SUCTION FILTERS SC

HEAVY SERIES

MATERIALS

SC51 & SC61
Housing: Steel
Cover: Aluminium

Shut-off valve:
Polyammide

Seals:
NBR Nitrile
(FKM - on request fluoroelastomer)

Indicator housing:
Brass

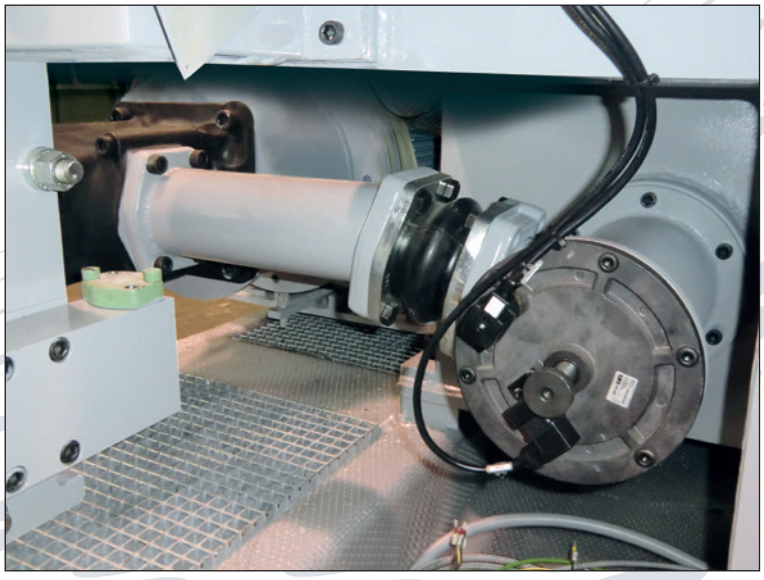
PRESSURE (ISO 10771-1:2002)

Collapse, differential
for the filter element (ISO 2941):
100 kPa (1 bar)

WORKING TEMPERATURE

From -25° to + 110° C

APPLICATION EXAMPLE

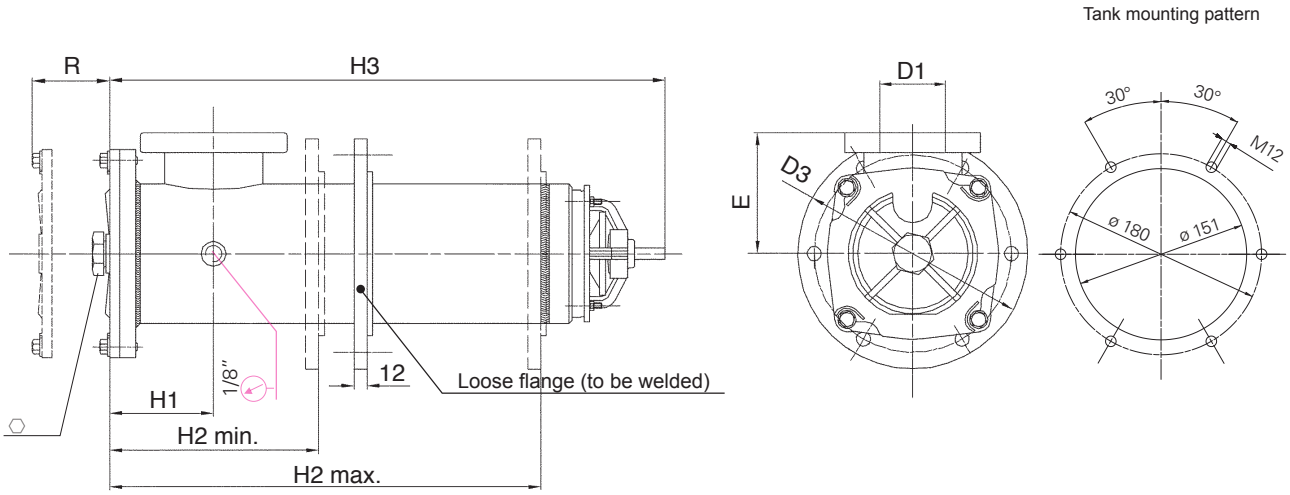


COMPATIBILITY (ISO 2943:1999)

