

RETURN FILTERS RC



MATERIALS

Head: Aluminium alloy

Spin-on cartridge: Steel

Bypass valve: Polyammide

Seals: NBR Nitrile

Indicator housing: Brass

PRESSURE (ISO 10771-1:2002)

Max working: 700 kPa (7 bar)

Test: 1 MPa (10 bar)

Bursting: 2,1 MPa (21 bar)

Collapse, differential for the filter element (ISO 2941): 300 kPa (3 bar)

BYPASS VALVE

Setting: 170 kPa (1,7 bar) ± 10%

WORKING TEMPERATURE

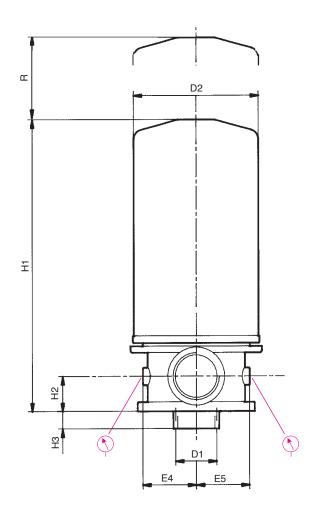
From -25° to +110° C

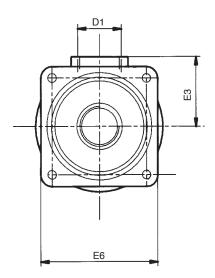
COMPATIBILITY (ISO 2943:1999)

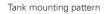
Full with fluids: HH-HL-HM-HV-HTG (according to ISO 6743/4) For fluids different than the above mentioned, please contact our Sales Department.

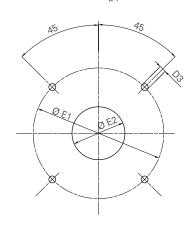
APPLICATION EXAMPLE











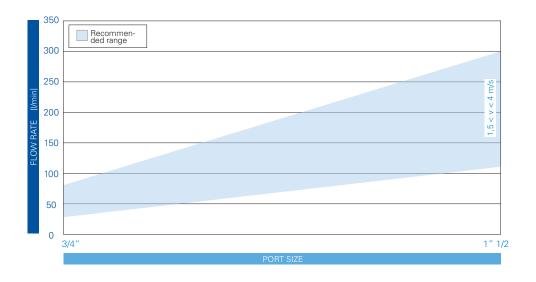
FILTER HOUSING														
	D1	D2	D3	H1	H2	НЗ	E1	E 2	E 3	E4	E 5	E6	R	kg
FRC11	3/4"	95	7	196	25	18	99	40÷45	50	38	38	90	15	0,3+1,0
FRC12	3/4"	95	7	241	25	18	99	40÷45	50	38	38	90	15	0,3+1,3
FRC21	1" 1/2	130	9	252	36	18	141	65÷70	72	56	56	124	30	0,8+1,3
FRC22	1" 1/2	130	9	297	36	18	141	65÷70	72	56	56	124	30	0,8+1,4

	Г	TYPE	l					
		F = FILTER COMPLETE	F	F	F	F	<u> </u>	
	B = FILTER HOUSING		В	В	В	В	ELEMENT	Е
С		FAMILY					FAMILY	R C
		SIZE & LENGTH	11	12	21	22	SIZE & LENGTH	
	В	PORTTYPE					_	_
		B = BSP thread	В	В	В	В		
		PORT SIZE						
		06 = 3/4"	06	06	-	-		
		12 = 1"1/2	-	-	12	12		
	В	BYPASS VALVE					_	
		B = 170 kPa (1,7 bar)	В	В	В	В		
	Ν	SEALS					SEALS	N
_		N = NBR Nitrile	N	N	N	N	N = NBR	
		EUTED MEDIA	1				=========	
Ш		FILTER MEDIA	FD		ED		FILTER MEDIA	
		FB = fiber $7\mu m_{(c)} \beta > 1.000$	FB	FB	FB	FB	FB = fiber $7 \mu m_{(c)}$	-
		FC = fiber $12 \mu m_{(c)} \beta > 1.000$	FC	FC	FC	FC	FC = fiber $12 \mu m_{(c)}$	-
		FD = fiber 21 μ m _(c) β > 1.000	FD	FD	FD	FD	FD = fiber 21 μ m _(c)	
		CC = cellulose $10\mu \text{m }\beta > 2$	CC	CC	CC	CC	CC = cellulose 10 µm	-
		CD = cellulose $25\mu \text{m}$ β >2	CD	CD	CD	CD	CD = cellulose 25μ m	
		CLOGGING INDICATOR	1					
_	_	05 = nr. 2 x 1/8" ports, plugged	05	05	05	05	٦	
		30 = pressure gauge, rear connection	30	30	30	30	┪	
		P1 = SPDT, pressure switch	P1	P1	P1	P1	┥	
							_	
3.6	Х	ACCESSORIES	1					
X		X X = no accessory available					_	

