

EFPG Series

EVOTEK Medium Pressure Filters



Product Description

- Operating pressure up to 70 bar
- 660 l/min max. flow rate
- installation in pressure line
- application in Off-line Filter Loops, Machine Tools , Mobile Equipment, Injection Molding, Oil Patch Drilling Equipment and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Inline Medium Pressure Filter

Port Sizes:

Threaded Connections according to BSP and NPT standard in ½ " to 1½" and SAE08/SAE12/SAE20/SAE24 threads

Flow Rate:

max. 660 l/min

Operating Pressure:

max. 70 bar

Burst Pressure:

min. 210 bar

Element Collapse Pressure:

21 bar (M series), 30bar (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:

Aluminum

Filter Bowl:

Aluminum

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

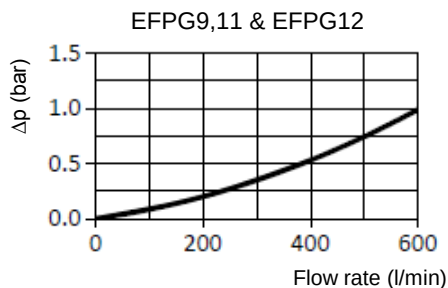
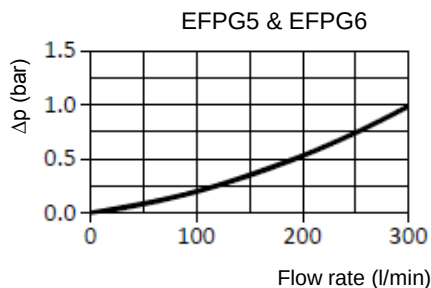
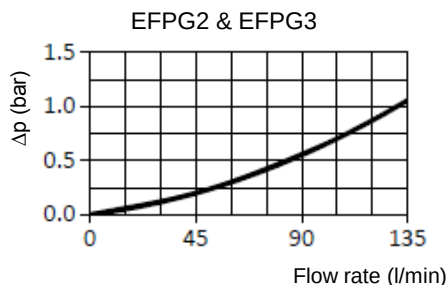
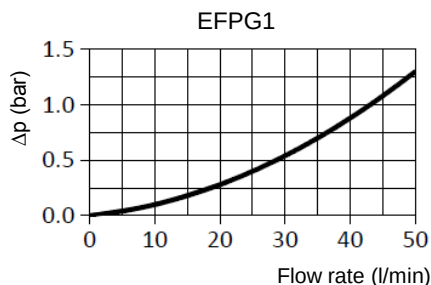
ISO3968 Pressure Drop vs. Flow Rate

ISO16889 Multi-Pass Test

EFPG High Medium Filter Series

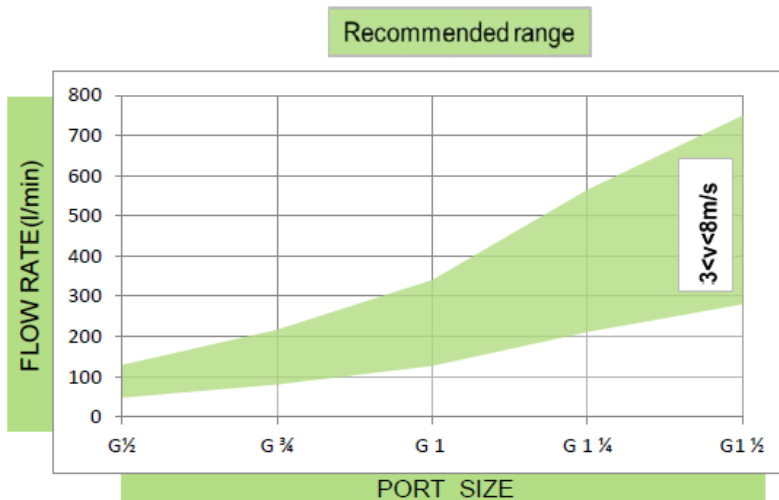
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

