



EFPT Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 60 bar
- 1300 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

Inline High Pressure Filter

Port Sizes:

Threaded Connections according to BSP and NPT standard in 1-¼" to 1-½" and SAE20/SAE24 threads

Flange Connections in SAE DN40/SAE DN50/SAE DN65 for 3000psi

Flow Rate:

max. 1300 l/min

Operating Pressure:

max. 60 bar (EFPT5~13)

max. 28 bar (EFPT14,16)

Burst Pressure:

min. 84 bar

Element Collapse Pressure:

21 bar (M series),

30 bar (W series),

By-pass Opening Pressure:

$\Delta p = 3.5 \text{ bar} + 0.3 \text{ bar}$ or $\Delta p = 4 \text{ bar} + 0.3 \text{ bar}$

Material

NBR or FPM (-25°C to 100°C)

Seals:

cast aluminium

Filter Head:

cast aluminium

Filter Bowl:

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

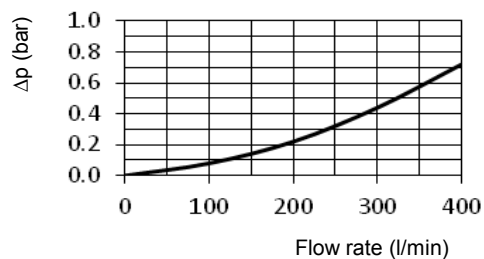
ISO16889 Multi-Pass Test

EFPT High Pressure Filter Series

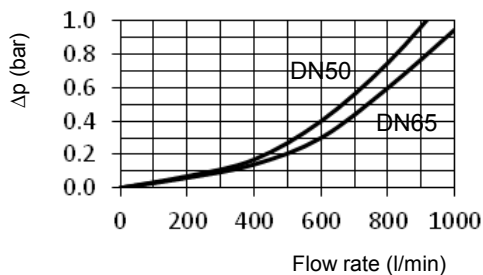
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

