EFDB Series

EVOTEK Pressure Filters

Product Description

- Operating pressure up to 16 bar
- 15000 l/min max. flow rate
- installation in line
- application in Lube oil systems, Power generation plants, Primary metal equipment, Pulp & paper equipment, Offshore drilling and oil patch and Flushing skids
- compliant with industry relevant ISO standards(see ISO test below)

Technical Specifications

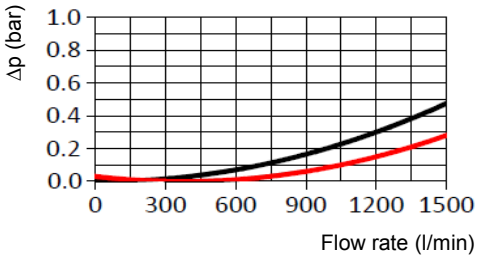
Application：	In-line duplex filter
Port Sizes:	Flange Connections in SAE DN40 & SAE DN50 & SAE DN65 3000 psi DIN DN 80 & DIN DN 100 & DIN DN 125 DIN DN150 &DIN DN200 (DIN2501)
Flow Rate:	max. 15000 l/min
Operating Pressure:	max. 16 bar
Burst Pressure:	min. 48 bar
Element Collapse Pressure:	10 bar Cellulose 21 bar Fiberglass 30 bar Wire Mesh
By-pass Opening Pressure:	Δp =3bar ± 0.5bar
Clogging indicator setting:	Δp= 2bar ± 10%
Material	
Seals:	NBR or FPM (-25°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

EFDB Pressure Filter Series

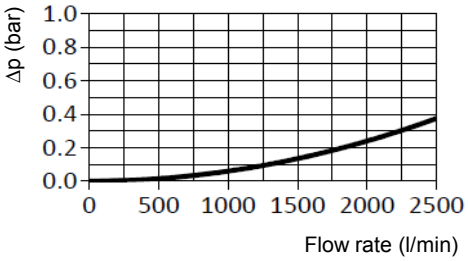
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

