

FAH SERIES

In line spin-on type filters

Inline filters with spin-on cartridge, suitable for use on return or low pressure line.

Available with or without bypass, 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 14 bar for FAH-A15x - FAHD-A15x

Max operating 17 bar for FAH-A14x Burst: 20 bar for FAH-A15x - FAHD-A15x

Burst: 28 bar for FAH-A14x

CONNECTIONS:

G 3/4"÷G 1 1/2"

SAE Flange 1 1/2" 3000 psi

MATERIALS:

Head: aluminium alloy Bowl: painted steel

Seal: NBR

BYPASS VALVE:

3,5 bar

ELEMENT

tested according to ISO 11170, 2941, 2942, 2943, 3724,

3968,16889, 16908, 23181

FILTER MEDIA:

Inorganic microfiber:

G03 - G06 - G10 - G25 - G40 - GW03 -

GW06 - GW10 - GW25

Paper:

C10 - C25 - CW25

Wire mesh: T60 - T125

COLLAPSE

PRESSURE:

5 bar

TEMPERATURE

RANGE:

from -30 °C to +100 °C

FLUID

Full with HH-HL-HM-HV

COMPATIBILITY: HETG-HEES (acc. to ISO 6743/4).

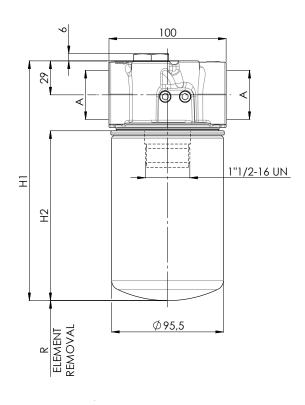
For use with other fluid please contact Filtrec Customer Service

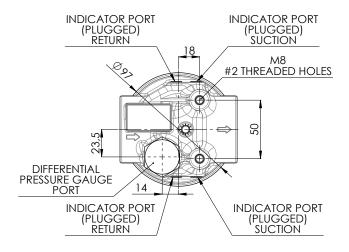
(info@filtrec.it).



OVERALL DIMENSIONS

FAH - A14x





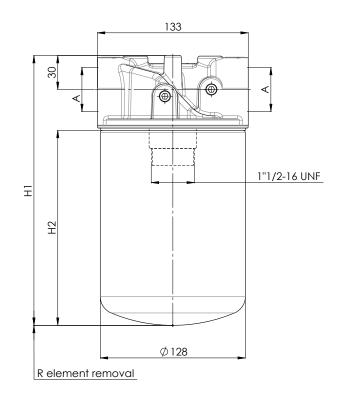
NOMINAL SIZE

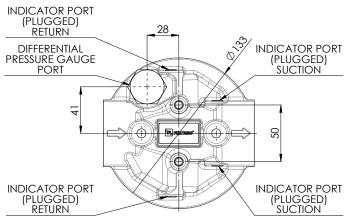
CODE	Α	H1	H2	R	WEIGHT
FAH - A140	G 3/4"	205	145	20	1,2 Kg
FAH - A142	G 1 1/4"	270	210	20	1,4 Kg



OVERALL DIMENSIONS

FAH - A15x





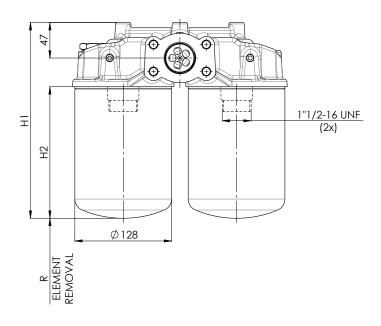
NOMINAL SIZE

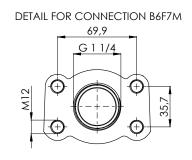
CODE	А	H1	H2	R	WEIGHT
FAH - A150	G 1 1/4"	238	172	40	2 Kg
FAH - A152	G 1 1/4	398	266	40	2,3 Kg



