



EFDA Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 25 bar
- 400 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

Port Sizes:

Flow Rate:

Operating Pressure:

Burst Pressure:

Element Collapse Pressure:

By-pass Opening Pressure:

Clogging indicator setting:

Material

Seals:

Filter Head:

Filter Bowl:

Compatibility:

Tested according to ISO standards:

In-line duplex filter

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

Flange Connections in SAE DN40 for 3000psi

max. 400 l/min

max. 25 bar

min. 75 bar

10 bar Fibreglass

30 bar Wire Mesh

$\Delta p = 3.5 \text{ bar} \pm 0.5 \text{ bar}$ or $\Delta p = 7 \text{ bar} \pm 0.5 \text{ bar}$

$\Delta p = 2.5 \text{ bar} \pm 10\%$ or $\Delta p = 5 \text{ bar} \pm 10\%$

NBR or FPM (-10°C to 100°C)

Aluminum

Aluminum

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)

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

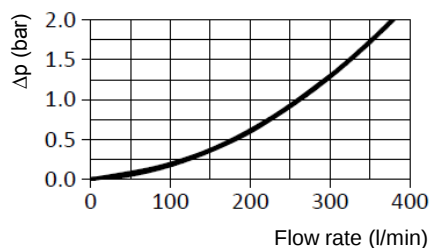
ISO16889 Multi-Pass Test

EFDA Pressure Filter Series

Pressure Drop Graphs (Δp)

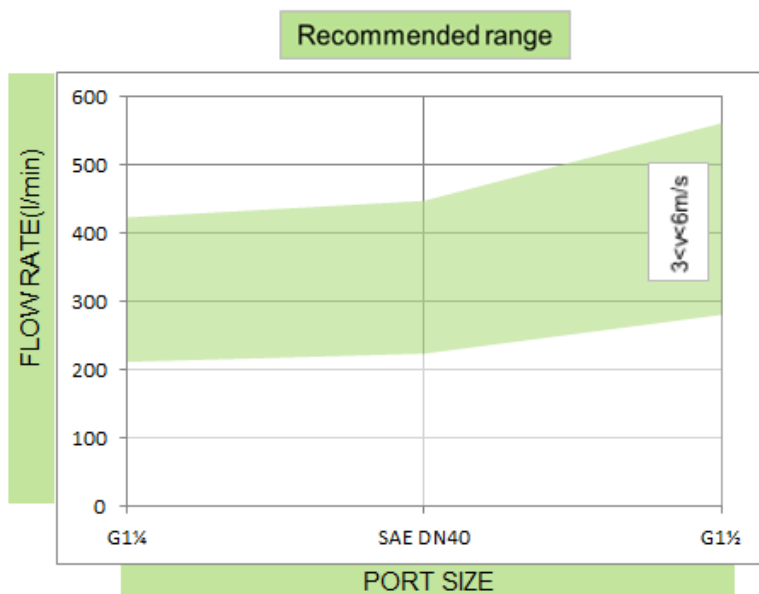
Pressure Drop of Filter Housing only

EFDA5, EFDA7 & EFDA10



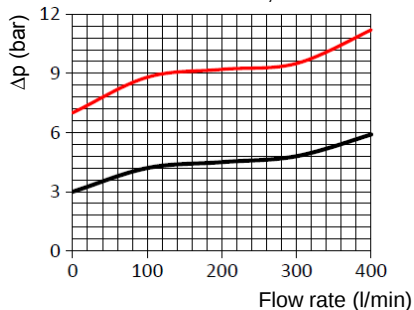
Graph of oil flow velocity

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



Pressure drop graph on by-pass valve

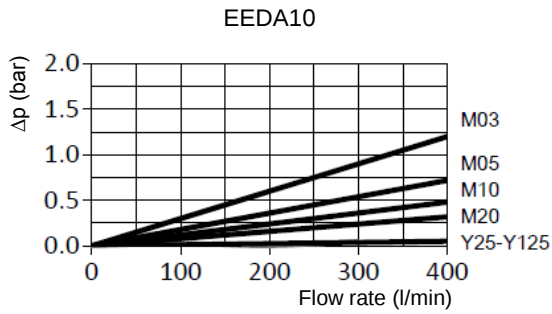
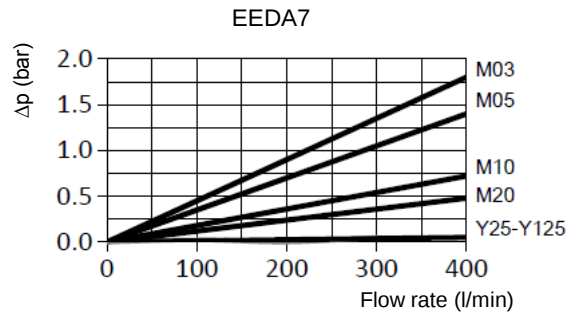
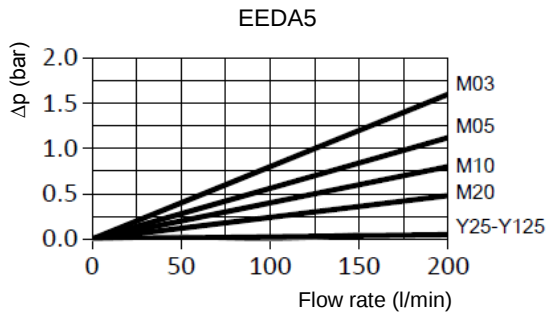
EFDA5, 7 & 10



EFDA Pressure Filter Series

Pressure Drop Graphs (Δp)

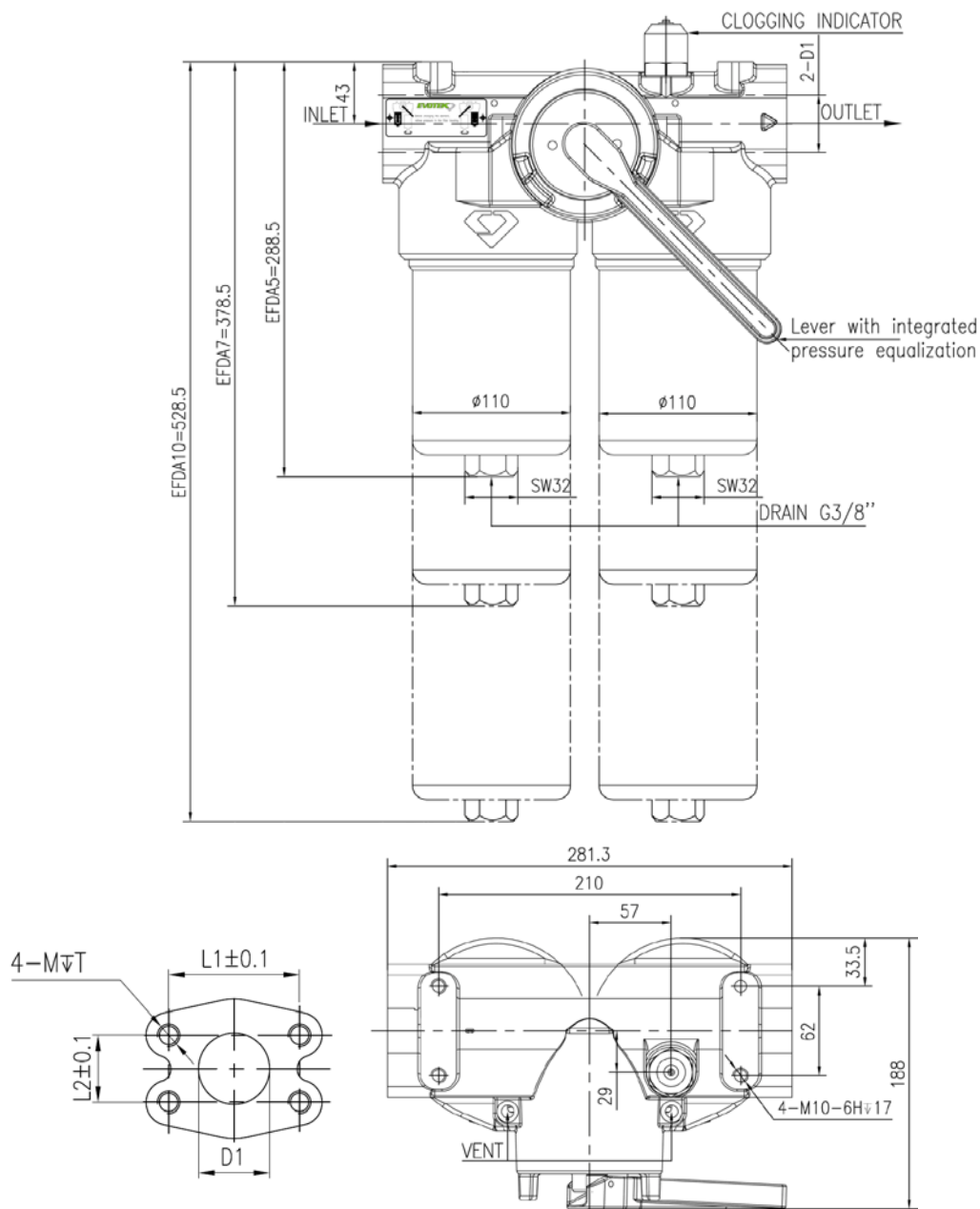
Pressure Drop with Clean Filter Elements (M and Y filter media)



EFDA Pressure Filter Series

Technical Drawings and Dimension

EFDA5,7&10



Connection Port
(BSP/NPT/SAE)
inch

Type	D1	L1	L2	M	T
EFDA5	1¼", SAE20				
EFDA7	1½", SAE24	69.9	35.7	12	23
EFDA10	SAE DN40 3000 psi				

www.evotek-hyd.com



EFDA Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	D	-	E	-	F	G	Element Series	A	D	E
EFDA	5	BE	09	B	-	M10	-	V25		EEDA	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

B Connection Ports

BE	BSP 1-1/4"
BF	BSP 1-1/2"
NE	NPT 1-1/4"
NF	NPT 1-1/2"
A20	SAE20
A24	SAE24
FE	SAE DN40 3000psi

C By-pass Valve

00	NO
09	3.5 bar
12	7 bar
X	Special

D Seal

B	NBR
V	FPM

E Media Material Filtration Collapse Pressure

M03	Fibreglass	5µm	21 bar
M05	Fibreglass	7µm	21 bar
M10	Fibreglass	12µm	21 bar
M20	Fibreglass	21µm	21 bar
Y25	Wire Mesh	25µm	30 bar
Y60	Wire Mesh	60µm	30 bar
Y90	Wire Mesh	90µm	30 bar
Y125	Wire Mesh	125µm	30 bar

