PRESSURE FILTERS PA

MATERIALS

Housing:
Anodized aluminium alloy

Bypass valve:
Brass

Seals:
NBR Nitrile
(FKM - on request fluoroelasto-mer)

Indicator housing:
Brass

PRESSURE (ISO 10771-1:2002)

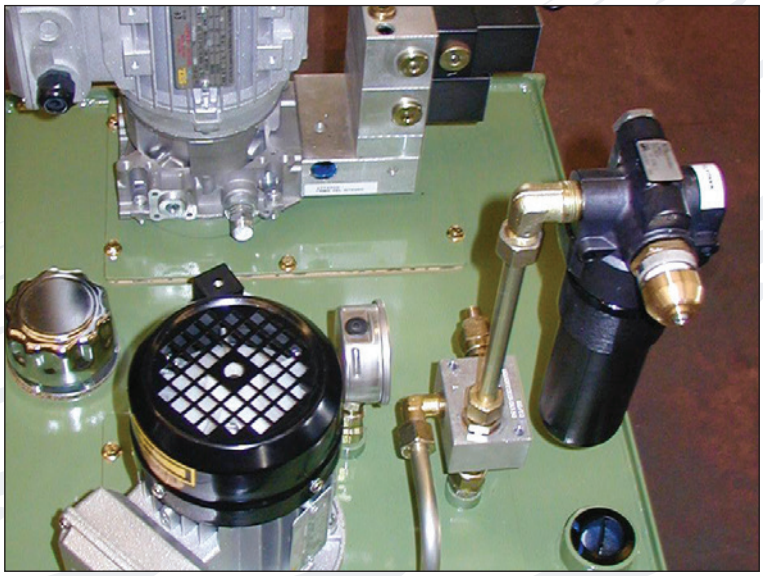
Max working:
11 MPa (110 bar)

Test:
16 MPa (160 bar)

Bursting:
30 MPa (300 bar)

Collapse, differential
for the filter element (ISO 2941):
8 MPa (80 bar)

