



EFPU Series

EVOTEK High Pressure Filters

Product Description

- Operating pressure up to 420 bar
- 400 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 ½" to 1-½" and SAE08/SAE12/SAE16/SAE20/SAE24 threads

Flange Connections in SAE DN25 / SAE DN32 / SAE DN40 for 3000psi and SAE DN20 / SAE DN32 for 6000psi

Flow Rate:

max. 400 l/min

Operating Pressure:

max. 420 bar

Burst Pressure:

min. 1260 bar

Element Collapse Pressure:

10 bar (P series), 21 bar (M series), 30 bar (Y series), 210 bar (H 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:

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

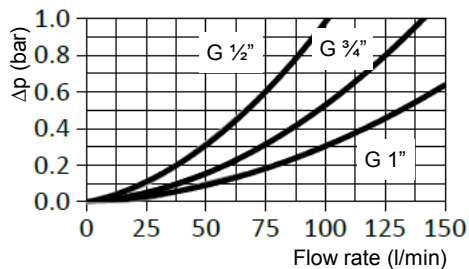
ISO16889 Multi-Pass Test

EFP High Pressure Filter Series

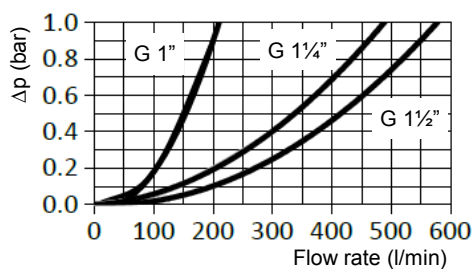
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFP1, 2, 3, 4 & 5