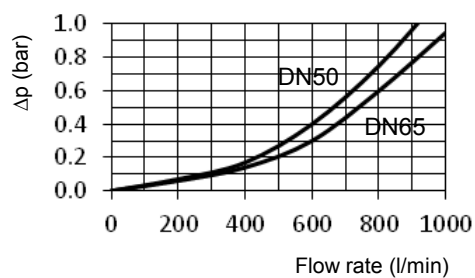
EFPT5, 7 & 10



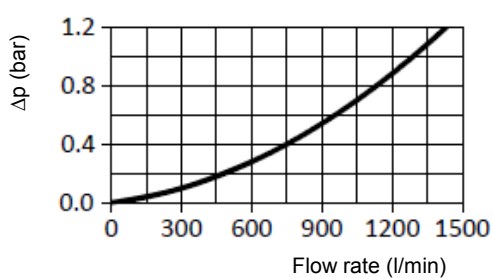
EFPT11, 12 & 13



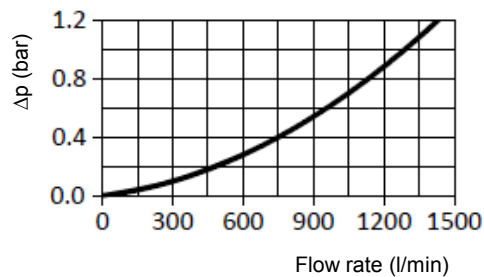
EFPT11.1, 12.1 & 13.1



EFPT14 & 16



EFPT14.1 & 16.1

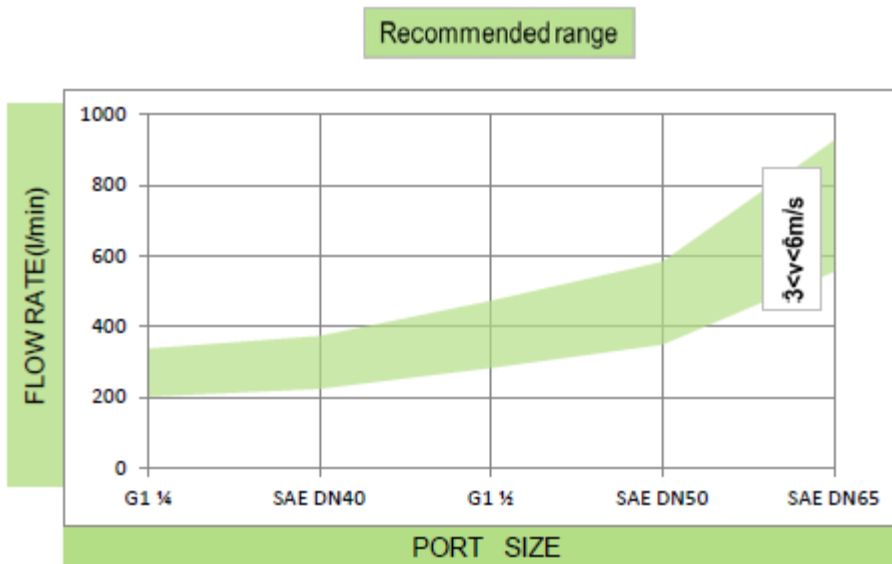


EFPT High Pressure Filter Series

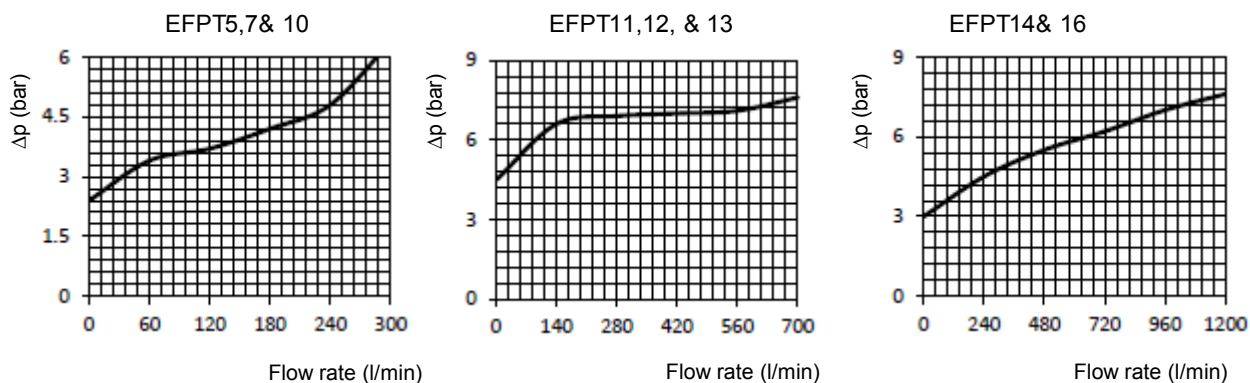
Pressure Drop Graphs (Δp)

Graph of oil flow velocity

(we recommend to select size of the filter considering range of oil velocity between 3 to 6 m/s for pressure series)