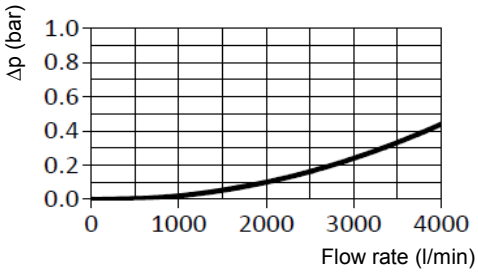
EFDB16 & EFDB17



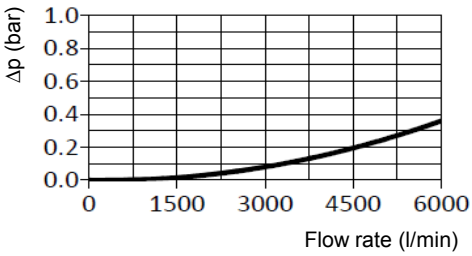
EFDB18 & 19



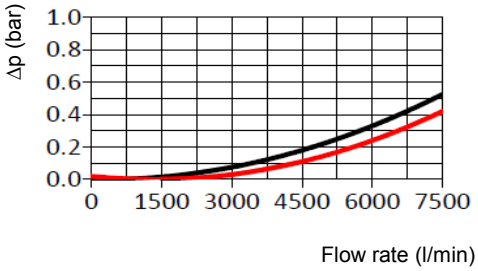
EFDB20 & 21



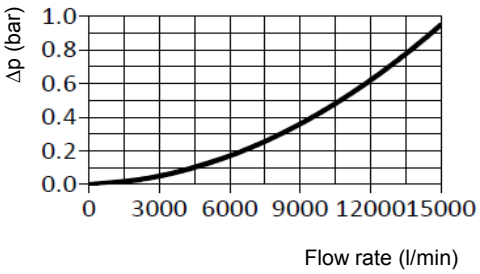
EFDB22 & 23



EFDB24/25 & EFDB26/27



EFDB28 & 29

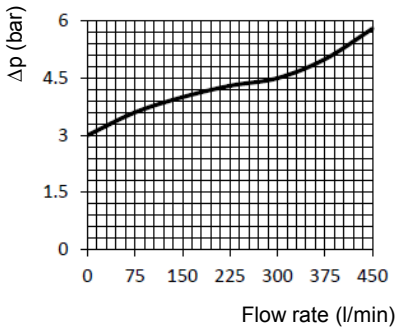


EFDB Pressure Filter Series

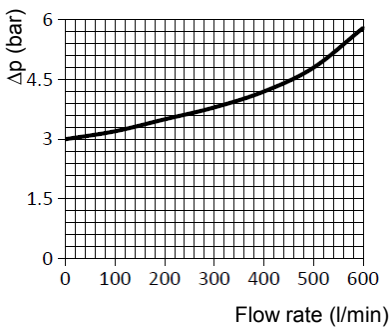
Graph of oil flow velocity
(we recommend to select size of the filter considering range of oil velocity between 1.5 to 3 m/s for return series)

Pressure drop graph on by-pass valve

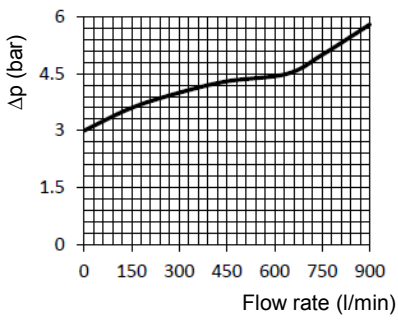
EFDB18& 20



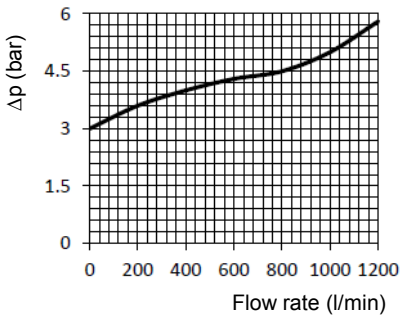
EFDB16,22,24&EFDB26,28



EFDB19& 21



EFDB17,23,25& 27,29

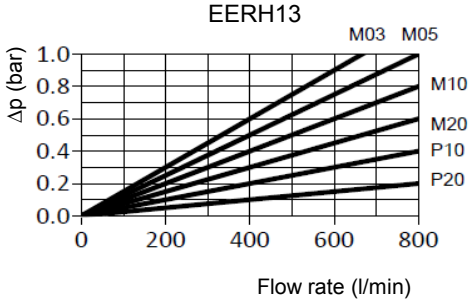


EFDB Pressure Filter Series

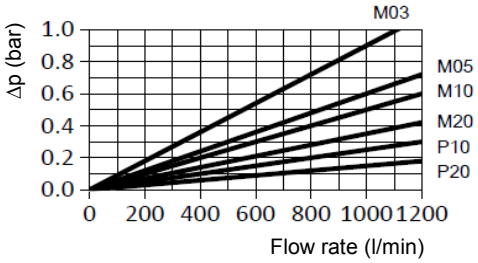
Pressure Drop Graphs (Δp)

