

FA2 SERIES

Tank-top, spin-on type filters

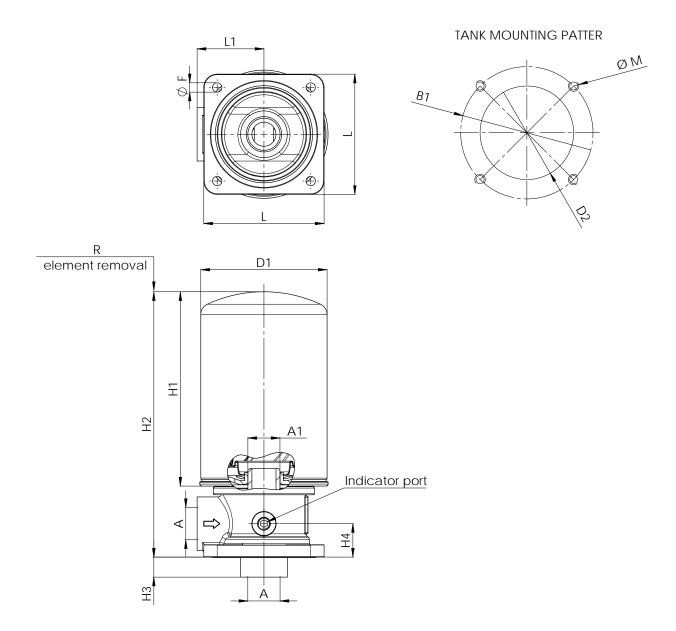
Return line filters with spin-on cartridge for operating pressure up to 12 bar, flow rate up to 300 l/min.

Bypass valve inbuilt in the filter element, indicator port is a standard option to fit a visual or electrical indicator.

HOUSING	tested according to NFPA T3.10.17, ISO12829, ISO3968							
PRESSURE:	Max operating: 12 bar Burst: 20 bar							
CONNECTIONS:	G 3/4"÷G 1 1/2"							
MATERIALS:	Head: aluminium alloy Bowl: painted steel Seal: NBR							
BYPASS VALVE:	1,7 bar							
ELEMENT	tested according to ISO 11170, 2941, 2942, 2943, 3724, 3968,16889, 16908, 23181							
FILTER MEDIA:	Paper: C10 - C25 Inorganic microfiber: G10 - G25 Wire mesh: T60							
COLLAPSE PRESSURE:	5 bar							
TEMPERATURE RANGE:	from -30 °C to +100 °C							
FLUID Compatibility:	Full with HH-HL-HM-HV HETG-HEES (acc. to ISO 6743/4). For use with other fluid please contact Filtrec Customer Service (info@filtrec.it).							







NOMINAL SIZE

CODE	А	B1	D1	D2	ØF	H1	H2	H3	H4	L	L1	ØМ	R	WEIGHT	ELEMENT	A1
FA2-10	0.0/4// 00	00	99 96	40÷45	7	148	200	15 25	25	25 90	0 50	M6	20	1,3 Kg	A-2-10	G 3/4″
FA2-11	G 3/4	G 3/4" 99				213	265		25					1,6 Kg	A-2-11	
FA2-20	G11/2″141	141	11 100	45 · 70	9	182	255	20 3) 36	5 122	22 70) M8	40	2,1 Kg	A-2-20	G 1 1/4″
FA2-21		1/2 141 12	120	03÷70		228	300							2,3 Kg	A-2-21	



ORDERING INFORMATION

	1.	2.	3.	4.	5.	6.	7.	8.		
	F	A2	21	C10	BM	В	B7	000		
SPARE ELEM	NENT	A2	21	C10	BM					
1. FILTER SI	ERIES		I	F						
					_					
2. FILTER EI	LEMEN	I SERIES		A2						
3. FILTER SI	ZE		-	10-11						
				20-21						
4. FILTER M	EDIA		Ī	000 no element						
				C10		er $\beta_{10\mu m(c)}$ >	> 2			
				C25	Toginie					
					10 glassfiber $\beta_{12\mu m(c)} > 1.000$					
				G25 glassfiber $\beta_{22\mu m(c)} > 1.000$						
				T60	wire	mesh 60	mm			
5. ELEMEN	T FEAT	URES	Ī	0	no e	element				
				BM	bypa	ss 1,7 bar a	nd antidrair	n membrane		
6. SEALS]	В	NBR	2				
7. CONNE	CTION	S	Ī	B4	G 3	/4″				
				B7	G 1	1/2″				
8. COMPU	LSORY	FIELD]	000	Filtr	ec standar	d			

