



EFSU Series

EVOTEK Suction Filters

Product Description

- Operating pressure up to 16 bar
- 990 l/min max. flow rate
- installation in suction line
- application in Mobile Equipment, Hydrostatic Drives, Power Units and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

Suction Filters

Port Sizes:

Threaded Connections according to BSP and NPT standard in 1½" and SAE24 threads

SAE DN40 /DN65 /DN90 3000psi

Flow Rate:

max. 990 l/min

Operating Pressure:

max. 16 bar

Burst Pressure:

min. 48 bar

Element Collapse Pressure:

1 bar

By-pass Opening Pressure:

$\Delta p = 0.3 \text{ bar} \pm 10\%$

Material

Seals:

NBR or FPM (-25°C to 100°C)

Filter Head:

Aluminium

Filter Bowl:

Aluminium

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

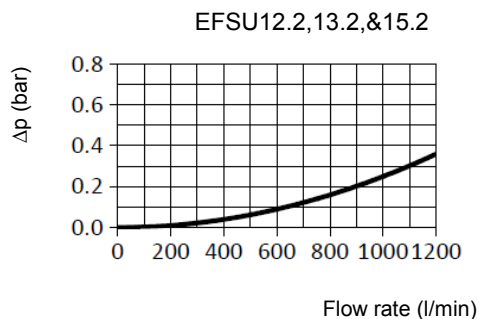
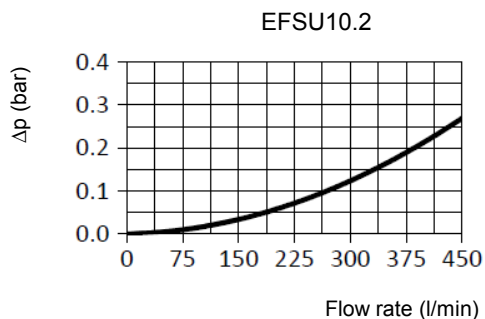
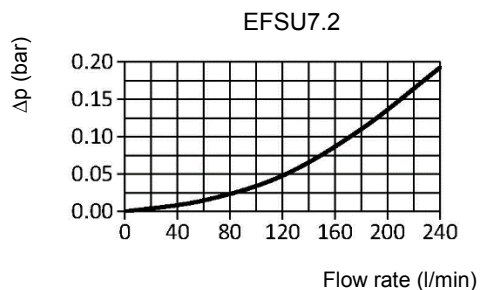
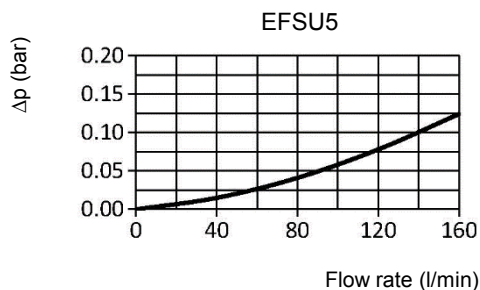
ISO3968 Pressure Drop vs. Flow Rate

ISO16889 Multi-Pass Test

EFSU Suction Filter Series

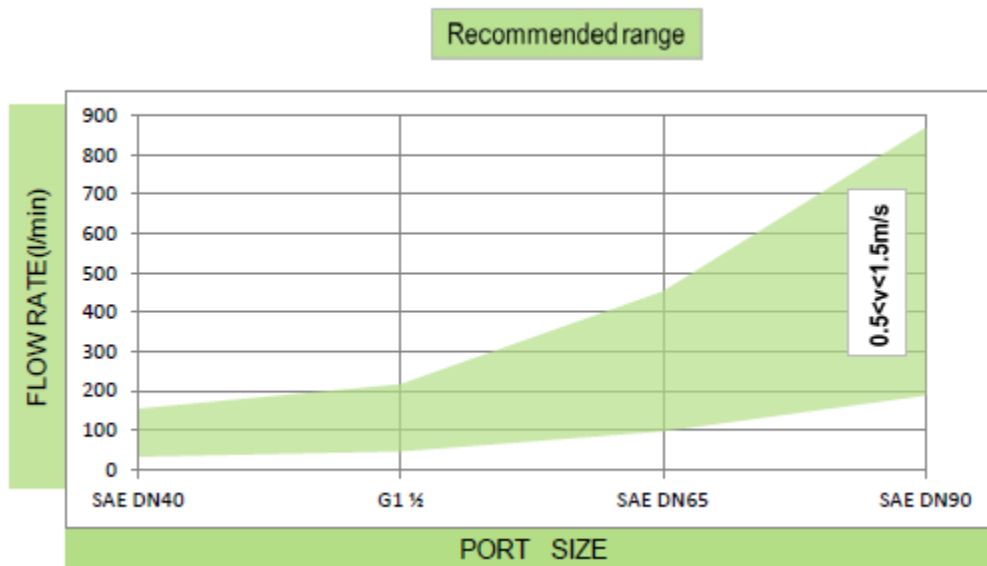
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only



