EFPB Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 315 bar
- 120 l/min max. flow rate
- installation in pressure line
- application in Power units, Machine tools, Die Casting and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

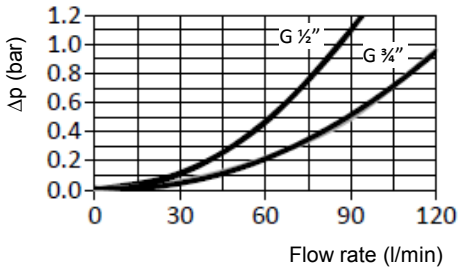
Application	Inline High Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in ½ ” to ¾” and SAE08/SAE12 threads
Flow Rate:	max. 120 l/min
Operating Pressure:	max. 315 bar(EFPB1,2,3)
	max. 280 bar(EFPB1.1,2.1,3.1and EFPB1.2,2.2,3.2)
Burst Pressure:	min. 950 bar(EFPB1,2,3)
	max. 840 bar(EFPB1.1,2.1,3.1and EFPB1.2,2.2,3.2)
Element Collapse Pressure:	10 bar (P series), 21 bar (M series), 30bar (Y series)
By-pass Opening Pressure:	Δp=6 bar + 0.6 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

EFPB High Pressure Filter Series

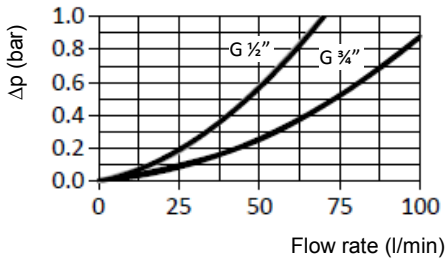
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

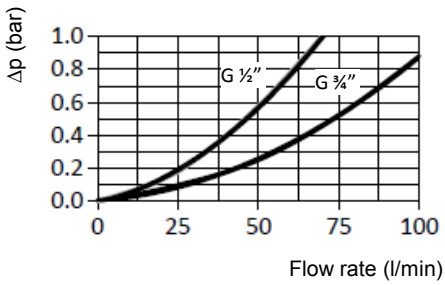
EFPB1, 2 & 3



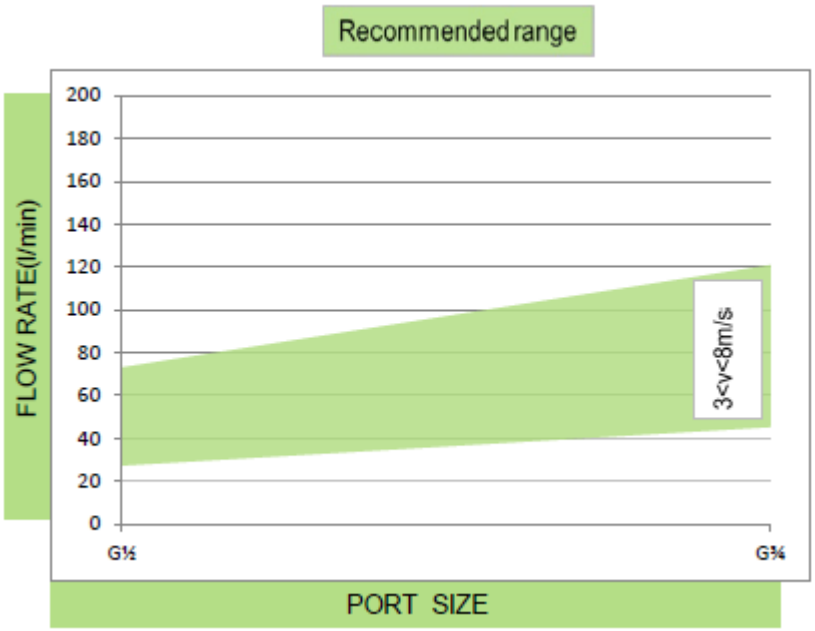
EFPB1.1,2.1&3.1



EFPB1.2,2.2&3.2



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)

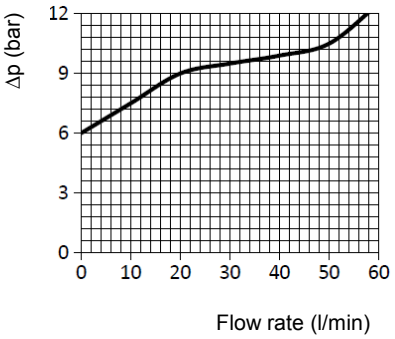


EFPB High Pressure Filter Series

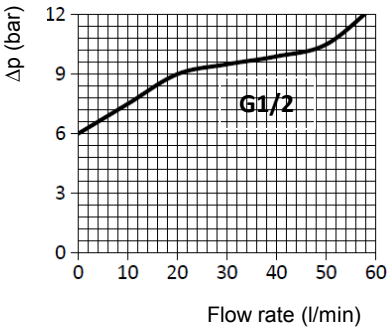
Pressure Drop Graphs (Δp)