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

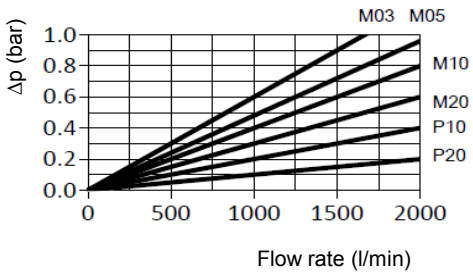
EERH13



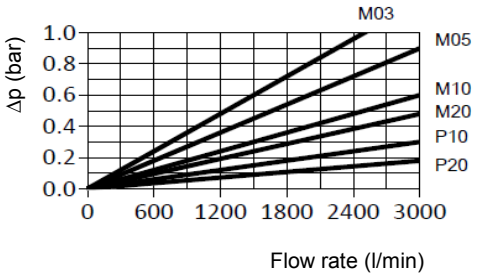
EERH16



EERH17



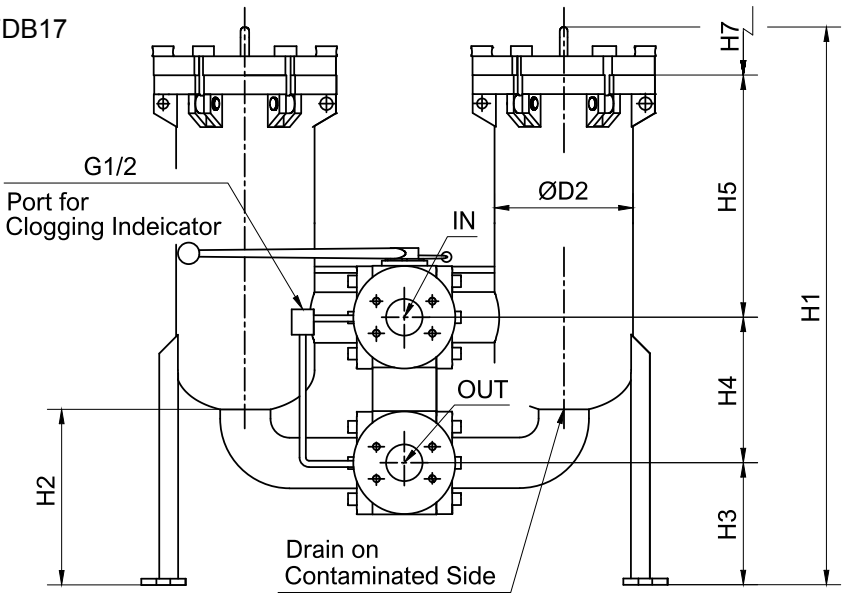
EERH18

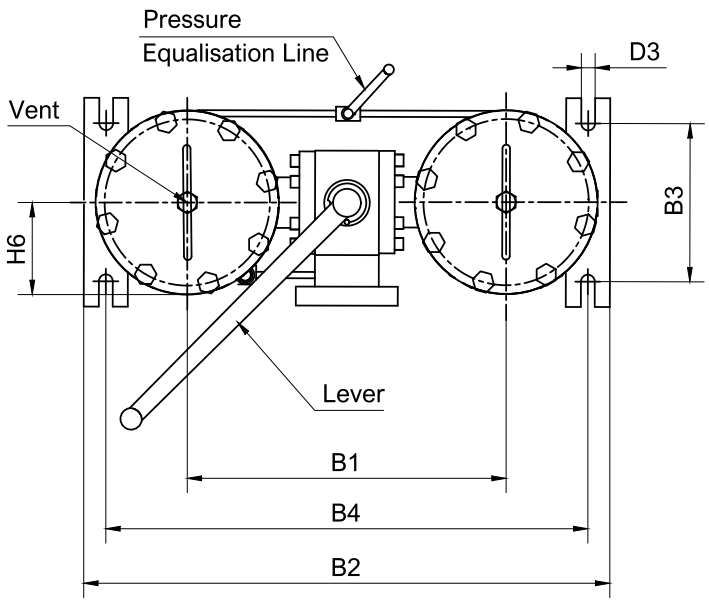


EFDB Pressure Filter Series

Technical Drawings and Dimension

EFDB16 to EFDB17





Connection Port
(Flange)