Graph of oil flow velocity

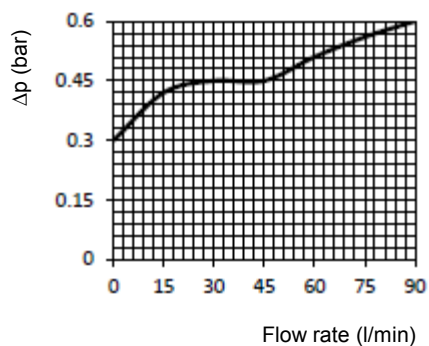
(we recommend to select size of the filter considering range of oil velocity between 0.5 to 1.5 m/s for pressure series)



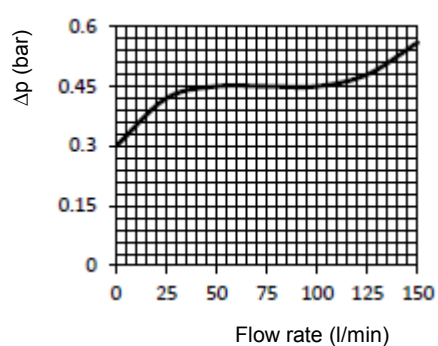
EFSU Suction Filter Series

Pressure drop graph on by-pass valve

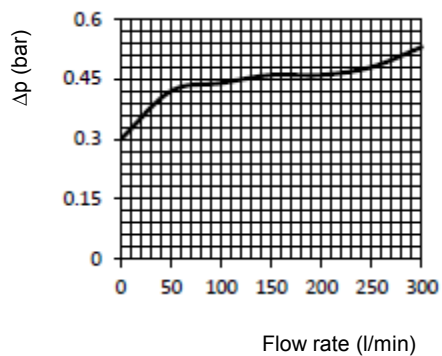
EFSU5.2



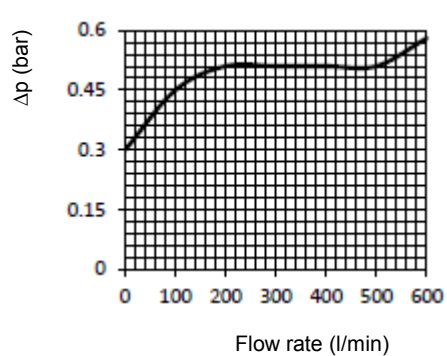
EFSU7.2



EFSU10.2



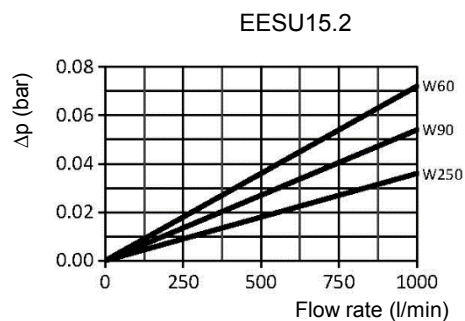
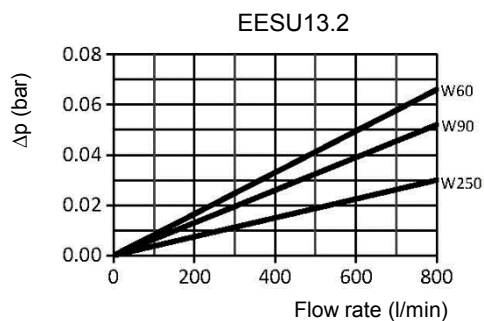
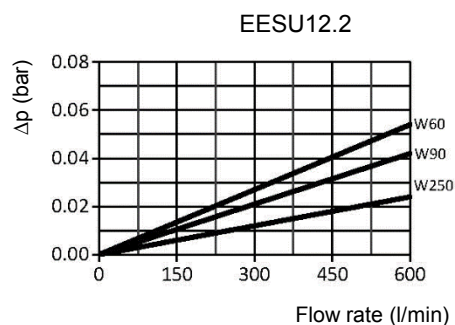
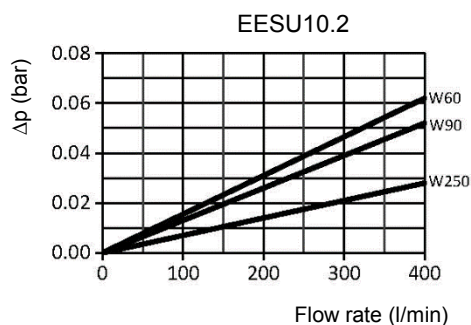
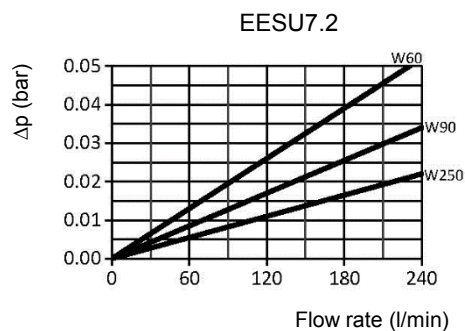
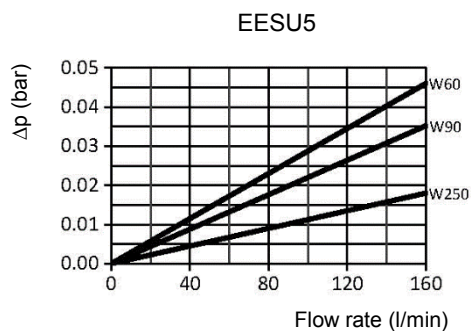
EFSU12.2, 13.2 & EFSU15.2