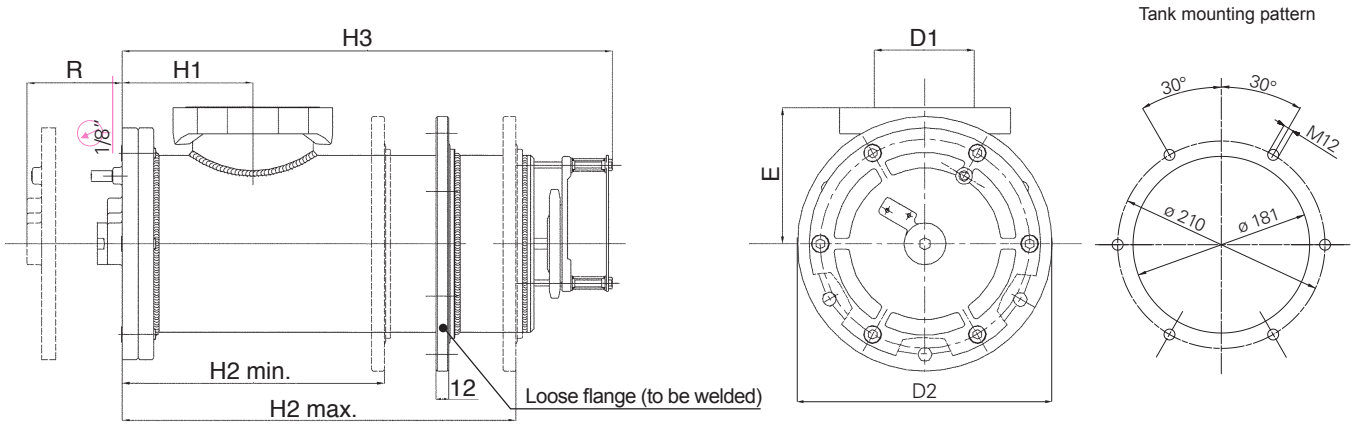
Full with fluids: HH-HL-HM-HV-HTG
(according to ISO 6743/4)
For fluids different than the above mentioned, please contact our Sales Department.

HEAVY SERIES

FSC 51



FSC 61



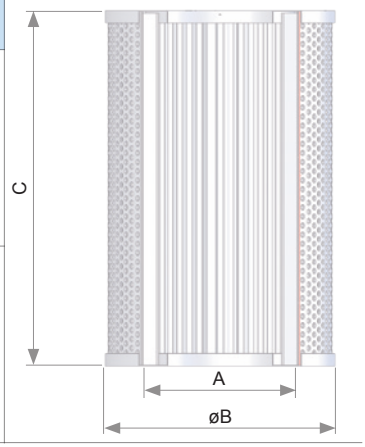
FILTER HOUSING

	D1	D2	E	H1	H2*	H3	R	⬡	kg
FSC51	3”	210	110	95	174 ÷ 355	480	500	32	13,0
FSC61	4”	242	130	122	250 ÷ 405	470	500	32	16,0

	TYPE			
	F = FILTER COMPLETE	F	F	
	B = FILTER HOUSING	B	B	ELEMENT E
S C	FAMILY, NOMINAL SIZE & LENGTH			FAMILY SIZE & LENGTH S C
		51	61	
F	PORT TYPE			
	F = SAE flange 3000 psi	F	F	
	PORT SIZE			
	24 = 3"	24	-	
	32 = 4"	-	32	
W	BYPASS VALVE			
	W = without	W	W	
	SEALS			SEALS
	N = NBR Nitrile	N	N	X = not applicable
	F = FKM Fluoroelastomer	F	F	
	G = treatment for water-glycol	G	G	G = for water glycol
	FILTER MEDIA			FILTER MEDIA
	ME = metal wire mesh 60 μm	ME	ME	ME=w. mesh 60 μm
	MF = metal wire mesh 90 μm	MF	MF	MF= w. mesh 90 μm
	MG = metal wire mesh 250μm	MG	MG	MG=w. mesh 250 μm
	CLOGGING INDICATOR			
	01 = 1/8" port , plugged	-	01	
	04 = nr. 2 x 1/8" seats, plugged	04	-	
	10 = vacuum gauge, rear connection	10	10	
	91 = SPDT, vacuum switch	91	91	
	ACCESSORIES			
	W = without	W	W	
	M = magnetic core	M	M	
	ACCESSORIES			
	W = without	W	W	
	S = safety microswitch	S	S	

