



EFDL Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 25 bar
- 1300 l/min max. flow rate
- installation in line
- application in heavy duty, industry , construction and agricultural machines
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

Application

In-line duplex filter

Port Sizes:

Threaded Connections according to BSP standard in 1 ", 1-½ " inch
Flange Connections in SAE DN25 & SAE DN40 & SAE DN50 & SAE DN65 3000psi, SAE&DIN DN80 3000psi, SAE&DIN DN100 3000psi
max. 1300 l/min

Flow Rate:

Operating Pressure:

max. 25 bar

Burst Pressure:

min. 75bar

Element Collapse Pressure:

10 bar Cellulose
21 bar Fibreglass
30 bar Wire Mesh

By-pass Opening Pressure:

$\Delta p = 3 \text{ bar} \pm 10\%$

Clogging indicator setting:

$\Delta p = 2 \text{ bar} \pm 10\%$

Material

Seals:

NBR or FPM (-10°C to 100°C)

Filter Head:

Cast iron

Filter Bowl:

Cast iron

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:

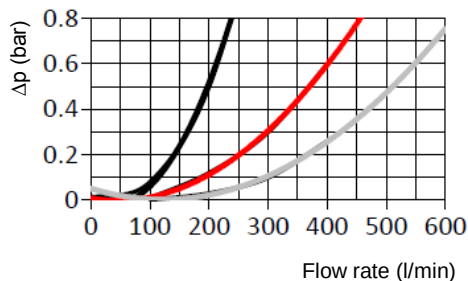
ISO2941 Collapse/burst resistance
ISO2942 Fabrication integrity
ISO2943 Material compatibility integrity
ISO3723 Method for end load test
ISO3724 Flow fatigue characteristics
ISO3968 Pressure Drop vs. Flow Rate
ISO16889 Multi-Pass Test

EFDL Pressure Filter Series

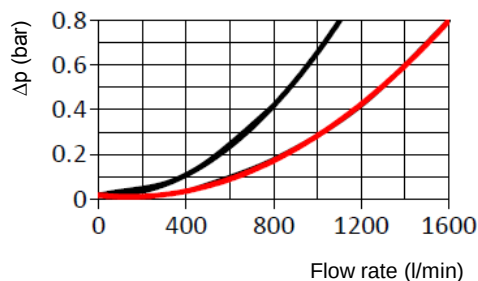
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFDL3, **EFDL6**, EFDL9 & 11



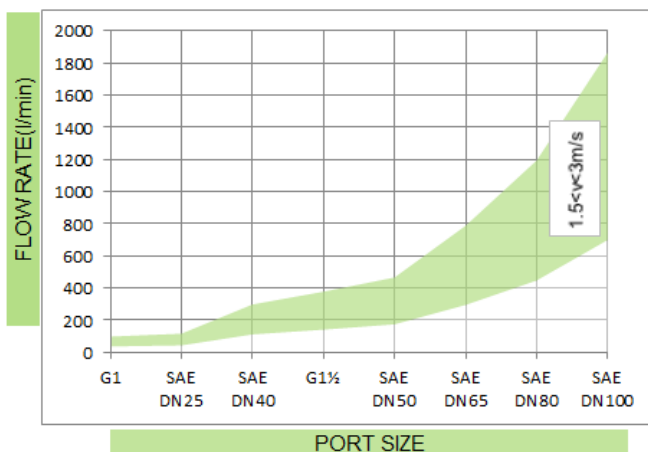
EFDL12 & 13, **EFDL14 & 16**



Graph of oil flow velocity

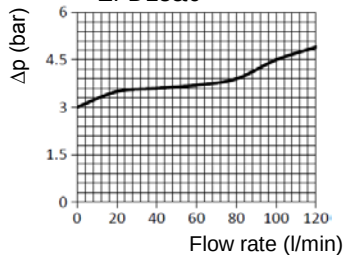
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Recommended range

