



EFPL Series

EVOTEK Medium Pressure Filters

Product Description

- Operating pressure up to 110 bar
- 160 l/min max. flow rate
- installation in pressure line
- application in Machine Tools, Power Units , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

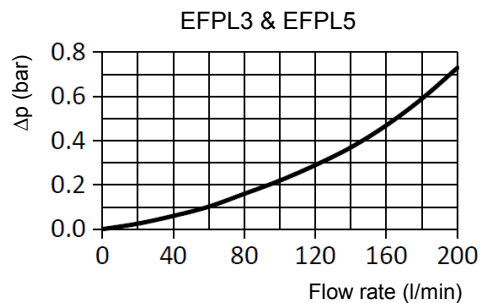
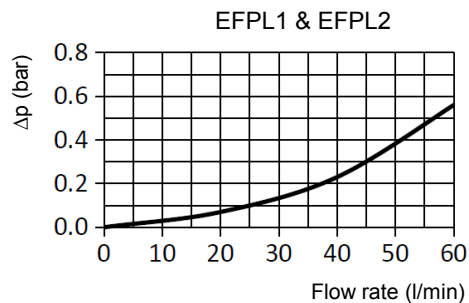
Technical Specifications

Application	Inline Medium Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in ½ " or 1" and SAE08/SAE12 threads
Flow Rate:	max. 160 l/min
Operating Pressure:	max. 110 bar
Burst Pressure:	min. 330 bar
Element Collapse Pressure:	10 bar (P series), 21 bar (M series), 30 bar (Y series)
By-pass Opening Pressure:	$\Delta p = 6 \text{ bar} + 0.6 \text{ bar}$
Material	
Seals:	NBR or FPM (-25°C to 100°C)
Filter Head:	Aluminium die-casting alloys
Filter Bowl:	Anodized aluminium alloy
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

EFPL Medium Pressure Filter Series

Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

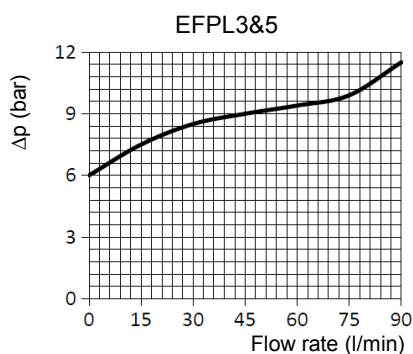
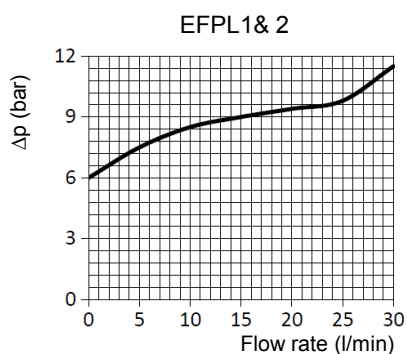


Graph of oil flow velocity

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



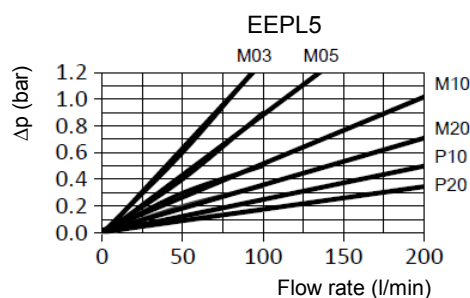
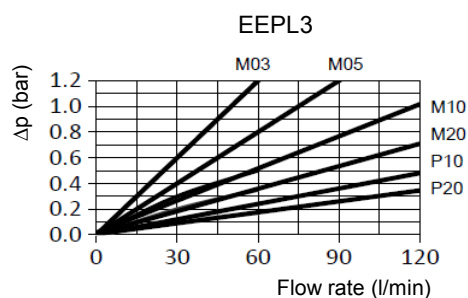
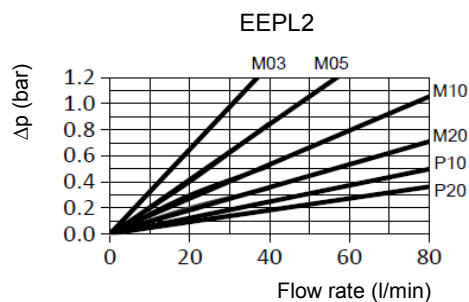
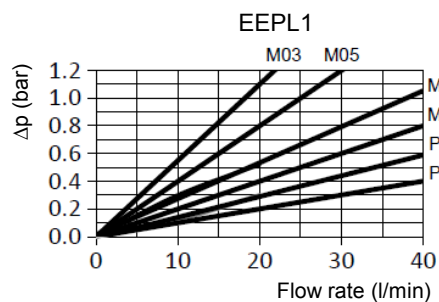
Pressure drop graph on by-pass valve



