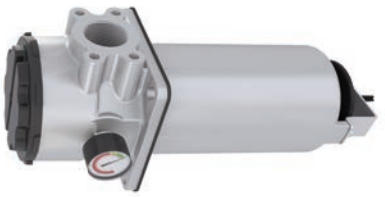


FS7 SERIES

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 200 l/min.

TECHNICAL INFORMATION

HOUSING

HYDRAULIC SYMBOL:	
CONNECTION PORTS:	G 1" - G 1 1/4" - G 1 1/2" - SAE flange 1 1/2" 3000 psi
MATERIALS:	Cover: PA6 polyammide Housing: aluminium alloy Seal: NBR (FKM on request)
BYPASS:	No by-pass or 0,3 bar setting

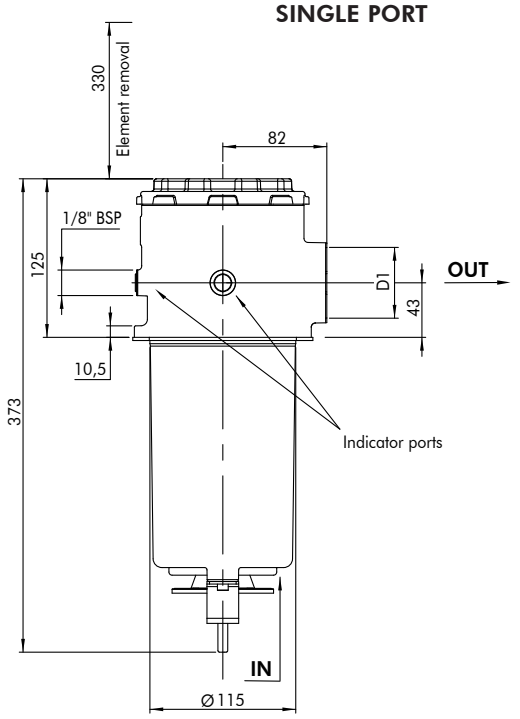
ELEMENT

tested according to ISO 2941, 2942, 2943, 3968, 16889, 23181

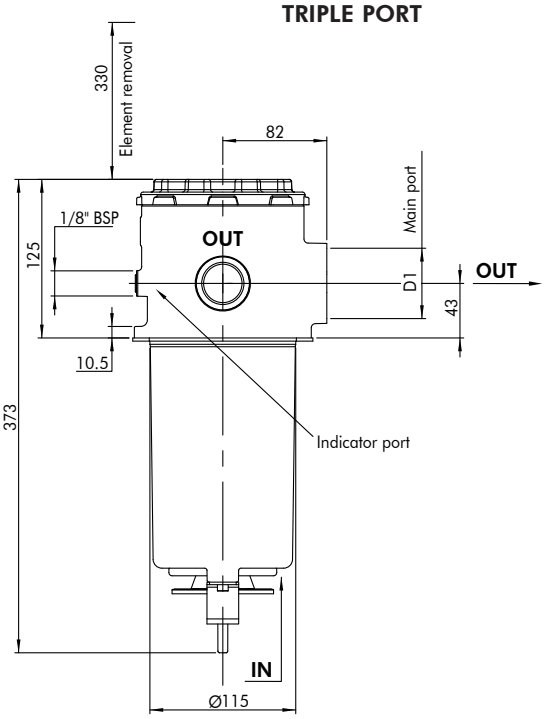
FILTER MEDIA:	Cellulose C10 - C25 Wire mesh T60 - T125 - T250
OPERATING TEMPERATURE RANGE:	-25°C +100°C
FLUID COMPATIBILITY:	Full with HH-HL-HM-HV (acc. To ISO 2943). For use with other fluid please contact Filtrec Customer Service (info@filtrec.it).