F Indicator

00	No	Connection
V25	2.5bar Visual indicator	M20*1.5 Thread
E25	2.5bar Visual/ electrical	M20*1.5 Thread
V50	5.0bar Visual indicator	M20*1.5 Thread
E50	5.0bar Visual / electrical	M20*1.5 Thread

G special

RL	Opposite direction
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EFDM Series

EVOTEK Pressure Filters



Product Description

- Operating pressure up to 210 bar
- 400 l/min max. flow rate
- installation in pressure 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 and NPT standard in $\frac{3}{4}$ " , $1\frac{1}{4}$ " , $1\frac{1}{2}$ " inch

Flange Connections in SAE DN40 for 3000psi

Flow Rate:

max. 400 l/min

Operating Pressure:

max. 210 bar

Burst Pressure:

min. 630 bar

Element Collapse Pressure:

21 bar or 210 bar Fibreglass

30 bar Wire Mesh

By-pass Opening Pressure:

$\Delta p = 7\text{bar} \pm 0.5\text{bar}$

Clogging indicator setting:

$\Delta p = 5\text{bar} \pm 10\%$

Material

Seals:

NBR or FPM (-10°C to 100°C)

Filter Head:

Cast iron

Filter Bowl:

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

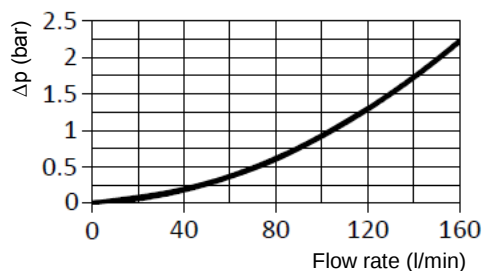
ISO16889 Multi-Pass Test

EFDM Pressure Filter Series

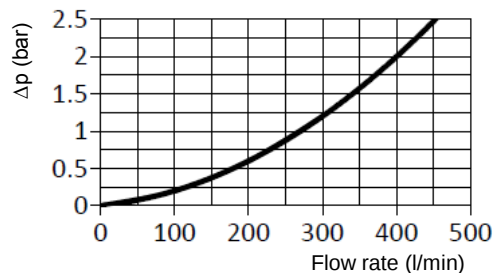
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFDM2, EFDM3 & EFDM4

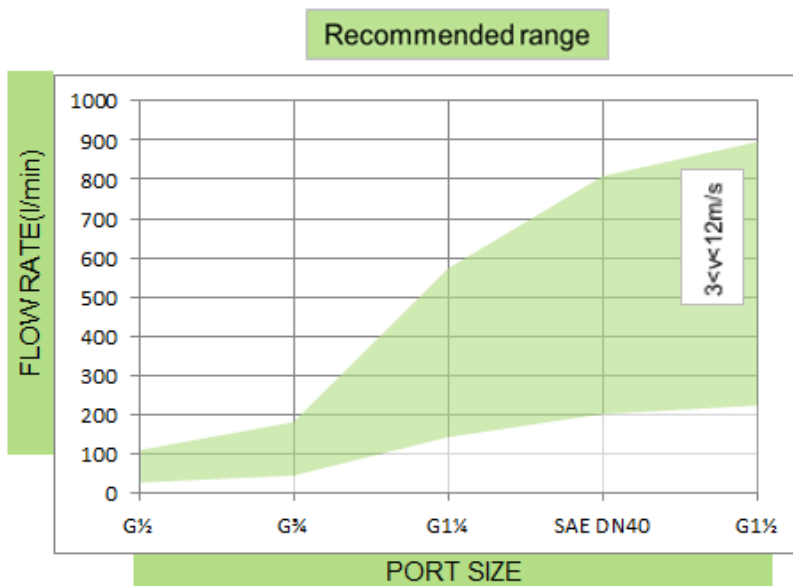


EFDM5.1, EFDM7.1 & EFDM10.1



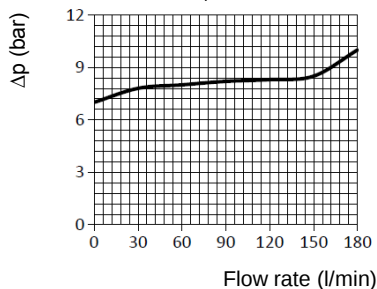
Graph of oil flow velocity

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

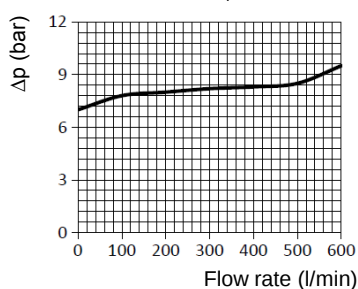


Pressure drop graph on by-pass valve

EFDM2,3 & 4



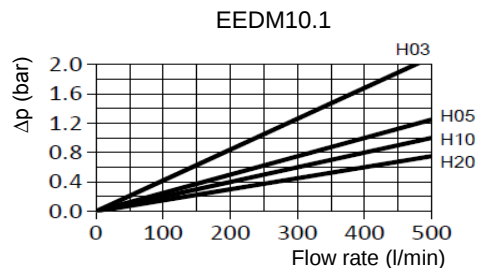
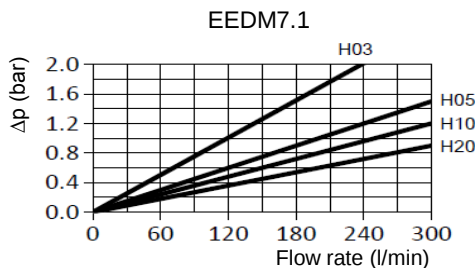
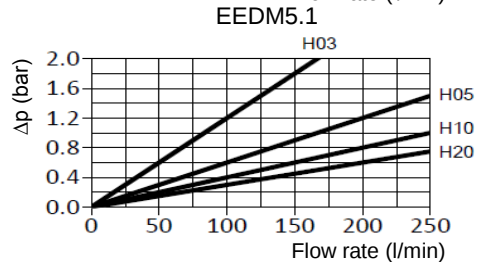
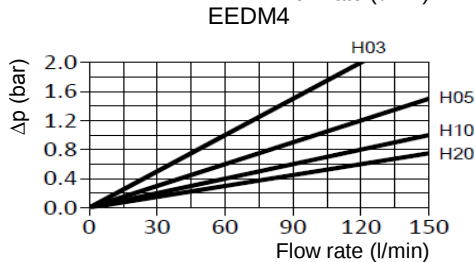
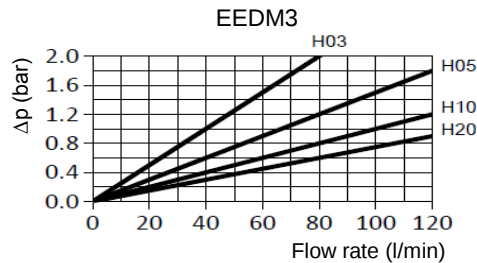
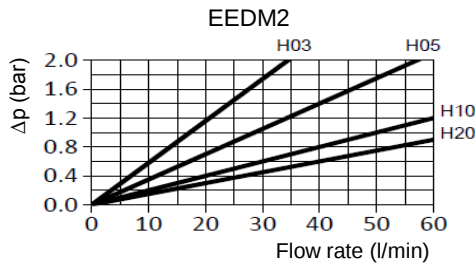
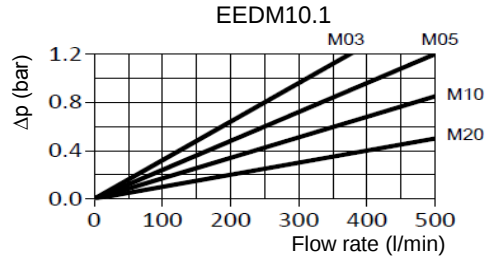
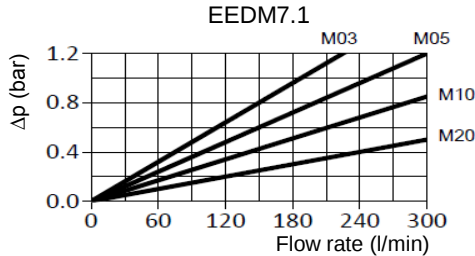
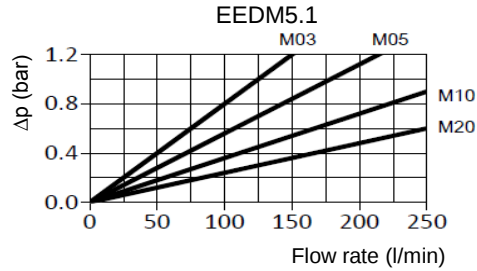
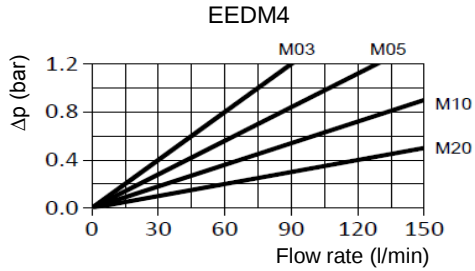
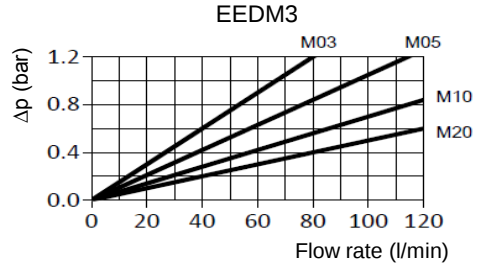
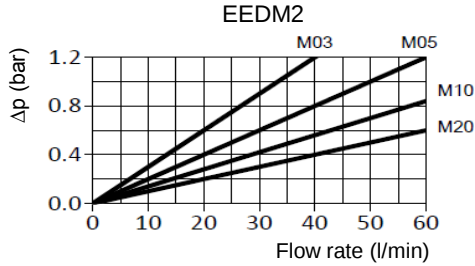
EFDM5.1,7.1 & 10.1



