



HIGH PRESSURE FILTERS

FAP

FPA is the medium pressure filter up to 11.100.000 Pa (110 bar- 1600 Psi); the range is composed of two different sizes with nominal flow rates up to 60 l/min. with threaded or flanged connections.

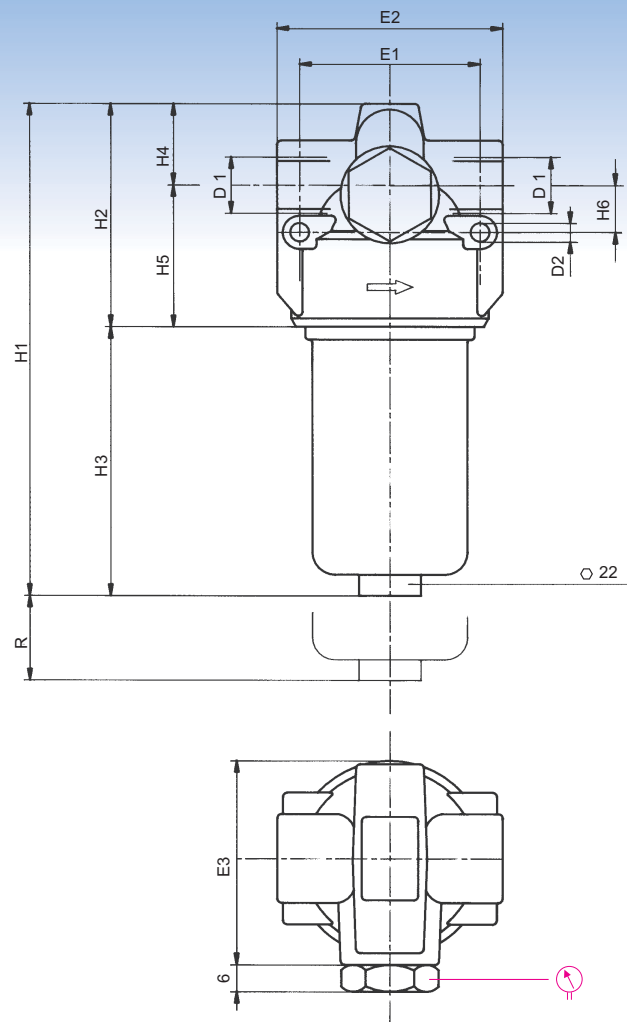
MATERIALS (housing)

Head	Aluminium Anodized
Bowl	Aluminium Anodized
Seals	N: Nitrilic (Buna-N) V: Fluoroelastomer (Viton)
By-pass valve	Brass
Indicator	Brass

WORKING CONDITIONS

Filter pressure	Max working pressure: 11.100.000 Pa (110 bar) Testing pressure: 16.000.000 Pa (160 bar) Burst pressure: 30.000.000 Pa (300 bar)
Operating pressure	-20 a + 110° c
Collapse pressure (Filter Element)	X series : 8.00.000 Pa (80 bar) Y series : 8.000.000 (80 bar)
By-pass valve setting pressure	600.000 Pa $\pm$ 10% (6 bar) (from opening)
Compatibility with hydraulic fluids ISO 2943	Compatible with mineral oils such as HH, HM, HR, HV, HG according to ISO 6743/4)





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	
		B = FILTER HOUSING	B	B	ELEMENT
P	A	FAMILY			FAMILY
		NOMINAL SIZE & LENGHT	11	12	SIZE & LENGHT
		PORT TYPE			
		B = BSP thread	B	B	
		N = NPT thread	N	N	
		S = SAE thread	S	S	
0	4	PORT SIZE			
		04 = 1/2"	04	04	
		BYPASS VALV E			
		W = without	W	W	
		C = 600 kPa (6 bar)	C	C	
		SEALS			SEALS
		N = NBR Nitrile	N	N	N = NBR
		F = FKM Fluoroelastomer	F	F	F = FKM
		FILTER MEDIA			FILTER MEDIA
		FA = fiber 5 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FA	FA	FA = fiber 5 $\mu\text{m}_{(c)}$
		FB = fiber 7 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FB	FB	FB = fiber 7 $\mu\text{m}_{(c)}$
		FC = fiber 12 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FC	FC	FC = fiber 12 $\mu\text{m}_{(c)}$
		FD = fiber 21 $\mu\text{m}_{(c)}$ $\beta > 1.000$	FD	FD	FD = fiber 21 $\mu\text{m}_{(c)}$
		CC = cellulose 10 μm $\beta > 2$	CC	CC	CC = cellulose 10 μm
		CLOGGING INDICATOR			
		03 = port, plugged	03	03	
		5E = visual differential 500 kPa (5 bar)	5E	5E	
		6E = electrical differential 500 kPa (5 bar)	6E	6E	

FILTER ELEMENT						
	A	B	C	kg	Area (cm ²)	
					Media F+	Media C+
EPA11	22	42	91	0,15	295	295
EPA12	22	42	179	0,25	600	600

Technical drawing of a cylindrical filter element. The drawing shows a central core with a perforated metal cage and two outer layers of yellow filter media. Dimensions are labeled: $\varnothing A$ for the top flange diameter, $\varnothing B$ for the bottom flange diameter, and C for the total height of the element.

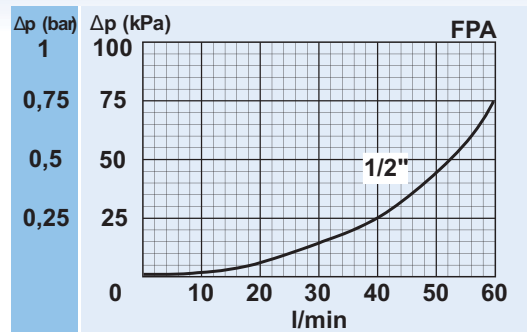
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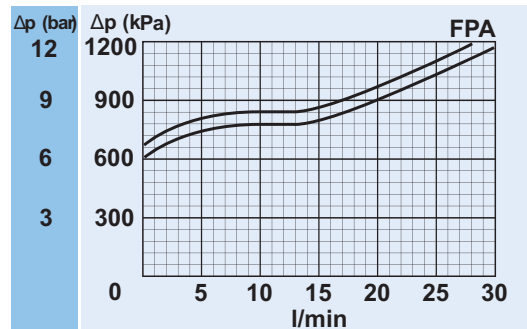
PRESSURE DROP CURVES (Δp)

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



BYPASS VALVE PRESSURE DROP



CLEAN FILTER ELEMENT PRESSURE DROP