EFP6, 8, 9 & 10



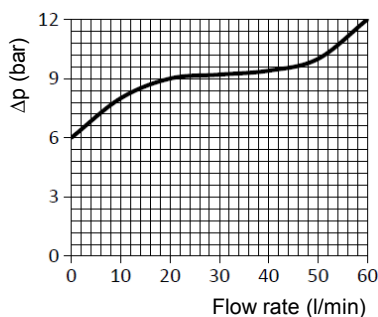
Graph of oil flow velocity

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

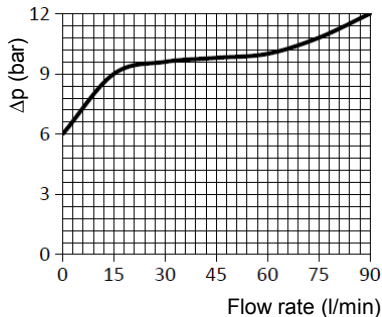


Pressure drop graph on by-pass valve

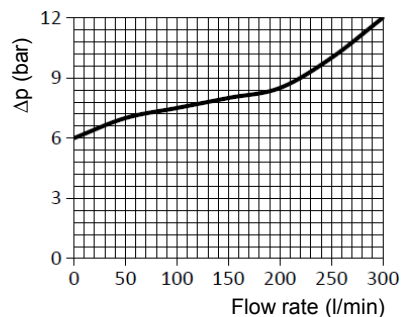
EFP1, 2 & 3



EFP4 & 5



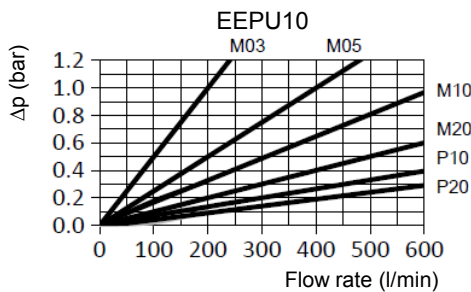
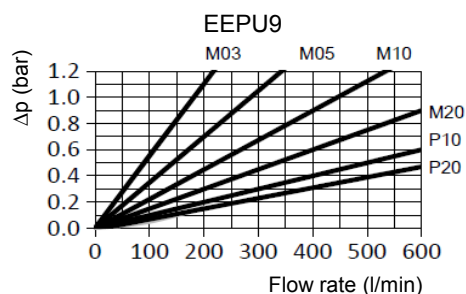
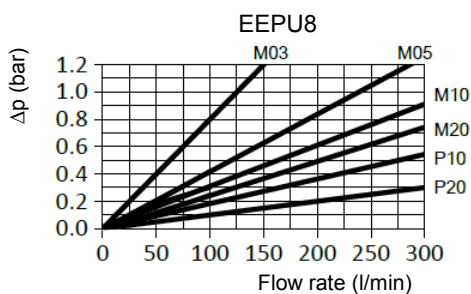
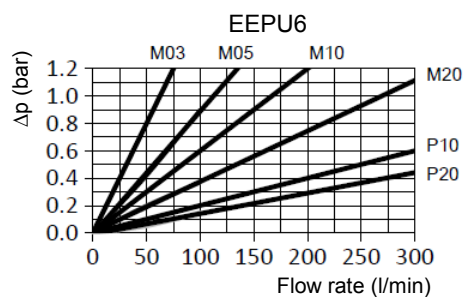
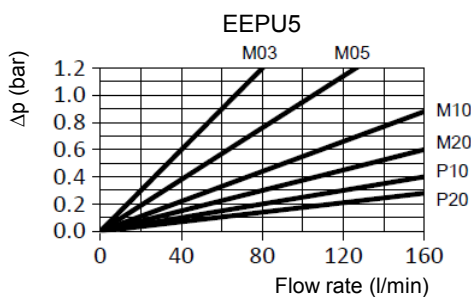
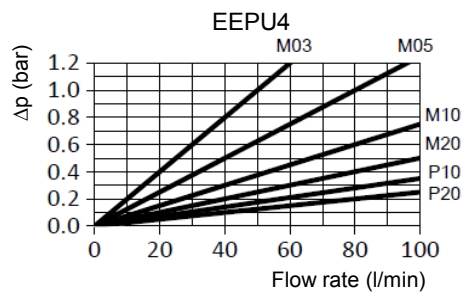
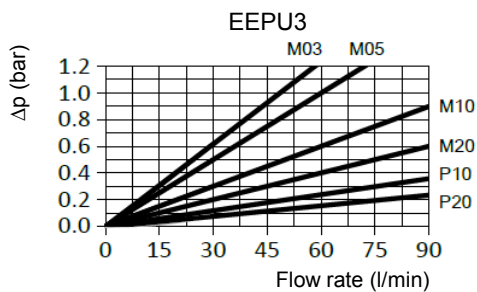
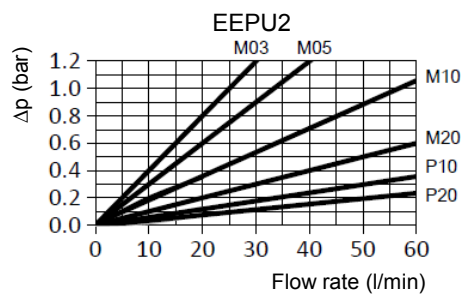
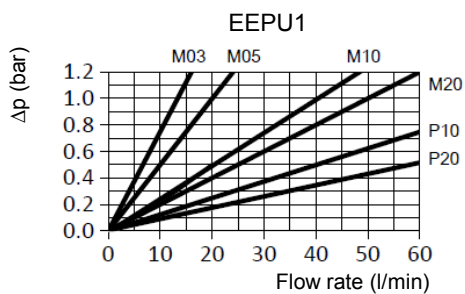
EFP6, 8, 9 & 10



EFP High Pressure Filter Series

Pressure Drop Graphs (Δp)

