FS5 SERIES

Side wall mounting suction filters

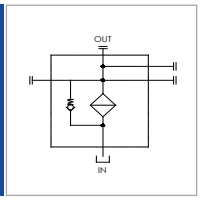
Suction filter for mounting on the tank side wall.
The shut-off valve allows filter element replacement without opening or emptying the reservoir.
Flow rates up to 100 l/min.



HOUSING	tested according to NFPA T3.10.5.1*, ISO 10771*, ISO 3968
CONNECTIONS:	G 1 1/4"
MATERIALS:	Head: aluminium alloy Top cover: PA6 reinforced Seal: NBR
BYPASS VALVE:	0,3 bar setting

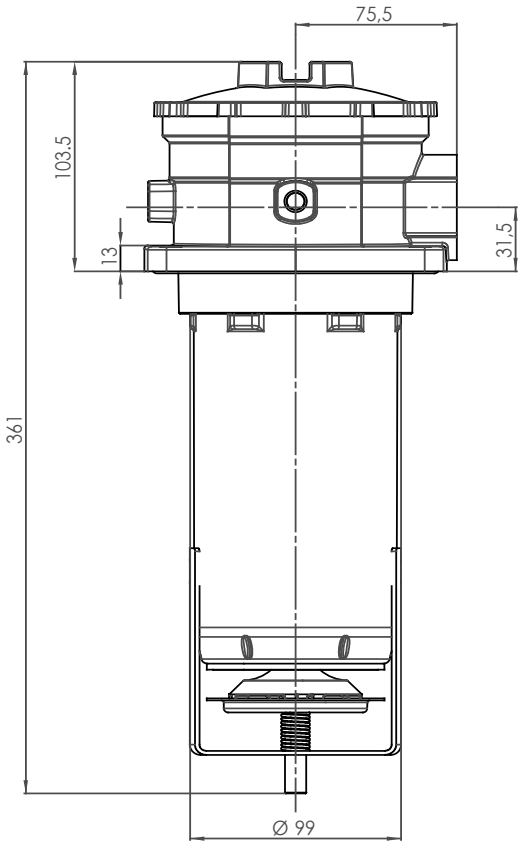
ELEMENT	tested according to ISO 11170, 2941, 2942, 2943, 3724, 3968,16889, 16908, 23181
FILTER MEDIA:	Cellulose: C10 - C25 Wire mesh: T60 - T125 - T250 Inorganic microfiber: G40
TEMPERATURE RANGE:	-30°C +100°C
FLUID COMPATIBILITY:	Full with HH-HL-HM-HV HETG-HEES (acc. to ISO 6743/4). For use with other fluid please contact Filtrec Customer Service (info@filtrec.it).

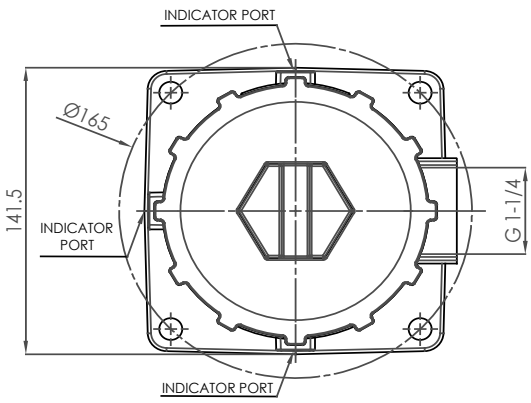
HYDRAULIC SYMBOL

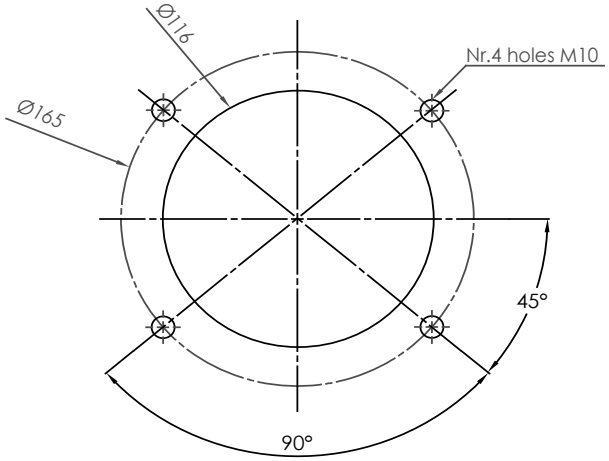


* as reference method only for verifying the pressure fatigue resistance and establishing the burst pressure ratings.