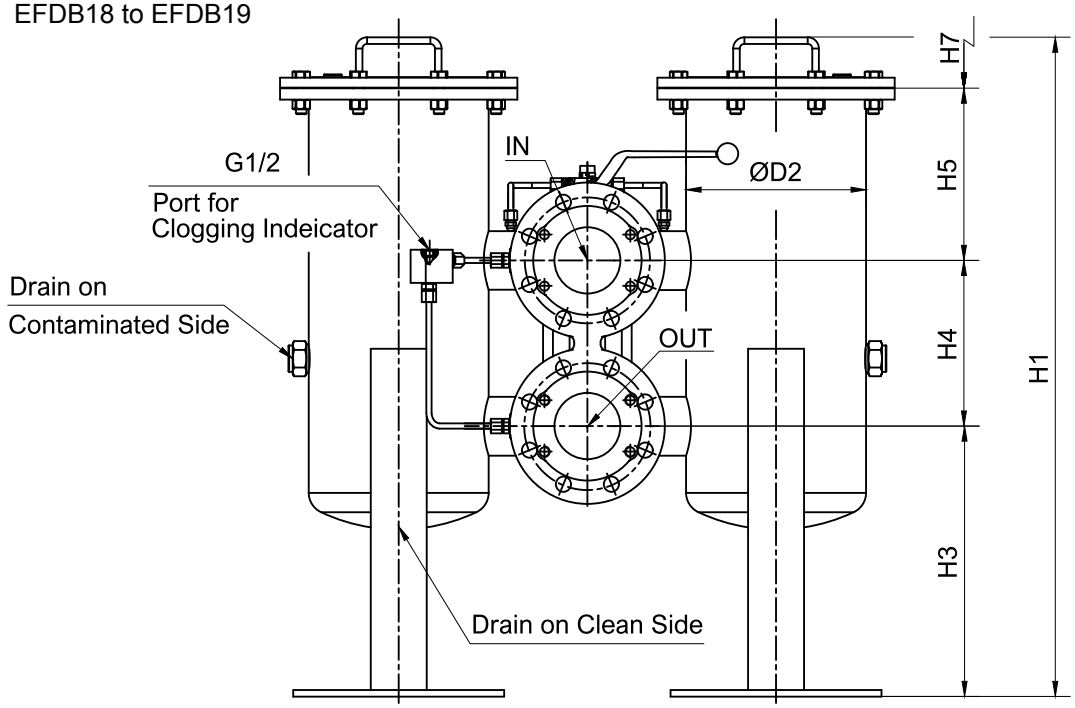
Type	Flange[1]	B1	B2	B3	B4	D2	D3	H1	H2	H3	H4	H5	H6	H7
EFDB16 & **EFDB17**	SAE DN 40	495	835	250	755	220	22	970/**1410**	205	335	95	460/**900**	92	500/**940**
	SAE DN 50	506	846	250	766	220	22	970/**1410**	210	328	110	452/**892**	102	500/**940**
	SAE DN 65	506	846	250	766	220	22	970/**1410**	210	328	110	452/**892**	167	500/**940**
	DIN DN 80	530	870	250	790	220	22	970/**1410**	370	260	230	400/**840**	120	500/**940**
	DIN DN 100	588	926	250	846	220	22	970/**1410**	375	266	250	374/**814**	130	500/**940**
EFDB17	DIN DN 125	603	943	250	863	220	22	1536	190	385	300	765	188	940

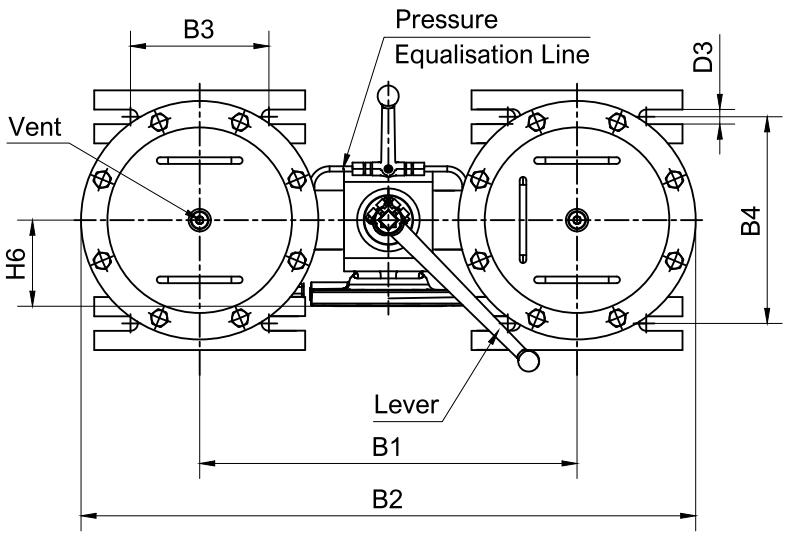
1) Flange connection to SAE J518 C(standard pressure range 3000 psi)DIN flange connection to DIN 2501/1 for PN 16 from DN 125 and PN 25/40 up to DN 100(sealing strip "D" or "E")

EFDB Pressure Filter Series

Technical Drawings and Dimension

EFDB18 to EFDB19





Connection Port
(Flange)

