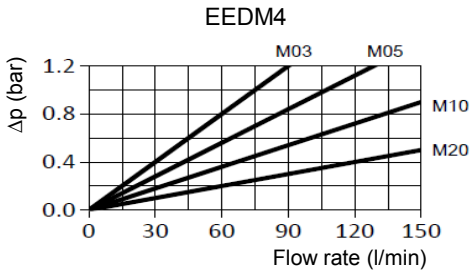
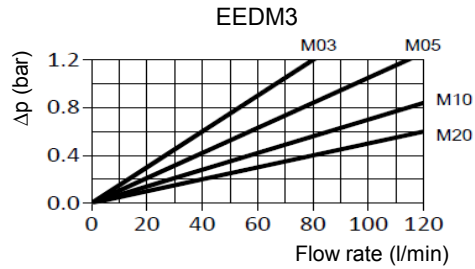
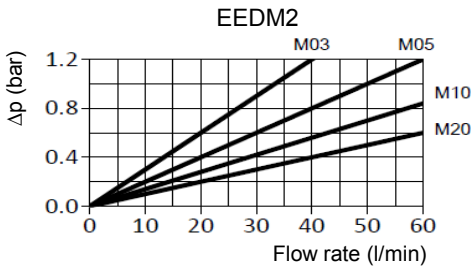
EFDM5.1, 7.1 & 10.1



EFDM Pressure Filter Series

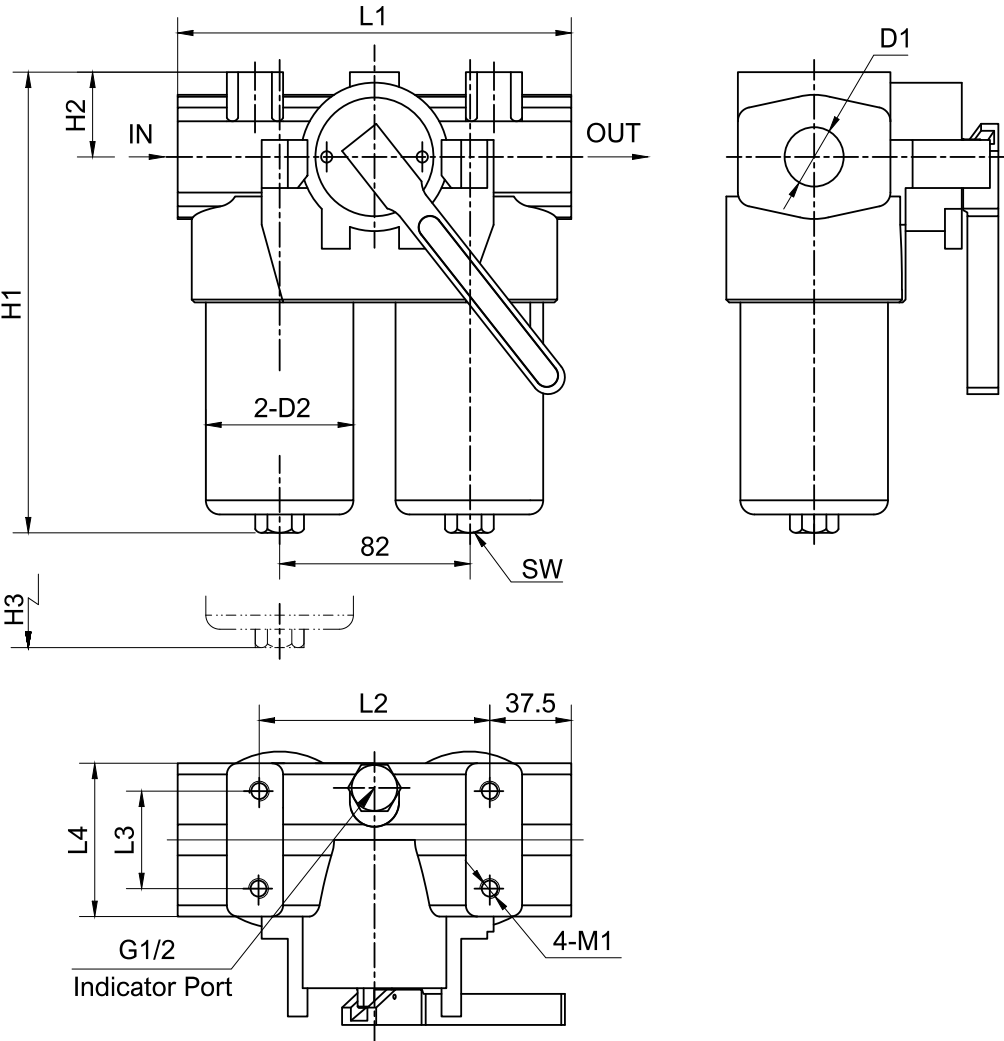
Pressure Drop Graphs (Δp)