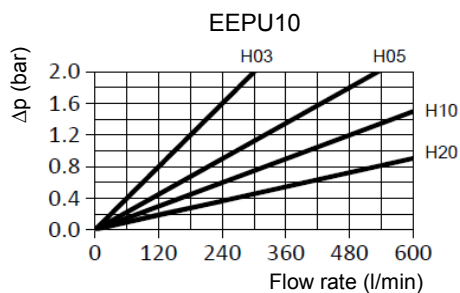
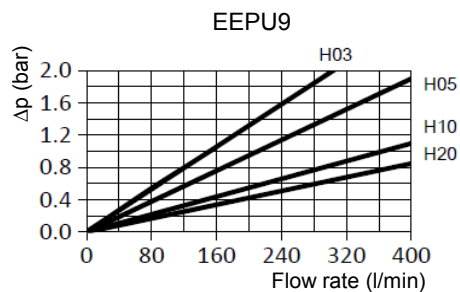
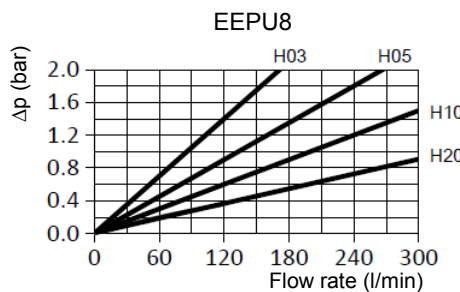
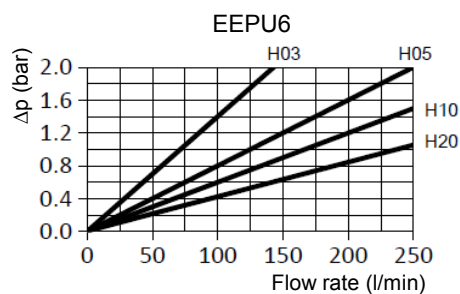
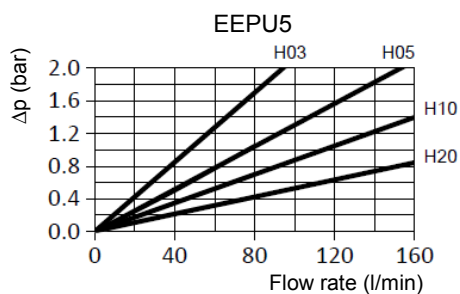
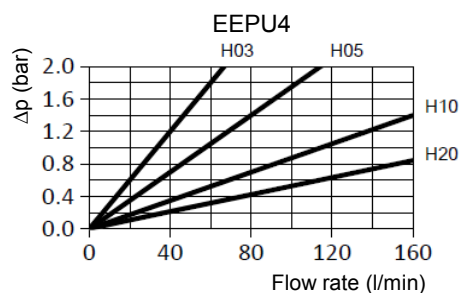
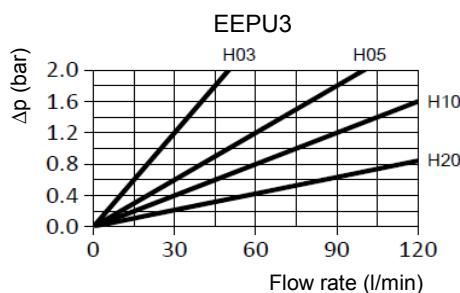
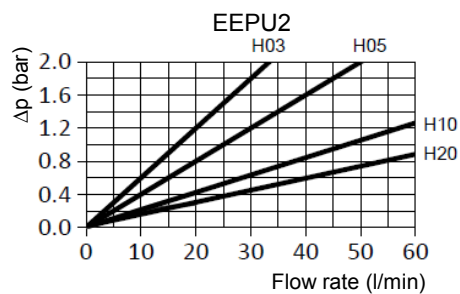
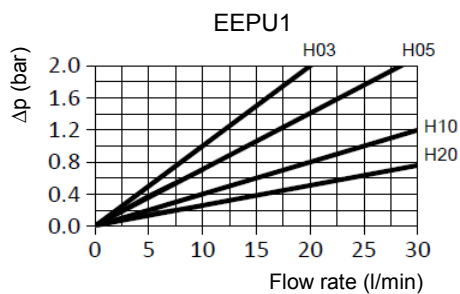
Pressure Drop with Clean Filter Elements (M and P filter media)



EFPU High Pressure Filter Series

Pressure Drop Graphs (Δp)

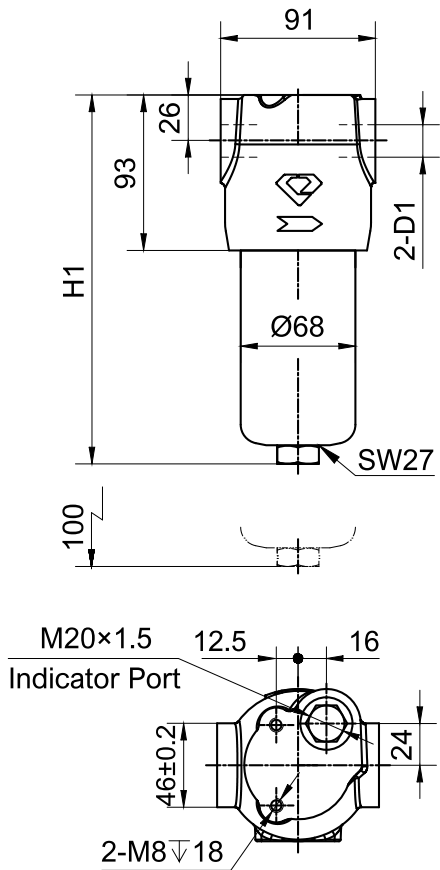
Pressure Drop with Clean Filter Elements (H filter media)