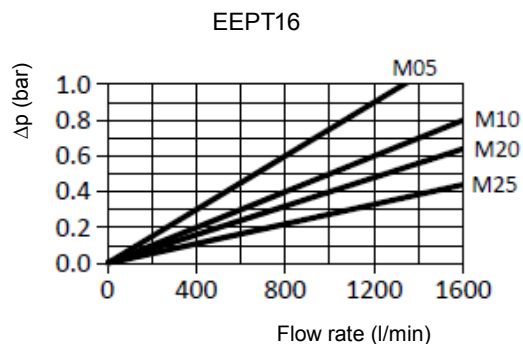
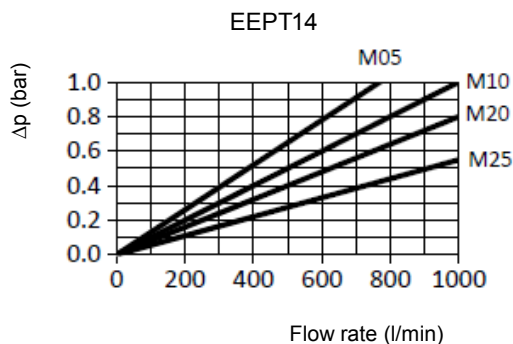
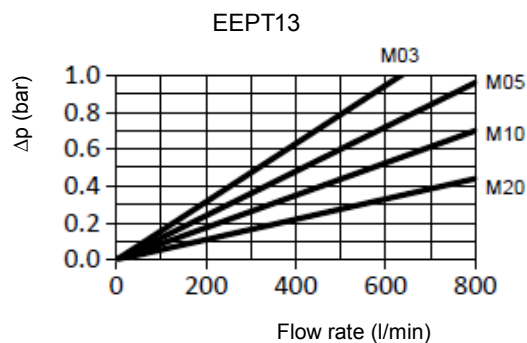
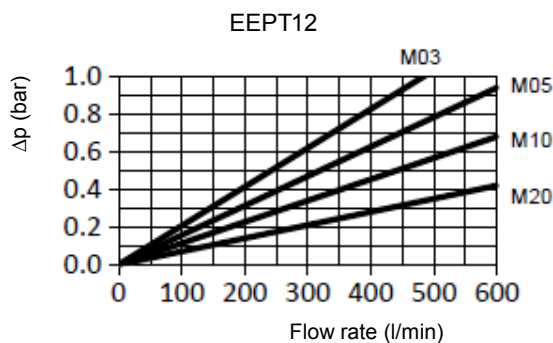
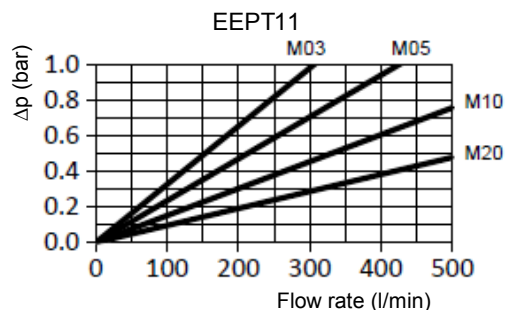
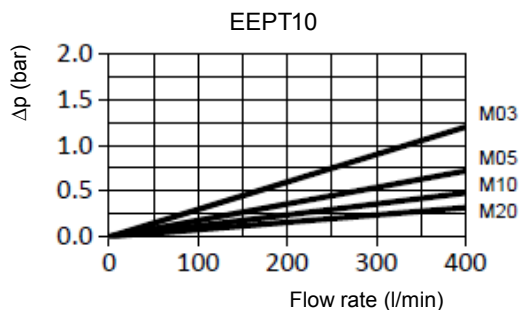
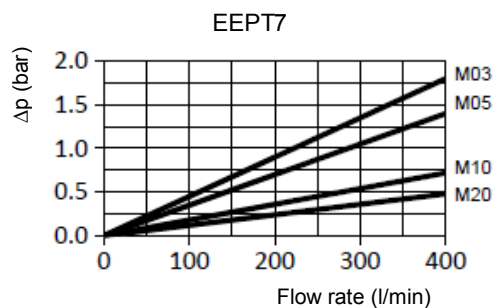
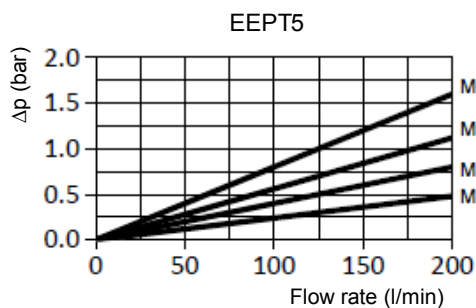
Pressure drop graph on by-pass valve



EFPT High Pressure Filter Series

Pressure Drop Graphs (Δp)