Pressure drop graph on by-pass valve

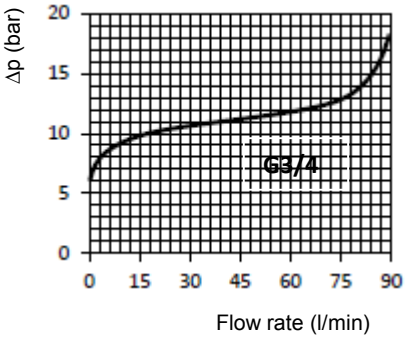
EFPB1, 2 & 3



EFPB1.1, 2 .1& 3.1



EFPB1.1, 2 .1& 3.1

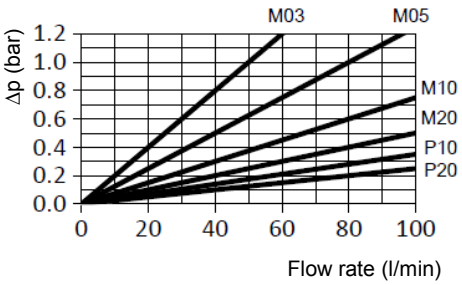


EFPB High Pressure Filter Series

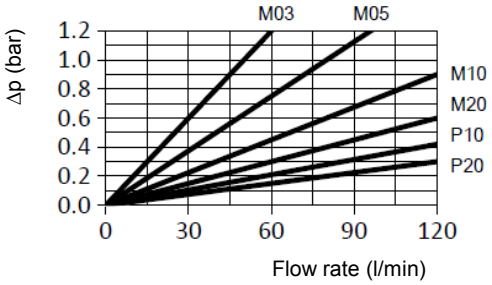
Pressure Drop Graphs (Δp)