EFPU High Pressure Filter Series

Technical Drawings and Dimension

EFPU 1/2/3

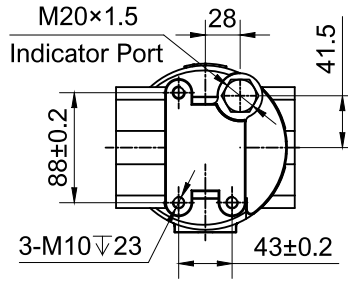
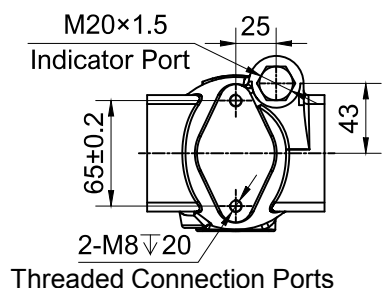
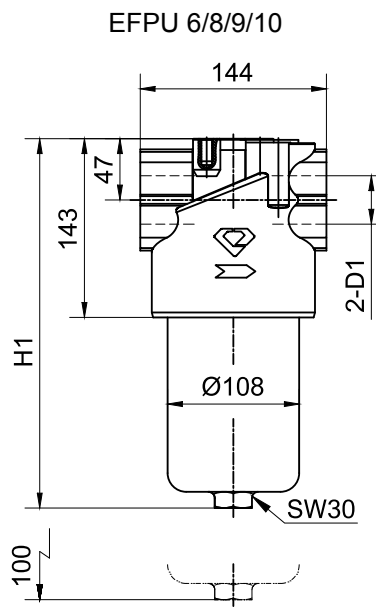
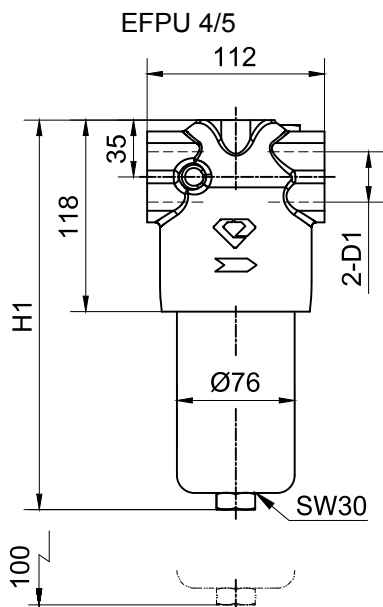


Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)	Height	Weight
	inch	mm	kg
EFPU1	D1	H1	
EFPU1	1/2" - 3/4"	170	4.3
EFPU2	SAE08	205	4.5
EFPU3	SAE12	303	5.2

EFPU High Pressure Filter Series

Technical Drawings and Dimension

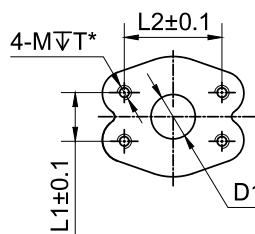


Type	Connection Port (BSP/NPT/SAE)	Height	Weight
	inch	mm	kg
EFPU4	D1	H1	
EFPU4	3/4" - 1"	228	6.5
EFPU5	SAE12	320	8.1
EFPU5	SAE16		

Type	Connection Port (BSP/NPT/SAE)	Height	Weight
	inch	mm	kg
EFPU6	D1	H1	
EFPU6	1" / 1 1/4" / 1 1/2"	254	11.0
EFPU8	SAE16	348	13.9
EFPU9	SAE20	466	17.2
EFPU10	SAE24	567	22.0

Flange Mounting - bolt dimensions

Type	Flange	Connection Port	Max. Pressure	Installation Details			Min. Thread Depth
	SAE	inch	bar	mm	mm	metric	mm
EFPU4/5	SAE DN25(3000psi)	1"	210	26.2	52.4	M10	16
	SAE DN20(6000psi)	3/4"	420	23.8	50.8	M10	19
	SAE DN32(3000psi)	1-1/4"	210	30.2	58.7	M10	22
EFPU6/8/9/10	SAE DN40(3000psi)	1-1/2"	210	35.7	69.9	M12	21
	SAE DN32(6000psi)	1-1/4"	420	31.8	66.7	M14	23



EFPU High Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	Element Series	A	D	E
EFPU	3	BC	11	B	-	M20	-	E50	EEPU	3	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
4	140 l/min
5	160 l/min
6	240 l/min
8	280 l/min
9	330 l/min
10	400 l/min

B Connection Ports

A08	SAE08
A12	SAE12
A16	SAE16
A20	SAE20
A24	SAE24
BB	BSP ½"
BC	BSP ¾"
BD	BSP 1"
BE	BSP 1-¼"
BF	BSP 1-½"
NB	NPT ½"
NC	NPT ¾"
ND	NPT 1"
NE	NPT 1-¼"
NF	NPT 1-½"
FC	SAE DN25 (3000psi)
FD	SAE DN32 (3000psi)
FE	SAE DN40 (3000psi)
SB	SAE DN20 (6000psi)
SD	SAE DN32 (6000psi)

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
H03	Fiberglass	5µm	210 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

F Indicator

00	No	Connection
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

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