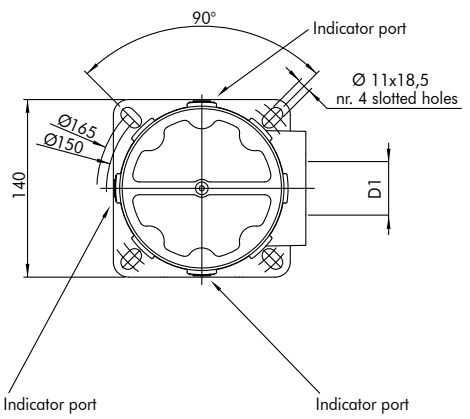
OVERALL DIMENSIONS

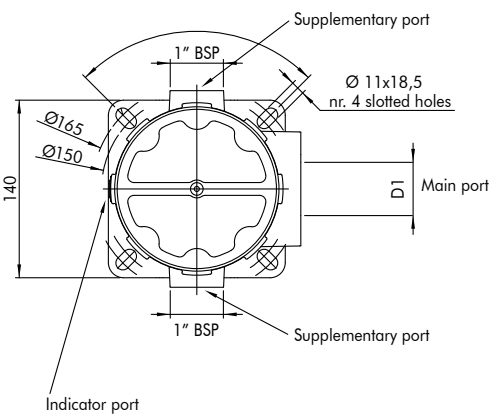
SINGLE PORT



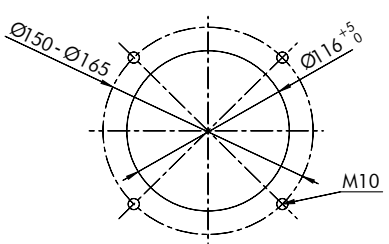
TRIPLE PORT



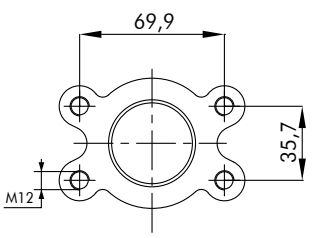




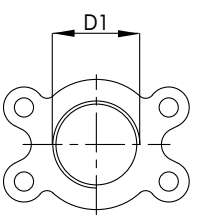
TANK MOUNTING PATTERN



D1 MAIN PORT



FLANGE CONNECTION
F7=1 1/2" SAE J518 - 3000/M12



THREAD CONNECTION

B5	1" BSP
B6	1 1/4" BSP
B7	1 1/2" BSP

ORDERING INFORMATION

1.	2.	3.	4.	5.	6.	7.	8.	9.
FS7	**41**	**C10**	**B**	**B7**	**B**	**M**	**P**	**PSD**
S7	**41**	**C10**	SPARE ELEMENT					

1. FILTER SERIES	FS7	
2. FILTER SIZE	41	
3. FILTER MEDIA	000	no element
	C10	paper $ß_{10\mu m(c)} > 2$
	C25	paper $ß_{25\mu m(c)} > 2$
	T60	wire mesh 60 μm
	T125	wire mesh 125 μm
	T250	wire mesh 250 μm
4. SEALS	B	NBR
5. CONNECTIONS	B5	G 1″
	B6	G 1 1/4″
	B7	G 1 1/2″
	F7	SAE flange 1 1/2″ 3000 psi
	C5	3 x G 1″
	C6	G 1 1/4″ + 2 x G 1″
	C7	G 1 1/2″ + 2 x G 1″
	G7	SAE flange 1 1/2″ + 2 x G 1″
6. BYPASS VALVE	0	no by-pass
	B	0,3 bar
7. MAGNET	0	no magnet
	M	with magnet
8. INDICATOR PORT	P	rear (standard)
	T	right + rear + left (single port only)
9. INDICATOR	000	no indicator
	MPS (ex S1)	vacuum gauge scale 0÷-1 bar
	PDS (ex S13)	vacuum switch -0,2 bar

ACCESSORIES	LC24	LED connector

The accessories must be ordered separately

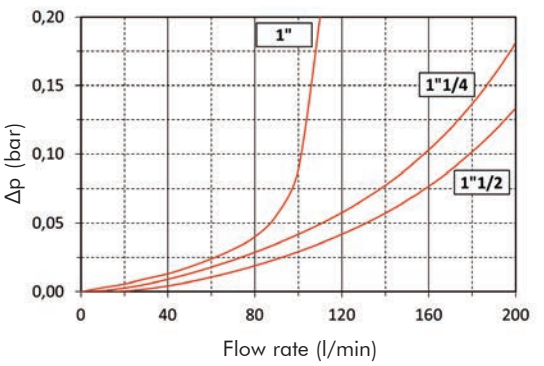
PRESSURE DROP (Δp) INFORMATION FOR FILTER SIZING

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.

FS7 41



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 V1different than 32 cSt a corrective factor V1/32 must be applied.
Example: 80 l/min with S741T60 and oil viscosity 46 cSt > 80 x 0,075/1000 x 46/32 = 0,09 bar

	C10	C25	T60	T125	T250
S741	0,375	0,100	0,075	0,050	0,003

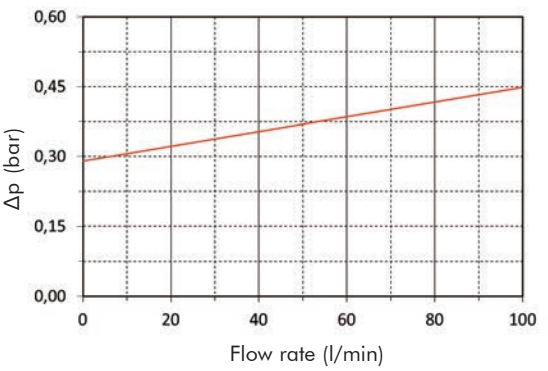
EXAMPLE OF TOTAL Δp CALCULATION

FS741T60BB7BMPPSD with 80 l/min and oil 46 cSt
Housing Δp 0,02 bar + element Dp 0,09 bar (80 x 0,075/1000 x 46/32) = total assembly Δp 0,11 bar

BYPASS VALVE PRESSURE DROP

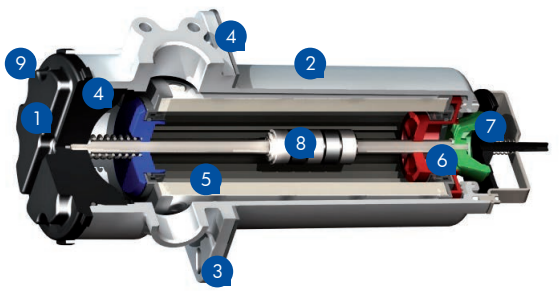
The bypass valve Δp is given by the curve of the considered model and setting, in correspondence of the flow rate value.

FS7 41



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
2. HOUSING
3. FIXING HOLES
4. SEAL
5. FILTER ELEMENT
6. BY-PASS VALVE
7. SHUT-OFF VALVE
8. MAGNETIC COLUMN
9. INDICATOR PORT

SPARE SEAL KIT PART NUMBER	
NBR	07.010.00238

INDICATOR TIGHTENING TORQUE
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. the filter housing (2) 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

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 (2), 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 (5) by pulling it carefully
4. fit a new FILTREC element(5), verifying the part number, particularly concerning the micron rating
6. check the seal (4) conditions and replace if necessary
7. lubricate the threads and screw completely the cover (1) in the filter housing by turning it clockwise
8. the used filter elements cannot be cleaned and re-used

CT35-rev.00-07/20