



RB

MATERIALS

Head: Aluminium alloy

Cover & bowl: Polyammide

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

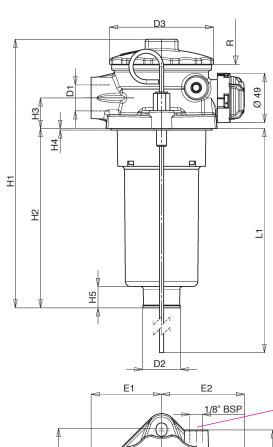
COMPATIBILITY (ISO 2943:1999)

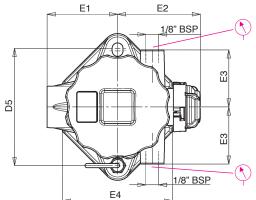
Full with fluids: HH-HL-HM-HV-HTG (according to ISO 6743/4)
For fluids different than the above mentioned, please contact our Sales Department.

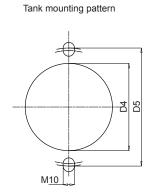












FILTER HOUSING																		
		D1	D2	D3	D4	D5	E1	E2	E3	E4	Н1	H2	Н3	H4	Н5	L1	R	kg
	FRB11	1/2" - 3/4"	28	75	61	82÷88	50	70	28	77	243	178	24	2	16	380	220	0,40
	FRB21	3/4" - 1"	36	104	89	110÷115	70	83	37	108	200	110	30	1,5	22	370	190	0,84
	FRB22	3/4" - 1"	36	104	89	110÷115	70	83	37	108	265	175	30	1,5	22	370	240	0,87
	FRB23	3/4" - 1"	36	104	89	110÷115	70	83	37	108	365	275	30	1,5	22	370	350	0,92

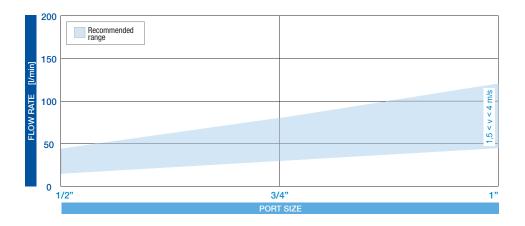
	Г	TYPE						
	_	F = FILTER COMPLETE	F	F	F	F		
		B = FILTER HOUSING	В	В	В	В	ELEMENT	Е
R B FAMILY						FAMILY	R B	
		NOMINAL SIZE & LENGTH	11	21	22	23	SIZE & LENGTH	
		PORTTYPE						-
		B = BSP thread	В	В	В	В		
		N = NPT thread	N	N	N	N		
		S = SAE thread	S	S	S	S		
		PORT SIZE						
		04 = 1/2"	04	-	-	•		
		06 = 3/4"	06	06	06	06		
		08 = 1"	-	08	08	08		
	E	B BYPASS VALVE						
		B = 170 kPa (1,7 bar)- 250 kPa (2,5 bar) for media F+	В	В	В	В		
	Ν	SEALS					SEALS	N
		N = NBR Nitrile	N	N	N	N	N = NBR	Г
_	_		I					
L		FILTER MEDIA		1			FILTER MEDIA	
		FA = fiber $5 \mu m_{(c)} \beta > 1.000$	FA	FA	FA	FA	FA = fiber $5 \mu m_{(c)}$	l
		FB = fiber $7 \mu m_{(c)} \beta > 1.000$	FB	FB	FB	FB	FB = fiber $7 \mu m_{(c)}$	ļ
		FC = fiber $12 \mu m_{(c)} \beta > 1.000$	FC	FC	FC	FC	FC = fiber $12 \mu m_{(c)}$	ļ
		FD = fiber 21 μ m _(c) β >1.000	FD	FD	FD	FD	FD = fiber 21 μ m _(c)	ļ
		CC = cellulose 10 μ m β >2	СС	CC	CC	CC	CC = cellulose 10 μm	4
		CD = cellulose $25\mu m \beta > 2$	CD	CD	CD	CD	CD = cellulose $25 \mu m$	
-	_	OL COCINIO INDICATORO	1					
L		CLOGGING INDICATORS	0.5	0.5	05	0.5	7	
		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	_	
		P6 = SPDT, pressure switch	P6	P6	P6	P6		
	Г	ACCESSORIES						
		W = without	W	W	W	W		
		C = with paper air filter	С	С	С	C	1	
		D = with metal air filter	D	D	D	D	1	
			<u> </u>				_	
	L	ACCESSORIES	• • •				7	
		W = without	W	W	W	W	4	
		H = with dipstick	Н	Н	Н	Н	_	