EFDM Pressure Filter Series

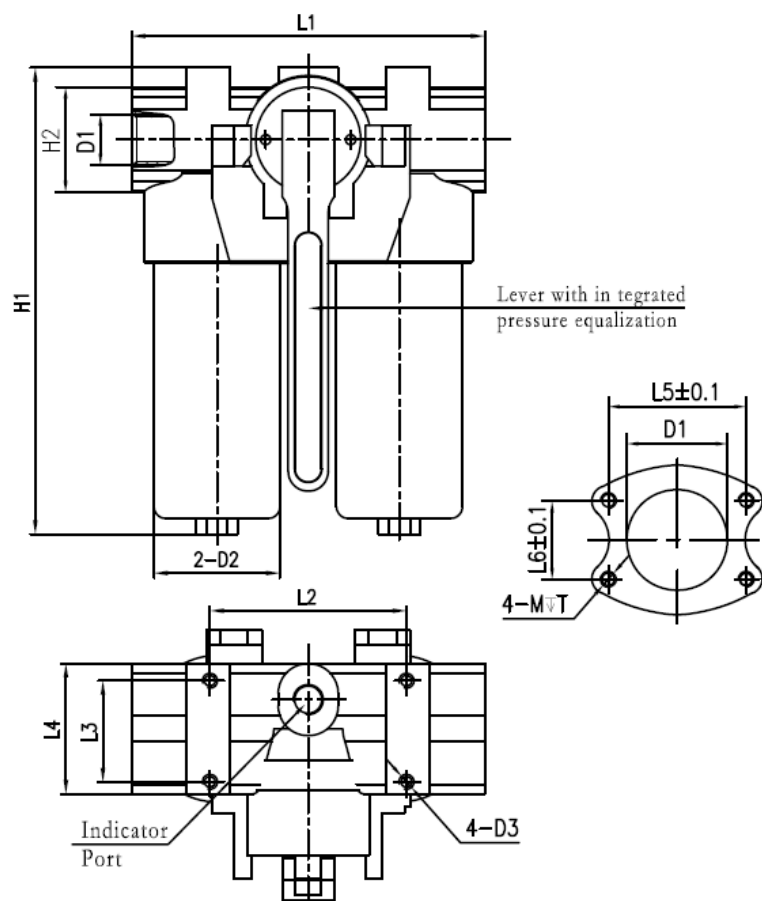
Pressure Drop Graphs (Δp)

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



EFDM Pressure Filter Series

Technical Drawings and Dimension



Connection Port (BSP/NPT/SAE)

Type	inch	H/mm											
	D1	D2	D3	H1	H2	L1	L2	L3	L4	L5	L6	M	T
EFDM2		68	M8x16	180	55	190	106	54.5	70	-	-	-	-
EFDM3	¾",SAE12	68	M8x16	245	55	190	106	54.5	70	-	-	-	-
EFDM4		68	M8x16	290	55	190	106	54.5	70	-	-	-	-
EFDM5.1	1¼",SAE20	115.5	M12x18	308	90	282	210	62	150	-	-	-	-
EFDM7.1	1½",SAE24	115.5	M12x18	398	90	282	210	62	150	-	-	-	-
EFDM10.1	SAE DN40 3000 psi	115.5	M12x18	548	90	282	210	62	150	69.9	35.7	12	23

EFDM Pressure Filter Series

Order Codes

Filter. Assembly Series	A	B	C	D	-	E	-	F	G	Element Series	A	D	E
EFDM	2	BC	12	B	-	M03	-	5PV	X	EEDM	2	B	M03

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

2	60 l/min
3	110 l/min
4	140 l/min
5.1	160 l/min
7.1	250 l/min
10.1	400 l/min

B Connection Ports

BC	BSP ¾"
BE	BSP 1-¼"
BF	BSP 1-½"
NC	NPT ¾"
NE	NPT 1-¼"
NF	NPT 1-½"
A12	SAE12
A20	SAE20
A24	SAE24
FE	SAE DN40 3000psi

C By-pass Valve

00	NO
12	7bar
X	Special

D Seal

B	NBR
V	FPM

E Media Material Filtration Collapse Pressure

M03	Fibreglass	5µm	21 bar
M05	Fibreglass	7µm	21 bar
M10	Fibreglass	12µm	21 bar
M20	Fibreglass	21µm	21 bar
H03	Fibreglass	5µm	210 bar
H05	Fibreglass	7µm	210 bar
H10	Fibreglass	12µm	210 bar
H20	Fibreglass	21µm	210 bar
Y25	Wire Mesh	25µm	30 bar
Y60	Wire Mesh	60µm	30 bar
Y90	Wire Mesh	90µm	30 bar
Y125	Wire Mesh	125µm	30 bar

F Indicator

00	N0	Connection
5PV	5bar Visual	BSP½" Thread
5PE	5bar Electrical	BSP½" Thread
5PB	5 bar Visual/Electrical	BSP½" Thread

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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:

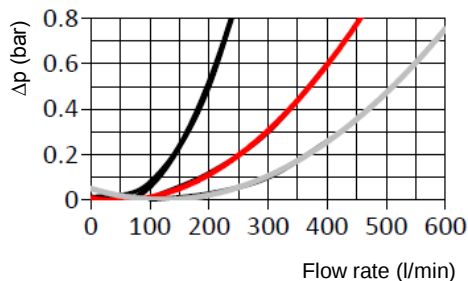
ISO2941 Collapse/burst resistance
ISO2942 Fabrication integrity
ISO2943 Material compatibility integrity
ISO3723 Method for end load test
ISO3724 Flow fatigue characteristics
ISO3968 Pressure Drop vs. Flow Rate
ISO16889 Multi-Pass Test

EFDL Pressure Filter Series

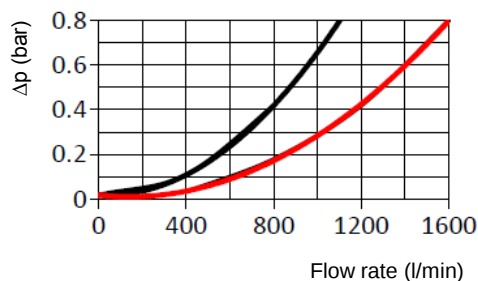
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

EFDL3, **EFDL6**, EFDL9 & 11



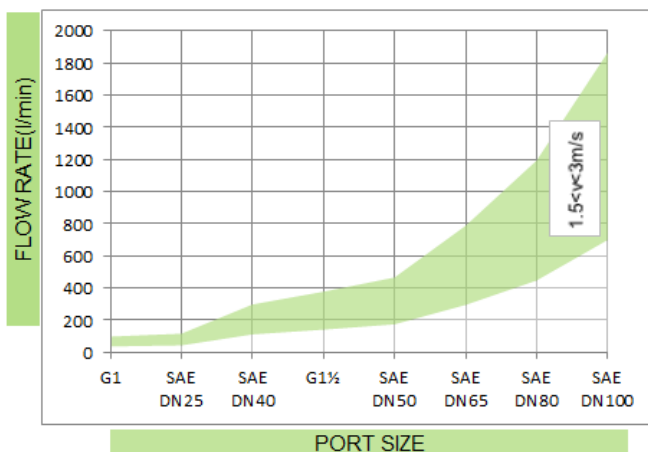
EFDL12 & 13, **EFDL14 & 16**



Graph of oil flow velocity

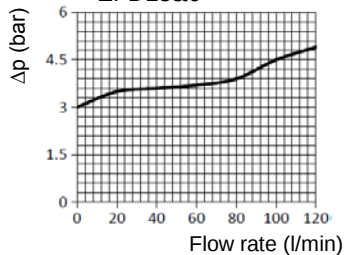
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Recommended range

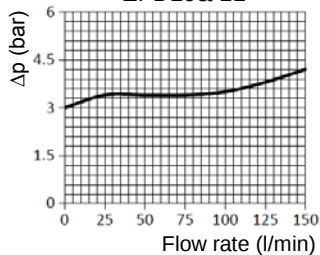


Pressure drop graph on by-pass valve

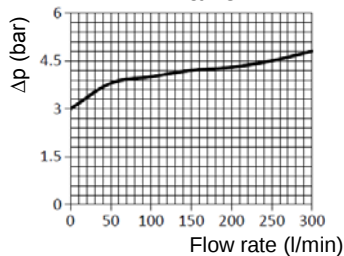
EFDL3&6



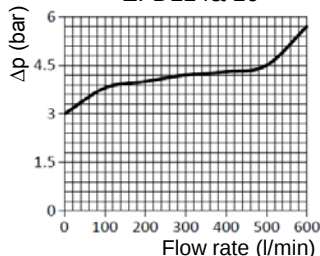
EFDL9 & 11



EFDL12 & 13



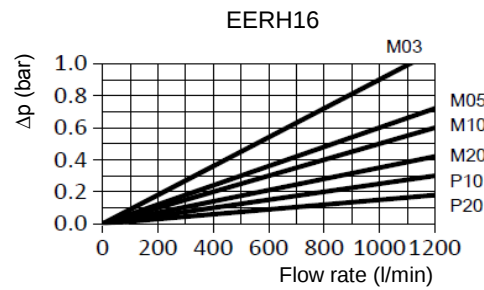
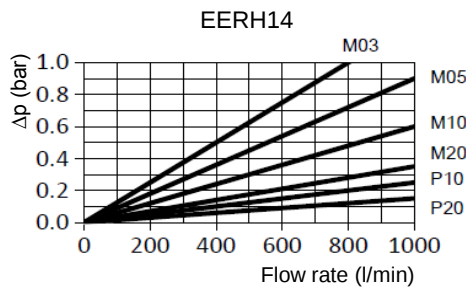
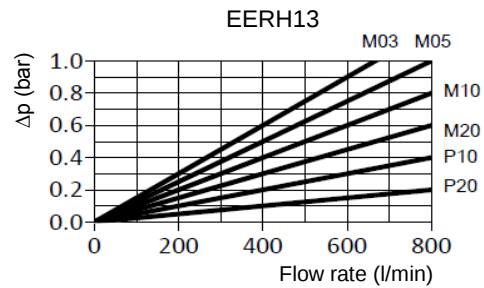
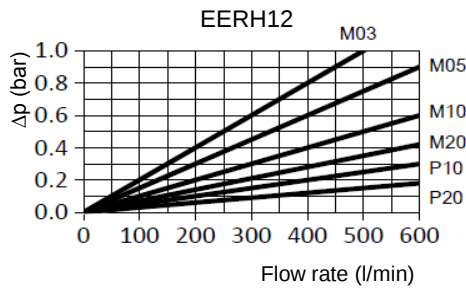
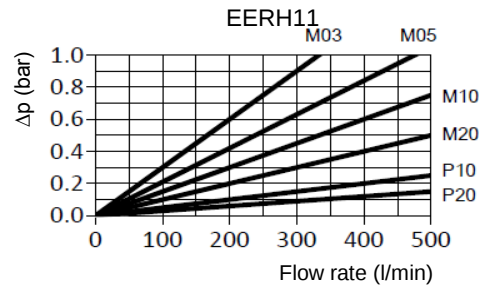
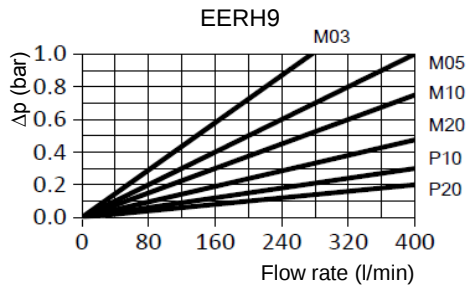
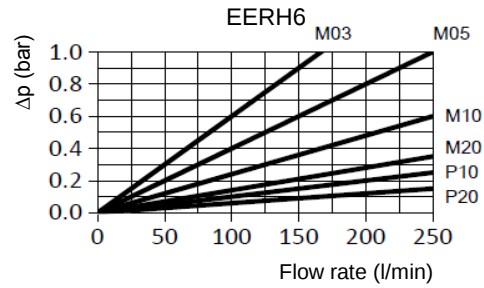
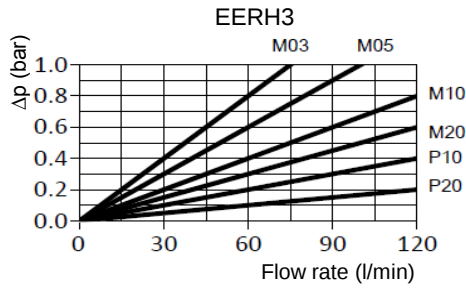
EFDL14 & 16



