



FA4 SERIES

In line medium pressure filters

Inline filters with spin-on cartridge for operating pressure up to 35 bar, flow rate up to 250 l/min.

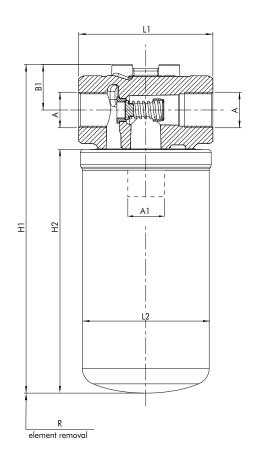
Available with or without bypass, the optional indicator port allows to fit a visual or electrical differential indicator.

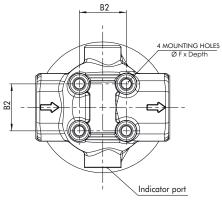
TECHNICAL INFORMATION

HOUSING	tested according to NFPA T3.10.17 , ISO3968					
HYDRAULIC SYMBOL:	A B	A				
PRESSURE:	Max operating:	34,5 bar for FA4 1x				
	Burst:	24 bar for FA4 21 69 bar for FA4 1x 55 bar for FA4 21				
CONNECTION PORTS:	G 3/4" - G 1" -	G 1 1/4"				
MATERIALS:	Head: Bowl: Seal:	aluminium alloy painted steel NBR (FKM on request)				
BYPASS:	No by-pass or 3,5 bar setting					
ELEMENT	tested according to	ISO 2941, 2942, 2943, 3968, 16889, 23181				
FILTER MEDIA:	Inorganic micro Paper:	fiber: G03 - G06 - G10 - G15 - G25 - G40 C10 - C25				
DIFFERENTIAL COLLAPSE PRESSURE:	15 bar for FA4 12 bar for FA4					
OPERATING TEMPERATURE RANGE:	-25°C +100°C					
FLUID COMPATIBILITY:	Full with HH-HL For use with oth (info@filtrec.it).	HM-HV (acc. To ISO 2943). ner fluid please contact Filtrec Customer Service				



OVERALL DIMENSIONS





NOMINAL SIZE

CODE	Α	A1	B1	B2	F	H1	L1	R	WEIGHT	ELEMENT	H2	L2
FA4-05						165			1,6 Kg	A405	100	
FA4-11	G 3/4"	1" 3/8-12 UN 2B	34	35		216	100		1,8 Kg	A411	152	97
FA4-12	G 1"	1 3/0-12 014 20	34	33	M10x15	245	100	30	1,9 Kg	A412	180	7/
FA4-13						302			2,2 Kg	A413	240	
FA4-21	G 1 1/4"	1" 3/4-12 UN 2B	40	48		369	121		3,2 Kg	A421	295	120



ORDERING INFORMATION

	1.	2.	3.	4.	5.	6.	7.	8.
	F	A 4	21	G10	В	В6	D	Z34
SPARE E	ELEMENT	A 4	21	G10				
1. FILTE	ER SERIES			F				
2. FILTE	ER ELEMEN	T SERIES		A4				
3. FILTE	ER SIZE			05-11-12-1	3			
				21				
4. FILTE	ER MEDIA			000	no	element		
				C10	pap	oer $\beta_{10\mu m(c)}$	> 2	
				C25		er β _{25μm(c)} :		
				G03		ssfiber B _{4,5,1}		
				G06		ssfiber β _{7μm}		
				G10		ssfiber B _{12µ}		
				G15		ssfiber $\beta_{18\mu}$		
				G25		ssfiber $\beta_{22\mu}$		
				G40	glas	ssfiber $ m eta_{35\mu}$	$_{m(c)} > 1.00$)0
5. SEAL	_S			В	NBF	?	(omit	for element)
				V	FK۸	٨		
6. CON	NECTION	IS		B4	G 3	3/4"		
				B5	G 1	"		
				В6	G 1	1/4"		
7. BYPA	ASS VALVE			0	no	by-pass		
				D	3,5	bar		
8. INDI	ICATOR			000	no i	indicator		
				Z00	indi	cator port	plugged	
				Z34	diffe	erential vis	ual 2,7 bc	ır
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differential electrical 2,7 bar

Z35

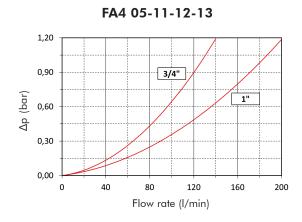


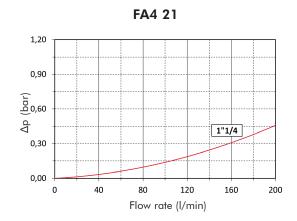
PRESSURE DROP (Ap) INFORMATION FOR FILTER SIZING

The total Delta P through a filter assembly is given from Housing Δp + Element Δp . This ideally should not exceed 1,0 bar and should never exceed 1/3 of the set value of the by-pass valve. N.B. All the reported data have been obtained at our laboratory, according to specification ISO3968 with mineral oil having 32 cSt viscosity and density 0,875 Kg/dm³.

