



DESCRIPTION

Tank top return spin-on filter

MATERIALS

Head: Aluminum alloy Spin-on cartridge: Steel Bypass valve: Polyamide Seals: NBR Nitrile Indicator housing: Brass

PRESSURE

Max. working: 700 kPa (7 bar)
Collapse, differential for the filter element (ISO 2941): 300 kPa (3 bar)

BYPASS VALVE

Setting: 170 kPa (1,7 bar) ± 10%

FLOW RATE

Qmax 200 l/min

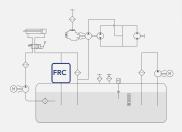
WORKING TEMPERATURE

From -25° to +110° C

COMPATIBILITY (ISO 2943)

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

HYDRAULIC DIAGRAM



Is this datasheet the latest release? Please check on our website



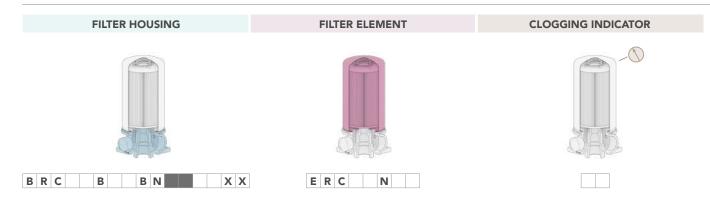




ORDERING AND OPTION CHART

R	С	COMPLETE FILTER FAMILY					FILTER ELEMENT FAMILY	Е	R	
		SIZE & LENGTH	11	12	21	22	SIZE & LENGTH			
	В	PORT TYPE								
		B = BSP thread	В	В	В	В				
		PORT SIZE								
		06 = 3/4"	06	06 06						
		12 = 1"1/2	-	-	12	12				
	В	BYPASS VALVE					_			
		B = 170 kPa (1,7 bar) with anti-drain membrane	В	В	В	В				
	N	SEALS					SEALS			
		N = NBR Nitrile	N	N	N	N				
		FormulaUFI MEDIA					FormulaUFI MEDIA			
		FB = FormulaUFI.MICRON 7 μm _(c) β>1.000	FB	FB	FB	FB				
		FC = FormulaUFI.MICRON 12 μm _(c) β>1.000	FC	FC	FC	FC				
		FD = FormulaUFI.MICRON 21 μm _(c) β>1.000	FD	FD	FD	FD				
		CC = FormulaUFI.CELL 10 μ m β >2	CC	CC	CC	CC				
		CD = FormulaUFI.CELL 25 μm β>2	CD	CD	CD	CD				
		CLOGGING INDICATOR					-			
		05 = nr. 2 x 1/8" ports, plugged	05	05	05	05				
		30 = pressure gauge, rear connection	30	30	30	30				
		P1 = SPDT pressure switch	P1	P1	P1	P1				
Х	Х	ACCESSORIES					-			
		XX = no accessory available	XX	XX	XX	XX	7			

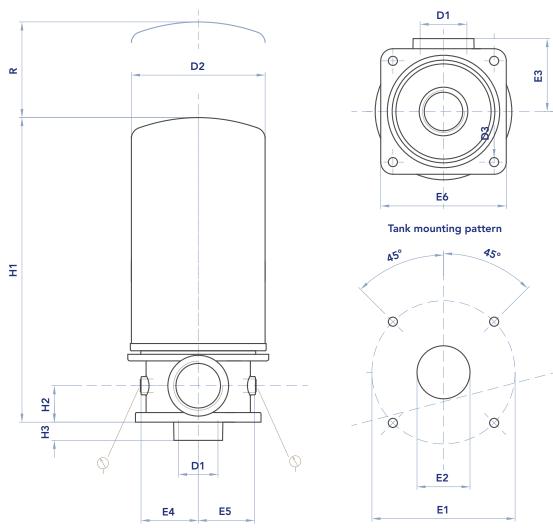
SPARE PARTS



SPARE SEAL KIT

	NBR		NBR		
FRC11 - 12	521.0018.2	FRC21 - 22	521.0036.2		

INSTALLATION DRAWING



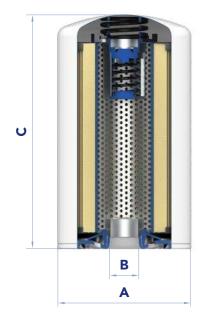
FILTER HOUSING

	D1	D2	D3	H1	H2	Н3	E1	E2	E3	E4	E 5	E6	R	Kg
FRC11	3/4"	96	7	196	25	18	99	40÷45	50	38	38	90	15	1,3
FRC12	3/4"	96	7	241	25	18	99	40÷45	50	38	38	90	15	1,6
FRC21	1"1/2	129	9	252	36	18	141	65÷70	72	56	56	124	30	2,1
FRC22	1"1/2	129	9	297	36	18	141	65÷70	72	56	56	124	30	2,2



