EEST Series

EVOTEK Suction Strainers

Product Description

- 500 l/min max. flow rate
- installation in-tank mounting
- application in reservoir equipment
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application	Suction Strainers
Port Sizes:	Threaded Connections according to BSP and NPT standard in ½”to 3”
Flow Rate:	max. 500 l/min
Element Collapse Pressure:	1 bar
By-pass Opening Pressure:	Δp=0.3 bar ± 10%
Material	
Connector :	Aluminium
End caps & core :	Zinc plated 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

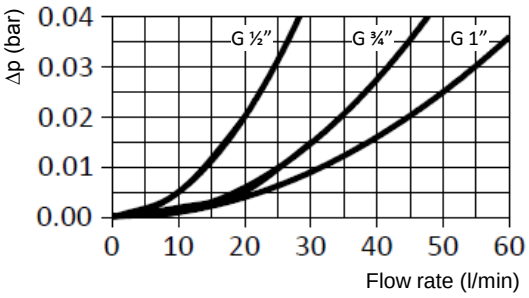
EEST Suction Strainers Series

Pressure Drop Graphs (Δp)

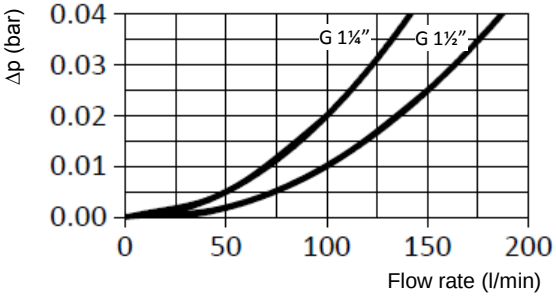
Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 0.5 to 1.5 m/s for pressure series)

Pressure Drop with Clean Filter Elements (wire mesh filter media)

