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

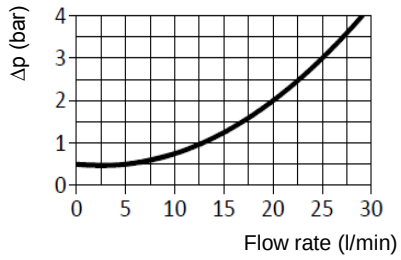
Application	In-line duplex filter
Port Sizes:	Threaded Connections according to BSP standard in ½ ”, ¾” ,1- ½ ”
	Flange Connections in SAE DN50 for 6000psi
Flow Rate:	max. 600 l/min
Operating Pressure:	max. 315bar
Burst Pressure:	min. 950 bar
Element Collapse Pressure:	21 bar or 210 bar Fibreglass
	30 bar Wire Mesh
Clogging indicator setting:	Δp=8 bar ± 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

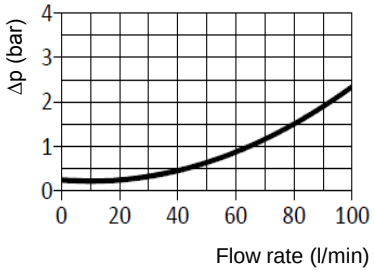
Pressure Drop Graphs (Δp)

Pressure Drop of Filter Housing only

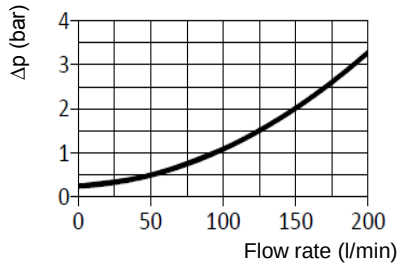
EFDP1



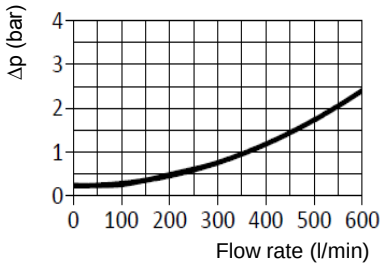
EFDP2,3,&4



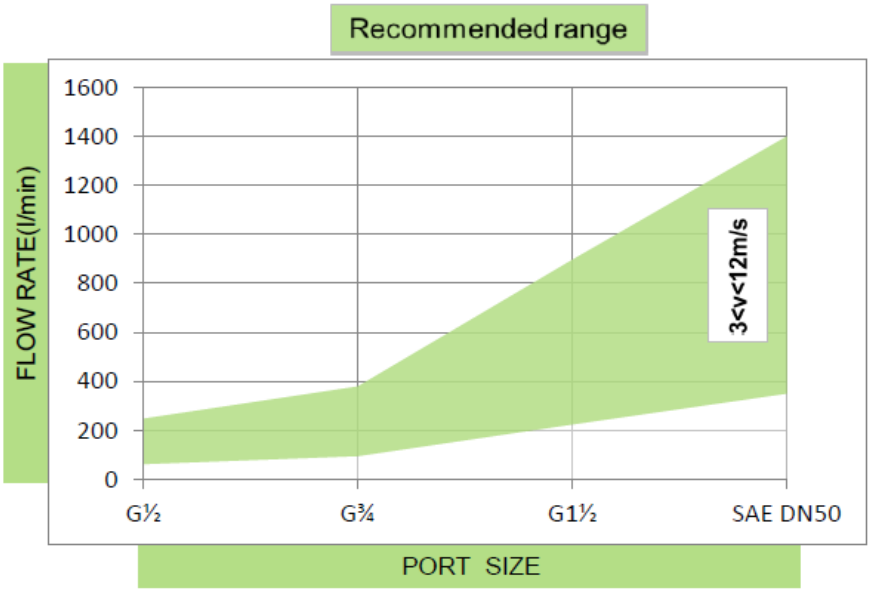
EFDP5,6,&8



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)

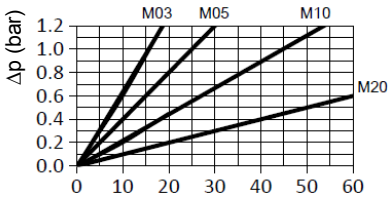


EFDP Pressure Filter Series

Pressure Drop Graphs (Δp)