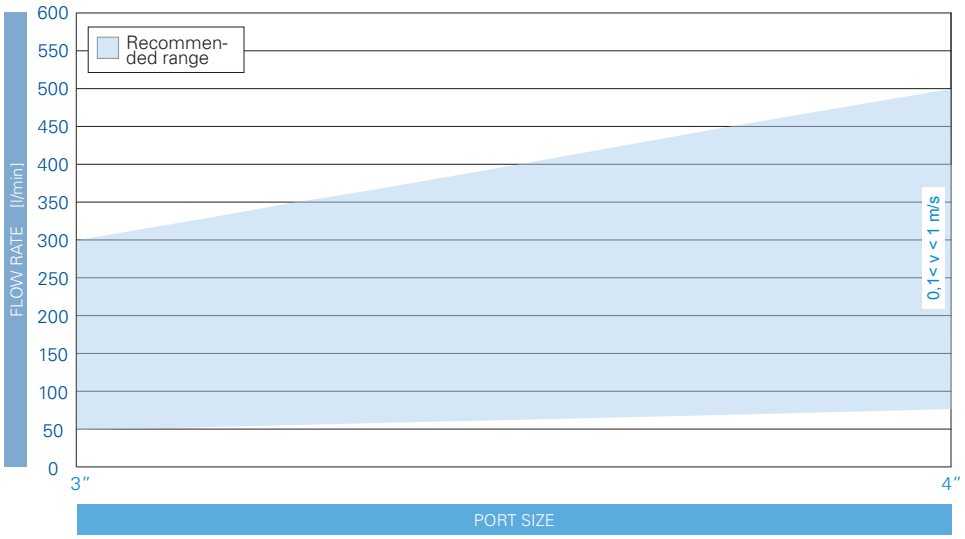
FILTER ELEMENT

	A	B	C	kg	Area (cm²) Media M+
ESC51	65	99	375	0,90	3.545
ESC61	93	136	375	1,50	5.065



FLUID SPEED

when selecting the filter size, we suggest to consider also the max recommended fluid speed (in suction lines normally 0,1< v < 1 m/s)

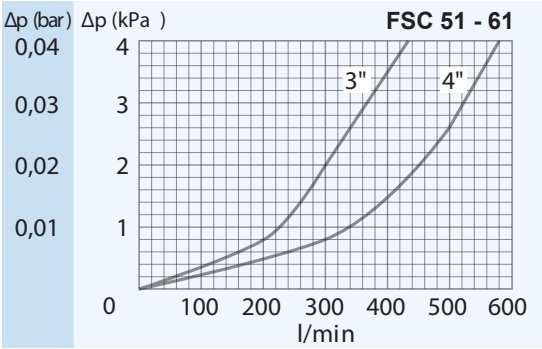


PRESSURE DROP CURVES (Δp)

The “Assembly Pressure Drop (Δp)” is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must be lower than 3 kPa (0,03 bar).

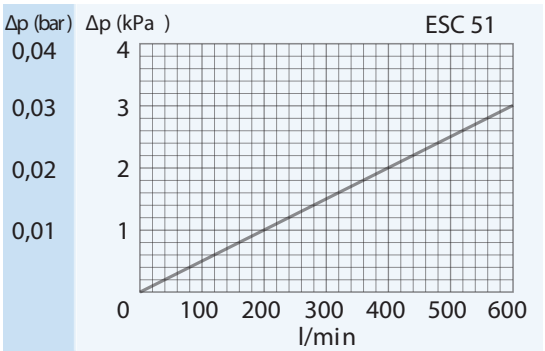
FILTER HOUSING PRESSURE DROP

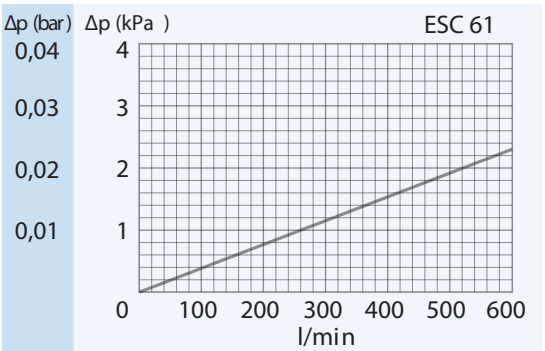
(mainly depending on the port size)