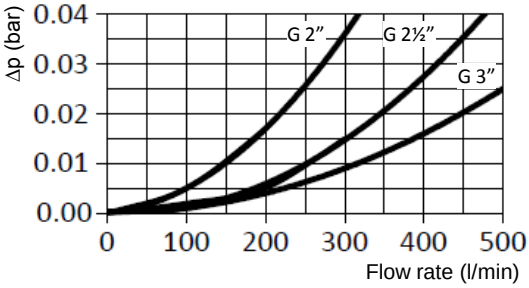
EEST3, 4, 6, 7 & 8



EEST9, 10, 11, 12, 13 & 14

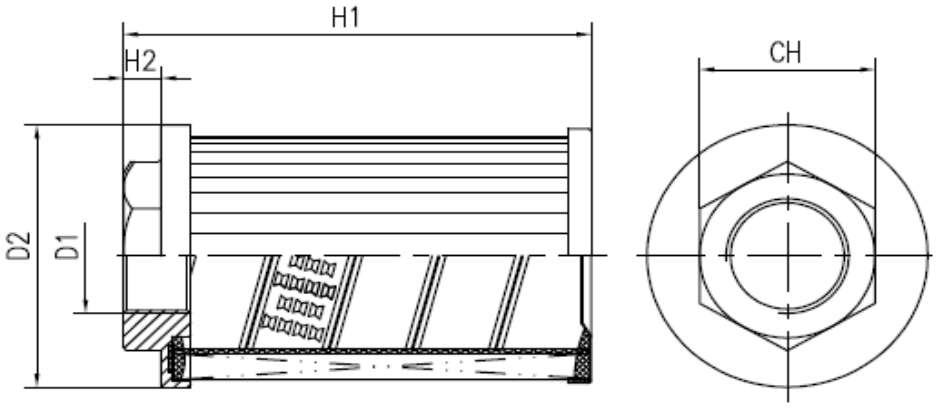


EEST15, 16, 17, 18 & 19



EEST Suction Strainers Series

Technical Drawings and Dimension



Threaded Connection Ports

	Connection Port (BSP/NPT)		Height			
	inch	mm	mm	mm	mm	
Type	D1	D2	H1	H2	CH	Filtration area
EEST3	½”	71	100	13	42	0.05 m²
EEST4	¾”	71	100	13	42	0.05 m²
EEST5	¾”	71	145	13	42	0.08 m²
EEST6	1”	71	145	13	42	0.08 m²
EEST7	1”	96	100	13	60	0.06 m²
EEST8	1”	96	135	13	60	0.085 m²
EEST9	1¼”	96	135	13	60	0.085 m²
EEST10	1¼”	96	220	13	60	0.15 m²
EEST11	1½”	96	220	13	60	0.15 m²
EEST12	1¼”	140	135	13	75	0.145 m²
EEST13	1½”	140	115	13	75	0.12 m²
EEST14	1½”	140	155	13	75	0.17 m²
EEST15	2”	140	155	13	75	0.17 m²
EEST16	2”	140	215	13	75	0.25 m²
EEST17	2”	140	265	13	75	0.3 m²
EEST18	2½”	140	277	25	101	0.3 m²
EEST19	3”	140	325	25	101	0.33 m²

EEST Suction Strainers Series

Order Codes

Element Series	A	B	C
EEST	5	00	W60

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
3	20 l/min
4	25 l/min
5	35 l/min
6	40 l/min
7	50 l/min
8	60 l/min
9	80 l/min
10	100 l/min
11	150 l/min
12	110 l/min
13	150 l/min
14	180 l/min
15	200 l/min
16	230 l/min
17	250 l/min
18	330 l/min
19	500 l/min

B By-pass Valve	
00	No
02	0.3 bar
X	special

C Media	Material	Filtration	Collapse Pressure
W60	Wire Mesh	60µm	1 bar
W90	Wire Mesh	90µm	1 bar
W250	Wire Mesh	250µm	1 bar

EFSP Series

EVOTEK Suction Filters

Product Description

- 100 l/min max. flow rate
- installation in-tank mounting
- application in the suction line of the pumps of hydraulic systems resp. upstream of the charge pumps of hydrostatic drives.
- compliant with industry relevant ISO standards(see ISO test below)

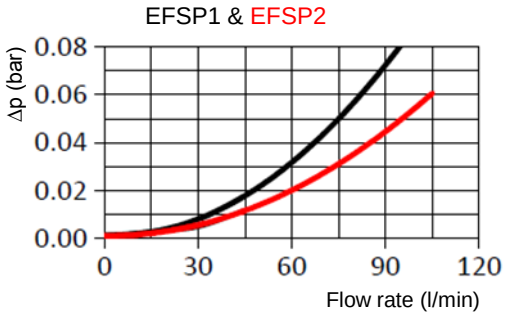
Technical Specifications

Application	Suction Filters
Port Sizes:	Threaded Connections according to BSP and NPT standard in 1¼" , SAE20,SAE DN40 3000psi
Flow Rate:	max. 100 l/min
Element Collapse Pressure:	1 bar
By-pass Opening Pressure:	Δp=0.3 bar ± 10%
Material	
Seals:	NBR or FPM (-10°C to 100°C)
Filter Head:	Aluminium
Filter Bowl:	Zinc plated steel
Cover:	Polyamide
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