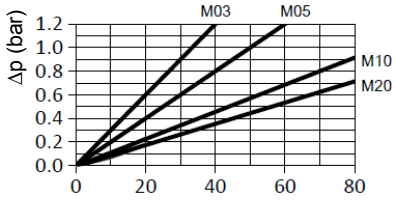
Pressure Drop with Clean Filter Elements (M filter media)

EEPP1



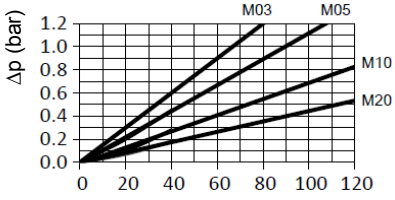
Flow rate (l/min)

EEPP2



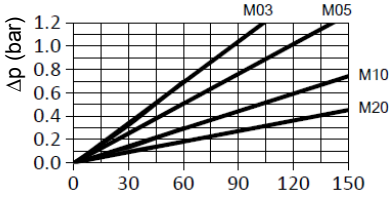
Flow rate (l/min)

EEPP3



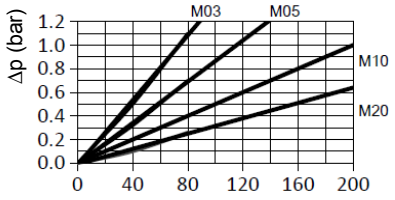
Flow rate (l/min)

EEPP4



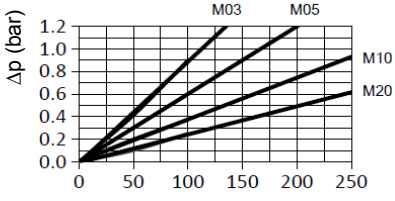
Flow rate (l/min)

EEPP5



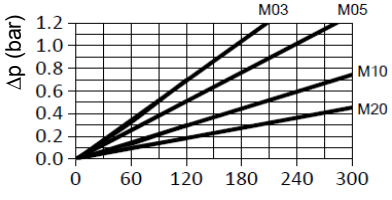
Flow rate (l/min)

EEPP6



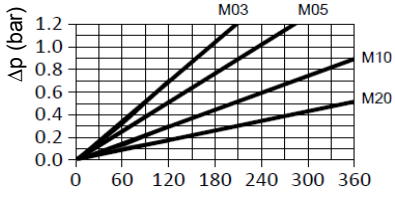
Flow rate (l/min)

EEPP8



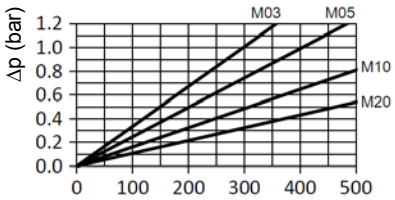
Flow rate (l/min)

EEPP9



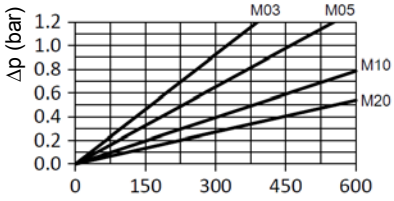
Flow rate (l/min)

EEPP11



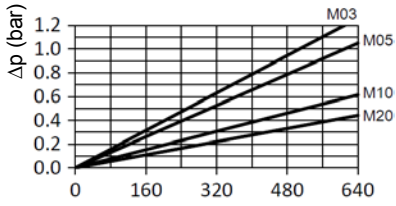
Flow rate (l/min)

EEPP12



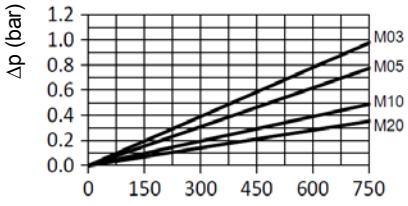
Flow rate (l/min)

EEPP15



Flow rate (l/min)

EEPP17



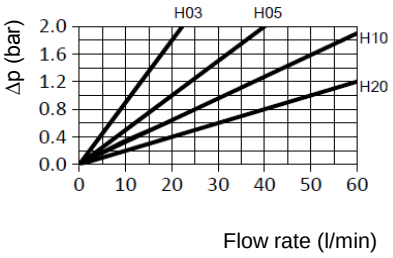
Flow rate (l/min)

EFDP Pressure Filter Series

Pressure Drop Graphs (Δp)