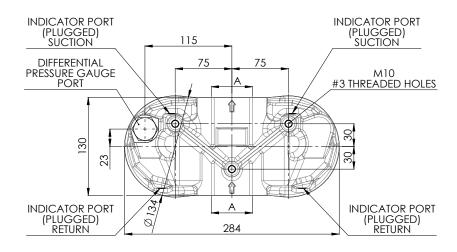
OVERALL DIMENSIONS

FAHD - A15x





G1 1/4 + 1 1/2" SAE J518-3000 - M12



NOMINAL SIZE

CODE	A	Н1	H2	R	WEIGHT
FAHD - A150	G 1 1/2	257	172	40	6,4 Kg
FAHD - A152	G1 1/4" + 1 1/2" SAE J518-3000 - M12	351	266	40	7 Kg



ORDERING INFORMATION

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. FAH		_								
SPARE ELEMENT A1 50 G25 1. FILTER SERIES FAH FAHD 2. FILTER ELEMENT SERIES A1 3. FILTER SIZE 40-42 only for FAH 50-52 4. FILTER MEDIA 000 no element G03 glassfiber $B_{5 \text{unicl}} \ge 1.000$ G10 glassfiber $B_{7 \text{unicl}} \ge 1.000$ G10 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ G25 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ GW03 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ GW03 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ GW04 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ GW05 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ GW06 glassfiber $B_{3 \text{zunicl}} \ge 1.000$ FW10 glassfiber $B_{1 \text{zunicl}} \ge 1.000$ FW25 glassfiber $B_{2 \text{zunicl}} \ge 1.000$ FW26 glassfiber $B_{2 \text{zunicl}} \ge 1.000$ FW26 gl	1. 2	2. 3.	4.	5.	6.	7.	8.	9.	10.	11.
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	5. SEALS		В	NBR				ommitted for	spare eleme	nts
	6. CONNECTIONS		B4	G 3/4	1″			·	40 1	
								for size 40-4	12 only	
B6 G 1 1/4"			В6	G 1 1	/4"					
B7 G 1 1/2" for FAHD-50-52 only		B7	G 1 1/2"							
B6F7M G 1 1/4" or 1 1/2" SAE J518-3000 psi - M12			B6F7M	G 1 1/4	I" or 1 1/2" SA	E J518-3000	psi - M12	101 TATID-30	J-32 Only	
7. BYPASS VALVE 0 no bypass on request only for size 40-42	7. BYPASS VALVE		0	no by	pass			on request on	ly for size 40)-42
D 3,5 bar			D							
3. INDICATOR PORT S differential with metal plug	B. INDICATOR PORT		S	differe	ential with i	metal plua				
W differential with plastic plug										
9. COMPULSORY FIELD 000 filtrec standard	P. COMPULSORY FIEL	.D	000							
10. CORROSION PROTECTION S standard	10. CORROSION PRO	TECTION	S	stand	ard					
11. OPTIONS 0 standard	I 1. OPTIONS		0	stand	ard					



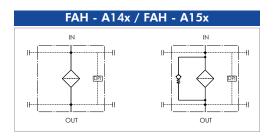
ACCESSORIES

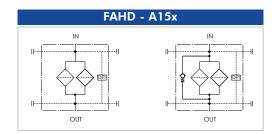
The accessories must be ordered separately

INDICATOR	MPC	pressure gauge 0÷10 bar setting 3 bar
For other options see clogging indicators	MRC	pressure gauge 0÷10 bar setting 3 bar
catalogue	PDC	pressure switch 2 bar SPDT
	VEF2	differential visual-electric 2,7 bar
	V02	differential visual 2,7bar
	E02	differential electric 2,7bar
	E02L	differential electric 2,7bar + LC24*
	LC24	LED connector for pressure switch
PLUG	P01	metal plug for indicator port - NBR