FILTER ELEMENT							
	Α	А В		kg		(cm²)	
		_	С	9	Media F+	Media C+	
ERC11	96,5	3/4" BSP	146	1,00	2.140	3.305	
ERC12	96,5	3/4" BSP	191	1,20	3.630	4.745	0
ERC21	129	1"1/4 BSP	181	1,40	4.450	5.560	
ERC22	129	1"1/4 BSP	226	1,50	5.890	7.360	BAA

FLUID SPEED

when selecting the filter size, we suggest to consider also the max recommended fluid speed (in return lines normally 1,5 < v < 4 m/s)

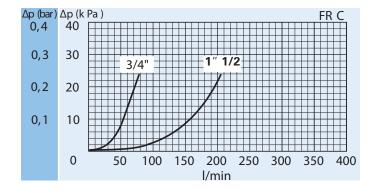


PRESSURE DROP CURVES (△p)

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 50 kPa (0,5 bar).

FILTER HOUSING PRESSURE DROP

(mainly depending on the port size)

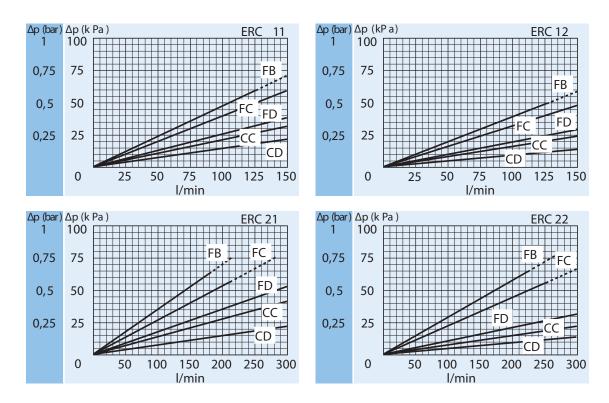


PRESSURE DROP CURVES (Ap)

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 50 kPa (0,5 bar).

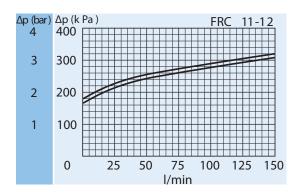
CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ AND C+ MEDIA

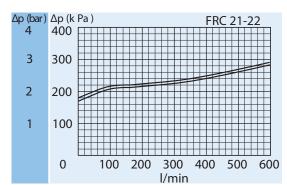
(depending both on the internal diameter of the element and on the filter media)



BYPASS VALVE PRESSURE DROP

When selecting the filter size, these curves must be taken into account if it is foreseen that any flow peak is to be absorbed by the bypass valve, it also must be of proper configuration to avoid pressure peaks. The valve pressure drop is directly proportional to fluid specific gravity.







CLOGGING INDICATOR

A visual or electrical indicator is available as an option and allows monitoring of the element condition. The port for the indicator is a standard feature.

QUICK MAINTENANCE

The spin-on type filter element ensures a quick and easy replace-

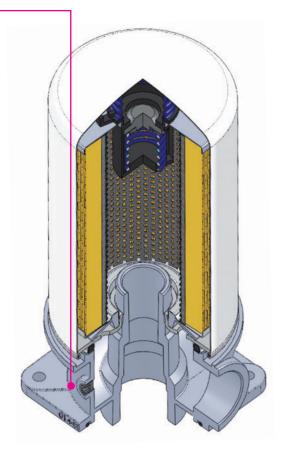
EASY REPLACEMENT

A anti-drain membrane keeps the oil inside the cartridge and avoid oil losses during the replacement.

CLOGGING INDICATOR

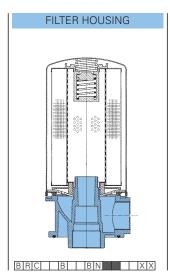
For further technical informations and other options see page 184.

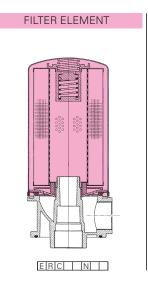


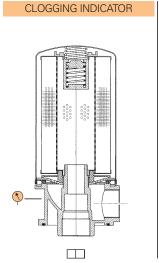


SPARE SEAL KIT

	NBR
FRC11	521.0018.2
FRC12	521.0018.2
FRC21	521.0036.2
FRC22	521.0036.2







SPARE PARTS ELEMENTS (For filling up see table "Ordering and option chart") Technical data subject to variations without prior notice. RC - EN - 03/2011