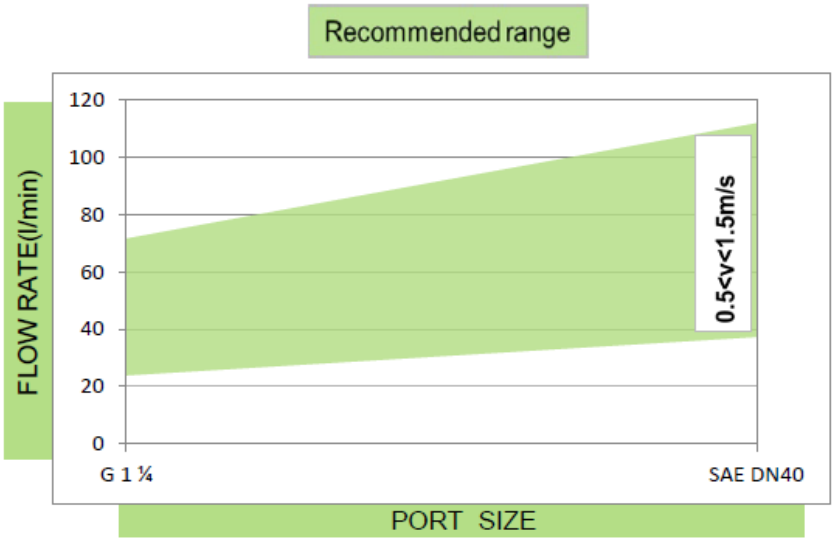
EFSP Suction Filters Series

Pressure Drop Graphs (Δp)

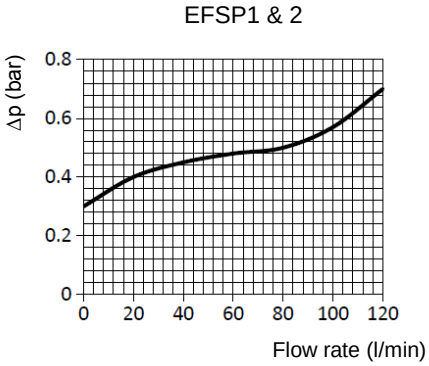
Pressure Drop of Filter Housing only



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)



Pressure drop graph on by-pass valve

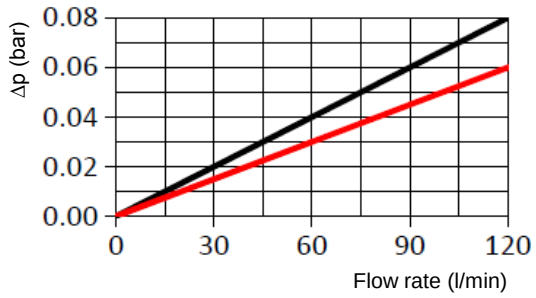


EFSP Suction Filters Series

Pressure Drop Graphs (Δp)

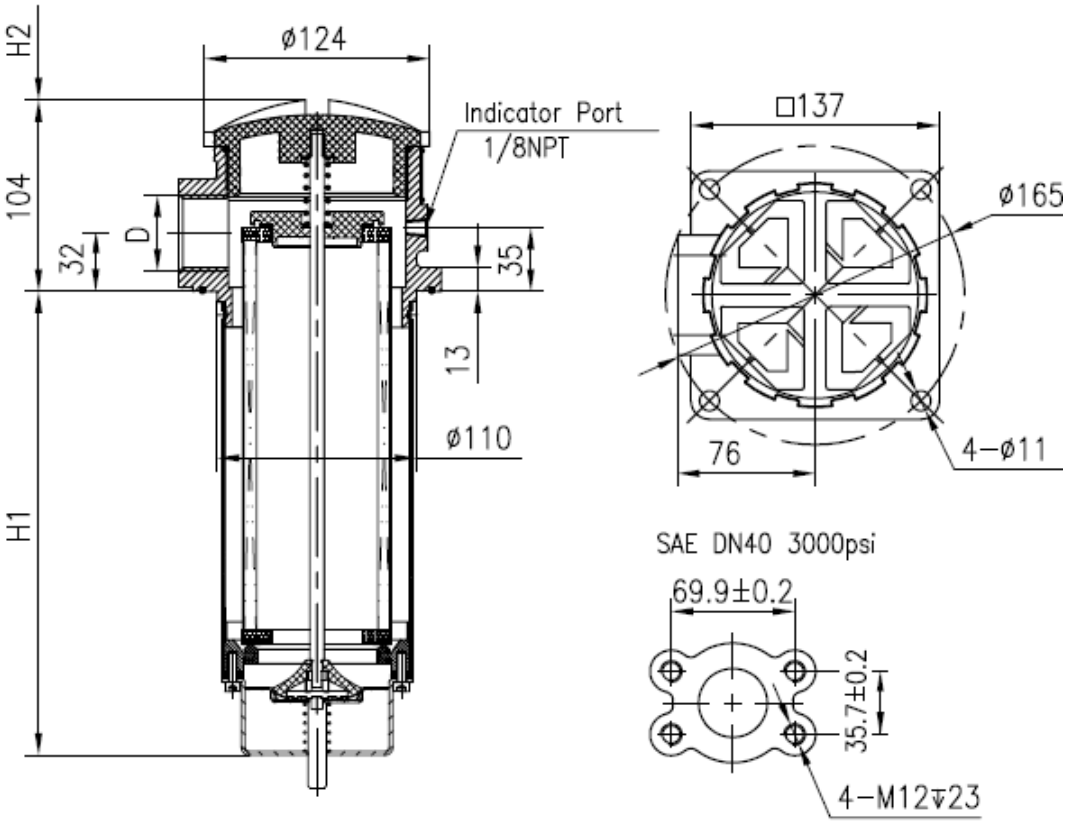
Pressure Drop with Clean Filter Elements (wire mesh filter media)