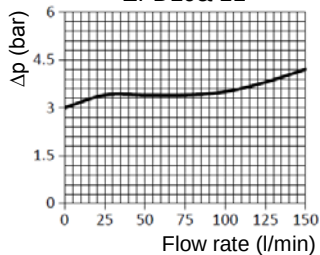


Pressure drop graph on by-pass valve

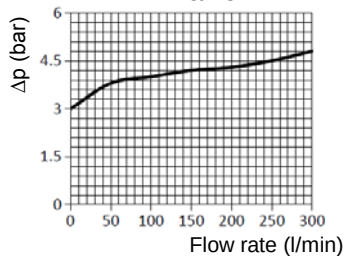
EFDL3&6



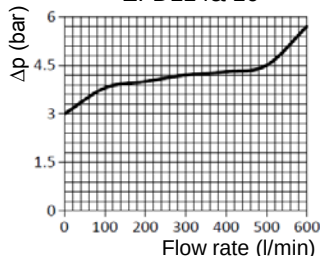
EFDL9 & 11



EFDL12 & 13



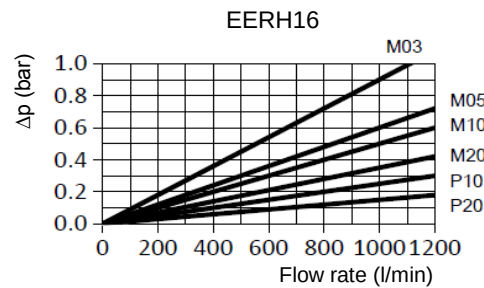
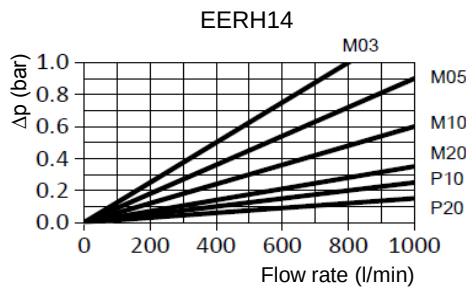
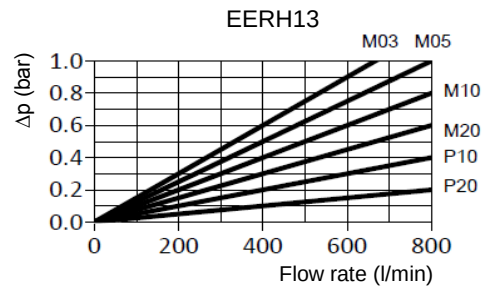
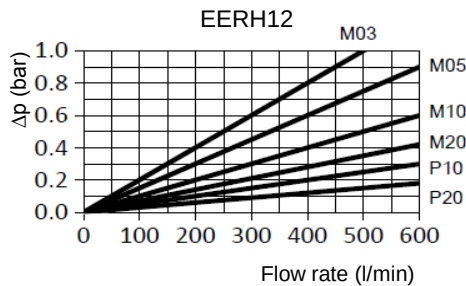
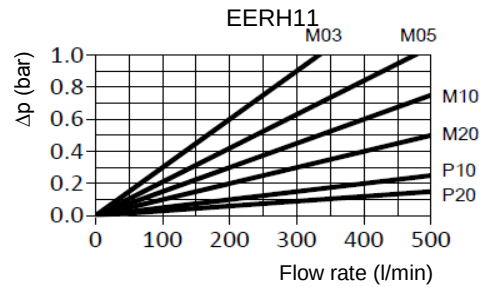
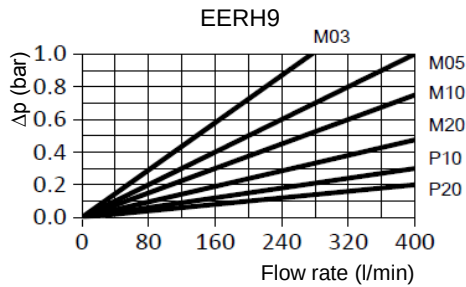
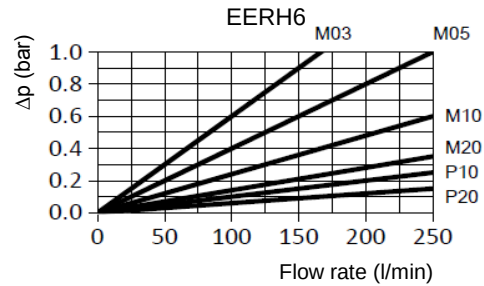
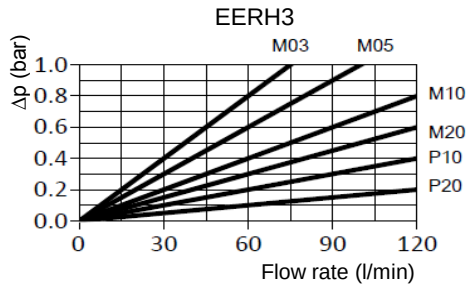
EFDL14 & 16



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Pressure Drop Graphs (Δp)