EFDL Pressure Filter Series

Pressure Drop Graphs (Δp)

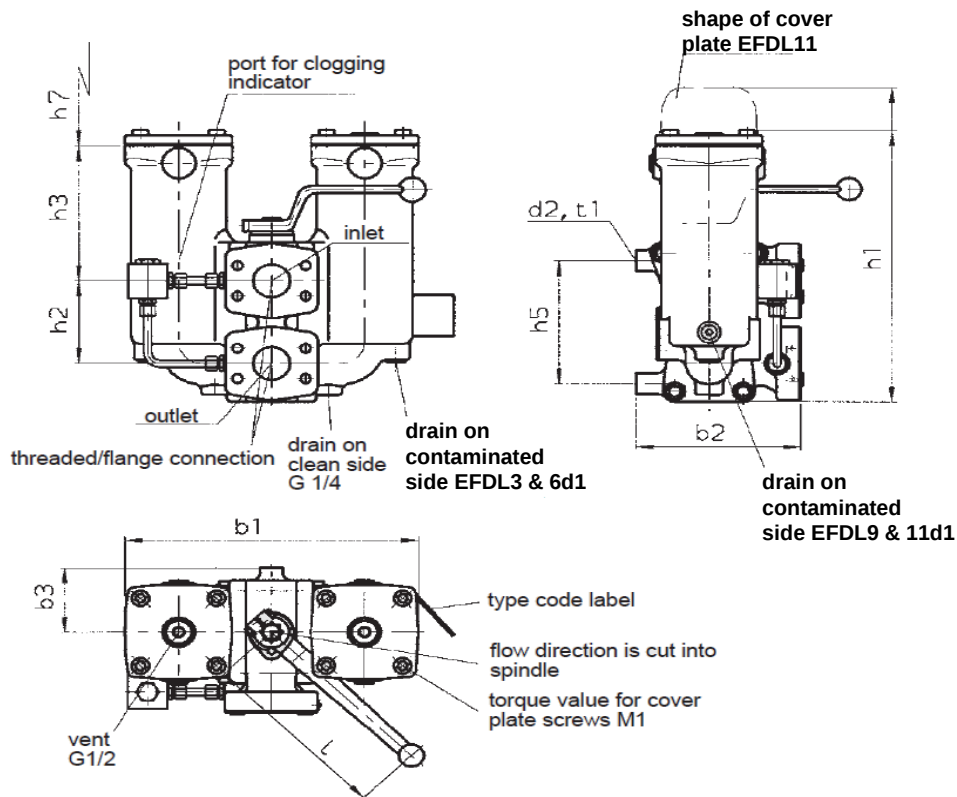
Pressure Drop with Clean Filter Elements (M and P filter media)



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

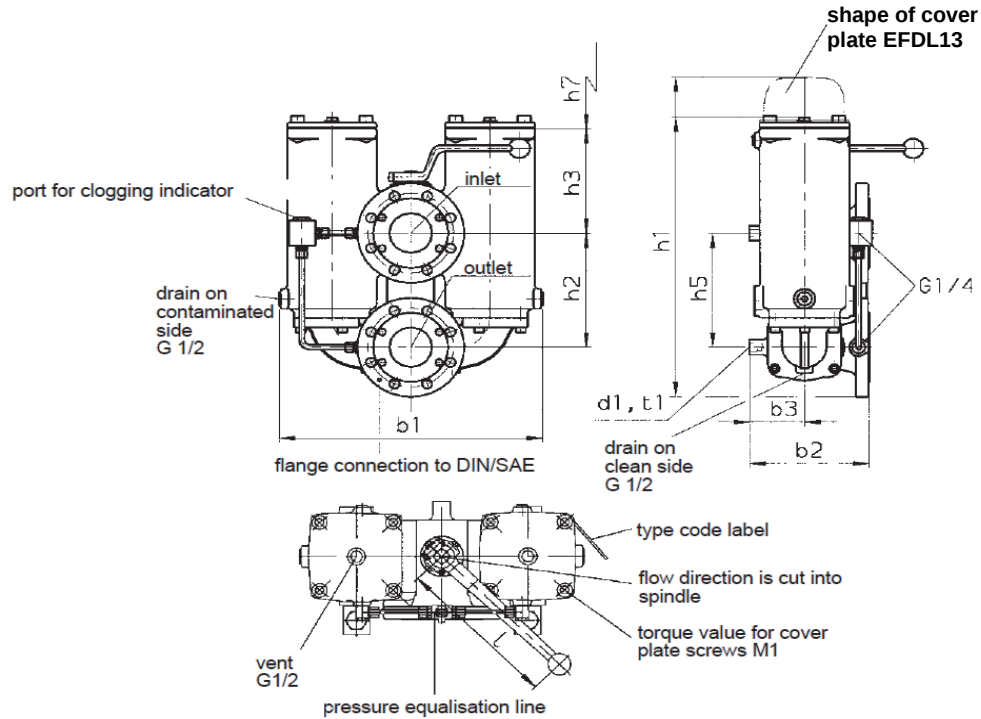
¹ Flanges according to SAE J518C, pressure range 3000 psi

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



EFDP Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 315 bar
- 600 l/min max. flow rate
- installation in pressure 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 ½ ", ¾" ,1- ½ "

Flange Connections in SAE DN50 for 6000psi max. 600 l/min

Flow Rate:

Operating Pressure:

max. 315bar

Burst Pressure:

min. 950 bar

Element Collapse Pressure:

21 bar or 210 bar Fibreglass
30 bar Wire Mesh

Clogging indicator setting:

$\Delta p=8 \text{ bar} \pm 10\%$

Material

Seals:

NBR or FPM (-10°C to 100°C)

Filter Head:

Steel

Filter Bowl:

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:

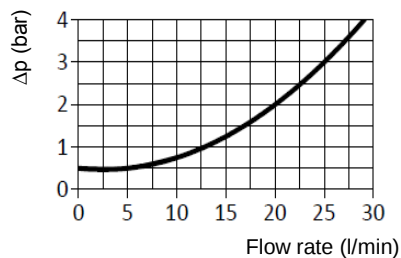
ISO2941 Collapse/burst resistance
ISO2942 Fabrication integrity
ISO2943 Material compatibility integrity
ISO3723 Method for end load test
ISO3724 Flow fatigue characteristics
ISO3968 Pressure Drop vs. Flow Rate
ISO16889 Multi-Pass Test

EFDP Pressure Filter Series

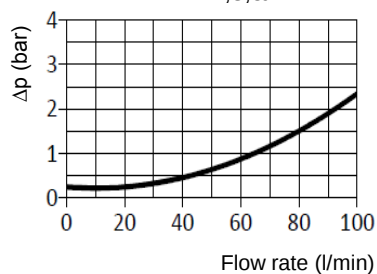
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

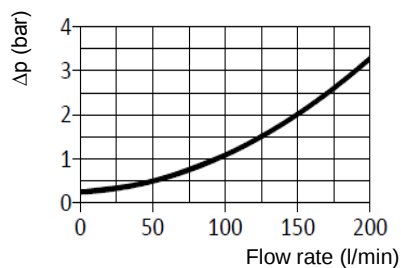
EFDP1



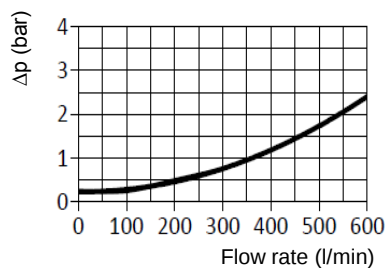
EFDP2,3,&4



EFDP5,6,&8



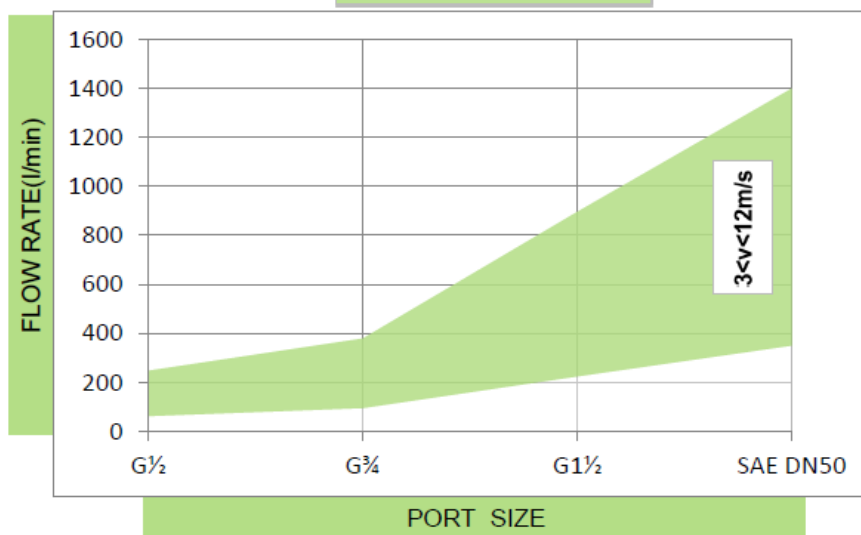
EFDP9,11,12,15&17



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 return series)