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



EFDM Pressure Filter Series

Technical Drawings and Dimension

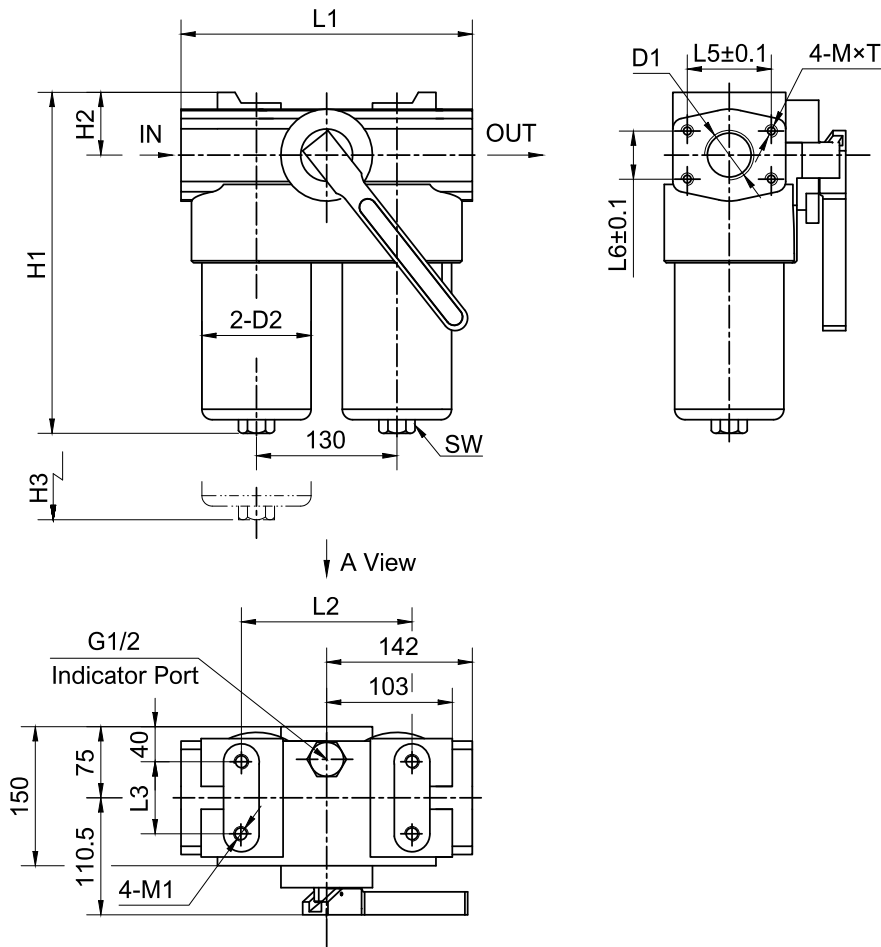


Connection Port
(BSP/NPT/SAE)

Type	inch	H/mm									
	D1	D2	D3	H1	H2	H3	L1	L2	L3	L4	SW
EFDM2	3/4",SAE12	68	M8x16	180	38	76	190	106	54.5	70	27
EFDM3		68	M8x16	245	38	76	190	106	54.5	70	27
EFDM4		68	M8x16	290	38	76	190	106	54.5	70	27

EFDM Pressure Filter Series

Technical Drawings and Dimension



Connection Port
(BSP/NPT/SAE)

Type	inch			H/mm										
	D1	D2	D3	H1	H2	H3*	L1	L2	L3	L5	L6	M	T	SW
EFDM5.1	1¼",SAE20	115.5	M12x18	308	65	85	282	164	70	-	-	-	-	32
EFDM7.1	1½",SAE24	115.5	M12x18	398	65	85	282	164	70	-	-	-	-	32
EFDM10.1	SAE DN40 3000 psi	115.5	M12x18	548	65	85	282	164	70	69.9	35.7	12	23	32

EFDM Pressure Filter Series

Order Codes

Filter. Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFDM	2	BC	12	B	-	M03	-	5PV	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
5.1	160 l/min
7.1	250 l/min
10.1	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

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