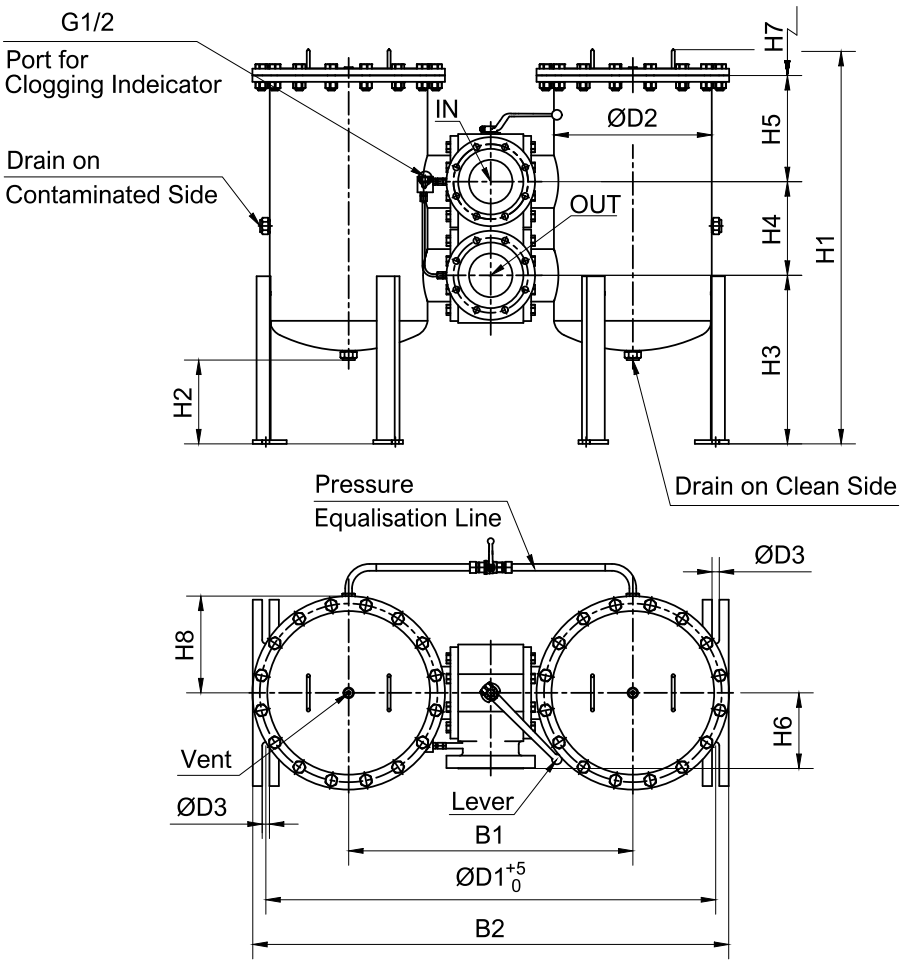
Type	D1 Flange[1]	B1	B2	B3	B4	D2	D3	H1	H2	H3	H4	H5	H6	H7
EFDB18 & **EFDB19**	SAE DN 50	548	908	250	312	273	22	940/**1330**	220	383	110	378/**768**	102	420/**810**
	SAE DN 65	548	908	250	312	273	22	990/**1380**	220	383	230	280/**670**	167	420/**810**
	DIN DN 80	572	932	250	312	273	22	990/**1380**	220	408	230	280/**670**	120	420/**810**
	DIN DN 100	588	948	250	312	273	22	990/**1380**	220	408	250	260/**650**	130	420/**810**
	DIN DN 125	589	949	250	312	273	22	1050/**1440**	220	438	300	240/**630**	188	420/**810**
	DIN DN 150	641	1001	250	312	273	22	1050/**1440**	220	438	300	240/**630**	187	420/**810**

1) Flange connection to SAE J518 C(standard pressure range 3000 psi)DIN flange connection to DIN 2501/1 for PN 16 from DN 125 and PN 25/40 up to DN 100(sealing strip "D" or "E")

EFDB Pressure Filter Series

Technical Drawings and Dimension

EFDB20 to EFDB27



Connection Port (Flange)