OVERALL DIMENSIONS







EMPTY FILTER WEIGHT
2,7 Kg

ORDERING INFORMATION

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
	FS5		**31**	**C25**	**B**	**B6**	**00**	**B**	**0**	**T**	**000**	**S**	**0**
SPARE ELEMENT	**S5**		**31**	**C25**									

1. FILTER SERIES	F		
2. FILTER SIZE	S5		
3. FILTER SIZE	31		
4. FILTER MEDIA	000	no element	
	C10	paper $ß_{10\mu m(c)} \geq 2$	
	C25	paper $ß_{25\mu m(c)} \geq 2$	
	G40	glassfiber $ß_{35\mu m(c)} \geq 1.000$	
	T60	wire mesh 60 μm	
	T125	wire mesh 125 μm	
	T250	wire mesh 250 μm	
5. SEALS	*B	NBR	*omitted for spare element
6. MAIN PORT	B6	G 1 1/4"	
7. ADDITIONAL PORTS	00	no additional ports	
8. BYPASS VALVE	B	0,3 bar	
9. MAGNET	0	no magnet	
10. INDICATOR PORT OPTION	T	right + rear + left	
11. COMPULSORY FIELD	000	filtrec standard	
12. CORROSION PROTECTION	S	standard	
13. OPTIONS	0	no option	

ACCESSORIES

The accessories must be ordered separately

INDICATOR	MPS	vacuum gauge scale 0÷-1 bar
	PDS	vacuum switch -0,2 bar SPDT
	LC24	LED connector for vacuum switch

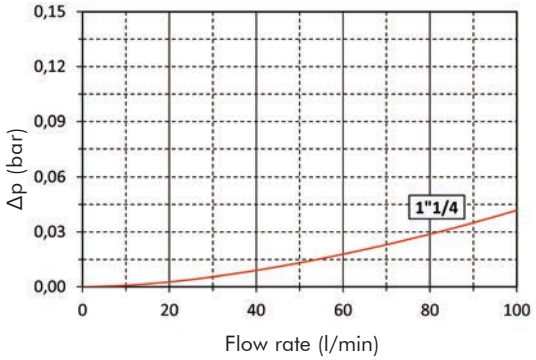
PRESSURE DROP (Δp) INFORMATION FOR FILTER SIZING

The total Delta P through a filter assembly is given from Housing Δp + Element Δp.
The max recommended total Δp for suction filters is 0,15 bar with clean element.

HOUSING PRESSURE DROP

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

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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 V1 different than 32 cSt a corrective factor V1/32 must be applied.
Example: 50 l/min with S531C25 and oil viscosity 46 cSt > 50 x 0,11/1000 x 46/32 = 0,008 bar

	C10	C25	T60	T125	T250	G40
S531	0,38	0,11	0,08	0,06	0,04	0,13

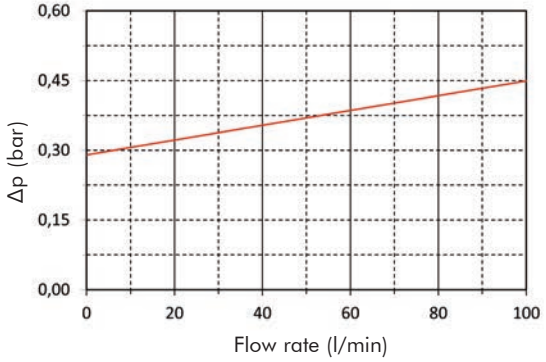
EXAMPLE OF TOTAL Δp CALCULATION

FS531C25BB600B0T000S0 with 50 l/min and oil 46 cSt
Housing Δp 0,014 bar + element Dp 0,008 bar (50 x 0,11/1000 x 46/32) = total assembly Δp 0,022 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.

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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



1 COVER ASSEMBLY
2 GASKETS
3 ELEMENT
4 HOLDER
5 STOPPER
6 HOUSING

SPARE SEAL KIT (2)	
NBR	06.021.00420

INDICATOR TIGHTENING TORQUE
10 Nm

COVER TIGHTENING TORQUE
20 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. The filter housing (6) must be properly positioned and well secured on the tank side wall through the fixing holes.
⚠ 2. The OUT port must be properly connected to the suction line.
3. Verify that no tension is present on the filter after mounting.
4. Enough space must be available for filter element 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. Keep in stock a spare FILTREC filter element for timely replacement when required.
8. Filter housing should be earthed.

OPERATION

⚠ 1. The filter must work within the operating conditions of pressure, temperature and compatibility given in the first page of this data sheet.
2. The filter element must be replaced as soon as the clogging indicator signals at working temperature.
3. If no clogging indicator is mounted, replace the element according to the system manufacturer's recommendations.

MAINTENANCE

⚠ 1. Before removing the top cover (1) from the housing (6), ensure that the system is switched off and there is no residual pressure in the filter.
⚠ 2. Unscrew the cover (1) by turning it anticlockwise.
3. Remove the dirty element (3) by pulling it carefully.
4. Fit a new FILTREC element (3), verifying the part number, particularly concerning the micron rating.
5. Check the seals (2) conditions and replace if necessary.
6. Lubricate the threads and screw completely the cover (1) in the filter housing by turning it clock wise.
7. The used filter elements cannot be cleaned and re-used.

FILTREC®

Technical information may change without notice

CT116-rev.10/26