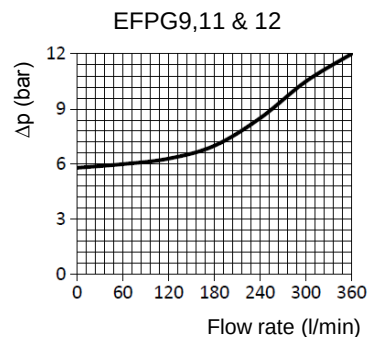
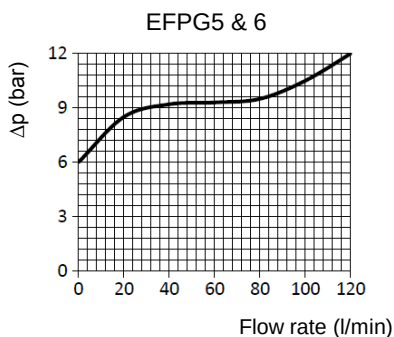
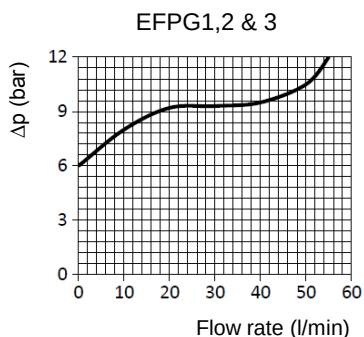


Graph of oil flow velocity

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



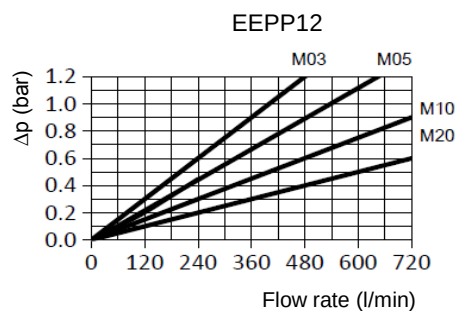
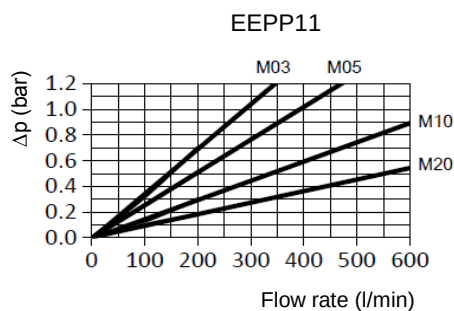
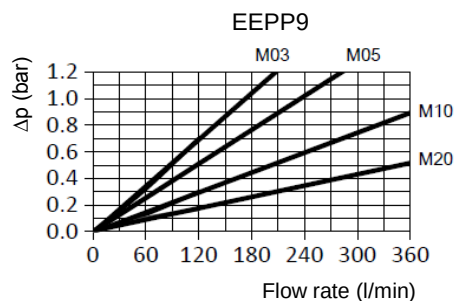
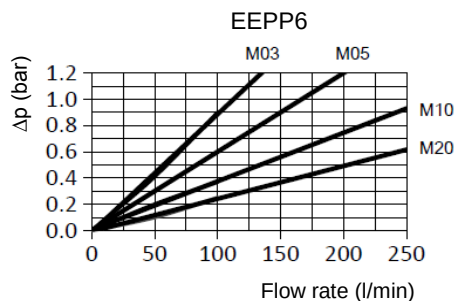
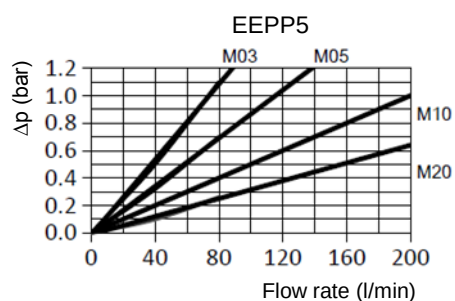
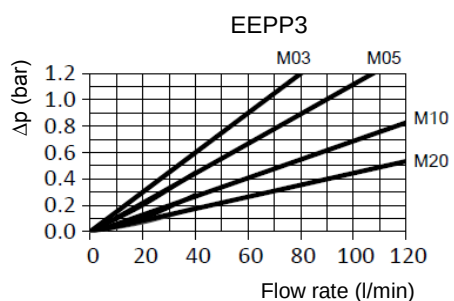
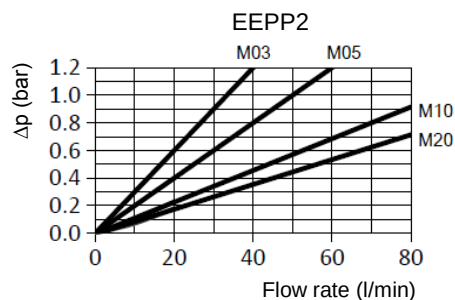
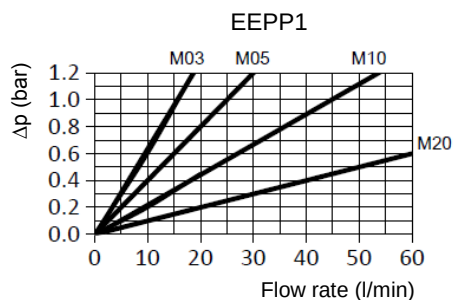
Pressure drop graph on by-pass valve