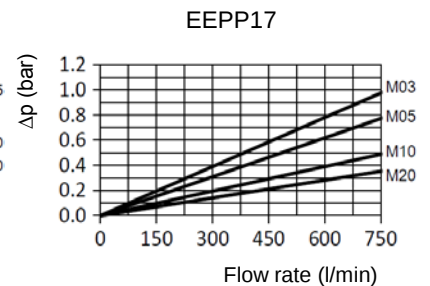
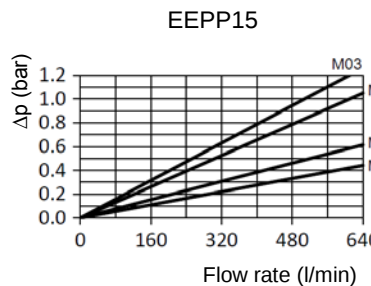
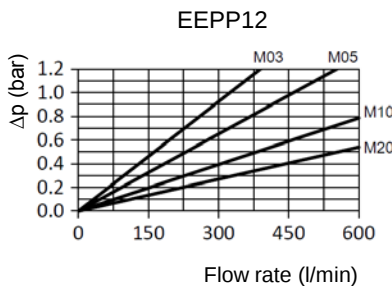
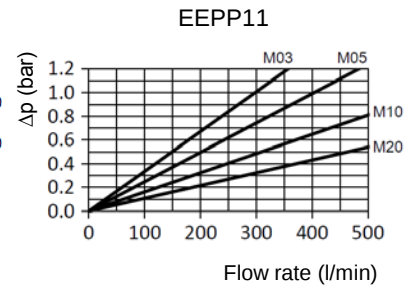
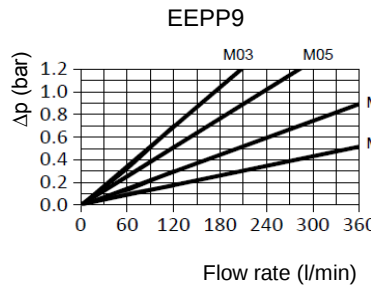
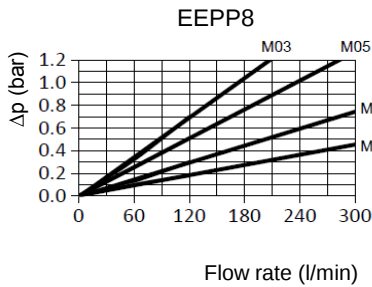
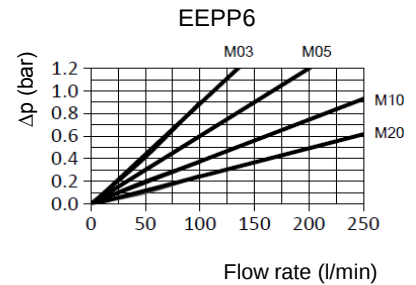
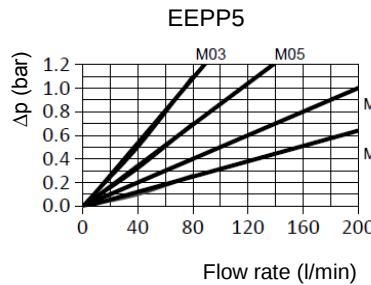
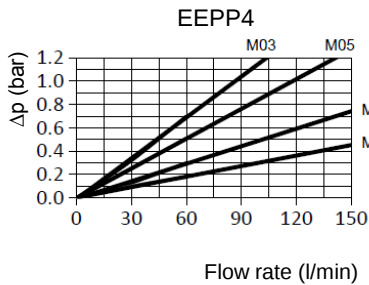
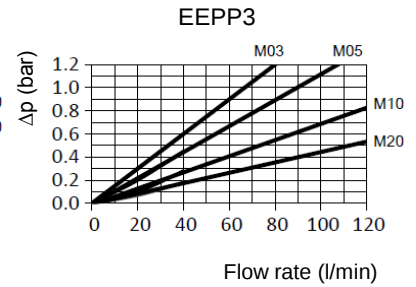
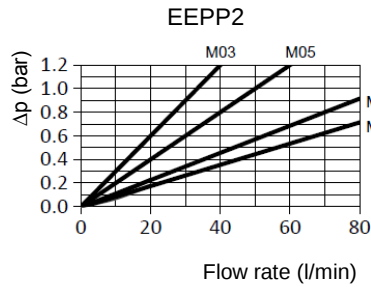
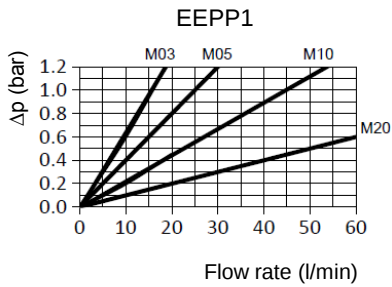
Recommended range



EFDP Pressure Filter Series

Pressure Drop Graphs (Δp)

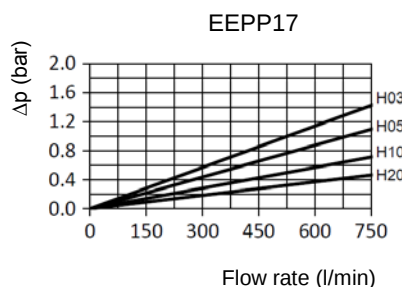
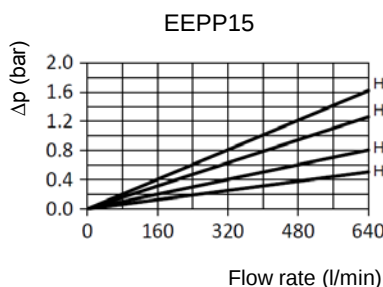
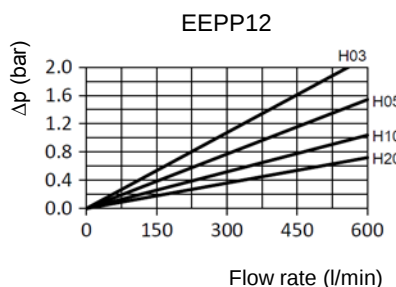
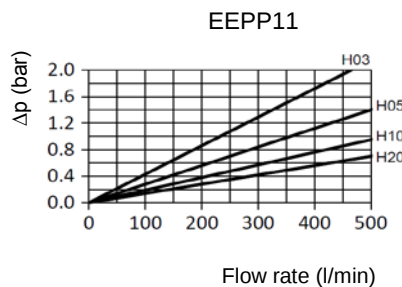
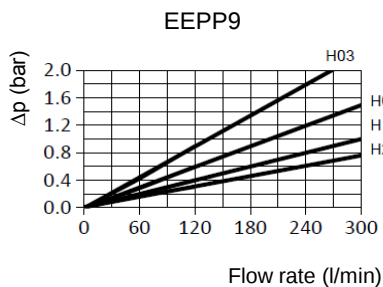
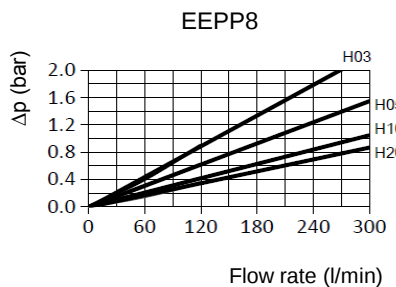
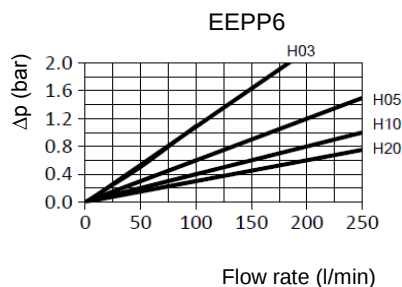
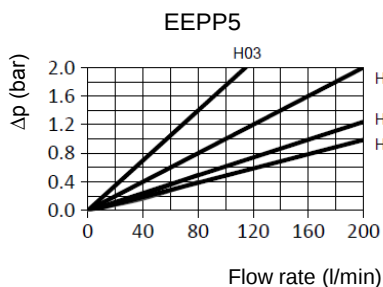
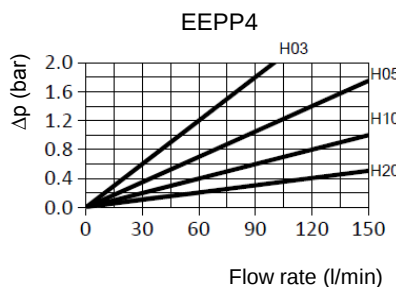
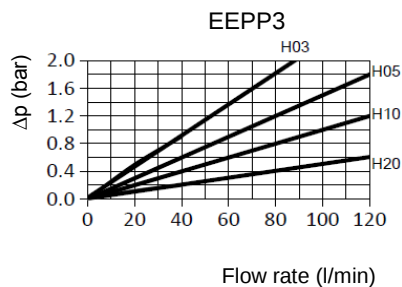
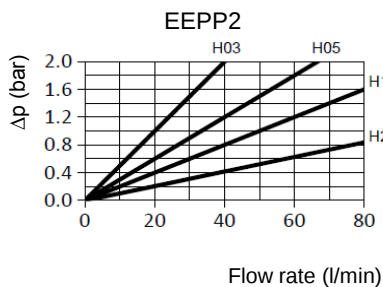
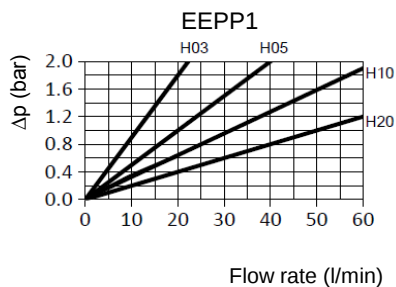
Pressure Drop with Clean Filter Elements (M filter media)



EFDP Pressure Filter Series

Pressure Drop Graphs (Δp)