HOUSING PRESSURE DROP

The housing Δp is given by the curve of the considered model and port, in correspondence of the flow rate value.





ELEMENT PRESSURE DROP

The element Δp (bar) is given by the flow rate (I/min) multiplied by the factor in the table here below correspon-ding to the selected media and divided by 1000. If the oil has a viscosity Vx different than 32 cSt a corrective factor Vx/32 must be applied.

Example: 100 l/min with A421G10 and oil viscosity 46 cSt $> 100 \times 1,75/1000 \times 46/32 = 0,25$ bar

	G03	G06	G10	G15	G25	G40	C10	C25
A405	25,00	13,89	7,00	5,00	4,67	1,67	3,33	2,78
A411	16,67	10,92	5,80	3,69	2,85	1,31	2,46	2,06
A412	11,11	6,67	4,92	3,13	2,78	1,04	2,08	1,67
A413	6,54	4,69	3,00	1,85	1,69	0,69	1,23	1,00
A421	4,00	2,90	1,75	1,10	0,80	0,40	0,60	0,50

EXAMPLE OF TOTAL Δp **CALCULATION**

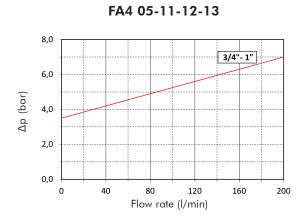
FA421G10BB6DZ34 with 100 l/min and oil 46 cSt

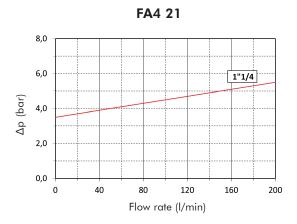
Housing Δp 0,16 bar + element Dp 0,25 bar (100 x 1,75/1000 x 46/32) = total assembly Δp 0,41 bar



BYPASS VALVE PRESSURE DROP

The bypass valve Δp is given by the curve of the considered model and setting, in correspondence of the flow rate value.





N.B. All the reported data have been obtained at our laboratory, according to specification ISO3968 with mineral oil having 32 cSt viscosity and density 0.875 Kg/dm^3 .



USER TIPS



- FILTER HEAD
- 2 INDICATOR PORT
- 3 FIXING HOLES
- 4 BY- PASS VALVE
- 5 FILTER ELEMENT
- IDENTIFICATION LABEL

INSTALLATION



- 1. the IN and OUT ports must be connected to the hoses in the correct flow direction (an arrow shows on the filter head (1)
 - the filter housing should be preferably mounted with the cartridge (5) downward
 - secure to the frame the filter head (1) using the threaded fixing holes (3)
 - 4. verify that no tension is present on the filter after mounting
 - enough space must be available for filter element cartridge replacement
 - the visual clogging indicator must be in a easily viewable position
 - 7. when a electrical indicator is used, make sure that it is properly wired



- never run the system with no filter element
- 9. keep in stock a spare FILTREC filter element for timely replacement when required

CARTRIDGE TIGHTENING TORQUE

All models 1/2 lum	All models	1/2 turn
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INDICATOR TIGHTENING TORQUE

OPERATION



- the filter must work within the operating conditions of pressure, temperature and compatibility given in the first page of this data
- 2. the filter element must be replaced as soon as the clogging indicator signals at working temperature (in cold start conditions, oil temperature lower than 30°C, a false alarm can be given due to oil viscosity)
- If no clogging indicator is mounted, replace the element according to the system manufacturer's recommendations

WARNING



Make sure that Personal Protective Equipment (PPE) is worn during installation and maintenance operation.

DISPOSAL OF FILTER ELEMENT



The used filter elements and the filter parts dirty of oil are classified as "Dangerous waste material": they must be disposed according to the local laws by authorized Companies.

MAINTENANCE



- 1. make sure that the system is switched off and there is no residual pressure in the filter
- 2. unscrew the filter cartridge (5) by turning it anti-clockwise and remove it
- 3. fit a new FILTREC cartridge element (5), verifying the part number, particularly concerning the micron rating
- ensure that the head mounting face is clean



- ♠ 5. Iubricate the gasket of the replacement cartridge and the thread prior to assembly
 - spin on the new cartridge until it reaches the mounting face and tighten for 1/2 turn.





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