APPLICATION EXAMPLE



BYPASS VALVE

Setting:
600 kPa (6 bar) ± 10%

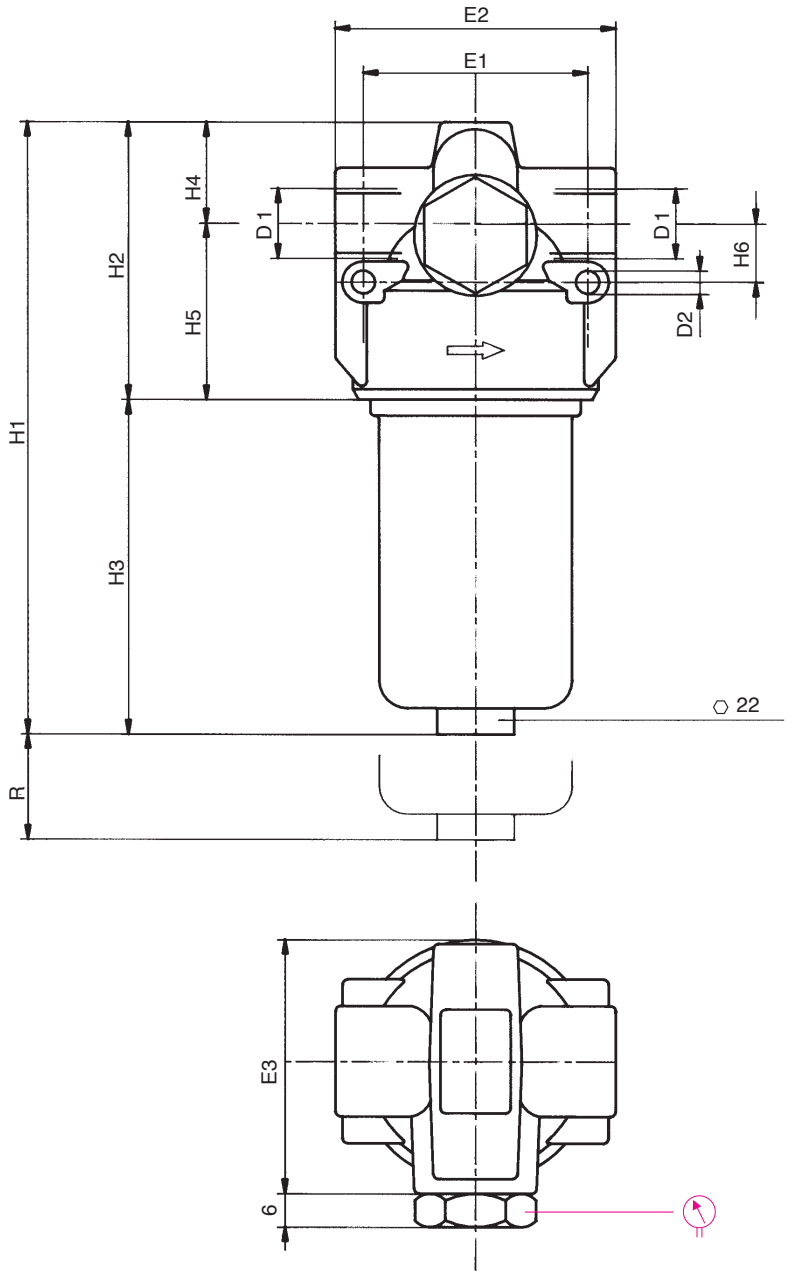
WORKING TEMPERATURE

From -25° to +110° C

COMPATIBILITY (ISO 2943:1999)

Full with fluids:
HH-HL-HM-HV-HTG
(according to ISO 6743/4)
For fluids different than the above mentioned, please contact our Sales Department.

OHF 300



FILTER HOUSING

	D1	D2	H1	H2	H3	H4	H5	H6	E1	E2	E3	R	kg
FPA11	1/2”	6,5	157	78	79	28	50	17	64	76	75	60	0,65
FPA12	1/2”	6,5	244	78	166	28	50	17	64	76	75	60	0,85

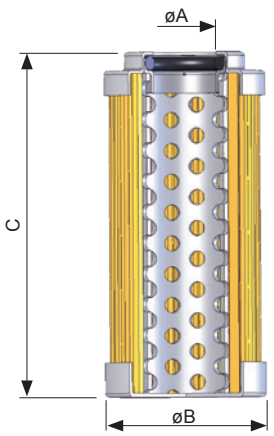
	TYPE					
	F = FILTER COMPLETE	F	F	F	F	
	B = FILTER HOUSING	B	B	B	B	ELEMENT E
P A	FAMILY NOMINAL SIZE & LENGHT	11	12	21	22	FAMILY SIZE & LENGHT P A
	PORT TYPE					
	B = BSP thread	B	B	B	B	
	N = NPT thread	N	N	N	N	
	S = SAE thread	S	S	S	S	
0 4	PORT SIZE					
	04 = 1/2"	04	04	04	04	
	BYPASS VALVE					
	W = without	W	W	W	W	
	C = 600 kPa (6 bar)	C	C	C	C	
	SEALS					SEALS
	N = NBR Nitrile	N	N	N	N	N = NBR
	F = FKM Fluoroelastomer	F	F	F	F	F = FKM
	FILTER MEDIA					FILTER MEDIA
	FA = fiber 5 $\mu m_{(c)}$ β>1.000	FA	FA	FA	FA	FA = fiber 5 $\mu m_{(c)}$
	FB = fiber 7 $\mu m_{(c)}$ β>1.000	FB	FB	FB	FB	FB = fiber 7 $\mu m_{(c)}$
	FC = fiber 12 $\mu m_{(c)}$ β>1.000	FC	FC	FC	FC	FC = fiber 12 $\mu m_{(c)}$
	FD = fiber 21 $\mu m_{(c)}$ β>1.000	FD	FD	FD	FD	FD = fiber 21 $\mu m_{(c)}$
	CC = cellulose 10 μm β>2	CC	CC	CC	CC	CC = cellulose 10 μm
	CLOGGING INDICATOR					
	03 = port, plugged	03	03	03	03	
	5E = visual differential 500 kPa (5 bar)	5E	5E	5E	5E	
	6E = electrical differential 500 kPa (5 bar)	6E	6E	6E	6E	
	7E = indicator 6E with LED	7E	7E	7E	7E	
	T2 = elect. diff. 500 kPa (5 bar) with thermostat 30°C	T2	T2	T2	T2	
X X	ACCESSORIES					
	XX = no accessory available	XX	XX	XX	XX	

When the filter is ordered with FKM seals, the first digit of the indicator code is a letter (please ask for relevant information).