ACCESSORIES

The accessories must be ordered separately

INDICATOR	MPB	pressure gauge 0÷10 bar		
* Available also with LC24=Led	*PDB	pressure switch 1,3 bar SPDT		
connector (see clogging indicators	MPA	pressure / vacuum gauge -1÷5 bar		
catalogue)	LC24	LED connector for pressure switch		

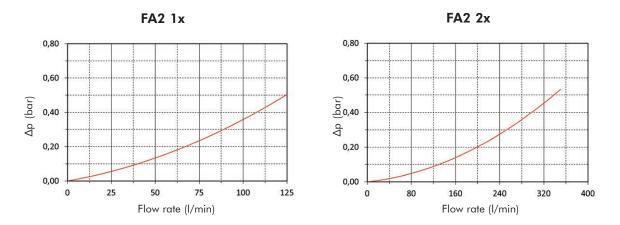


PRESSURE DROP (Ap) INFORMATION FOR FILTER SIZING

The total Delta P through a filter assembly is given from Housing Δp + Element Δp . This ideally should not exceed 0,5 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 (l/min) multiplied by the factor in the table here below corresponding 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: 125 I/min with A220C10BM and oil viscosity 46 cSt > 125 x 0,67/1000 x 46/32 = 0,12 bar

	C10BM	C25BM	G10BM	G25BM	T60BM
A210	1,90	1,70	3,60	2,80	0,90
A211	1,60	0,90	3,40	1,60	0,50
A220	0,67	0,57	2,33	1,23	0,27
A221	0,60	0,47	2,00	1,00	0,23

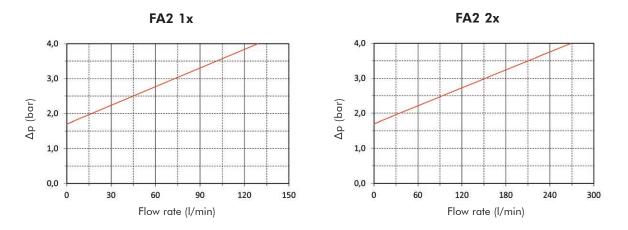
EXAMPLE OF TOTAL Δp CALCULATION

FA220C10BMBB7000 with 125 l/min and oil 46 cSt: Housing $\Delta p 0,1$ bar + element $\Delta p 0,12$ bar (125 x 0,67/1000 x 46/32) = total assembly $\Delta p 0,22$ 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/dm³.



USER TIPS





CARTRIDGE TIGHTENING TORQUE

All models

3/4 turn

INDICATOR TIGHTENING TORQUE

Pressure gauge/switch

10 Nm

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.

INSTALLATION

- 1. Secure the filter head (1) on the tank lid through the fixing holes (3).
 - 2. Connect the hose to the IN port and verify that the OUT port is clear.
 - 3. Verify that no tension is present on the filter after mounting.
 - 4. Enough space must be available for filter element cartridge replacement.
 - 5. The visual clogging indicator must be in a easily viewable position.
 - 6. When a electrical indicator is used, make sure that it is properly wired.
- 7. Never run the system with no filter element fitted.
 - 8. Keep in stock a spare FILTREC filter element for timely replacement when required.

OPERATION

- 1. The filter must work within the operating conditions of pressure, temperature and compatibility given in the first page of this data sheet.
 - 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).
 - 3. If no clogging indicator is mounted, replace the element according to the system manufacturer's recommendations.

MAINTENANCE

- Make sure that the system is switched off and there is no residual pressure in the filter.
 - 2. Unscrew the filter cartridge (4) by turning it anti-clockwise and remove it.
 - 3. Fit a new FILTREC cartridge element (4), verifying the part number, particularly concerning the micron rating.
 - 4. Ensure that the head mounting face is clean.
- ▲ 5. Lubricate 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 3/4 turn.