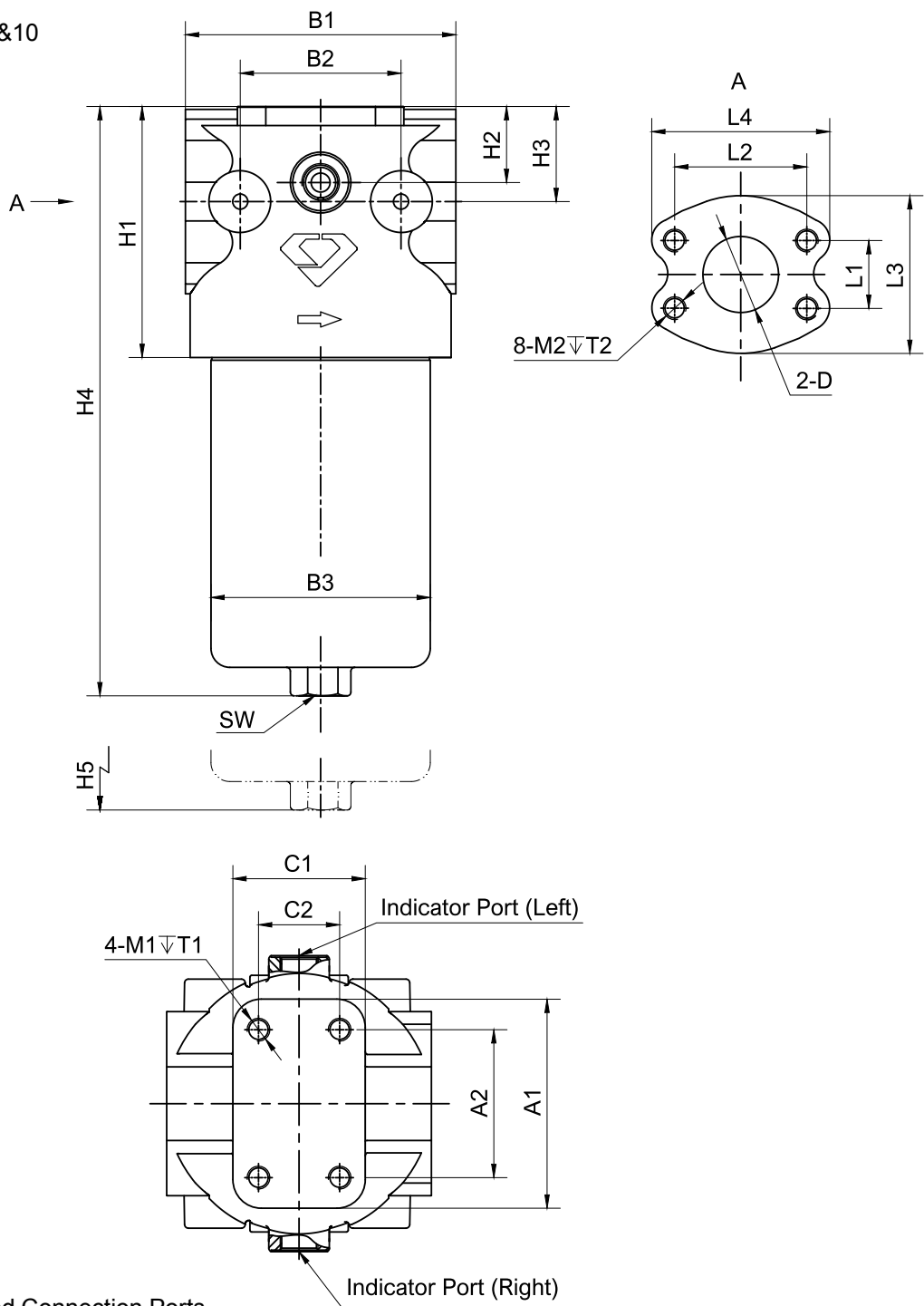
Pressure Drop with Clean Filter Elements (M and P filter media)



EFPT High Pressure Filter Series

Technical Drawings and Dimension

EFPT5,7&10



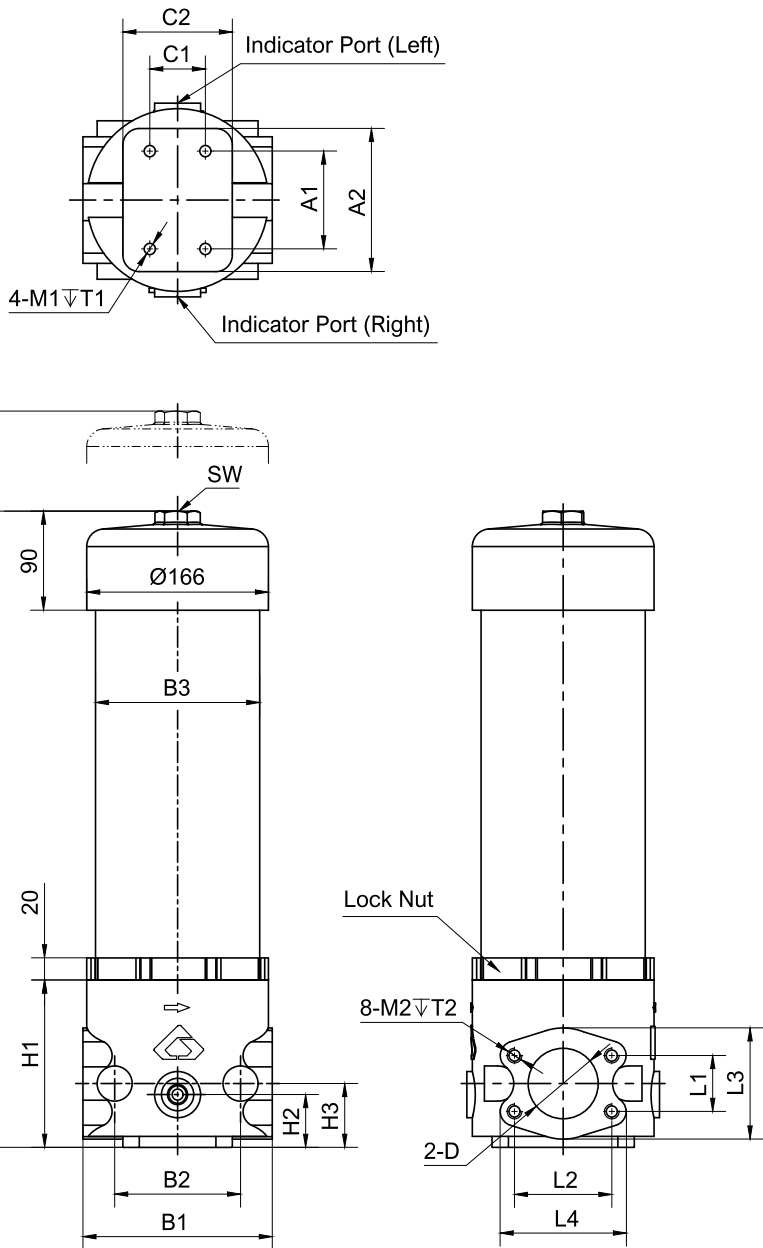
Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)		Height																					
	inch	D	A1	A2	B1	B2	B3	C1	C2	H1	H2	H3	H4	H5*	L1	L2	L3	L4	M1	M2	T1	T2	SW	
EFPT5	1-1/4, 1-1/2,												280	115										
EFPT7	SAE20, SAE24		110	77.8	140	85	110	70	42.9	132	40	50	370	115	35.7	69.9	83	94	12	12	15	20	32	
EFPT10	SAE DN40 3000psi												515	115										

