EFPQ Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 420 bar
- 680 l/min max. flow rate
- installation in pressure line
- application in Injection moulding, Servo controls, Machine tools, Mobile equipment and In-plant Systems
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

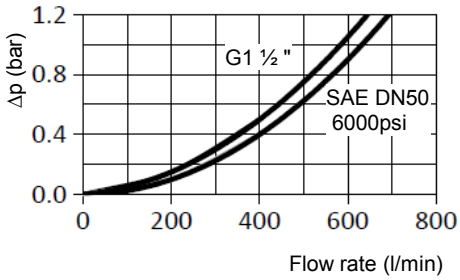
Application	Inverted type Inline High Pressure Filter
Port Sizes:	Threaded Connections according to BSP and NPT standard in1- ½" and SAE24 threads
	Flange Connections in SAE DN50 for 6000psi
Flow Rate:	max. 680 l/min
Operating Pressure:	max. 420 bar
Burst Pressure:	min. 1260 bar
Element Collapse Pressure:	21 bar (M series),
	30 bar (Y series), 210 bar (H 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

EFPQ High Pressure Filter Series

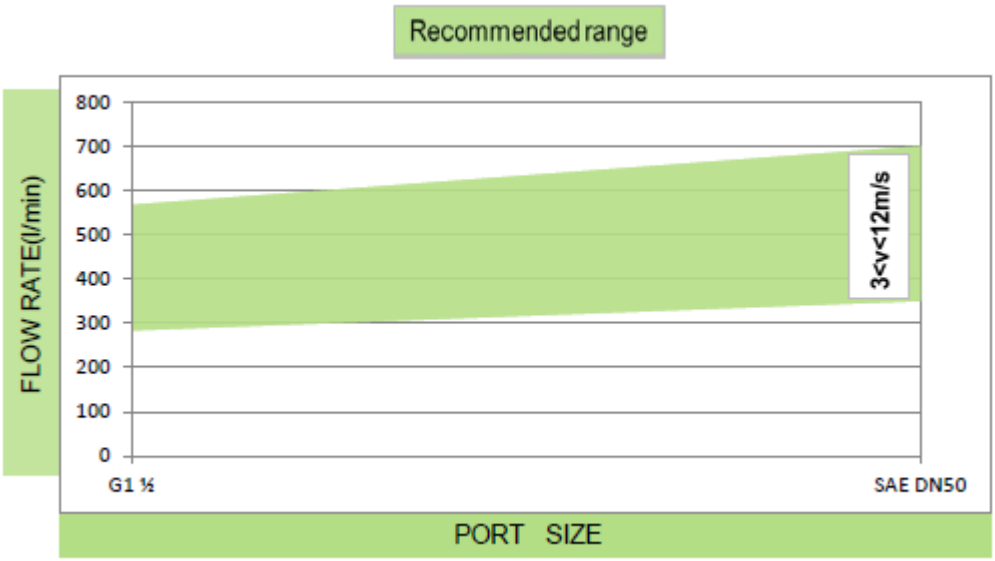
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFPQ12, 15& 17

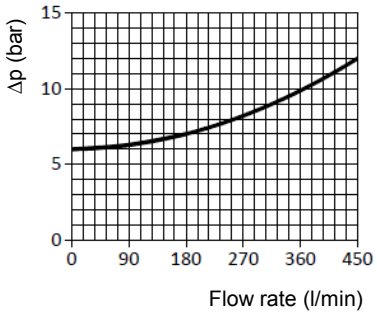


Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 3 to 12 m/s for pressure series)



Pressure drop graph on by-pass valve

EFPQ12,15 & 17

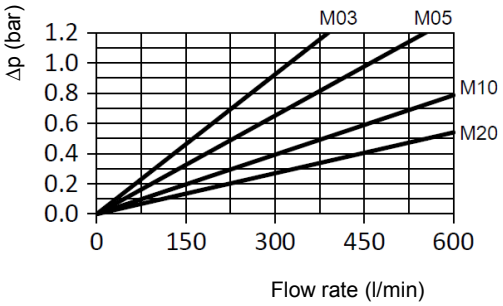


EFPQ High Pressure Filter Series

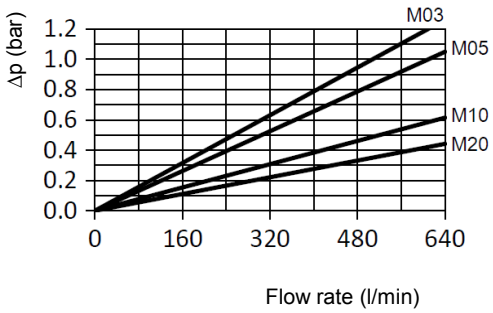
Pressure Drop Graphs (Δp)