CLEAN FILTER ELEMENT PRESSURE DROP

(pressure drop values of the elements by ME - MF - MG media are very similar)





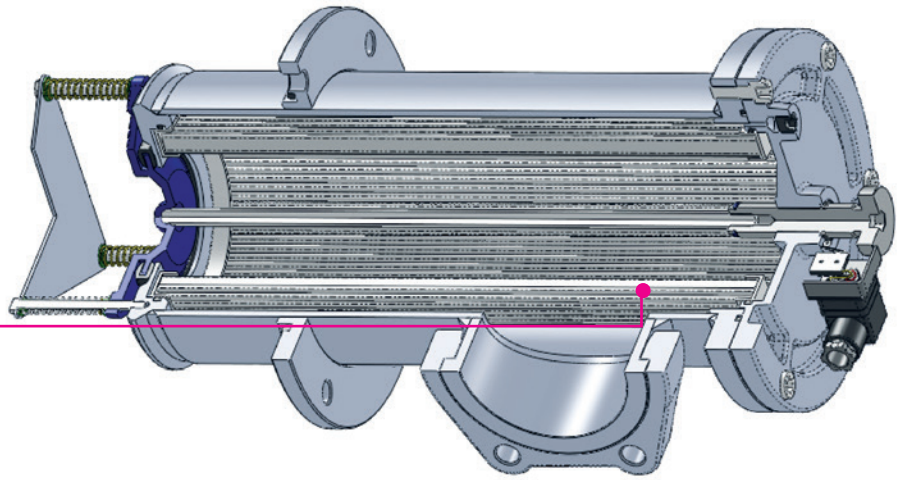
N.B. All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,9 kg/dm^3; for fluids with different features, please consider the factors described in the first part of this catalogue.

CLOGGING INDICATOR
A visual or electrical indicator allows monitoring of the element condition.
The port for the indicator is a standard feature.

EASY MAINTENANCE
Operated by a hexagonal cover stud the shut-off valve isolates the tank oil allowing easy element replacement without emptying the reservoir.

FAST REPLACEMENT
Loosening four screws will allow removal of quick release cover and replacement element.

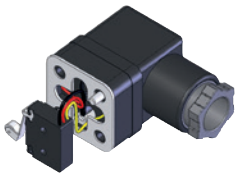
MAGNETIC CORE
The optional magnetic core is an additional safeguard that prefilters magnetic particles.



CLOGGING INDICATOR
For further technical informations and other options see page 187.

SERIES 10

SERIES 91

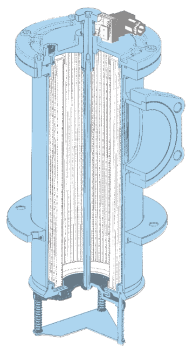
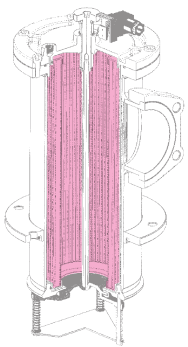
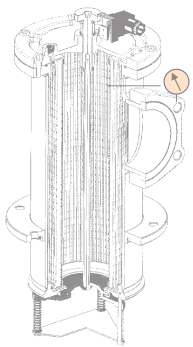
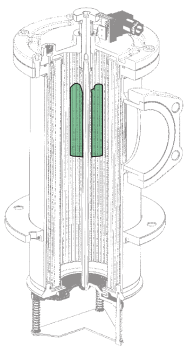
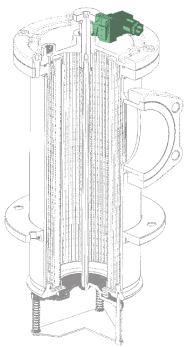


SAFETY MICROSWITCH

SPARE SEAL KIT

	NBR	FKM
FSC51	521.0089.2	521.0092.2
FSC61	521.0024.2	521.0093.2

SPARE PARTS ELEMENTS (For filling up see table “Ordering and option chart”)

FILTER HOUSING	FILTER ELEMENT	CLOGGING INDICATOR	ACCESSORY	ACCESSORY
				
B S C F W	E S C X	□□	□ MAGNETIC CORE	□ SAFETY MICROSWITCH