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

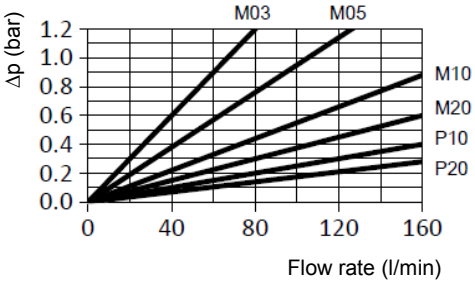
EEPU4



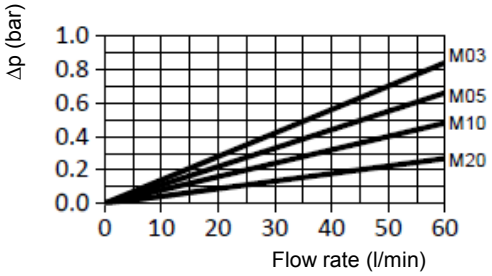
EEPU0



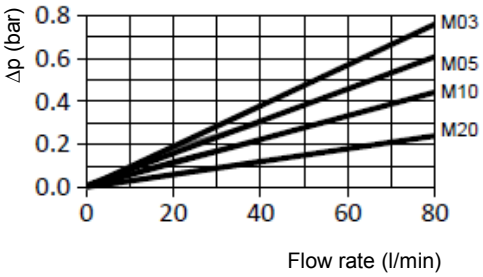
EEPU5



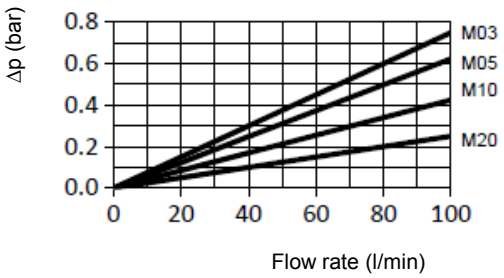
EEPB1.1



EEPB2.1



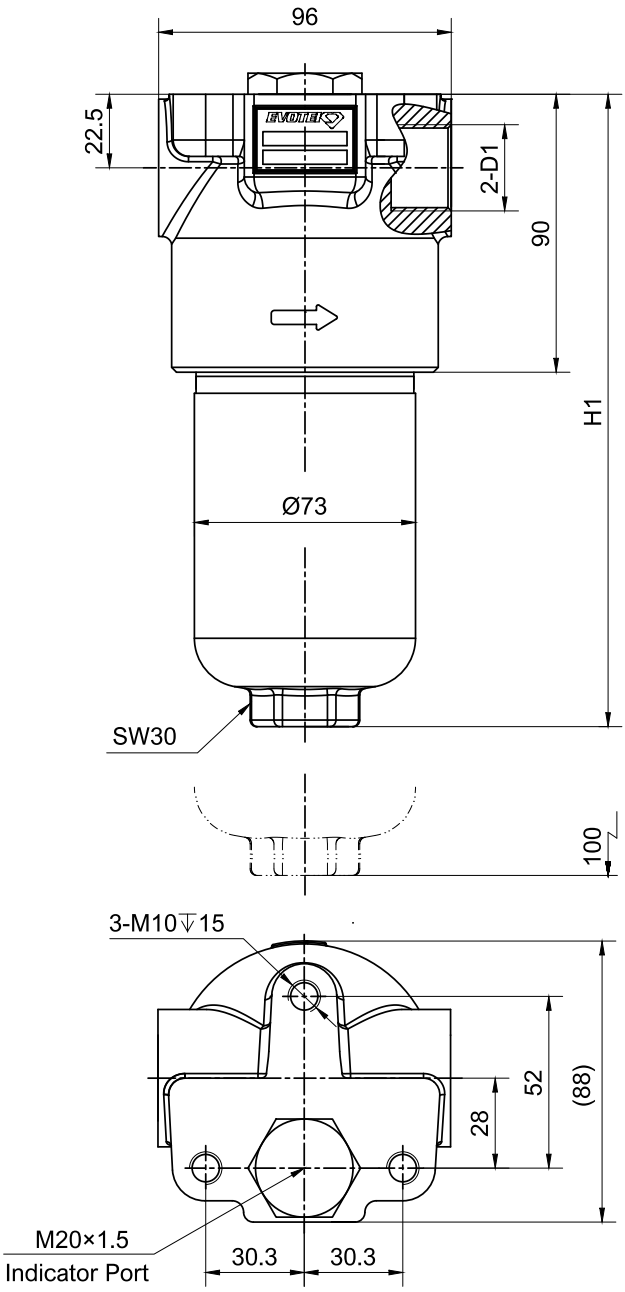
EEPB3.1



EFPB High Pressure Filter Series

Technical Drawings and Dimension

EFPB 1/2/3



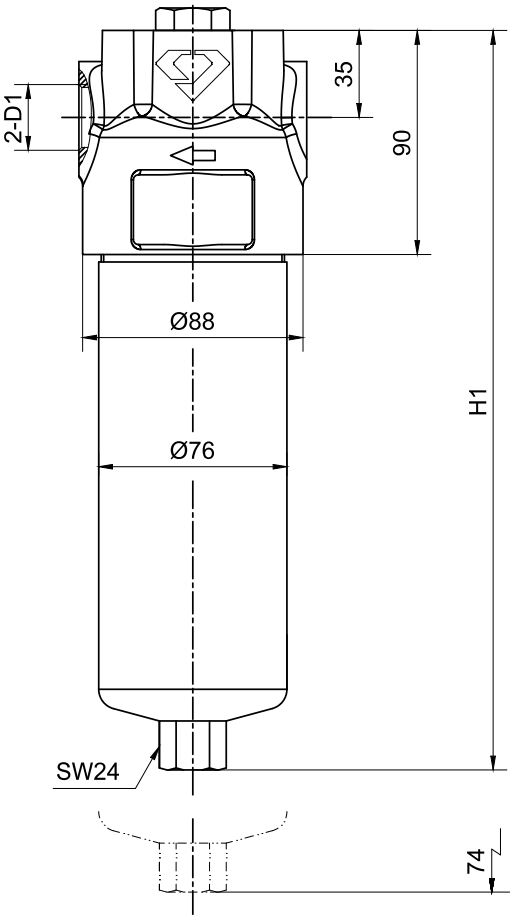
Threaded Connection Ports

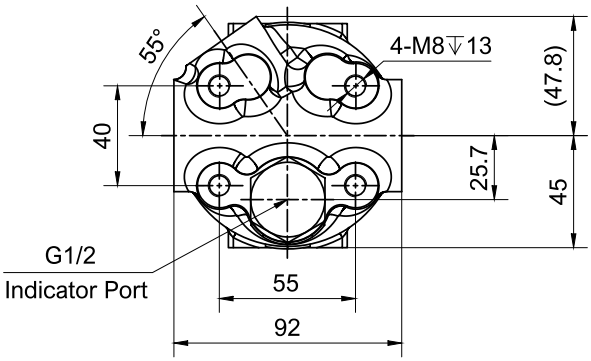
	Connection Port (BSP/NPT/SAE)	Height
	inch	mm
Type	D1	H1
EFPB1	½"	202
EFPB2	¾"	248
EFPB3	SAE08 SAE12	298