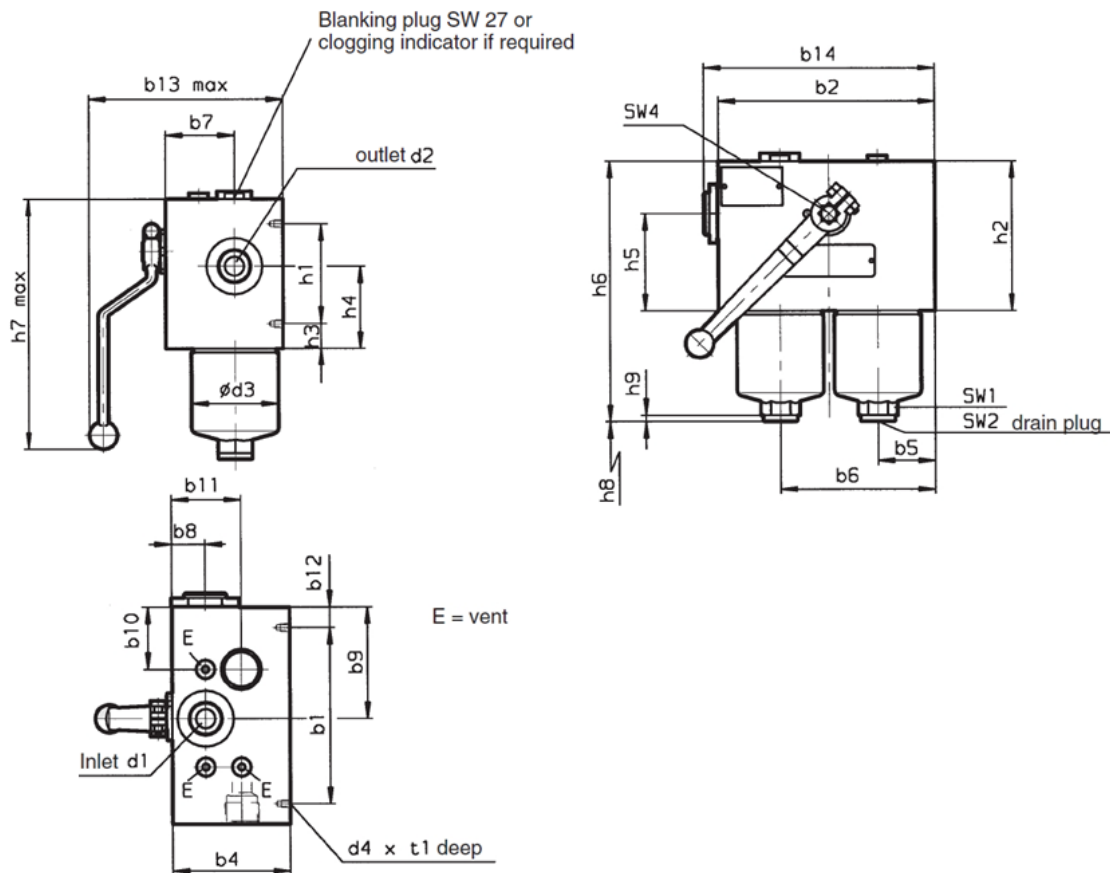
Pressure Drop with Clean Filter Elements (H filter media)



EFDP Pressure Filter Series

Technical Drawings and Dimension

EFDP1 to EFDP8



Threaded Connection Ports

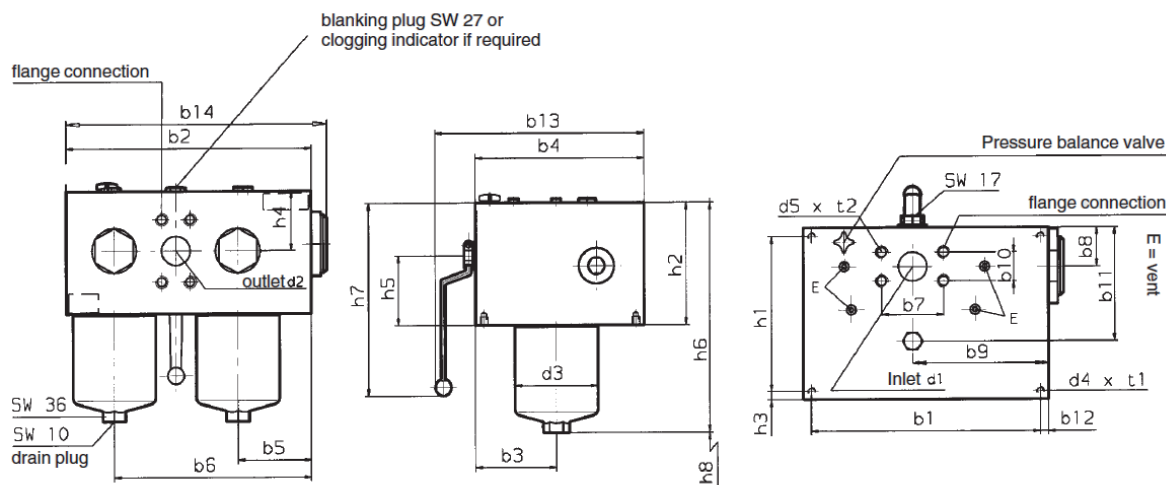
Type	b1	b2	b4	b5	b6	b7	b8	b9	b10	b11	b12	b13	b14	d1	d2	d3	d4
EFDP1	130	145	80	35	96	47	22.8	81	49	59	7.5	131	155	G 1/2"	G 1/2"	52.2	M6
EFDP2	138	170	92	45	121.5	54	26	87	48.5	54	16	150	181	G 3/4"	G 3/4"	68.2	M6
EFDP3	138	170	92	45	121.5	54	26	87	48.5	54	16	150	181	G 3/4"	G 3/4"	68.2	M6
EFDP4	138	170	92	45	121.5	54	26	87	48.5	54	16	150	181	G 3/4"	G 3/4"	68.2	M6
EFDP5	190	210	128	52.5	157.5	75.5	35.5	105	52.5	75.5	10	193	221	G 1 1/2"	G 1 1/2"	95.2	M10
EFDP6	190	210	128	52.5	157.5	75.5	35.5	105	52.5	75.5	10	193	221	G 1 1/2"	G 1 1/2"	95.2	M10
EFDP8	190	210	128	52.5	157.5	75.5	35.5	105	52.5	75.5	10	193	221	G 1 1/2"	G 1 1/2"	95.2	M10

Type	h1	h2	h3	h4	h5	h6	h7	h8	h9	t1	SW1	SW2	SW4
EFDP1	64	80	8	47	43	171	180	75	5	7	24	6	9
EFDP2	78	117	19.5	64.5	76	204.5	205	75	5	7	27	10	12
EFDP3	78	117	19.5	64.5	76	272	205	75	5	7	27	10	12
EFDP4	78	117	19.5	64.5	76	315.5	205	75	5	7	27	10	12
EFDP5	96	162	33	106	100	282.5	245	85	5	11	32	10	14
EFDP6	96	162	33	106	100	342.5	245	85	5	11	32	10	14
EFDP8	96	162	33	106	100	524.5	245	85	5	11	32	10	14

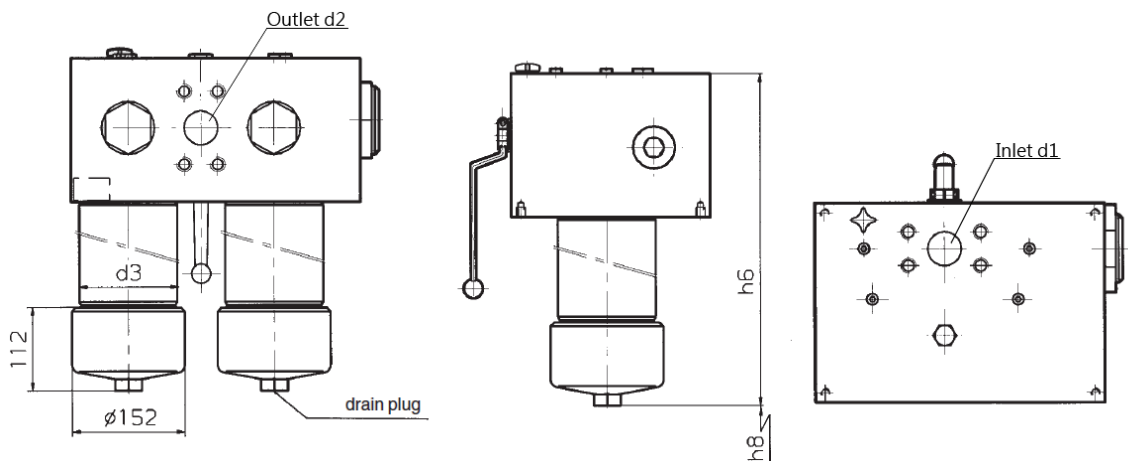
EFDP Pressure Filter Series

Technical Drawings and Dimension

EFDP9 to EFDP12



EFDP15 to EFDP17



Flange Connection

Type	b1	b2	b3	b4	b5	b6	b7	b8	b9	b10	b11	b12	b13
EFDP9	359	385	127	265	115	309	96.8	60.5	212	44.5	175.7	13	405
EFDP11	359	385	127	265	115	309	96.8	60.5	212	44.5	175.7	13	405
EFDP12	359	385	127	265	115	309	96.8	60.5	212	44.5	175.7	13	405
EFDP15	359	385	127	265	115	309	96.8	60.5	212	44.5	175.7	13	405
EFDP17	359	385	127	265	115	309	96.8	60.5	212	44.5	175.7	13	405

Type	d1*	d2*	d3	d4	d5	h1	h2	h3	h4	h5	h6	h7	t1	t2
EFDP9	DN50 (2")	DN50 (2")	130.2	M12	M20	239	190	13	92	108	357.5	95	13	27
EFDP11	DN50 (2")	DN50 (2")	130.2	M12	M20	239	190	13	92	108	450.5	95	13	27
EFDP12	DN50 (2")	DN50 (2")	130.2	M12	M20	239	190	13	92	108	527	95	13	27
EFDP15	DN50 (2")	DN50 (2")	130	M12	M20	239	190	13	92	108	677.5	500	13	27
EFDP17	DN50 (2")	DN50 (2")	130	M12	M20	239	190	13	92	108	843.5	670	13	27

*Flange according to SAE J518C (pressure range 6000psi)

EFDP Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	-	E	Element Series	A	C	D
EFDP	1	BB	B	-	M03	-	8PB	EEPP	1	B	M03

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	20 l/min
2	40 l/min
3	70 l/min
4	100 l/min
5	120 l/min
6	180 l/min
8	200 l/min
9	250 l/min
11	350 l/min
12	400 l/min
15	500 l/min
17	600 l/min

B Connection Ports

BB	BSP ½"
BC	BSP ¾"
BF	BSP 1-½"
SF	SAE DN50 (6000psi)

C Seal

B	NBR
V	FPM

D Media Material Filtration Collapse Pressure

M03	Fibreglass	5µm	21 bar
M05	Fibreglass	7µm	21 bar
M10	Fibreglass	12µm	21 bar
M20	Fibreglass	21µm	21 bar
H03	Fibreglass	5µm	210bar
H05	Fibreglass	7µm	210bar
H10	Fibreglass	12µm	210bar
H20	Fibreglass	21µm	210bar
Y25	Wire Mesh	25µm	30 bar
Y60	Wire Mesh	60µm	30 bar
Y90	Wire Mesh	90µm	30 bar
Y125	Wire Mesh	125µm	30 bar

F Indicator

Connection

00	No	
8PV	8bar Visual	BSP½" Thread
8PE	8bar Electrical	BSP½" Thread
8PB	8bar Visual/Electrical	BSP½" Thread

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.