EFSU Suction Filter Series

Pressure Drop Graphs (Δp)

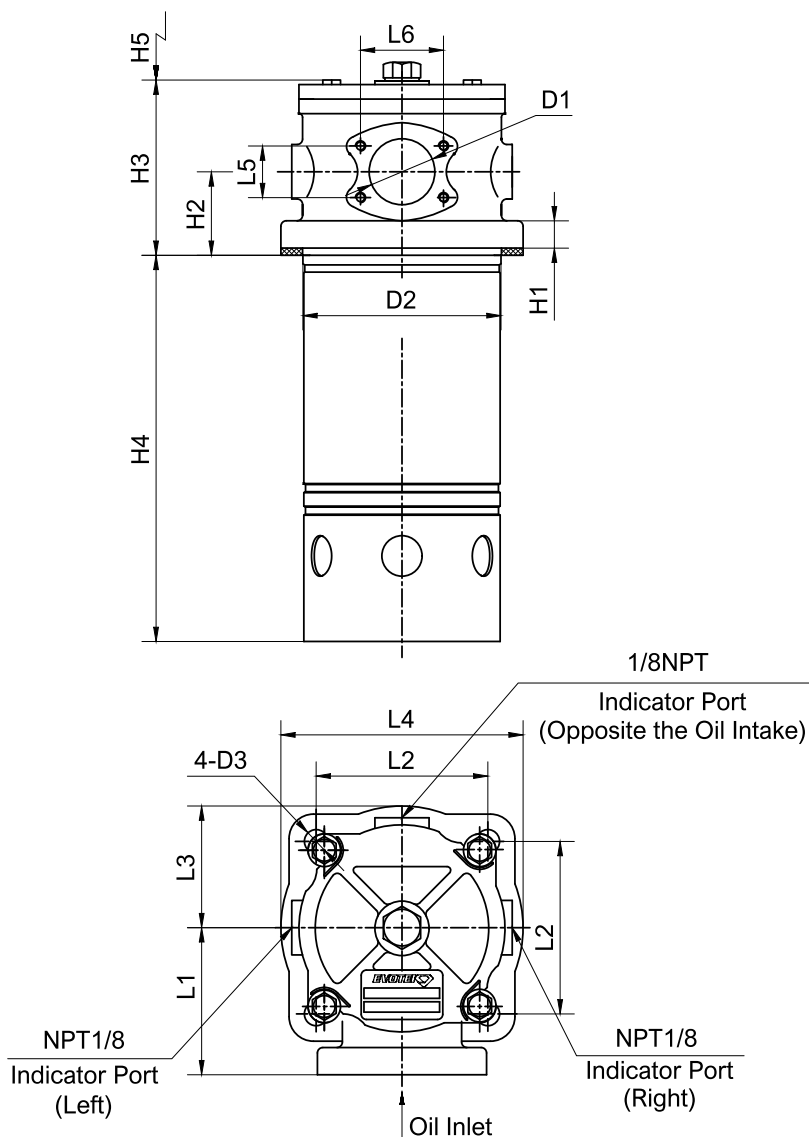
Pressure Drop with Clean Filter Elements (W filter media)