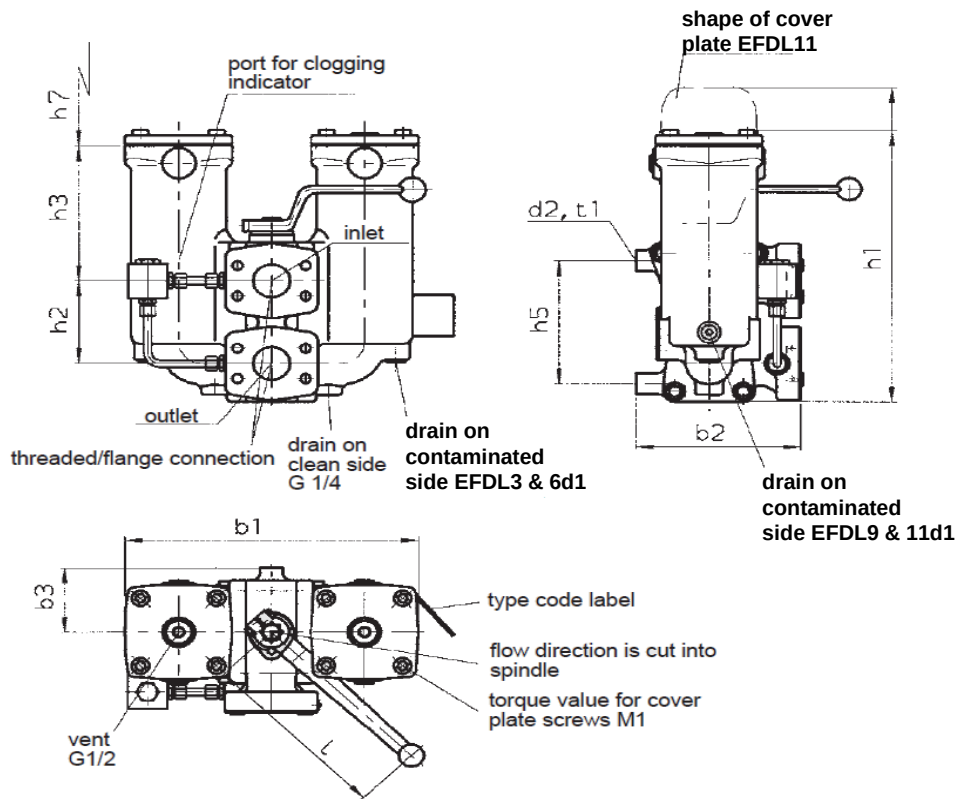
Pressure Drop with Clean Filter Elements (M and P filter media)



EFDL Pressure Filter Series

Technical Drawings and Dimension

EFDL3 to EFDL11



Connection Port

Type	Flange ¹	Thread ²	H/mm												
			b1	b2	b3	d1	d2	h1	h2	h3	h5	h7	l	M1	t1
EFDL3	DN25 (1")	G 1"	233	157	63	G ¼	M12	263	80	132	80	175	173	24 Nm	25
EFDL6	DN40 (1½")	G 1½"	302	167	75	G ¼	M12	321	95	155	140	210	216	40 Nm	18
EFDL9	DN40(1½")	-	396	167	75	G ½	M12	302	95	145	140	200	216	45 Nm	18
EFDL9	DN50 (2")	-	380	187	85	G ½	M12	323	110	140	165	200	216	45 Nm	18
EFDL11	DN40 (1½")	-	396	167	75	G½	M12	382	95	145	140	280	216	45 Nm	18
EFDL11	DN50 (2")	-	380	187	85	G½	M12	400	110	140	165	280	216	45 Nm	18