HYDRAULIC SYMBOLS



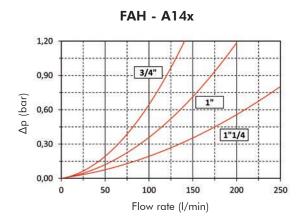


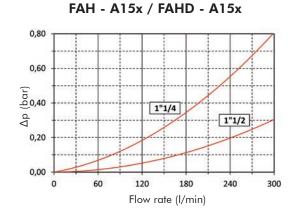
PRESSURE DROP (Ap) INFORMATION FOR FILTER SIZING

The total Delta P through a filter assembly is given from Housing Δp + Element Δp . This ideally should not exceed 0,5 bar for return application (it 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: 120 I/min with A150G25 and oil viscosity 46 cSt: $(120 \times 1,41)/1000 \times (46/32) = 0,24$ bar Example: 120 I/min with (*1) 2x A150G25 and oil viscosity 46 cSt: $(120 \times 0,71)/1000 \times (46/32) = 0,12$ bar

	G03	G06	G10	G25	G40	GW03	GW06	GW10	GW25	C10	C25	CW25	T60	T125
A140	6,92	6,39	3,83	2,98	1,99	19,52	18,02	10,81	8,41	2,02	1,81	5,11	0,96	0,64
A142	4,47	4,16	3,54	1,66	1,03	12,61	11,73	9,97	4,69	1,66	0,94	2,64	0,52	0,26
A150	4,98	4,22	2,68	1,41	0,72	14,03	11,89	7,55	3,99	0,77	0,65	1,85	0,31	0,26
A152	3,16	2,30	1,72	0,86	0,45	8,91	6,48	4,86	2,43	0,52	0,40	1,14	0,20	0,17
(*1) 2 x A150	2,49	2,11	1,34	0,71	0,36	7,02	5,95	3,77	1,99	0,38	0,33	0,92	0,15	0,13
(*2) 2 x A152	1,58	1,15	0,86	0,43	0,22	4,45	3,24	2,43	1,21	0,26	0,20	0,57	0,10	0,08

^(*1) values for FAHD-A150 (*2) values for FAHD-A152. These sizes are fitting 2 cartridges each

EXAMPLE OF TOTAL Δp CALCULATION

FAHA150G25BB6DS000S0 with 120 I/min and oil 46 cSt:

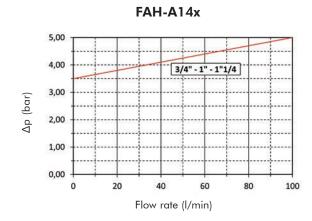
Housing Δp 0,19 bar + element Δp 0,24 bar (120 x 1,41)/1000 x (46/32) = Total assembly Δp 0,43 bar.

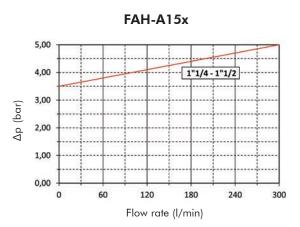
FAHDA150G25BB7DS000S0 with 120 l/min and oil 46 cSt:

Housing Δp 0,05 bar + element Δp 0,12 bar (120 x 0,71)/1000 x (46/32) = Total assembly Δp 0,17 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.







USER TIPS



- 1 FILTER HEAD
- 2 FIXING HOLES
- 3 FILTER CARTRIDGE
- 4 IDENTIFICATION LABEL



CARTRIDGE TIGHTENING TORQUE

All models	3/4 turn
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INDICATOR TIGHTENING TORQUE

Differential pressure gauge	50 Nm
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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. 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 (3) downward.
 - Secure to the frame the filter head (1) using the threaded fixing holes (2).
 - 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.
 - 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.

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.

MAINTENANCE



- 1. Make sure that the system is switched off and there is no residual pressure in the filter.
 - 2. Unscrew the filter cartridge (3) by turning it anti-clockwise and remove it.
 - 3. Fit a new FILTREC cartridge element (3), 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.
 - 7. Spin on the new cartridge until it reaches the mounting face and tighten for 3/4 turn.