FILTER ELEMENT

	A	В	С	Kg		(cm²) Media C+		
ERC11	96,5	3/4" BSP	146	1,00	2.600	3.100		
ERC12	96,5	3/4" BSP	191	1,20	3.630	4.745		
ERC21	129	1"1/4 BSP	181	1,40	4.450	5.560		
ERC22	129	1"1/4 BSP	226	1,50	5.088	7.360		



MAINTENANCE

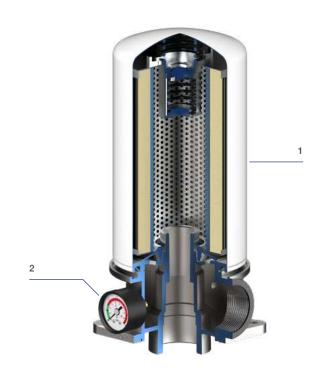
- 1) Stop the system and verify there is no pressure in the filter.
- 2) Collect the oil inside the filter with a suitable container.
- 3) Unscrew the dirty filter element (1).
 - N.B. The exhausted filter elements and the oil dirty filter parts are classified "Dangerous waste material" and must be disposed of according to the local laws, by authorized Companies.
- Check the filter element part number on the silk-screen printing or in the ordering and option chart.
 Use only original spare parts.
- 5) Lubricate the element o-ring gasket with oil.
- 6) Screw the clean filter element until the first contact of the gasket with the flange.
- 7) Tighten strongly for % of a turn (indicative tightening torque of 18 Nm).

Accessories:

Clogging indicator.

If damaged, unscrew and replace it (check the part number in the ordering and option chart).

Apply a thread-sealing and screw until tight. N.B. An over-tightening can damage the thread.

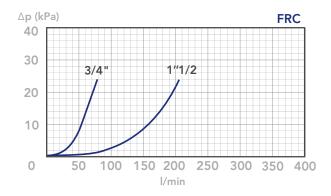


PRESSURE DROP CURVES (ΔP)

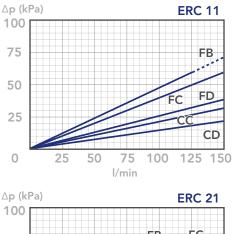
The "Assembly Pressure Drop (Δp)" is obtained by adding the pressure drop values of the Filter Housing and of the Clean Filter Element corresponding to the considered Flow Rate and it must

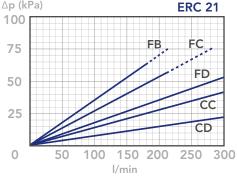
be lower than 50 kPa (0,5 bar). In any case this value should never exceed 1/3 of the bypass valve setting.

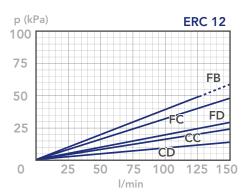
FILTER HOUSING PRESSURE DROP (mainly depending on the port size)

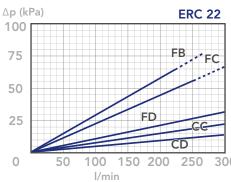


CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ AND C+ MEDIA (depending both on the internal diameter of the element and on the filter media)





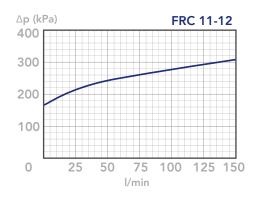


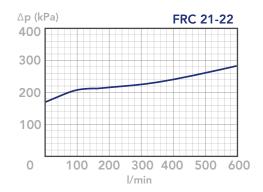




BYPASS VALVE PRESSURE DROP

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.





N.B.

LubeTeam Hydraulic S.r.l.

Administration and Headquarter: Via Tufara Scautieri, 6 83018 - San Martino Valle Caudina (AV) Office and Warehouse: S.S. 7 Appia, Km. 237,00 82011 - Airola BN ITALY

Tel. +39 0823 950 994 Fax +39 0823 412 546

www.lubeteam.it info@lubeteam.it

Italian VAT / C.F. e P.IVA: 01251720627

Follow us









This document is the property of LubeTeam Hydraulic S.r.l. All data reported here are for the exclusive use of the Receiver. Reproduction is not authorized without writing permission, in all or in part of the content of this document, in accordance to Law 633 art. 171, dated April 22, 1941.

Il presente documento è di proprietà della LubeTeam Hydraulic S.r.l. I dati riportati sono per esclusivo del destinatario. La riproduzione, di tutto o in parte, non è autorizzata senza permesso scritto secondo l' art. 171 della L. 633 del 22 Aprile 1941.