EFPT High Pressure Filter Series

Technical Drawings and Dimension

EFPT 11/12/13



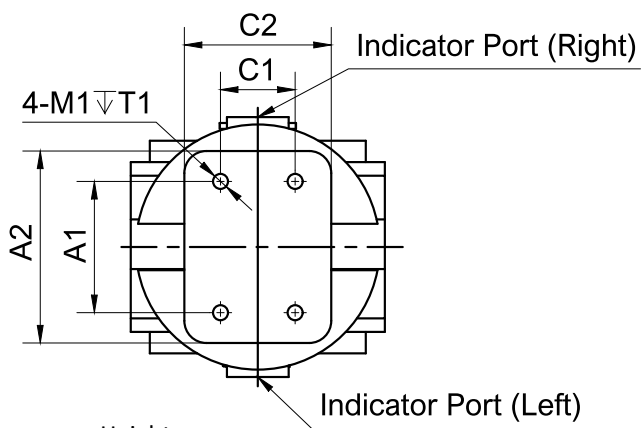
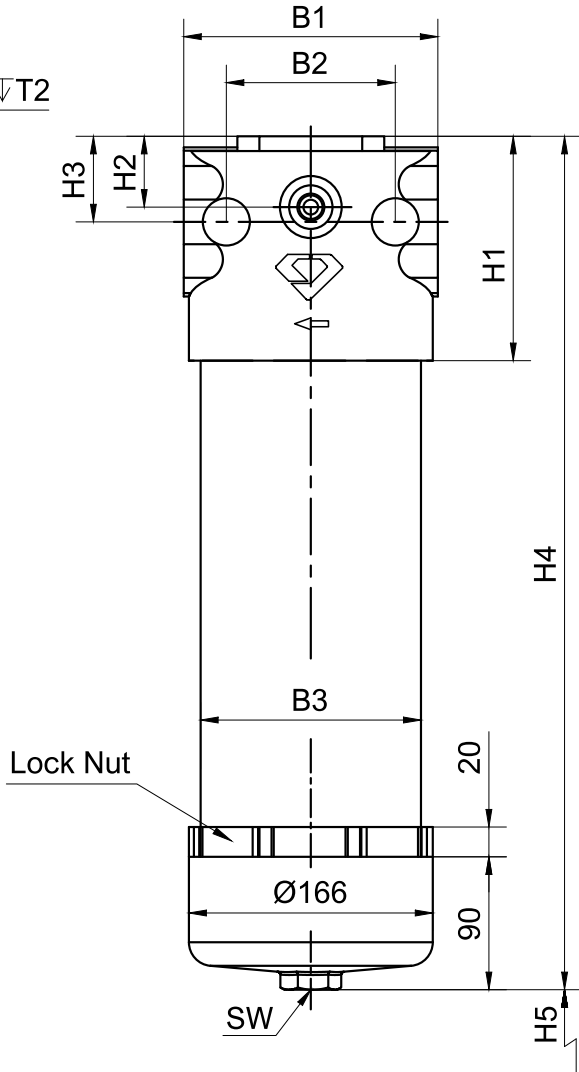
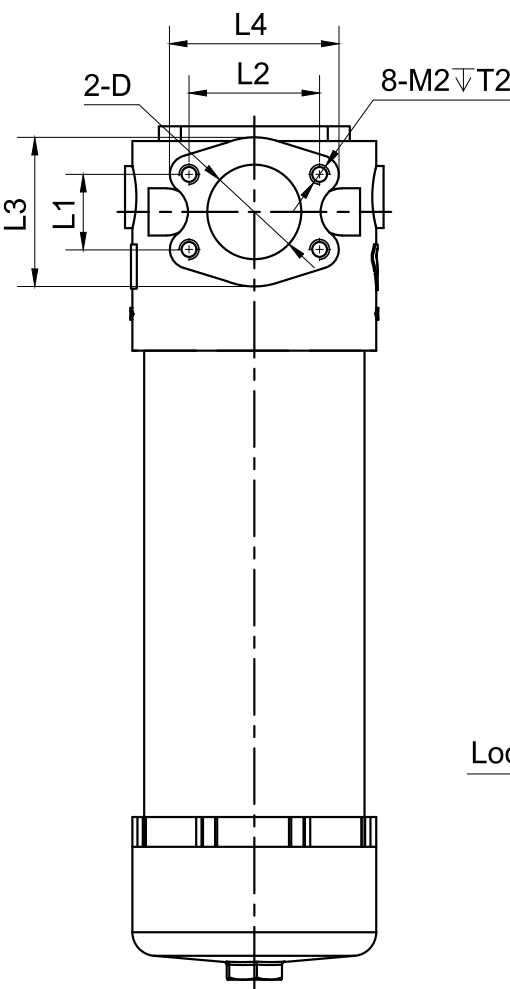
Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)										Height													
	D	A1	A2	B1	B2	B3	C1	C2	H1	H2	H3	H4	H5	L1	L2	L3	L4	M1	M2	T1	T2	SW		
EFPT11	SAE DN50 3000psi SAE DN65 3000psi	88.9	130	170	115	152	50.8	100	152	48	58	378	250	42.9 50.8	77.8 88.9	101	115	12	12	15	20	36		
EFPT12												478	350											
EFPT13												578	450											

