FRB-RFA
RETURN FILTERS



MATERIALS

Head : Aluminium alloy
Cover and Bowl :Polyammide
Bypass valve: Polyammide
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%

WORKING TEMPERATURE

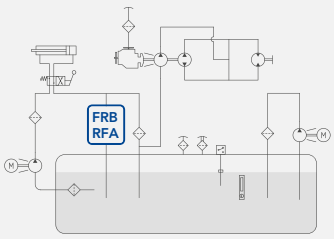
From -25° to +110° C

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.

FRB
RETURN FILTERS

ORDERING AND OPTION CHART

F	R	B	COMPLETE FILTER FAMILY					FILTER ELEMENT FAMILY	E	R	B
			SIZE & LENGHT	11	21	22	23	SIZE & LENGHT			
			PORT TYPE								
			B = BSP thread	B	B	B	B				
			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				
		B	BYPASS VALVE								
			B = 170 kPa (1,7 bar)- 250 kPa (2,5 bar) for media F+	B	B	B	B				
		N	SEALS					SEALS	N		
			N = NBR Nitrile	N	N	N	N				
			FILTER MEDIA					FILTER MEDIA			
			FA = fibreglass 5 µm(c) β>1.000	FA	FA	FA	FA				
			FB = fibreglass 7 µm(c) β>1.000	FB	FB	FB	FB				
			FC = fibreglass 12 µm(c) β>1.000	FC	FC	FC	FC				
			FD = fibreglass 21 µm(c) β>1.000	FD	FD	FD	FD				
			CC = impregnated cellulose 10 µm β>2	CC	CC	CC	CC				
			CD = impregnated cellulose 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				
			P4 = SPDT pressure switch	P4	P4	P4	P4				
			P6 = SPDT pressure switch	P6	P6	P6	P6				
			ACCESSORIES								
			W = without	W	W	W	W				
			C = with polyester air breather	C	C	C	C				
			D = with metal air breather	D	D	D	D				
			ACCESSORIES								
			W = without	W	W	W	W				
			H = with dipstick	H	H	H	H				

SPARE PARTS ELEMENTS

FILTER HOUSING	FILTER ELEMENT	CLOGGING INDICATOR	ACCESSORIES











B	R	B						B	N					

E	R	B			N		



RFA
RETURN FILTERS

ORDERING AND OPTION CHART

R	F	A	COMPLETE FILTER FAMILY					FILTER ELEMENT FAMILY	C	R	A
			SIZE & LENGHT	110	210	220	230	SIZE & LENGHT			
			FILTER MEDIA					FILTER MEDIA			
			FT = fibreglass 5 µm(c) β>1.000	FT	FT	FT	FT				
			FC = fibreglass 7 µm(c) β>1.000	FC	FC	FC	FC				
			FD = fibreglass 12 µm(c) β>1.000	FD	FD	FD	FD				
			FV = fibreglass 21 µm(c) β>1.000	FV	FV	FV	FV				
			CD = impregnated cellulose 10 µm β>2	CD	CD	CD	CD				
			CV = impregnated cellulose 25 µm β>2	CV	CV	CV	CV				
		1	SEALS					SEALS	1		
			1 = NBR Nitrile	1	1	1	1				
		B	BYPASS VALVE								
			B = 170 kPa (1,7 bar)- 250 kPa (2,5 bar) for media F+	B	B	B	B				
			PORT TYPE								
			B = BSP thread	B	B	B	B				
			N = NPT thread	N	N	N	N				
			S = SAE thread	S	S	S	S				
			PORT SIZE								
			3 = 1/2"	3	-	-	-				
			4 = 3/4"	4	4	4	4				
			5 = 1"	-	5	5	5				
			CLOGGING INDICATOR								
			05 = nr. 2 x 1/8" ports, plugged	05	05	05	05				
			30 = pressure gauge, rear connection	30	30	30	30				
			P4 = SPDT pressure switch	P4	P4	P4	P4				
			P6 = SPDT pressure switch	P6	P6	P6	P6				
			ACCESSORIES								
			S = without	S	S	S	S				
			C = with polyester air breather	C	C	C	C				
			D = with metal air breather	D	D	D	D				
			ACCESSORIES								
			S = without	S	S	S	S				
			H = with dipstick	H	H	H	H				

