



DESCRIPTION

Medium pressure inline filter

MATERIALS

Housing: Anodized aluminum alloy

Bypass valve: Steel

Seals: NBR Nitrile (FKM Fluoroelastomer on request)

Indicator housing: Brass

PRESSURE

Max. working: 21 MPa (210 bar) Collapse, differential for the filter element: 2,1 MPa (21 bar)

BYPASS VALVE

Setting: 600 kPa (6 bar) \pm 10%

FLOW RATE

Qmax 120 l/min

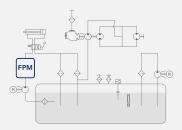
WORKING TEMPERATURE

From -25° to +110° C

COMPATIBILITY (ISO 2943)

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

HYDRAULIC DIAGRAM



Is this datasheet the latest release? Please check on our website







ORDERING AND OPTION CHART

Р	М	COMPLETE FILTER FAMILY			FILTER ELEMENT FAMILY	Е	Р	В
		SIZE & LENGTH	21	22	SIZE & LENGTH			
		PORT TYPE						
		B = BSP thread	В	В				
		N = NPT thread	N	N				
		S = SAE thread	S	S				
		PORT SIZE						
		04 = 1/2" (N04 not available)	04	04				
		06 = 3/4"	06	06				
		08 = 1"	08	08				
		BYPASS VALVE						
		W = without	W	W				
		C = 600 kPa (6 bar)	С	С				
		SEALS		T	SEALS			
		N = NBR Nitrile	N	N				
		F = FKM Fluoroelastomer	F	F				
		FormulaUFI MEDIA		I	FormulaUFI MEDIA			
		FA = FormulaUFI.MICRON 5 $\mu m_{(c)} \beta > 1.000$	FA	FA				
		FB = FormulaUFI.MICRON 7 $\mu m_{(c)} \beta > 1.000$	FB	FB				
		FC = FormulaUFI.MICRON 12 μ m _(c) β >1.000	FC	FC				
		FS = FormulaUFI.MICRON 16 μ m _(c) β >1.000	FS	FS				
		FD = FormulaUFI.MICRON 21 μm _(c) β>1.000	FD	FD				
		FE = FormulaUFI.MICRON 30 μm _(c) β>1.000	FE	FE				
		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	**\\//pap the filt :-		alau-	ما الم
		7E = indicator 6E with LED	7E	7E	** When the filter is seals, the first digit			
		T2 = elect. diff. 500 kPa (5 bar) with thermostat 30°C	T2	T2	is a letter	OI (I		uiud
Х	X	ACCESSORI / ACCESSORIES			(please see Clogg	ing I	ndic	ator
		XX = no accessory available	XX	XX	for further details)	0		

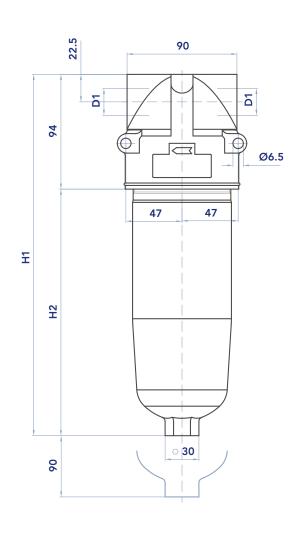
SPARE PARTS

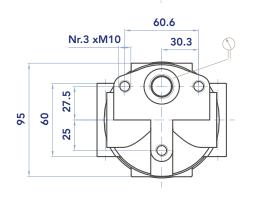


SPARE SEAL KIT

	NBR	FKM		
FPM21-22	521.0011.2	521.0010.2		

INSTALLATION DRAWING





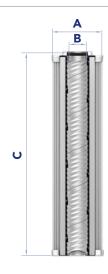
FILTER HOUSING

	D1	H1	H2	R	Kg
FPM21	1/2" - 3/4" - 1"	205	111	100	1,5
FPM22	1/2" - 3/4" - 1"	300	206	100	2,0



FILTER ELEMENT

	A	В	С	Kg	AREA (cm²) Media C+
EPB21	52	23,5	115	0,25	780
EPB22	52	23,5	210	0,25	1.465



MAINTENANCE

- 1) Stop the system and verify there is no pressure in the filter.
- 2) Collect the oil inside the filter with a suitable container.
- 3) Unscrew the bowl (1) and clean it.
- 4) Remove the dirty filter element (2).
 - N.B. The exhausted filter elements and the oil dirty filter parts are classified "Dangerous waste material" and must be disposed of according to the local laws, by authorized Companies.
- 5) Check the filter element part number on the filter label or in the ordering and option chart.Use only original spare parts.
- 6) Lubricate the element o-ring gasket (3) with oil.
- 7) Insert the clean element into its seat with care.
- 8) Check the bowl o-ring condition (4) and lubricate with oil.

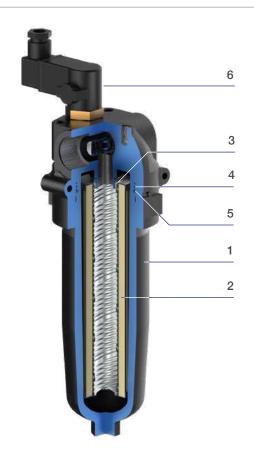
 If damaged, check the seal kit part number in the spare seal kit table.
 - $\mbox{N.B.}$ The anti-extrusion o-ring (5) must be positioned with the concave side upwards (gasket side).
- 9) Screw the bowl (1) until it stops, with a tightening torque of 60 Nm + 5/0.

Accessories:

Clogging indicator (6).

If damaged, unscrew and replace it (check the part number in the ordering and option chart).

Lubricate the o-ring gasket with oil and tighten until it stops, with a tightening torque of 40 Nm \pm 5/0.





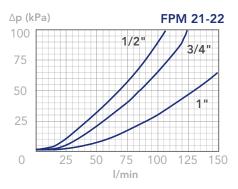
PRESSURE DROP CURVES (Δp)

PRESSURE DROP CURVES (Δp)

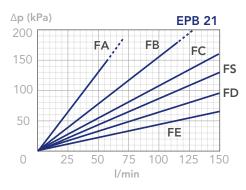
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter

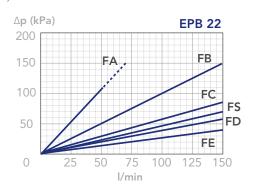
Element corresponding to the considered Flow Rate and it must be lower than 120 kPa (1,2 bar). In any case this value should never exceed 1/3 of the bypass setting.

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



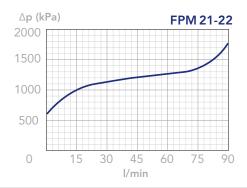
CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ MEDIA (depending both on the internal diameter of the element and on the filter media)





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.



N.B.

All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,86 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 FILTERS HYDRAULICS Laboratory, according to the specification ISO 3968. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.

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