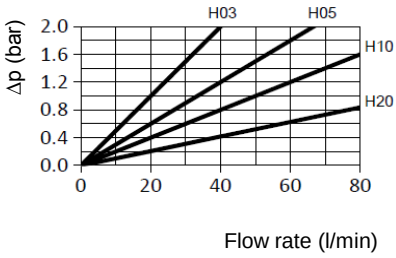
Pressure Drop with Clean Filter Elements (H filter media)

EEPP1



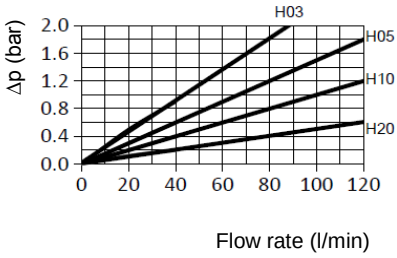
Flow rate (l/min)

EEPP2



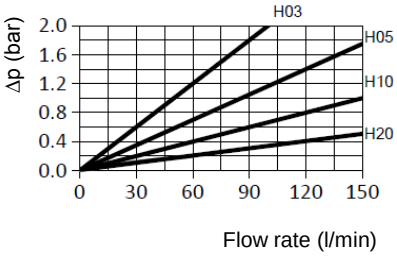
Flow rate (l/min)

EEPP3



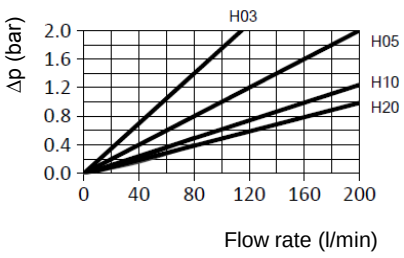
Flow rate (l/min)

EEPP4



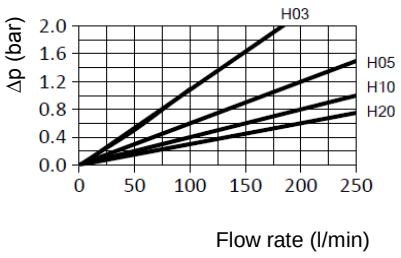
Flow rate (l/min)

EEPP5



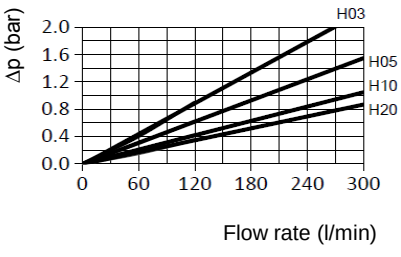
Flow rate (l/min)

EEPP6



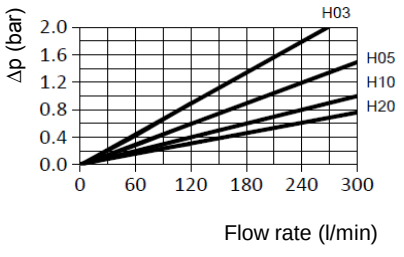
Flow rate (l/min)

EEPP8



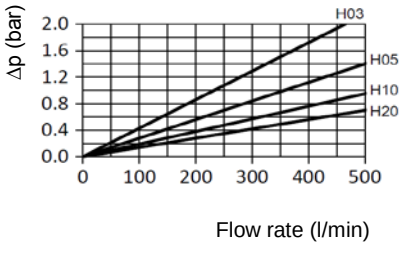
Flow rate (l/min)

EEPP9



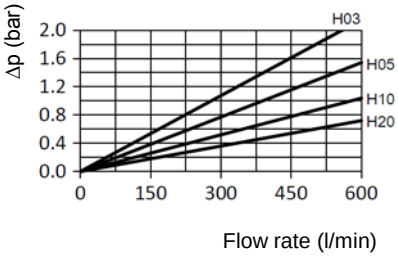
Flow rate (l/min)

EEPP11



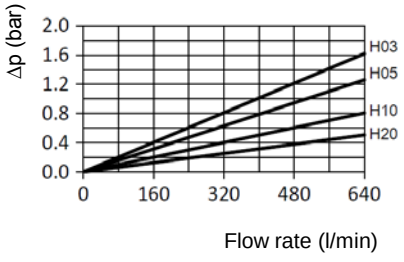
Flow rate (l/min)