EFSP1&EFSP2



EFSP Suction Filters Series

Technical Drawings and Dimension



	Connection Port (BSP/NPT/SAE)	Height	
	inch	mm	
Type	D	H1	H2
EFSP1	1¼" SAE20	256	330
EFSP2	SAE DN40 3000 psi	500	570

EFSP Suction Filters Series

Order Codes

Filter Assembly	A	B	C	-	D	-	E
EFSP	1	BE	B	-	W60	-	VA

Element Series	A	D
EESP	1	W60

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	70 l/min
2	100 l/min

B Connection Ports

A20	SAE20
BE	BSP 1¼”
NE	NPT 1¼”
FE	SAE DN40 3000 psi

C Seal

B	NBR
V	FPM

D Media Material

		Filtration	Collapse Pressure
W25	Wire Mesh	25μm	1 bar
W60	Wire Mesh	60μm	1 bar
W90	Wire Mesh	90μm	1 bar

E Indicator

00	No	Connection
VA	-1～0 bar Axial vacuum gauge	1/8” NPT Thread
VR	-1～0 bar Radial vacuum gauge	1/8” NPT Thread
S02	-0.2 bar Vacuum switch	1/8” NPT Thread

Notes

EFSS Series

EVOTEK Suction Filters

Product Description

- Operating pressure up to 8 bar
- 50 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

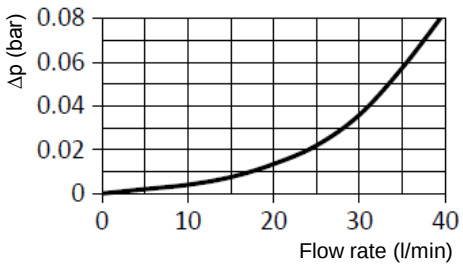
Application	Suction Filters
Port Sizes:	Threaded Connections according to BSP and NPT standard in ¾" & 1¼" and SAE12/ SAE20 threads
Flow Rate:	max. 50 l/min
Operating Pressure:	max. 8 bar
Burst Pressure:	min. 25 bar
Element Collapse Pressure:	4 bar
By-pass Opening Pressure:	Δp=0.3 bar ± 10%
Material	
Seals:	NBR or FPM (-10°C to 100°C)
Filter Head:	Aluminum
Filter Bowl:	Sheet 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 Fabric ion integrity ISO2943 Material compatibility integrity ISO3723 Method for end load test ISO3724 Flow fatigue characteristics ISO3968 Pressure Drop vs. Flow Rate

EFSS Suction Filter Series

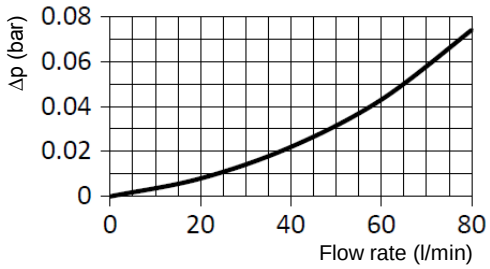
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