EFPT High Pressure Filter Series

Technical Drawings and Dimension

EFPT 11.1/12.1/13.1



Threaded Connection Ports

Connection Port
(BSP/NPT/SAE)
inch

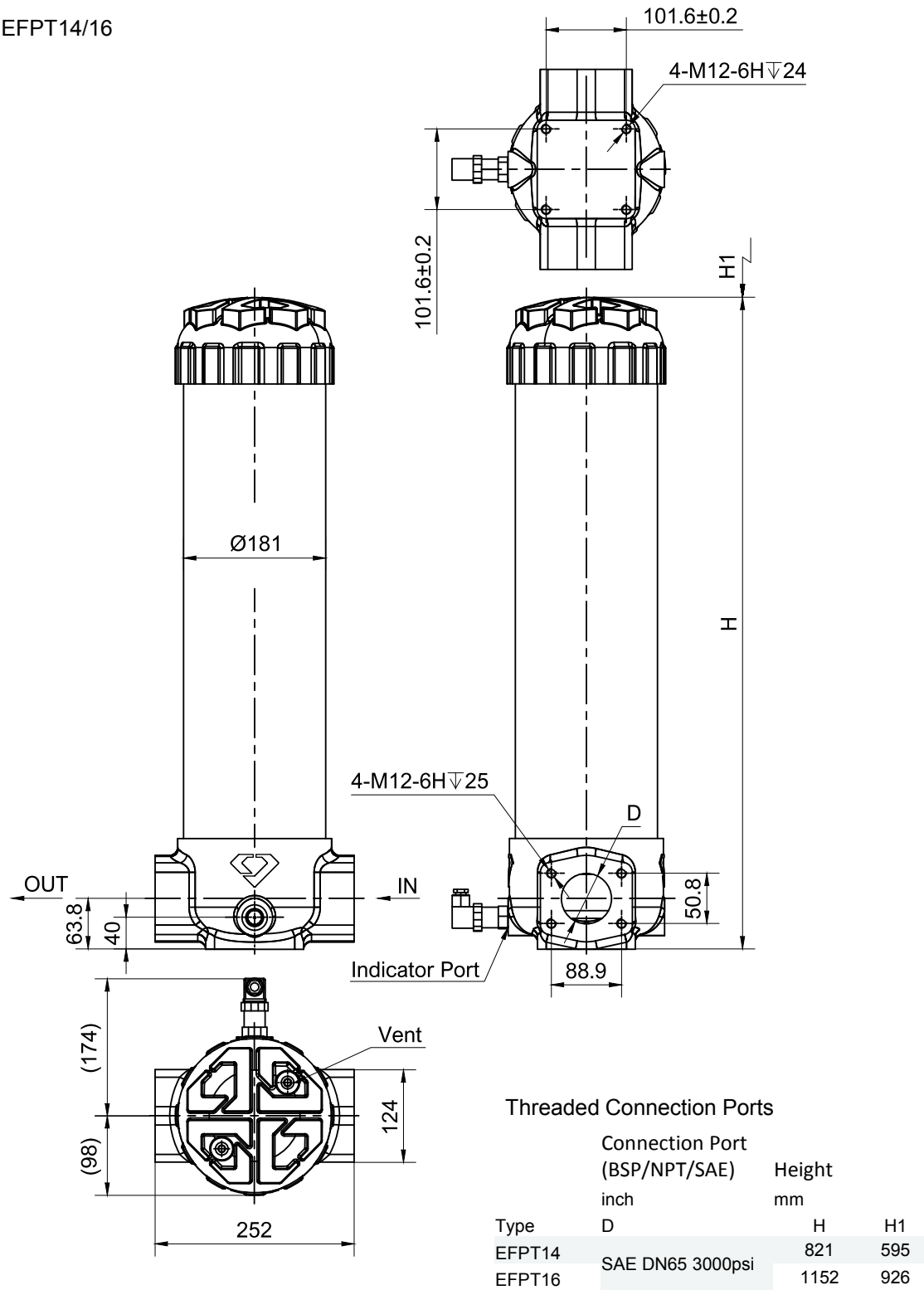
Height
mm

Type	D	A1	A2	B1	B2	B3	C1	C2	H1	H2	H3	H4	H5	L1	L2	L3	L4	M1	M2	T1	T2	SW
EFPT11.1	SAE DN50 3000psi SAE DN65 3000psi											378	150									
EFPT12.1		88.9	130	170	115	152	50.8	100	152	48	58	478	150	42.9 50.8	77.8 88.9	101	115	12	12	15	20	36
EFPT13.1													578	150								