N.B.
Indicator series 72 only on request

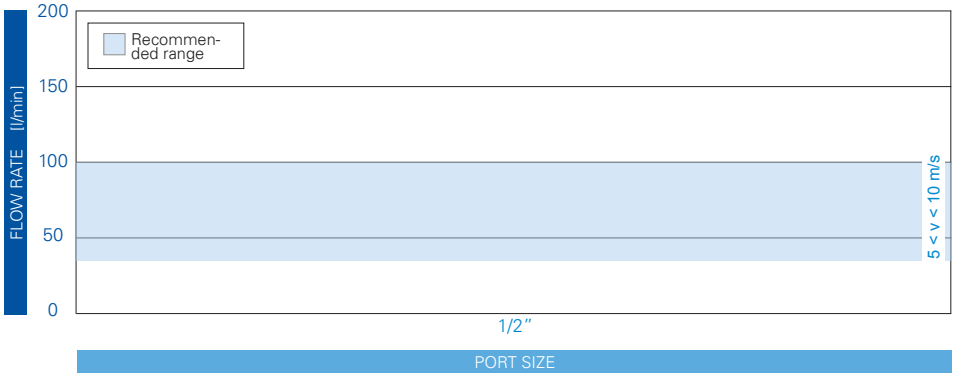
FILTER ELEMENT

	A	B	C	kg	Area (cm²) Media F+	Area (cm²) Media C+
EPA11	22	42	91	0,15	295	295
EPA12	22	42	179	0,25	600	600



FLUID SPEED

when selecting the filter size, we suggest to consider also the max recommended fluid speed (in pressure lines normally 5 < v < 10 m/s)

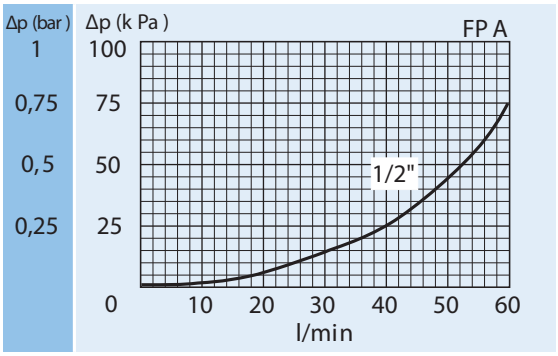


PRESSURE DROP CURVES (Δp)

The “Assembly Pressure Drop (Δp)” is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 80 kPa (0,8 bar).

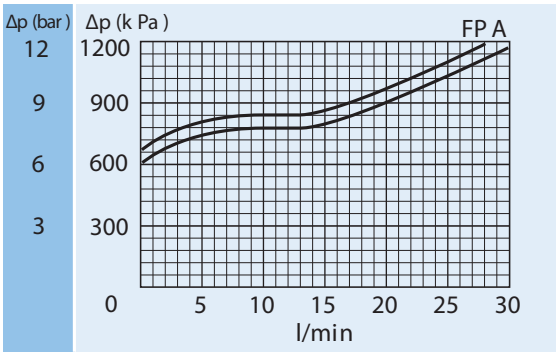
FILTER HOUSING PRESSURE DROP

(mainly depending on the port size)



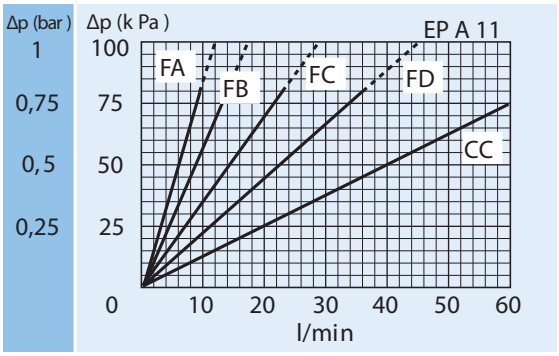
BYPASS VALVE PRESSURE DROP

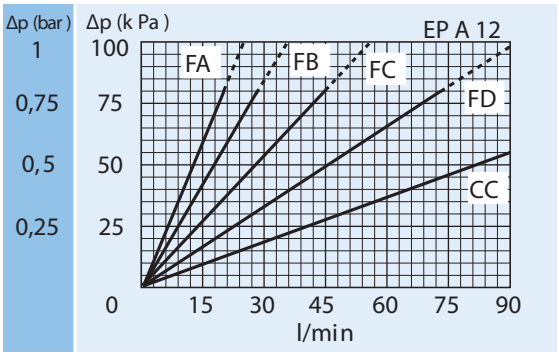
When selecting the filter size, these curves must be taken into account if it is foreseen that any flow peak is to be absorbed by the bypass valve, it also must be of proper configuration to avoid pressure peaks. The valve pressure drop is directly proportional to fluid specific gravity.



CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ AND C+ MEDIA

(depending both on the internal diameter of the element and on the filter media)





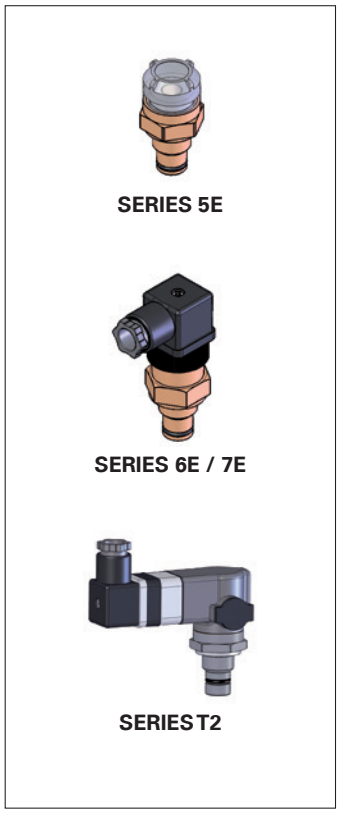
N.B. All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,9 kg/dm^3; for fluids with different features, please consider the factors described in the first part of this catalogue.

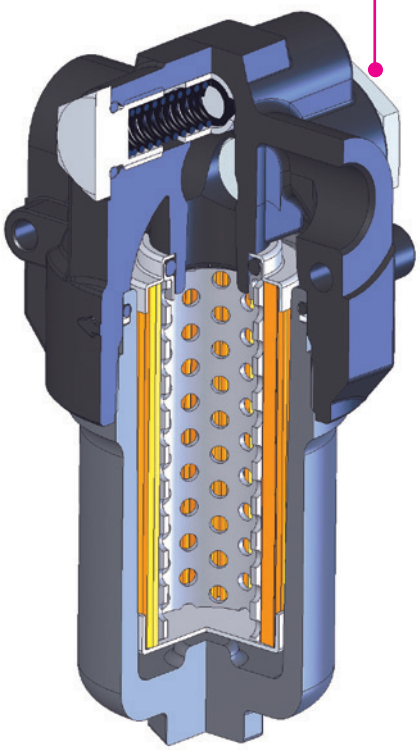
CLOGGING INDICATOR
A visual or visual-electrical differential indicator is available as an option and allows monitoring of the element conditions, giving an exact indication of the right time to replace the element.

FILTER HOUSING
Head and bowl are made by high performance aluminium alloy ensuring the best fatigue resistance.

FILTER ELEMENT
The filter element is manufactured with filter medias selected in our laboratory and mechanically supported to maintain the highest performance even at high differential pressures.

CLOGGING INDICATOR
For further technical informations and other options see page 182-183.



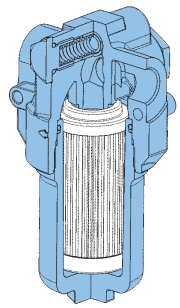
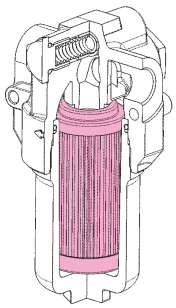
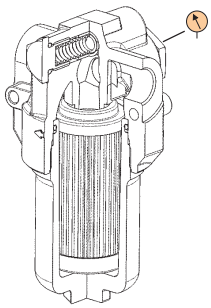


SEAL GUARANTEED
A perfect O-ring seal is always ensured as it is not dependent on the tightening torque applied to the bowl.

EASY MAINTENANCE
The hexagon end of the bowl allows for easy maintenance by using a simple hexagon wrench.

SPARE SEAL KIT

	NBR	FKM
FPA11	521.0001.2	521.0062.2
FPA12	521.0001.2	521.0062.2

FILTER HOUSING	FILTER ELEMENT	CLOGGING INDICATOR
		
B P A 0 4 X X	E P A	

SPARE PARTS ELEMENTS
(For filling up see table "Ordering and option chart")