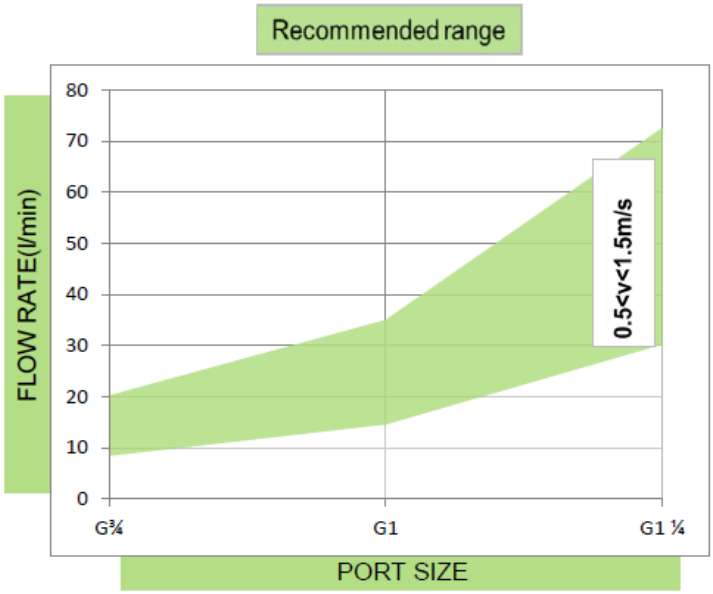
EFSS1 & EFSS2



EFSS3, EFSS4 & EFSS7

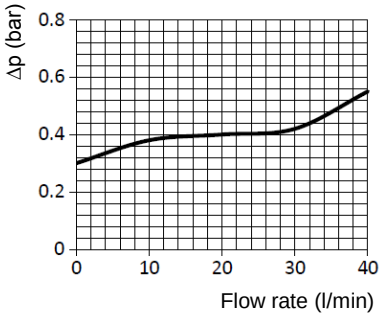


Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 0.5 to 1.5 m/s for pressure series)

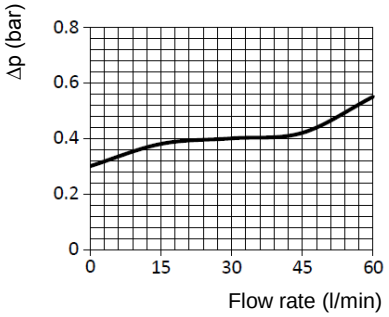


Pressure drop graph on by-pass valve

EFSS1 & 2



EFSS3,4 & 7

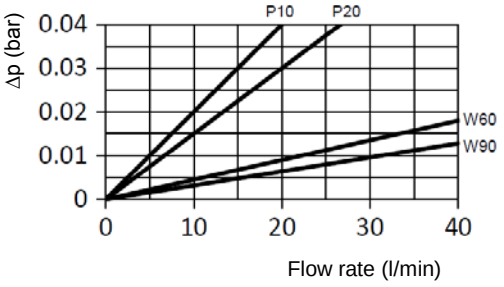


EFSS Suction Filter Series

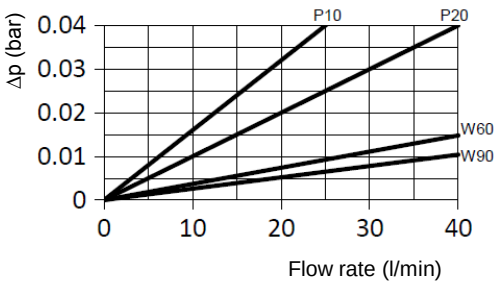
Pressure Drop Graphs (Δp)