SPARE SEAL KIT

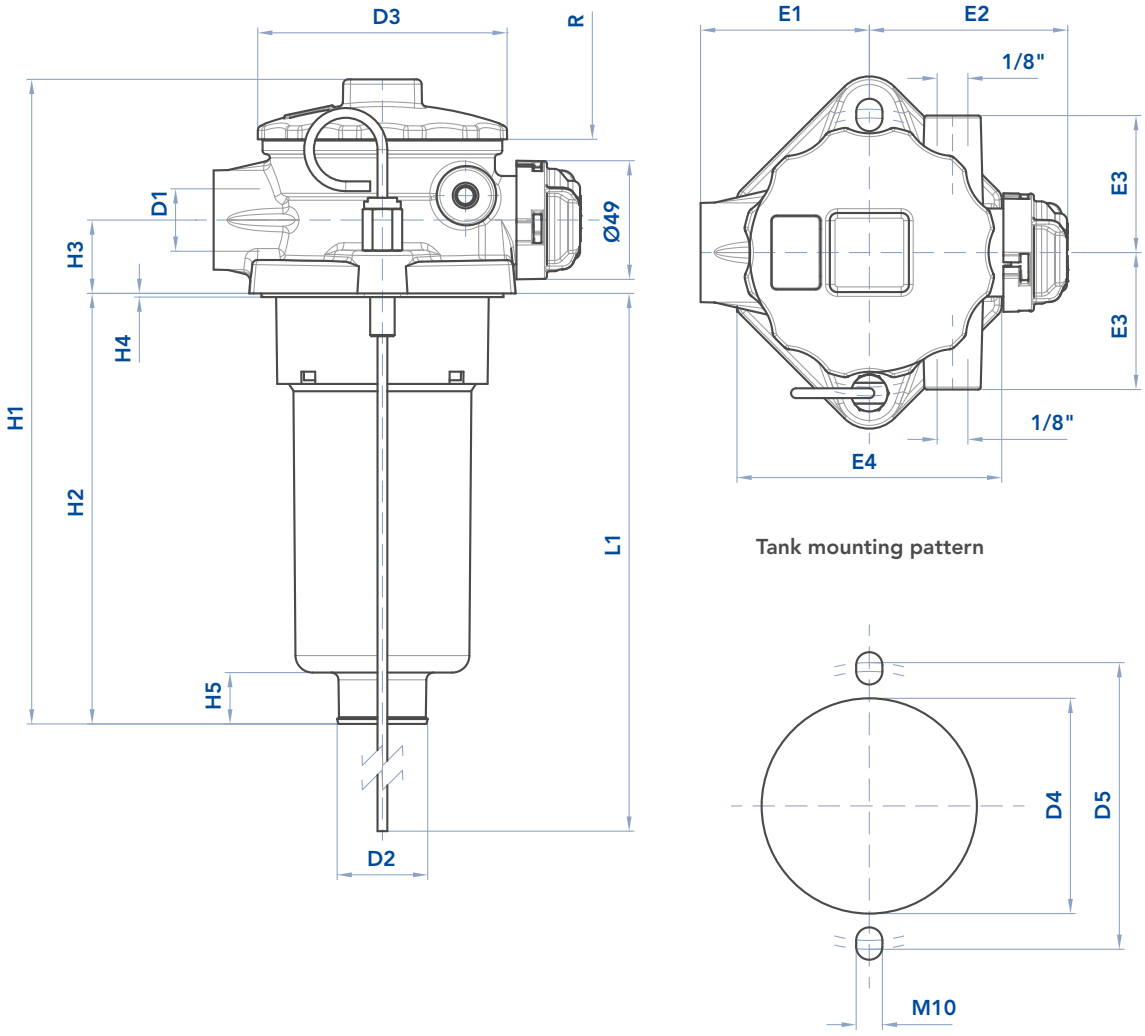
	NRB
FRB11 RFA110	521.0016.2
FRB21 RFA210	521.0017.2
FRB22 RFA220	521.0017.2
RB23 RFA230	521.0017.2

SPARE SPRING

FRA11 RFM004	008.0208.1
FRA21 RFM008	008.3014.1
FRA31 RFM012-015	008.3014.1
FRA32 RFM020-025	008.3014.1

FRB-RFA
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INSTALLATION DRAWING



FILTER HOUSING

	D1	D2	D3	D4	D5	E1	E2	E3	E4	H1	H2	H3	H4	H5	L1	R	Kg
FRB11 RFA110	1/2" - 3/4"	28	75	60÷63	82÷88	50	70	28	77	243	178	24	2	16	380	220	0,40
FRB21 RFA210	3/4" - 1"	36	104	87÷91	110÷115	70	83	37	108	200	110	30	1,5	22	370	190	0,84
FRB22 RFA220	3/4" - 1"	36	104	87÷91	110÷115	70	83	37	108	265	175	30	1,5	22	370	240	0,87
FRB23 RFA230	3/4" - 1"	36	104	87÷91	110÷115	70	83	37	108	365	275	30	1,5	22	370	350	0,92