EEPP12



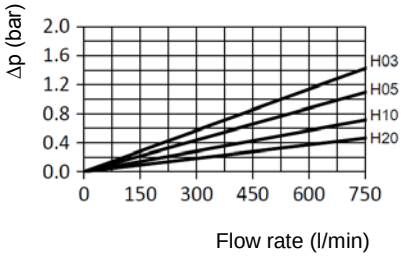
Flow rate (l/min)

EEPP15



Flow rate (l/min)

EEPP17

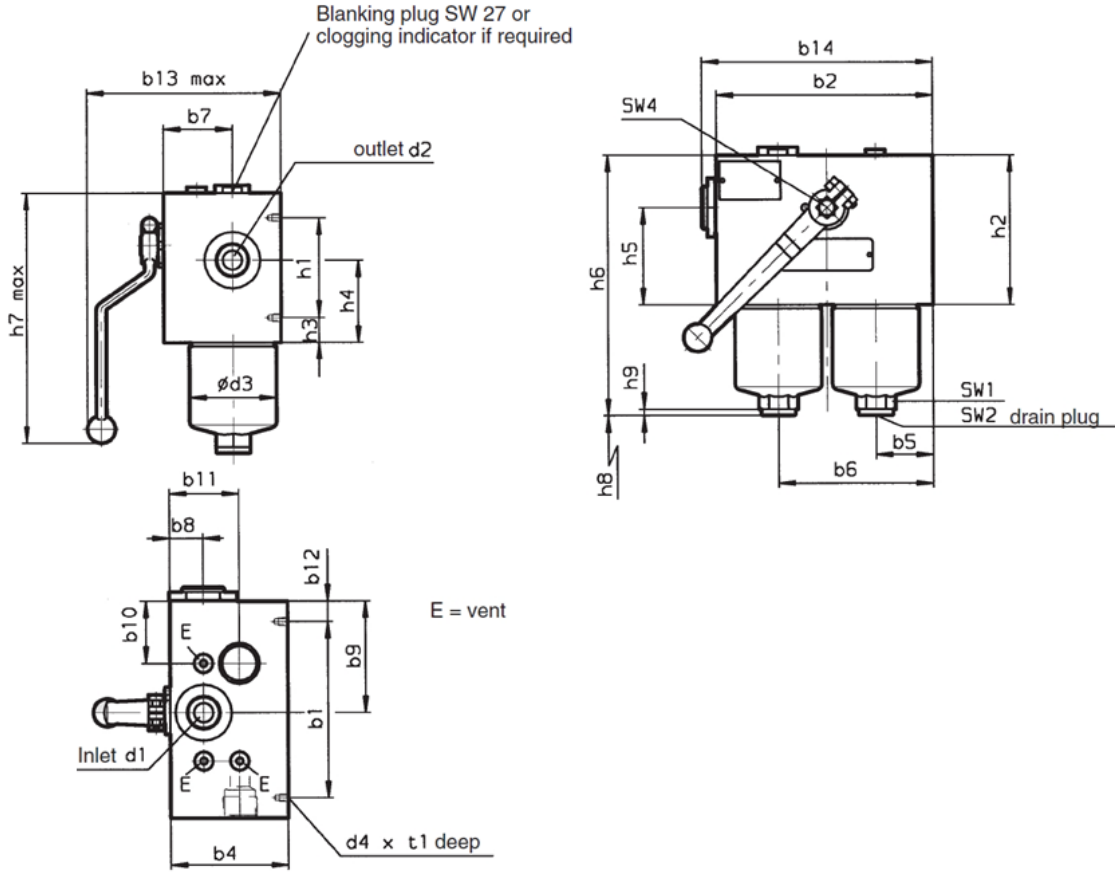


Flow rate (l/min)