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

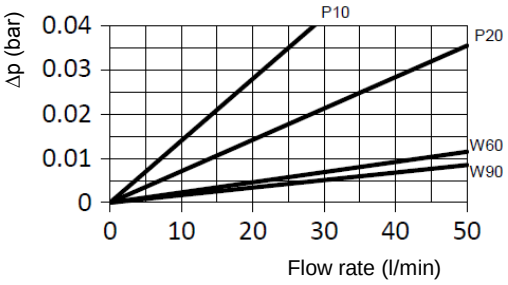
EEPS1



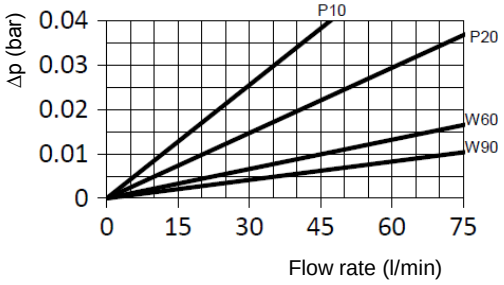
EEPS2



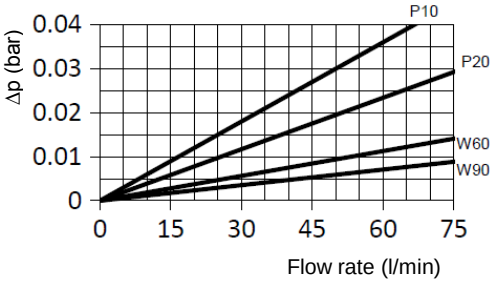
EEPS3



EEPS4



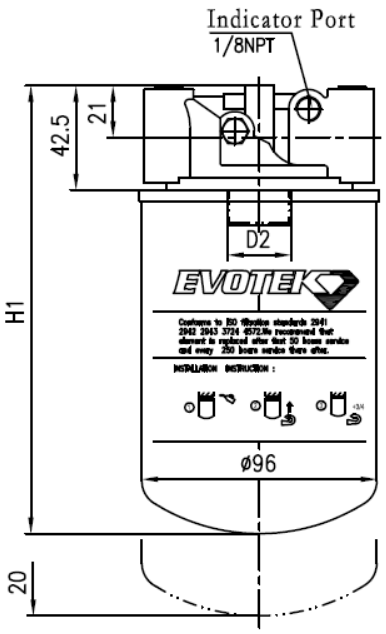
EEPS7



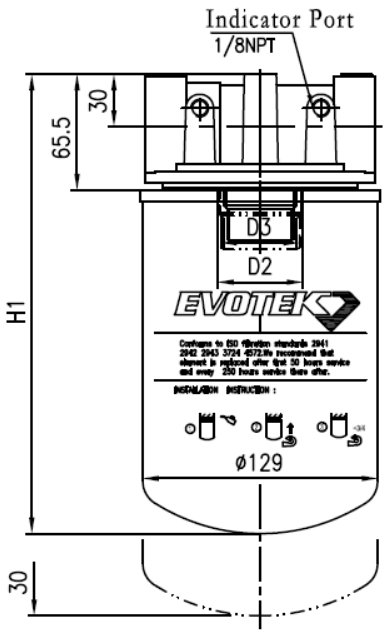
EFSS Suction Filter Series

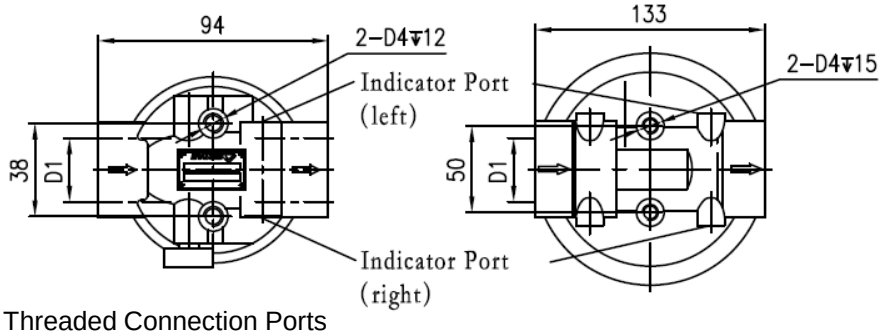
Technical Drawings and Dimension

EFSS1 & EFSS2



EFSS3, EFSS4 & EFSS7





Threaded Connection Ports

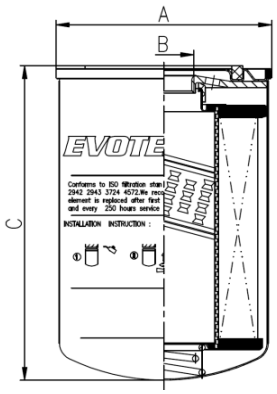
	Connection Port (BSP/NPT/SAE) inch				Height mm
Type	D1	D2	D3	D4	H1
EFSS1BC	G ¾"	G ¾"	-	M8	188
EFSS1NC	¾" NPT	1" - 12UNF	-	5/16-18UN	188
EFSS1A12	SAE12	1" - 12UNF	-	5/16-18UN	188
EFSS2BC	G ¾"	G ¾"	-	M8	234
EFSS2NC	¾" NPT	1" - 12UNF	-	5/16-18UN	234
EFSS2A12	SAE12	1" - 12UNF	-	5/16-18UN	234
EFSS3BE	G 1¼"	G 1¼"	-	M8	248
EFSS3NE	1¼" NPT	-	1½" - 16UN	5/16-18UN	240
EFSS3A20	SAE20	-	1½" - 16UN	5/16-18UN	240
EFSS4BE	G 1¼"	G 1¼"	-	M8	293
EFSS4NE	1¼" NPT	-	1½" - 16UN	5/16-18UN	335
EFSS4A20	SAE20	-	1½" - 16UN	5/16-18UN	335
EFSS7BE	G 1¼"	G 1¼"	-	M8	375

EFSS Suction Filter Series

