



MATERIALS

Housing: Anodized aluminium alloy

Bypass valve: Brass

Seals: NBR Nitrile (FKM - on request fluoroelastomer)

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%

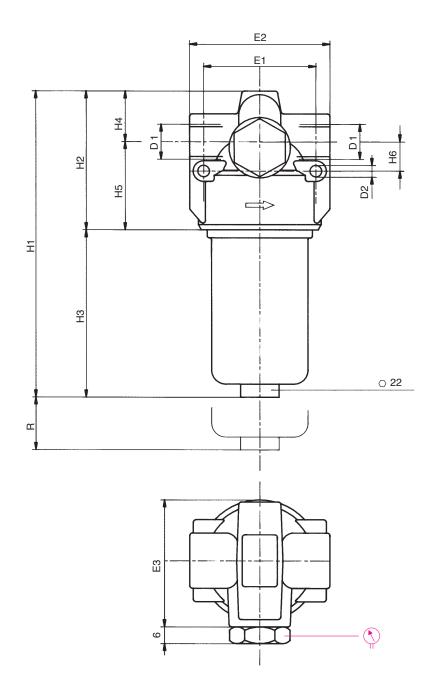
WORKING TEMPERATURE

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.





FILTER HOUSING														
		D1	D2	H1	H2	Н3	H4	Н5	Н6	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

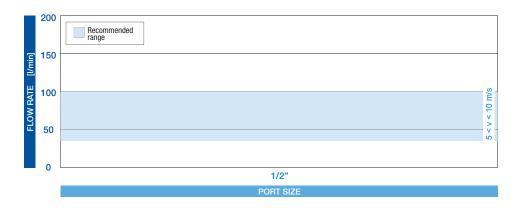
ORDERING AND OPTION CHART

	TYPE			
	F = FILTER COMPLETE	F	F	
	B = FILTER HOUSING	В	В	ELEMENT E
\	FAMILY NOMINAL SIZE & LENGHT	11	12	FAMILY P A SIZE & LENGHT
		11	12	
	PORT TYPE		В	\neg
	B = BSP thread	B	_	
	N = NPT thread	N O	N O	
	S = SAE thread	S	S	
0 4	PORT SIZE	24		\neg
_	04 = 1/2"	04	04	
	BYPASS VALVE			_
	W = without	W	W	
	C = 600 kPa (6 bar)	С	С	
	SEALS		ı	SEALS
	N = NBR Nitrile	N	N	N = NBR
	F = FKM Fluoroelastomer	F	F	F = FKM
	FILTER MEDIA		т	FILTER MEDIA
Ш	FA = fiber $5 \mu m_{(c)} \beta > 1.000$	FA	FA	$FA = fiber 5 \mu m_{(c)}$
	FA = fiber $5 \mu m_{(c)} \beta > 1.000$ FB = fiber $7 \mu m_{(c)} \beta > 1.000$	FB	FB	FA = fiber $5 \mu m_{(c)}$ FB = fiber $7 \mu m_{(c)}$
	FA = fiber $5 \mu m_{(c)} \beta > 1.000$ FB = fiber $7 \mu m_{(c)} \beta > 1.000$ FC = fiber $12 \mu m_{(c)} \beta > 1.000$	FB FC	FB FC	FA = fiber $5 \mu m_{(c)}$ FB = fiber $7 \mu m_{(c)}$ FC = fiber $12 \mu m_{(c)}$
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FILTER	ELEMEN	IT					
	Α	В	С	kg	Area (cm²)		øA►
				<u> </u>	Media F+	Media C+	
EPA11	22	42	91	0,15	295	295	0
EPA12	22	42	179	0,25	600	600	▼ ØB ▼

FLUID SPEED

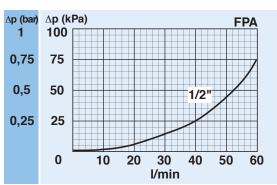
when selecting the filter size, we suggest to consider also the max recommended fluid speed (in pressure lines normally 5 < v < 10 m/s)



PRESSURE DROP CURVES (Δp)

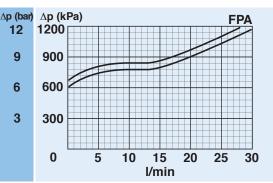
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 80 kPa (0,8 bar).

FILTER HOUSING PRESSURE DROP (mainly depending on the port size)



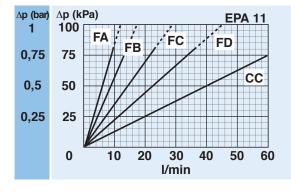
BYPASS VALVE PRESSURE DROP

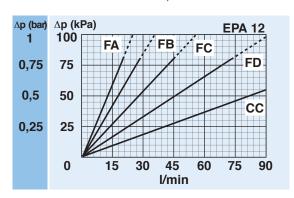
When selecting the filter size, these curves must be taken into account if it is foreseen that any flow peak is to be absorbed by the bypass valve, it also must be of proper configuration to avoid pressure peaks. The valve pressure drop is directly proportional to fluid specific gravity.



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/dm³; for fluids with different features, please consider the factors described in the first part of this catalogue. All the curves are obtained from test done at the UFI HYDRAULIC DIVISION Laboratory, according to the specification ISO 3968:2005. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.



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 the UFI laboratory and mechanically supported to maintain the highest performance even at high differential pressures.

SEAL GUARANTEED

A perfect 0-ring seal is always ensured as it is not dependent on the tightening torque applied to the bowl.

EASY MAINTENANCE

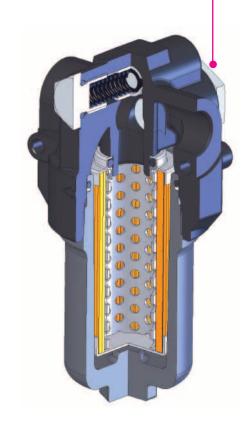
The hexagon end of the bowl allows for easy maintenance by using a simple hexagon wrench.

CLOGGING INDICATOR

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



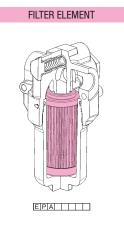


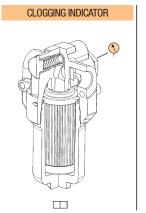


SPARE SEAL KIT

	NBR	FKM			
FPA11	521.0001.2	521.0062.2			
FPA12	521.0001.2	521.0062.2			

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