FILTER ELEMENT									
	Α	В	С	kg	Area Media F+	(cm²) Media C+			
ERB11	43	20	200	0,20	1.225	1.225			
ERB21	59	28	134	0,30	1.500	1.500			
ERB22	59	28	200	0,40	2.295	2.295			
ERB23	59	28	300	0,50	3.495	3.495			



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)

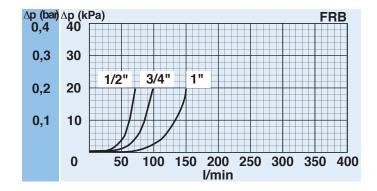


PRESSURE DROP CURVES (Δp)

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).

FILTER HOUSING PRESSURE DROP

(mainly depending on the port size)

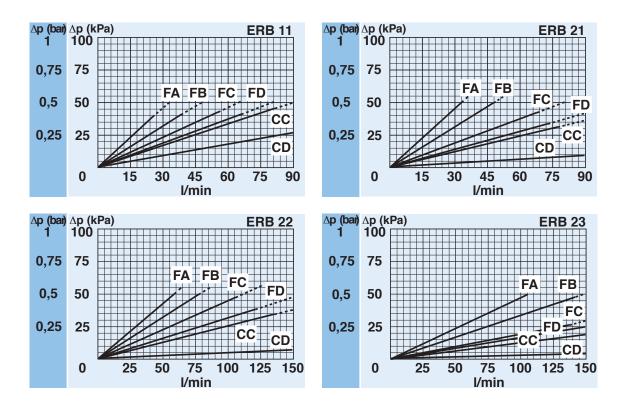


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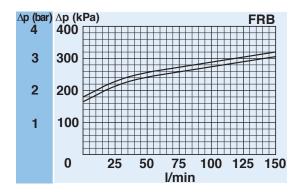
CLEAN FILTER ELEMENT PRESSURE DROP WITH F+ AND C+ MEDIA

(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.

DIPSTICK

The (optional) dipstick allows to check the oil level, with no need for a visual level gauge, thus saving space and costs.

EASY REPLACEMENT

The top end cap includes a handle allowing an easy removal of the element and complete cleaning of the bowl.

AIR BREATHER

The built in air breather joins in one product even the air filtration function.

QUICK MAINTENANCE

Thanks to a threaded cap no tool is needed when replacing the element.

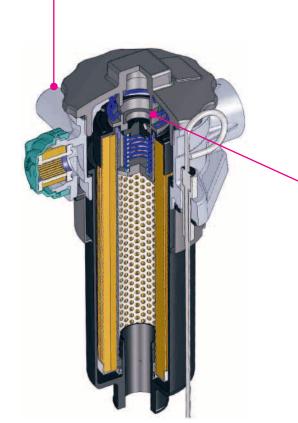
NO LEAKS

The end cap with captive 0-ring ensures a perfect sealing between filter element and bowl.

CLOGGING INDICATOR

For further technical informations and other options see page 184.





SPARE SEAL KIT

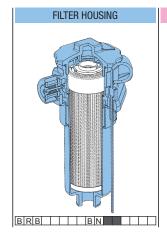
	NBR				
FRB11	521.0016.2				
FRB21	521.0017.2				
FRB22	521.0017.2				
FRB23	521.0017.2				

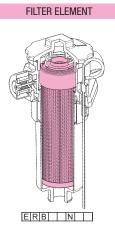
SPARE SPRING

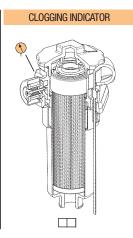
FRB11	008.0208.1
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FRB22	008.3014.1
FRB23	008.3014.1

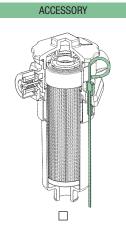
SPARE PARTS ELEMENTS

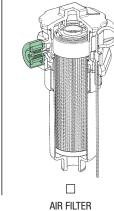
(For filling up see table "Ordering and option chart")











DIPSTICK