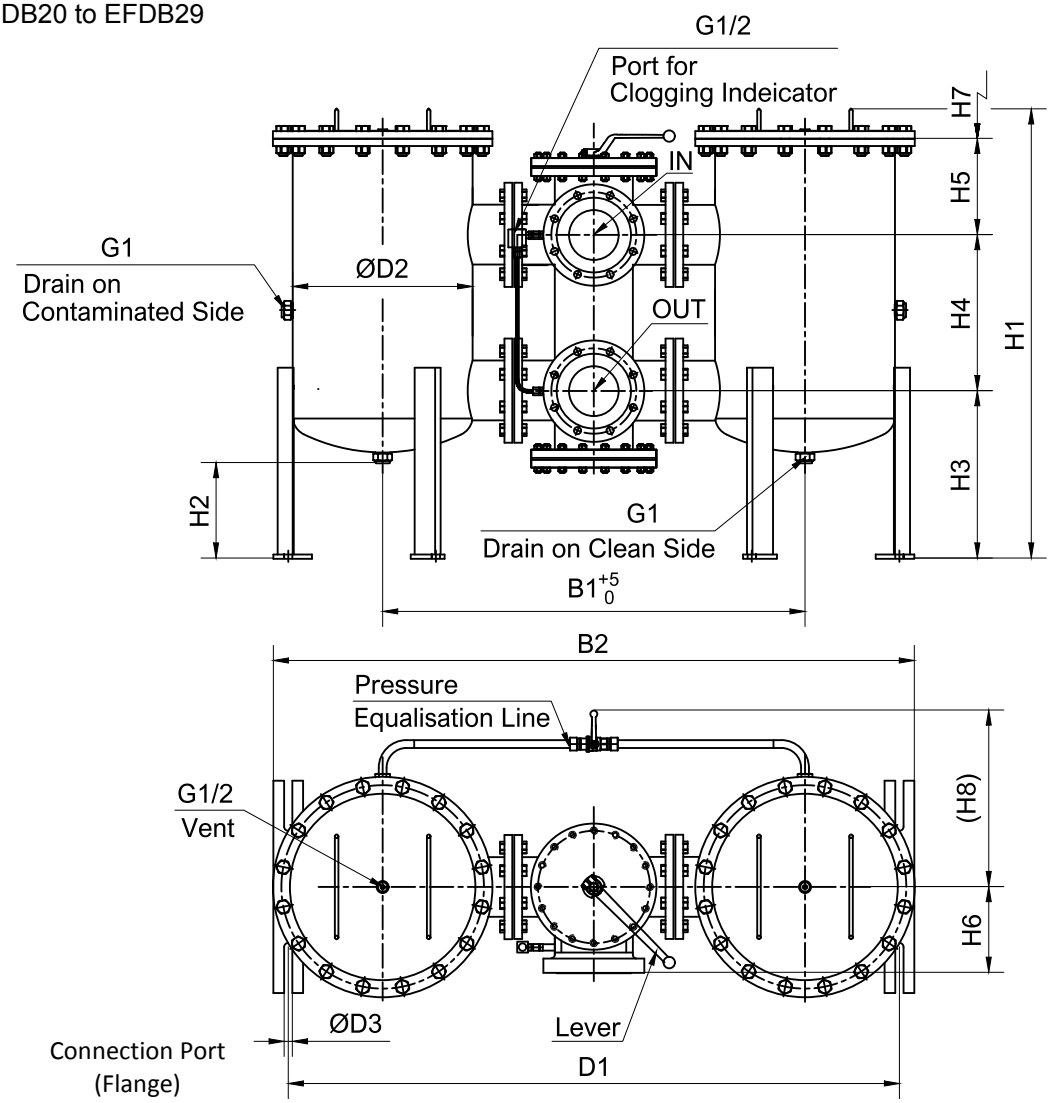
Type	D1 Flange[1]	B1	B2	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8
EFDB20 & **EFDB21**	DIN DN 80	688	1152	330	356	22	1080/**1470**	260	475	230	295/**685**	120	420/**810**	230
	DIN DN 100	704	1164	330	356	22	1080/**1470**	260	475	250	275/**665**	130	420/**810**	230
	DIN DN 125	723	1183	330	356	22	1170/**1560**	260	525	300	265/**655**	188	420/**810**	230
	DIN DN 150	775	1240	330	356	22	1170/**1560**	260	525	300	265/**655**	187	420/**810**	230
EFDB22 & **EFDB23**	DIN DN 80	728	1244	380	406	22	1144/**1584**	250	465	230	371/**811**	120	500/**940**	255
	DIN DN 100	744	1260	380	406	22	1144/**1584**	250	465	250	351/**791**	130	500/**940**	255
	DIN DN 125	763	1275	380	406	22	1256/**1696**	250	525	300	351/**791**	188	500/**940**	255
	DIN DN 150	815	1330	380	406	22	1256/**1696**	250	525	300	351/**791**	187	500/**940**	255
EFDB24 & **EFDB25**	DIN DN 100	1024	1644	480	508	22	1260/1700	260	540	250	390/830	130	500/940	310
	DIN DN 125	863	1483	480	508	22	1260/**1700**	260	540	300	340/**780**	188	500/**940**	310
	DIN DN 150	915	1535	480	508	22	1260/**1700**	260	540	300	340/**780**	187	500/**940**	310
EFDB26 & **EFDB27**	DIN DN 100	1024	1644	480	508	22	1260/**1700**	260	540	250	390/**830**	130	500/**940**	310
	DIN DN 125	863	1483	480	508	22	1260/**1700**	260	540	300	340/**780**	188	500/**940**	310
	DIN DN 150	915	1535	480	508	22	1260/**1700**	260	540	300	340/**780**	187	500/**940**	310