EFDR Series

EVOTEK Pressure Filters

Product Description

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

Technical Specifications

Application

Duplex tank-top / in-line return filter

Port Sizes:

Threaded Connections according to BSP standard in ¾" ,1 " ,2 "

Flange Connections in SAE DN50 ,SAE DN80, SAD DN100 for 3000psi

Flow Rate:

max. 1300 l/min

Operating Pressure:

max. 25bar

Burst Pressure:

min. 83bar

Element Collapse Pressure:

10bar Cellulose

21 bar Fibreglass

30 bar Wire Mesh

Clogging indicator setting:

$\Delta p = 3 \text{ bar} \pm 0.5 \text{ bar}$

Material

Seals:

NBR or FPM (-10°C to 100°C)

Filter Housing and cover plate:

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

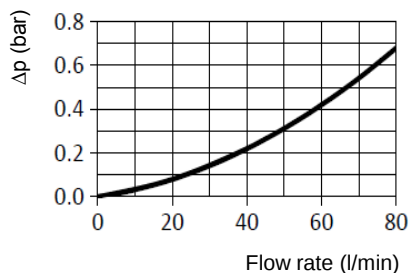
ISO16889 Multi-Pass Test

EFDR Pressure Filter Series

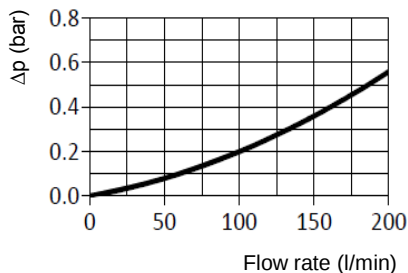
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

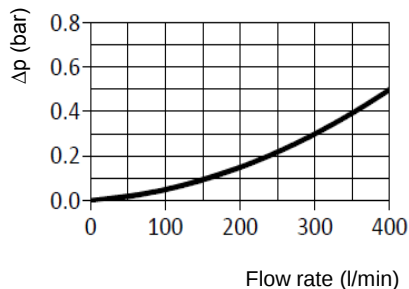
EFDR2&3



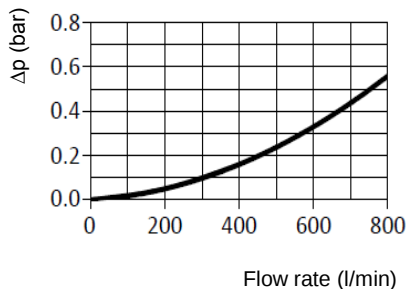
EFDR5&6



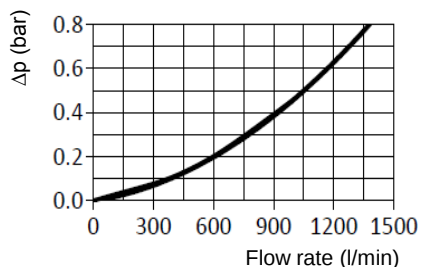
EFDR9



EFDR12&14



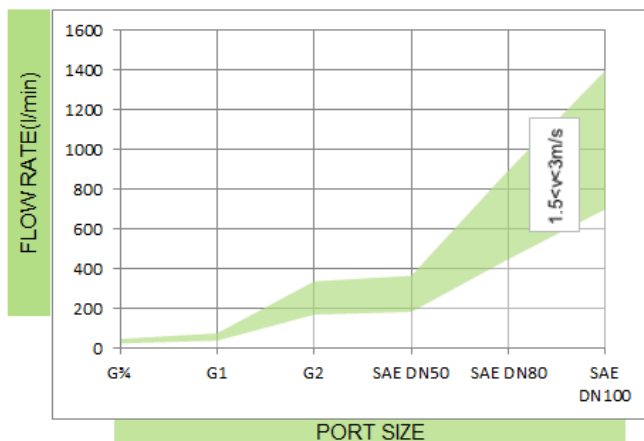
EFDR16



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)

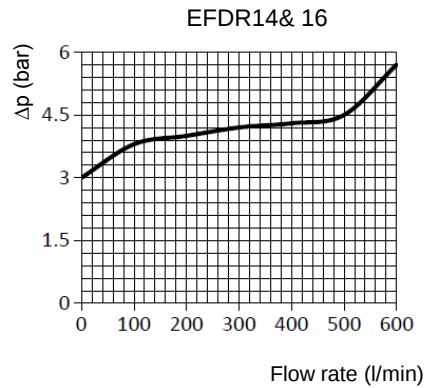
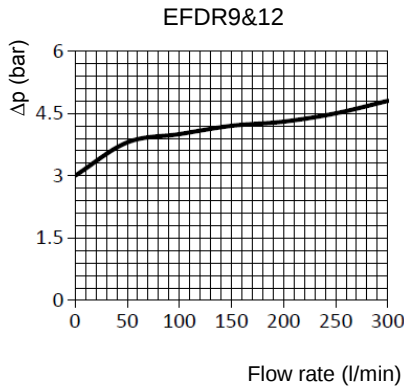
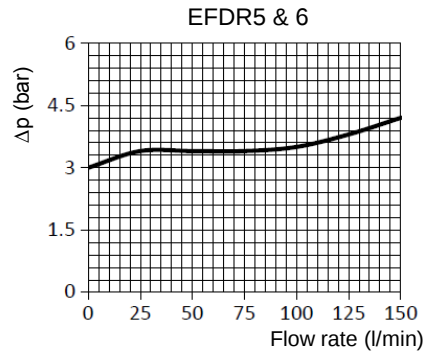
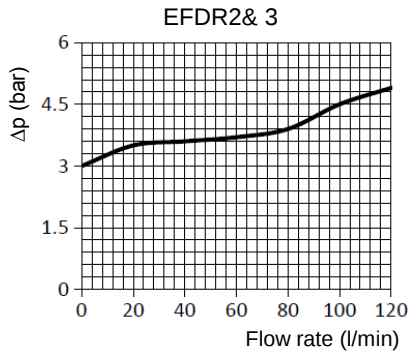
Recommended range



EFDR Pressure Filter Series

Pressure Drop Graphs (Δp)

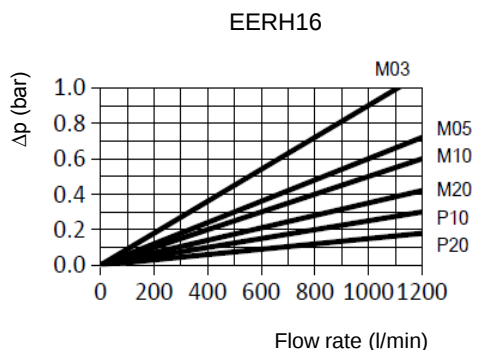
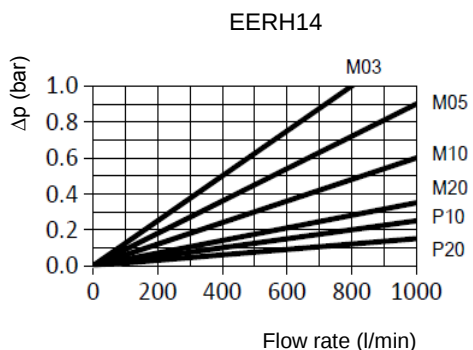
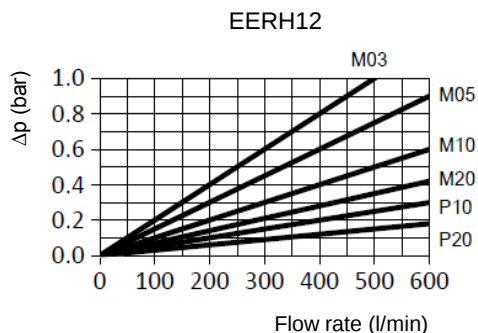
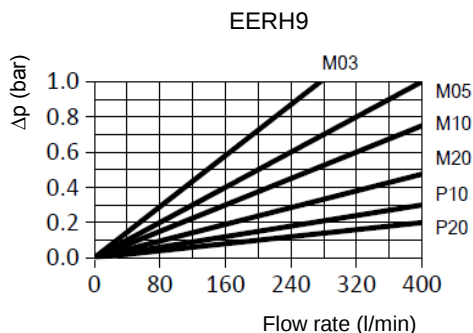
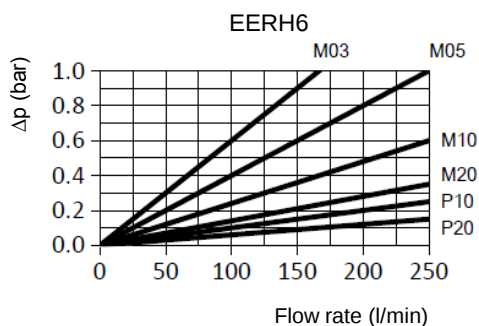
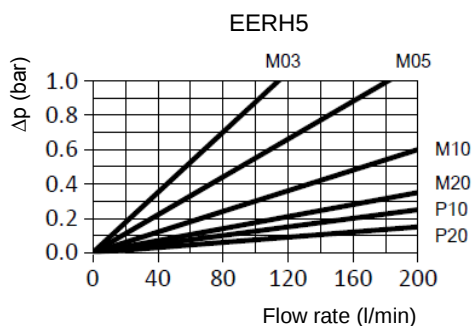
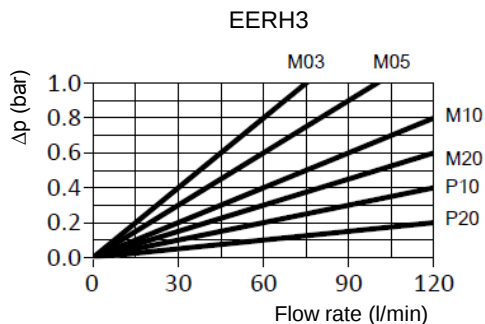
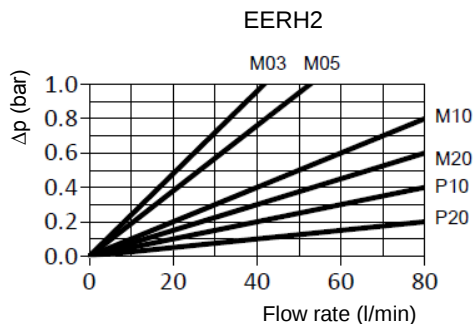
Pressure drop graph on by-pass valve