EFPT High Pressure Filter Series

Technical Drawings and Dimension

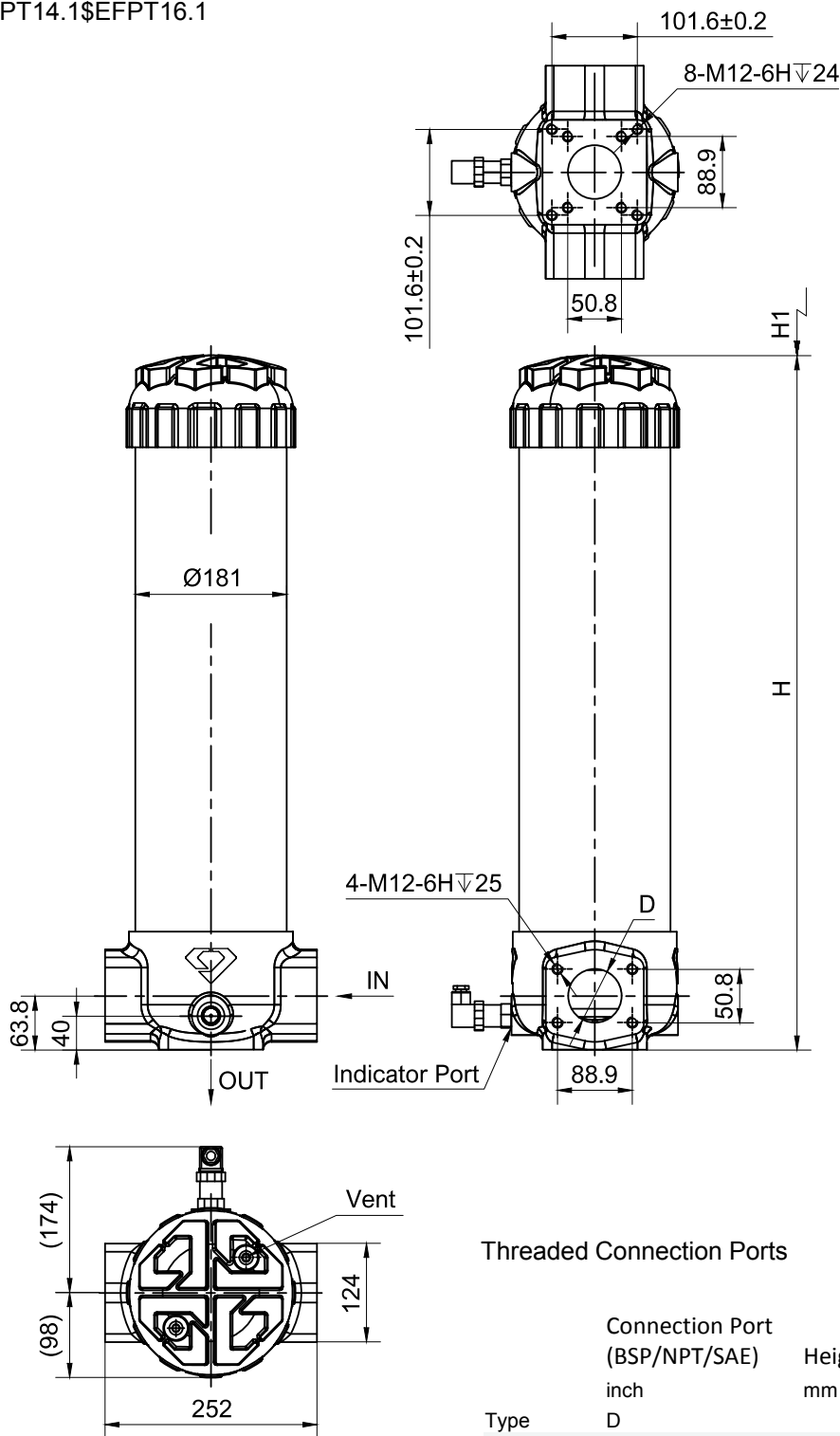
EFPT14/16



EFPT High Pressure Filter Series

Technical Drawings and Dimension

EFPT14.1\$EFPT16.1



Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)	Height	
	inch	mm	
D	H	H1	
EFPT14.1	SAE DN65 3000psi	821	595
EFPT16.1		1152	926

EFPT High Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFPT	5	FE	09	B	-	M10	-	E25	EEPT	5	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

5	160 l/min
7	250 l/min
10	400 l/min
11	500 l/min
11.1	500 l/min
12	660 l/min
12.1	660 l/min
13	800 l/min
13.1	800 l/min

B Connection Ports

ED	SAE20
EF	SAE24
BE	BSP 1-¼"
BF	BSP 1-½"
NE	NPT 1-¼"
NF	NPT 1-½"
FE	SAE DN40 (3000psi)
FF	SAE DN50 (3000psi)
FG	SAE DN65 (3000psi)

C By-pass Valve

00	No
09	3.5 bar
X	Special

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
W25	Wire Mesh	25µm	20 bar
W60	Wire Mesh	60µm	20 bar
W90	Wire Mesh	90µm	20 bar
W125	Wire Mesh	125µm	20 bar

F Indicator

00	No	Connection
V25	2.5 bar visual	M20*1.5 Thread
E25	2.5 bar visual/electrical	M20*1.5 Thread
E25S	2.5 bar electrical	M20*1.5 Thread
E25T	2.5 bar electrical with thermostat (30°C)	M20*1.5 Thread

EFPT High Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	C	E
EFPT	16	FG	10	B	-	M10	-	3PE	EEPT	16	B	10	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

14	950 l/min
14.1	950 l/min
16	1300 l/min
16.1	1300 l/min

B Connection Ports

FG	SAE DN65 (3000psi)
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C By-pass Valve

10	4 bar
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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
W25	Wire Mesh	25µm	20 bar
W60	Wire Mesh	60µm	20 bar
W90	Wire Mesh	90µm	20 bar
W125	Wire Mesh	125µm	20 bar

F Indicator

00	No	Connection
3PE	3.0 bar electrical	BSP ½" Thread
3PV	3.0 bar visual	BSP ½" Thread

[illegible]