1) DIN fl ange connection to DIN 2501/1 for PN 16 from DN 125 and PN 25/40 up to DN 100(sealing strip "D" or "E")

EFDB Pressure Filter Series

Technical Drawings and Dimension

EFDB20 to EFDB29



Type	D1 Flange[1]	B1	B2	D1	D2	D3	H1	H2	H3	H4	H5	H6	H7	H8
EFDB20 & **EFDB21**	DIN DN 200	1124	1590	330	356	22	1250/**1595**	260	525	365	235/**625**	261	420/**810**	370
EFDB22 & **EFDB23**	DIN DN 200	1166	1680	380	406	22	1265/**1705**	250	525	365	286/**726**	261	500/**940**	370
EFDB24 & **EFDB25**	DIN DN 200	1266	1886	480	508	22	1380/**1820**	260	600	365	335/**775**	261	500/**940**	370
EFDB26 & **EFDB27**	DIN DN 200	1266	1886	480	508	22	1380/**1820**	260	600	365	335/**775**	261	500/**940**	370
EFDB28 & **EFDB29**	DIN DN 200	1506	2016	680	711	22	1425/**1865**	263	655	365	330/**770**	261	500/**940**	415

1) DIN fl ange connection to DIN 2501/1 for PN 16 (sealing strip "C")

EFDB Pressure Filter Series

Order Codes

Filter Assembly Series	A	B	C	-	D	E	-	F
EFDB	16	FE	B	-	08	M10	-	2PB

Element Series	A	C	D	E
EERH	16	B	08	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	Elements per side
16	1300 l/min	1xEERH16
17	1320 l/min	1xEERH18
18	2500 l/min	3xEERH13
19	2520 l/min	3xEERH17
20	4000 l/min	5xEERH13
21	4020 l/min	5xEERH17
22	5200 l/min	4xEERH16
23	5220 l/min	4xEERH18
24	6500 l/min	5xEERH16
25	6520 l/min	5xEERH18
26	7800 l/min	6xEERH16
27	7820 l/min	6xEERH18
28	15000 l/min	10xEERH16
29	15020 l/min	10xEERH18

B Connection Ports

FE	SAE DN40 3000psi
FF	SAE DN50 3000psi
FG	SAE DN65 3000psi
DH	SAE/DIN DN80 (DIN2501)
DI	SAE/DIN DN100 (DIN2501)
DJ	DIN DN125 (DIN2501)
DK	DIN DN150 (DIN2501)
DL	DIN DN200 (DIN2501)

C Seal

B	NBR
V	FPM

D By-pass Valve

0	NO
08	3bar
X	Special

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
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
0	No	
2PE	2bar Electrical	BSP½" Thread
2PB	2bar Visual/Electrical	BSP½" Thread

Notes