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Pressure Drop Graphs (Δp)

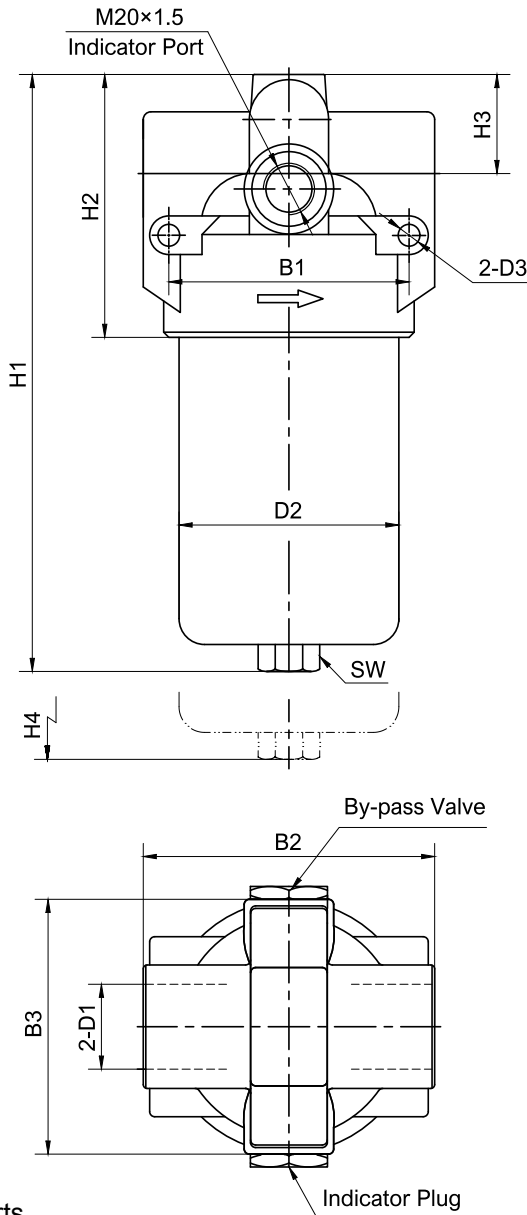
Pressure Drop with Clean Filter Elements (M and P filter media)



EFPL Medium Pressure Filter Series

Technical Drawings and Dimension

EFPL1, EFPL2, EFPL3 & EFPL5



Threaded Connection Ports

		Connection Port (BSP/NPT/SAE) Height									
		inch	mm								
Type	D1	H1	H2	H3	H4	B1	B2	B3	D2	D3	CH
EFPL1	½"	157	78	28	60	64	76	75	55	6.5	22
EFPL2	SAE08	244	78	28	60	64	76	75	55	6.5	22
EFPL3	1"	221	100	37	60	94	114	92	86	8.5	25
EFPL5	SAE16	277	100	37	60	94	114	92	86	8.5	25

EFPL Medium Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFPL	1	BB	11	B	-	M20	-	E50	EEPL	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

B Connection Ports

A08	SAE08
A16	SAE16
BB	BSP ½"
BD	BSP 1"
NB	NPT ½"
ND	NPT 1"

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	Fiberglass	5µm	21 bar
M05	Fiberglass	7µm	21 bar
M10	Fiberglass	12µm	21 bar
M20	Fiberglass	21µm	21 bar
Y25	Wire Mesh	25µm	30 bar
Y60	Wire Mesh	60µm	30 bar

F Indicator

		Connection
00	No	
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