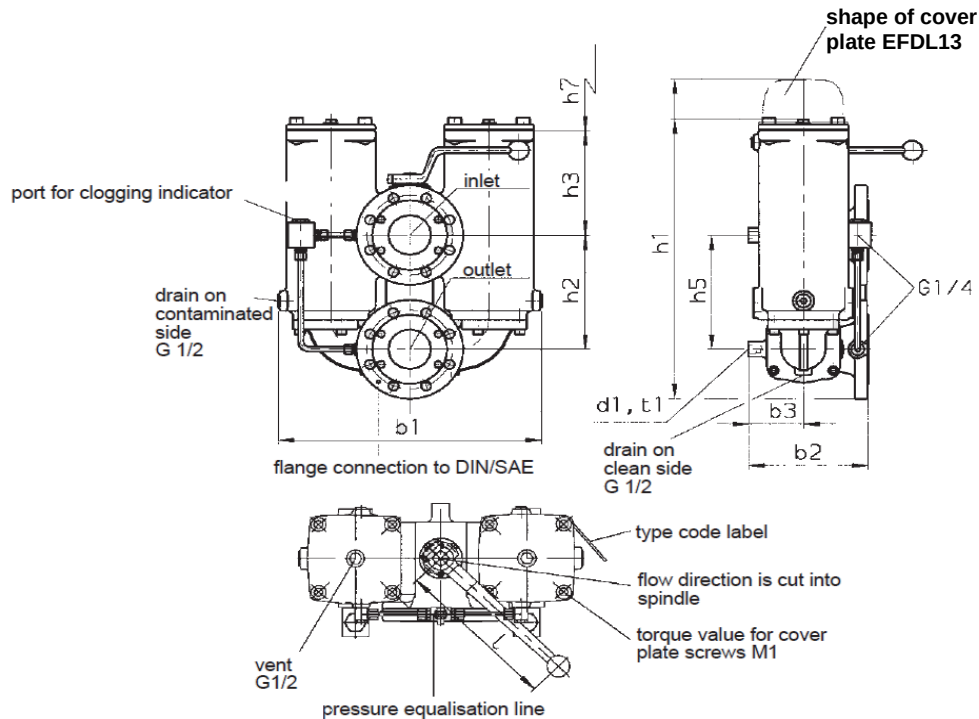
¹ Flanges according to SAE J518C, pressure range 3000 psi

² Threaded connection to ISO228

EFDL Pressure Filter Series

Technical Drawings and Dimension

EFDL12 to EFDL16



Connection Port (Flange)

		H/mm											
Type	Flange ¹	b1	b2	b3	d1	h1	h2	h3	h5	h7	l	M1	t1
EFDL12	SAE DN50 (2")	496	187	85	M12	460	110	282	165	340	216	150 Nm	18
EFDL12	SAE DN65 (2½")	496	237	85	M12	472	110	282	165	340	216	150 Nm	18
EFDL12	SAE/DIN DN80 (3")	490	222	102	M12	566	230	210	230	340	301	150 Nm	23
EFDL13	SAE DN50 (2")	496	187	85	M12	544	110	282	165	420	216	150 Nm	18
EFDL13	SAE DN65 (2½")	496	237	85	M12	556	110	282	165	420	216	150 Nm	18
EFDL13	SAE/DIN DN80 (3")	490	222	102	M12	650	230	210	230	420	301	150 Nm	23
EFDL14	SAE/DIN DN80 (3")	548	222	102	M12	595	230	243	230	370	301	250 Nm	23
EFDL14	SAE/DIN DN100 (4")	555	248	118	M16	640	250	238	250	370	301	250 Nm	23
EFDL16	SAE/DIN DN80 (3")	548	222	102	M12	701	230	243	230	490	301	250 Nm	23
EFDL16	SAE/DIN DN100 (4")	555	248	118	M16	746	250	238	250	490	301	250 Nm	23

1 flange SAE J518C (standard pressure 3000 psi) & DIN2501, pn25/40 (type "D" or "E" seals)

EFDL Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F	Element Series	A	C	D	E
EFDL	3	BD	B	-	08	F03	-	2PE	EERH	3	B	08	F03

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	D By-pass Valve			
3	110 l/min	0	NO		
6	240 l/min	08	3bar		
9	330 l/min	X	Special		
11	500 l/min				
12	660 l/min	E Media Material	Filtration		Collapse Pressure
13	850 l/min	P10	Cellulose	10µm	10 bar
14	950 l/min	P20	Cellulose	20µm	10 bar
16	1300 l/min	M03	Fibreglass	5µm	21 bar
		M05	Fibreglass	7µm	21 bar
		M10	Fibreglass	12µm	21 bar
B Connection Ports		M20	Fibreglass	21µm	21 bar
BD	BSP 1"	Y25	Wire Mesh	25µm	30 bar
BF	BSP 1-½"	Y60	Wire Mesh	60µm	30 bar
FC	SAE DN25 3000psi	Y90	Wire Mesh	90µm	30 bar
FE	SAE DN40 3000psi	Y125	Wire Mesh	125µm	30 bar
FF	SAE DN50 3000psi				
FG	SAE DN65 3000psi				
DH	SAE/DIN DN80 3000psi	F Indicator			Connection
DI	SAE/DIN DN100 3000psi	0		No	
		2PE		2bar Electrical	BSP½" Thread
		2PB		2bar Visual/Electrical	BSP½" Thread
C Seal					
B	NBR				
V	FPM				