EFDP Pressure Filter Series

Technical Drawings and Dimension

EFDP1 to EFDP8



Threaded Connection Ports

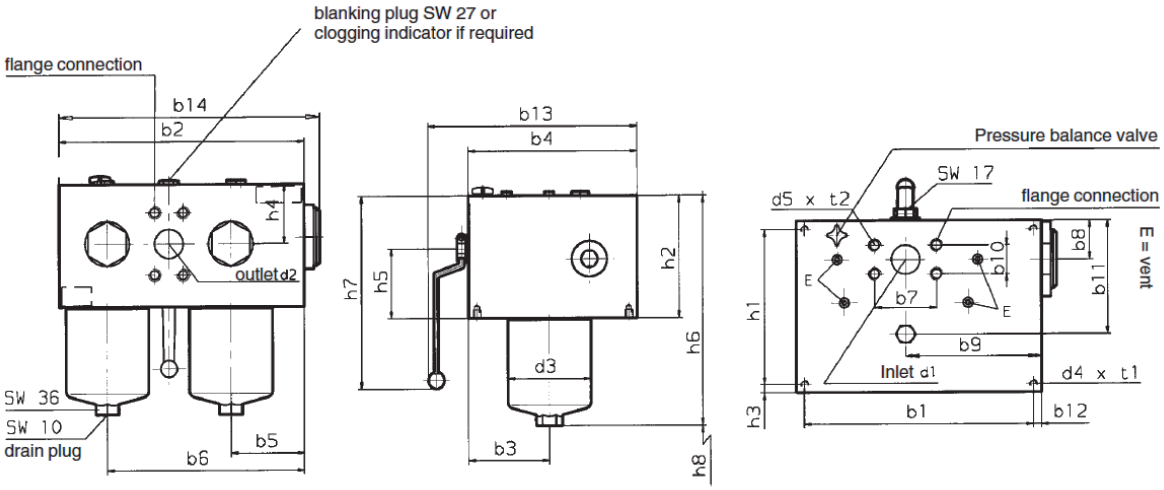
Type	b1	b2	b4	b5	b6	b7	b8	b9	b10	b11	b12	b13	b14	d1	d2	d3	d4
EFDP1	130	145	80	35	96	47	22.8	81	49	59	7.5	131	155	G ½"	G ½"	52.2	M6
EFDP2	138	170	92	45	121.5	54	26	87	48.5	54	16	150	181	G ¾"	G ¾"	68.2	M6
EFDP3	138	170	92	45	121.5	54	26	87	48.5	54	16	150	181	G ¾"	G ¾"	68.2	M6
EFDP4	138	170	92	45	121.5	54	26	87	48.5	54	16	150	181	G ¾"	G ¾"	68.2	M6
EFDP5	190	210	128	52.5	157.5	75.5	35.5	105	52.5	75.5	10	193	221	G 1½"	G 1½"	95.2	M10
EFDP6	190	210	128	52.5	157.5	75.5	35.5	105	52.5	75.5	10	193	221	G 1½"	G 1½"	95.2	M10
EFDP8	190	210	128	52.5	157.5	75.5	35.5	105	52.5	75.5	10	193	221	G 1½"	G 1½"	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

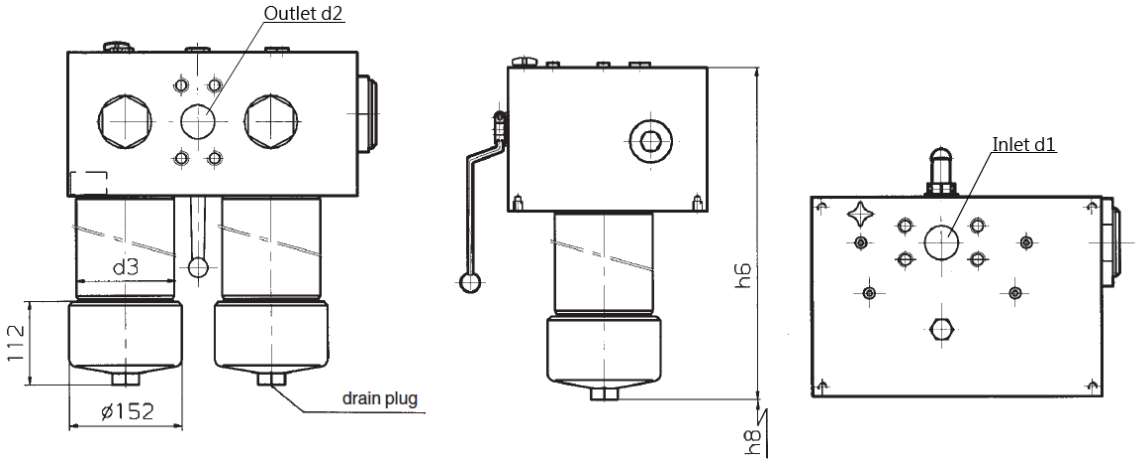
EFDP Pressure Filter Series

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
EFDP	1	BB	B	-	M03	-	8PB

Element Series	A	C	D
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

Notes