EFSU Suction Filter Series

Technical Drawings and Dimension

EFSU5,7.2 & EFSU10.2



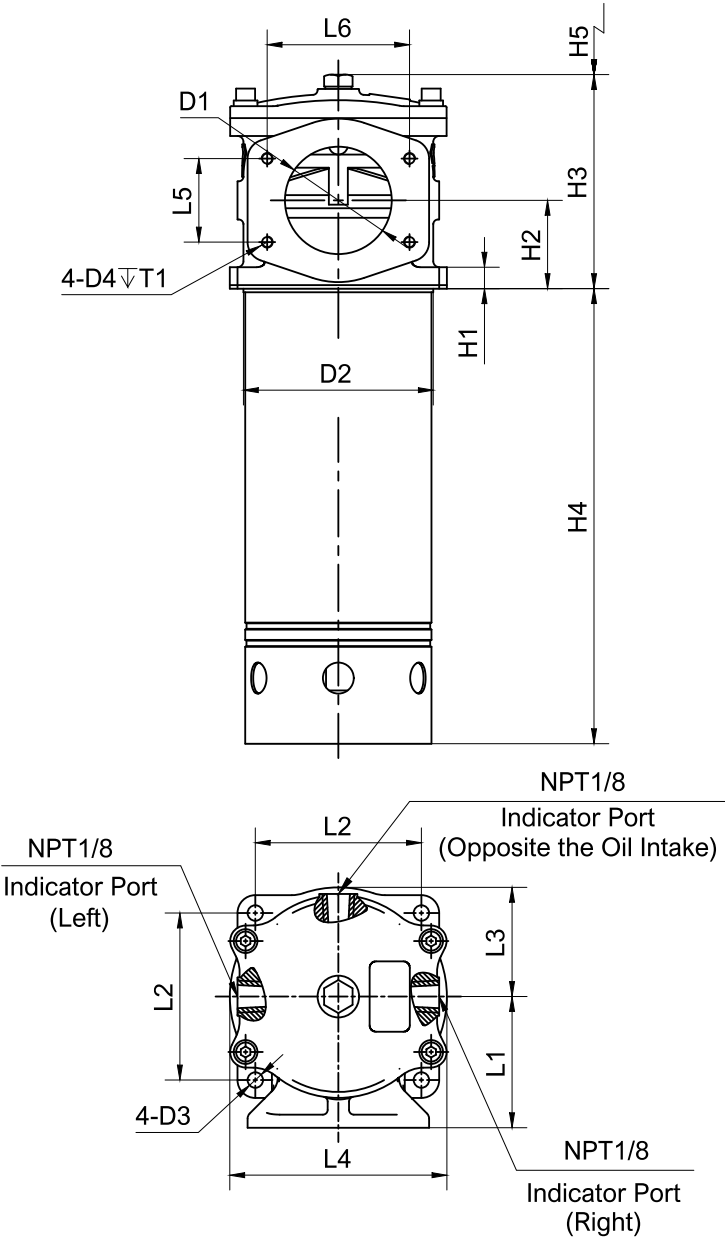
Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)	Height													
	inch	mm													
	D1	D2	D3	D4	H1	H2	H3	H4	H5*	L1	L2	L3	L4	L5	L6
EFSU5	G1½", M48x2	110	13	-	13	40	102	190	155	85	95	67	134	-	-
EFSU7.2	SAE DN 40 3000psi	110	13	M12	13	40	102	270	235	85	95	67	134	35.7	69.9
EFSU10.2	SAE DN 65 3000psi	130	13	M12	15	55	127	275	240	90	110	79	158	50.8	88.9

EFSU Suction Filter Series

Technical Drawings and Dimension

EFSU12.2,13.2 & EFSU15.2



Threaded Connection Ports

Type	Connection Port (BSP/NPT/SAE)	Height															
	inch	D1	D2	D3	D4	H1	H2	H3	H4	H5*	L1	L2	L3	L4	L5	L6	T1
EFSU12.2	SAE DN 90 3000psi	160	13	M16	15	71	174.5	319	308	110	140	96	183	69.9	120.6	18	
EFSU13.2								385	374								
EFSU15.2								460	449								

EFSU Suction Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F
EFSU	7.2	FE	02	B	-	W90	-	VA

Element Series	A	E
EESU	7	W90

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
7.2	250 l/min
10.2	400 l/min
12.2	660 l/min
13.2	850 l/min
15.2	990 l/min

B Connection Ports

BF	BSP1½ "
NF	NPT1½ "
A24	SAE24
FE	SAE DN40(3000psi)
FG	SAE DN65(3000psi)
FK	SAE DN90(3000psi)

C By-pass Valve

00	No
02	0.3bar
X	special

D Seal

B	NBR
V	FPM

E Media Material Filtration Collapse Pressure

W60	Wire Mesh	60µm	10 bar
W90	Wire Mesh	90µm	10 bar
W125	Wire Mesh	125µm	10 bar
W250	Wire Mesh	250µm	10 bar

F Indicator

Connection

00	No		
VA	-1~0bar	vacuum gauge	1/8NPT Thread
S02	-0.2bar	vacuum switch	1/8NPT Thread