EFPB High Pressure Filter Series

Technical Drawings and Dimension

EFPB 1.1/2.1/3.1





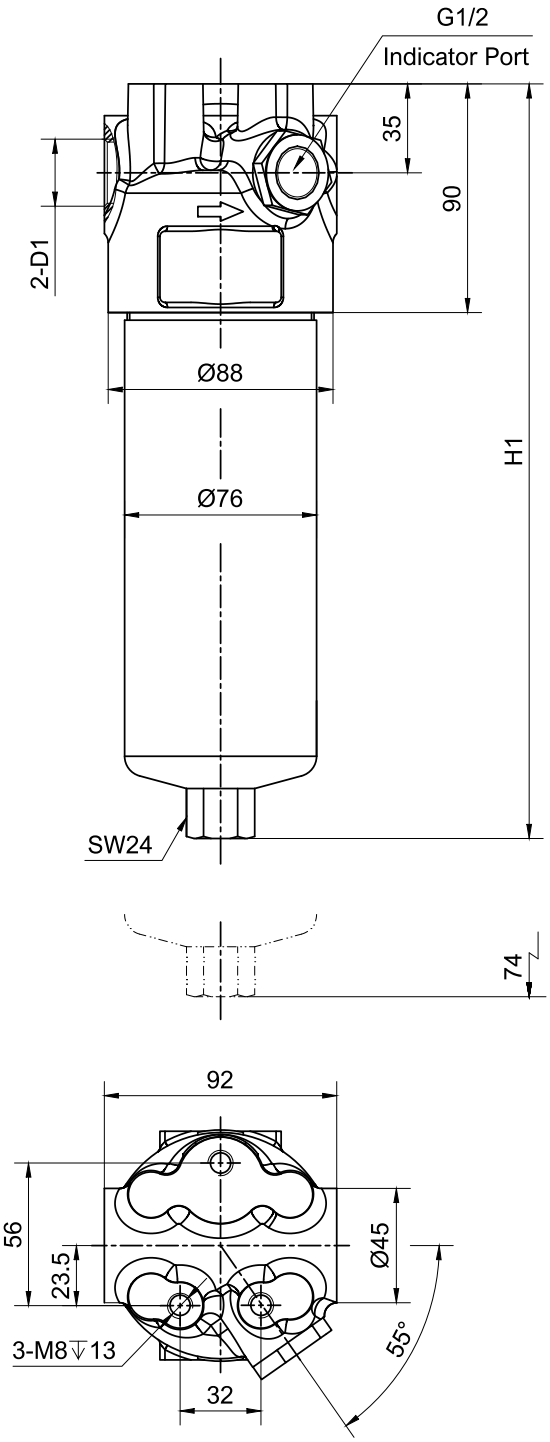
Threaded Connection Ports

	Connection Port (BSP/NPT/SAE)	Height
	inch	mm
Type	D1	H1
EFPB1.1	½"	204
EFPB2.1	¾"	257
EFPB3.1	SAE08 SAE12	297

EFPB High Pressure Filter Series

Technical Drawings and Dimension

EFPB 1.2/2.2/3.2



Threaded Connection Ports

	Connection Port (BSP/NPT/SAE)	Height
	inch	mm
Type	D1	H1
EFPB1.2	½"	204
EFPB2.2	¾"	257
EFPB3.2	SAE08 SAE12	297

EFPB High Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F
EFPB	3	BC	11	B	-	M20	-	E50

Element Series	A	D	E
EEPU	5	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	Element
1	80 l/min	EEPU4
2	100 l/min	EEPU0
3	120 l/min	EEPU5
1.1	55 l/min	EEPB1.1
2.1	75 l/min	EEPB2.1
3.1	95 l/min	EEPB3.1
1.2	55 l/min	EEPB1.1
2.2	75 l/min	EEPB2.1
3.2	95 l/min	EEPB3.1

B Connection Ports	
A08	SAE08
A12	SAE12
BB	BSP ½"
BC	BSP ¾"
NB	NPT ½"
NC	NPT ¾"

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℃)	M20*1.5 Thread