EFPG Medium Pressure Filter Series

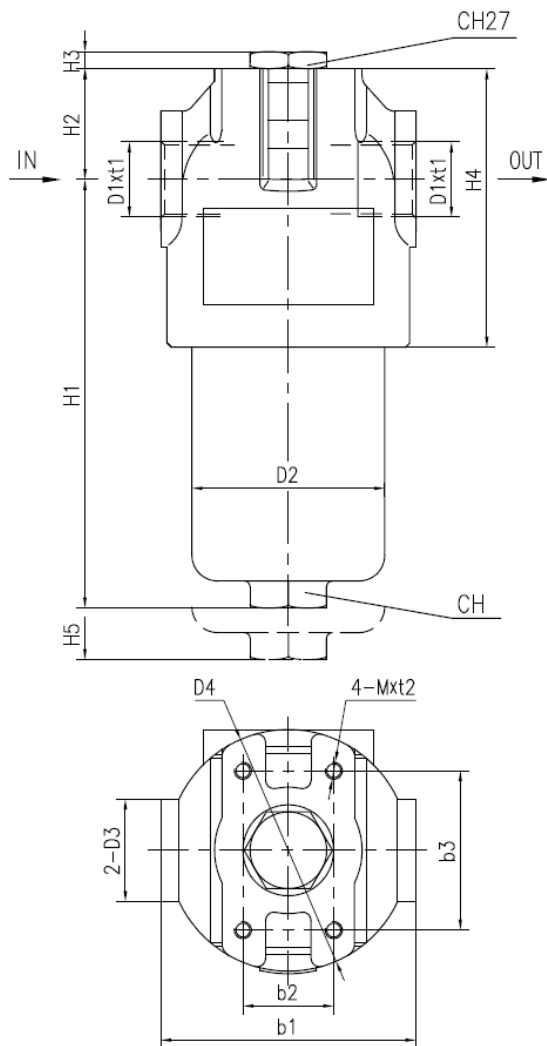
Pressure Drop Graphs (Δp)

Pressure Drop with Clean Filter Elements (M filter media)



EFPG Medium Pressure Filter Series

Technical Drawings and Dimension



Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)	Height															
	inch	mm	H1	H2	H3	H4	H5	D2	D3	D4	b1	b2	b3	CH	M	t1	t2
EFPG1	1/2", SAE08		136	31	6	88	75	52	36	67	69	30	45	24	M5	15	9
EFPG2	3/4", SAE12		138	39	6	98	75	68	42	85	90	32	56	27	M6	21	10
EFPG3			206	39	6	98	75	68	42	85	90	32	56	27	M6	21	10
EFPG5	1 1/4", SAE20		190	46	6	123	95	95	65	116	125	35	85	32	M10	25	17
EFPG6			250	46	6	123	95	95	65	116	125	35	85	32	M10	25	17
EFPG9	1 1/2", SAE24		250	52	6	138	105	130	85	160	160	60	115	36	M12	27	25
EFPG11			341	52	6	138	105	130	85	160	160	60	115	36	M12	27	25
EFPG12			416	52	6	138	105	130	85	160	160	60	115	36	M12	27	25

EFPG Medium Pressure Filter Series

Order Codes

Filter Assembly	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFPG	1	BB	11	B	-	M20	-	5PB	EEPP	1	B	M20

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
5	160 l/min
6	240 l/min
9	330 l/min
11	500 l/min
12	660 l/min

B Connection Ports

A08	SAE08
A12	SAE12
A20	SAE20
A24	SAE24
BB	BSP ½"
BC	BSP ¾"
BE	BSP 1-¼"
BF	BSP 1-½"
NB	NPT ½"
NC	NPT ¾"
NE	NPT 1-¼"
NF	NPT 1-½"

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
Y25	Wire Mesh	25µm	30 bar
Y60	Wire Mesh	60µm	30 bar

F Indicator

00	No	Connection
5PV	5 bar visual	BSP ½" Thread
5PE	5 bar visual/electrical	BSP ½" Thread
5PB	5 bar electrical	BSP ½" Thread

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