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

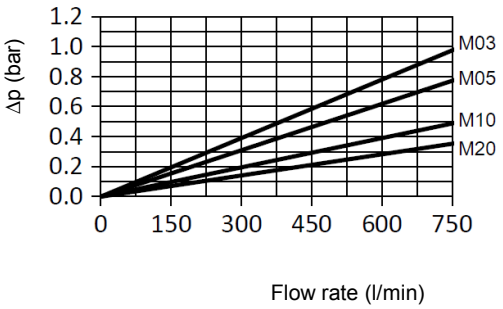
EEPP12



EEPP15



EEPP17



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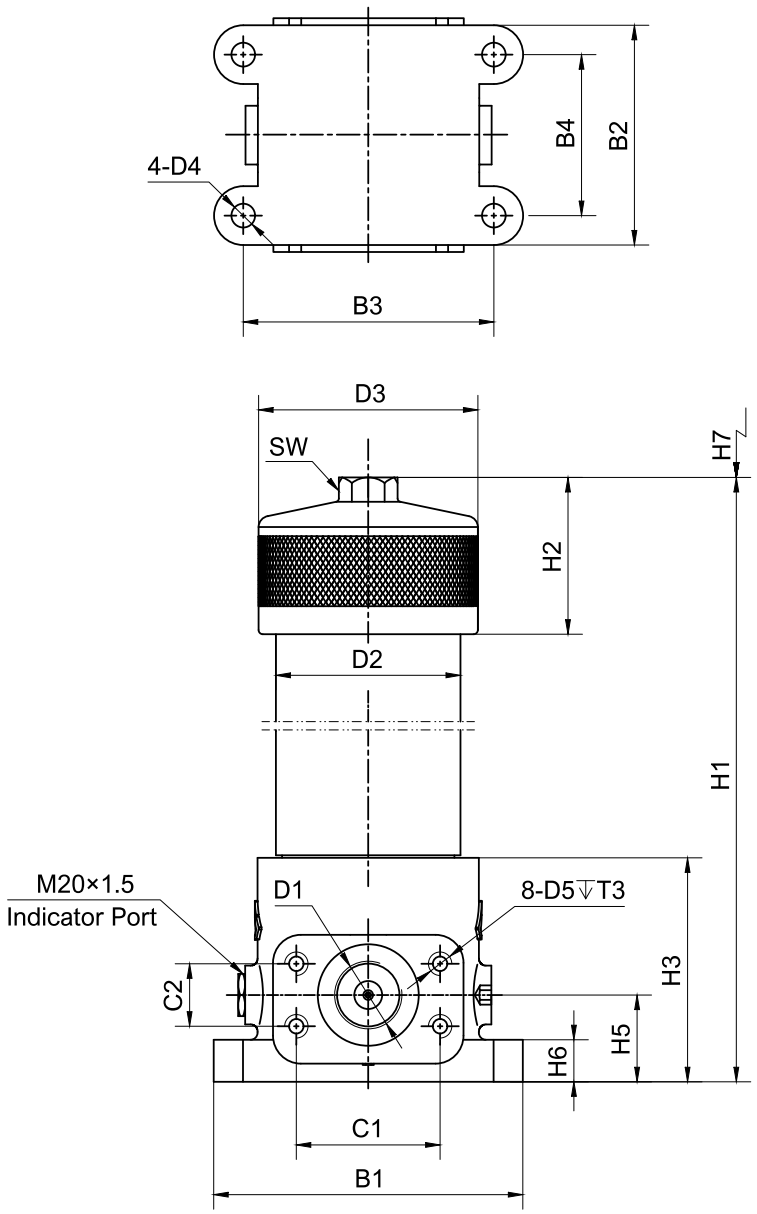
Technical Drawings and Dimension

EFPQ 12/15/17



Threaded Connection Ports

							Connection Port (BSP/NPT/SAE) inch	Height mm											
Type	B1	B2	B3	B4	C1	C2	D1	D2	D3	D4	D5	T3	H1	H2	H3	H5	H6	H7*	SW	M
EFPQ12	222	167	180	115	-	-	1-½" , SAE24 SAE DN 50 6000psi	132	158	Φ17	-	-	489	112	169	62	30	358	38	M12
EFPQ15	222	167	180	115	-	-		132	158	Φ17	-	-	645	112	169	62	30	517	38	M12
EFPQ17	222	167	180	115	96.8	44.5		132	158	Φ17	M20	30	811	742	169	62	30	680	38	M12

EFPQ High Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F
EFPQ	17	SF	11	B	-	M10	-	E50

Element Series	A	D	E
EEPP	17	B	M10

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
12	500 l/min
15	600 l/min
17	680 l/min

B Connection Ports	
A24	SAE24
BF	BSP1- ½"
NF	NPT1- ½"
SF	SAE DN50 (6000psi)

C By-pass Valve	
00	No
11	6.0 bar

D Seal	
B	NBR
V	FPM

E Media Material		Filtration	Collapse Pressure
M05	Fiberglass	7μm	21 bar
M10	Fiberglass	12μm	21 bar
M20	Fiberglass	21μm	21 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	No	
V50	5 bar visual	M20*1.5 Thread
E50	5 bar visual/electrical	M20*1.5 Thread

Notes