EFDR Pressure Filter Series

Pressure Drop Graphs (Δp)

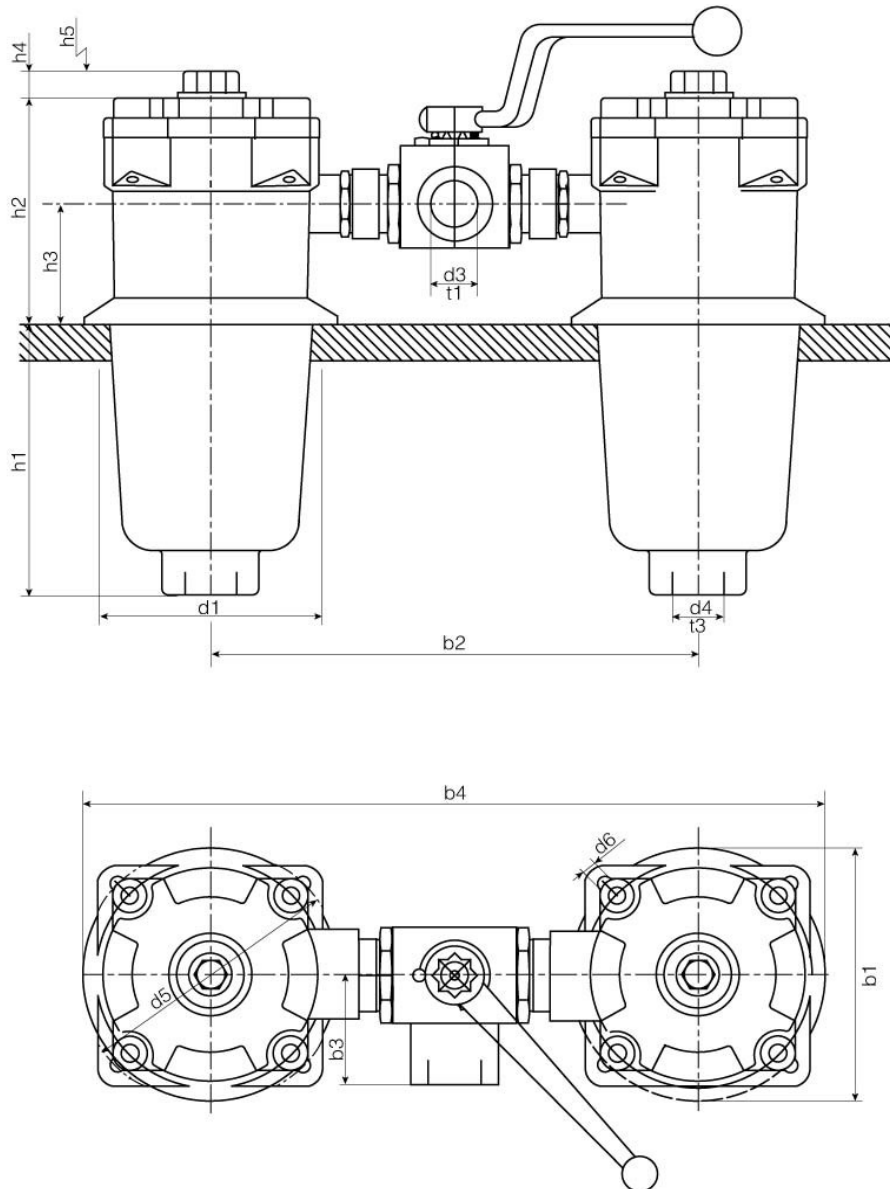
Pressure Drop with Clean Filter Elements (M and P filter media)



EFDR Pressure Filter Series

Technical Drawings and Dimension

EFDR2 to EFDR6



Threaded Connection Ports

Connection Port (BSP)

inch

H/mm

Type	b1	b2 ¹	b3	b4	d1	d3	d4	d5	d6 ²	h1	h2	h3	h4	h5	t1	t3
EFDR2	96	260.5	47	357	80	G ¾"	G ¾"	100	M5	66	88	44	11	80	16	17
EFDR3	96	260.5	47	357	80	G ¾"	G ¾"	100	M5	133	88	44	11	145	16	17
EFDR5	126	335.5	56	461	106	G 1"	G 1¼"	135	M6	89	108	54	11	120	24	20
EFDR6	126	335.5	56	461	106	G 1"	G 1¼"	135	M6	150	108	54	11	180	24	20

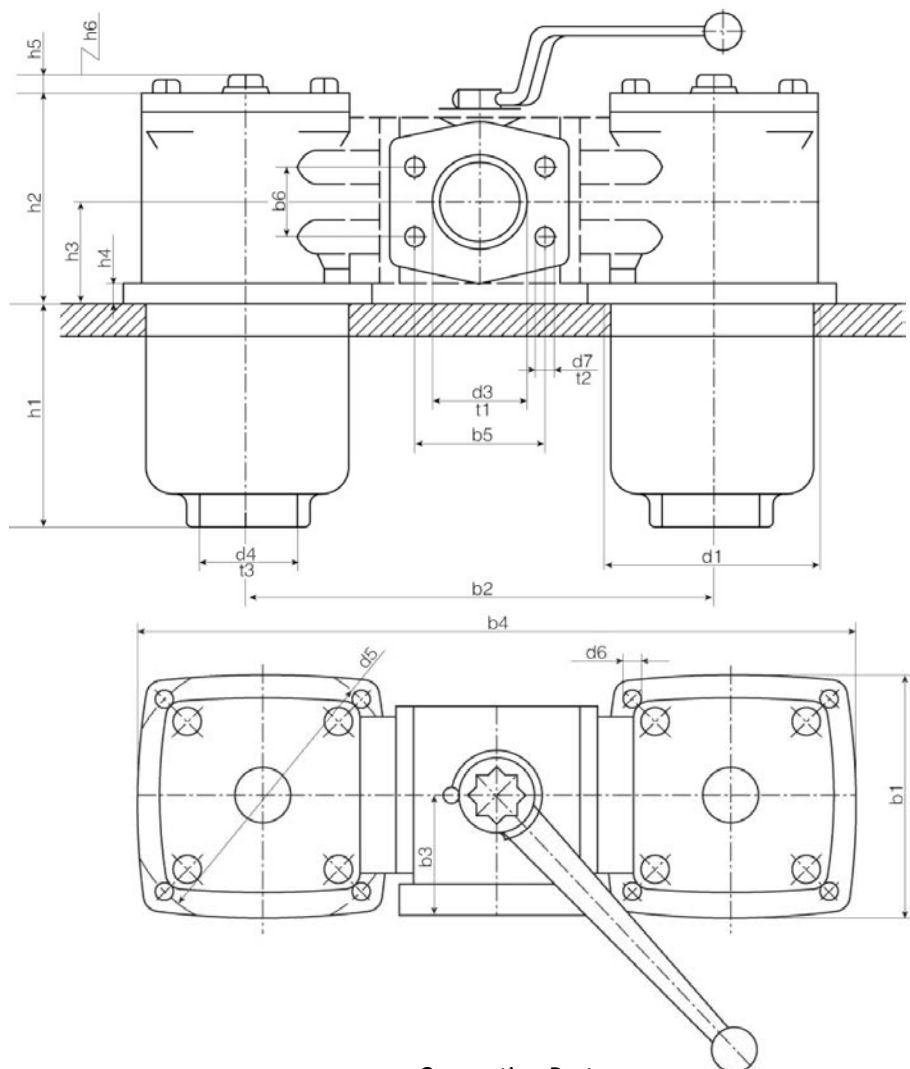
¹ ± 1.5

² Screw mounting hole

EFDR Pressure Filter Series

Technical Drawings and Dimension

EFDR9 to EFDR16



Connection Port
(BSP/FLANGE)

Type	b1	b2 ¹	b3	b4	b5	b6	d1	d3	d4	d5	d6 ²	d7
EFDR9	150	254	69	404	77.8	42.9	135	G 2"	G 2"	170	M8	-
EFDR12	195	330	100	525	106.5	61.9	180	SAE DN80 (3")	G 3"	220	M12	M16
EFDR14	250	390	140	640	130.2	77.8	208	SAE DN100 (4")	SAE DN90 (3½")	290	M16	M16
EFDR16	250	410	140	660	130.2	77.8	208	SAE DN100 (4")	SAE DN100 (4")	290	M16	M16

Type	h1	h2	h3	h4	h5	h6	t1	t2	t3	
EFDR9	138	131	63	13	11	180	24	-	27	¹ ± 1.5
EFDR12	243	167	83	13	11	320	-	20	32	² Screw mounting hole
EFDR14	251	198	93	13	11	350	-	25	-	Filter connection for SAE flange to SAE J518C 3000 psi
EFDR16	332	241	121	13	11	460	-	25	-	

EFDR Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F	Element Series	A	C	D	E
EFDR	2	BC	B	-	08	P10	-	2RE	EERH	2	B	08	P10

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			
2	60 l/min	00		NO	
3	110 l/min	08		3bar	
5	160 l/min	X		Special	
6	240 l/min				
9	330 l/min	E Media Material		Filtration	Collapse Pressure
12	660 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
		M20	Fibreglass	21µm	21 bar
		Y25	Wire Mesh	25µm	30 bar
		Y60	Wire Mesh	60µm	30 bar
		Y90	Wire Mesh	90µm	30bar
		Y125	Wire Mesh	125µm	30 bar
		F Indicator			Connection
C Seal		00			None
B	NBR	2RE	2bar Electrical		BSP½" Thread
V	FPM				

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.