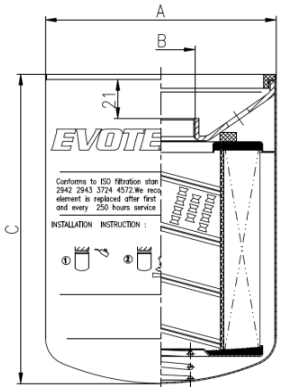
Technical Drawings and Dimension

ELEMENT

	Connection Port (BSP/UN)	Diameter	Height
	inch	mm	mm
Type	B	A	C
EEPS1-B	G ¾"	96	146
EEPS2-B	G ¾"	96	191
EEPS1-U	1"-12 UNF-2B	96	146
EEPS2-U	1"-12 UNF-2B	96	191
EEPS3-B	G 1¼"	129	181
EEPS4-B	G 1¼"	129	226
EEPS7-B	G 1¼"	129	308



	Connection Port (UN)	Diameter	Height
	inch	mm	mm
Type	B	A	C
EEPS3-U	1½" 16-UN	128	175
EEPS4-U	1½" 16-UN	128	270



EFSS Suction Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F	G
EFSS	1	BC	00	-	B	W60	-	VA	R

Element Series	A	-	See prev. page	E	D
EEPS	1	-	B (BSP) / U (UN)	W60	B

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	25 l/min
2	30 l/min
3	40 l/min
4	45 l/min
7	50 l/min

B Connection Ports

A12	SAE12
A20	SAE20
BC	BSP ¾"
BE	BSP 1¼"
NC	NPT ¾"
NE	NPT 1¼"

C By-pass Valve

00	No
02	0.3bar
X	special

D Seal

B	NBR
V	FPM

E Media Material		Filtration	Collapse Pressure
P10	Cellulose	10µm	4 bar
P20	Cellulose	20µm	4 bar
W60	Wire Mesh	60µm	4 bar
W90	Wire Mesh	90µm	4 bar

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

G Indicator Mounting position

R	Right
L	Left