

RETURN FILTERS RH



APPLICATION EXAMPLE



MATERIALS

Head and cover: Aluminium alloy

Bowl: Polyammide

Bypass valve: Polyammide

Seals: NBR Nitrile FKM Fluoroelastomer on request

Indicator housing: Brass

PRESSURE (ISO 10771-1:2002)

Max working: 300 kPa (3 bar)

Test: 500 kPa (5 bar)

Bursting: 1 MPa (10 bar)

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

BYPASS VALVE

Setting: 170 kPa (1,7 bar) ± 10%

WORKING TEMPERATURE

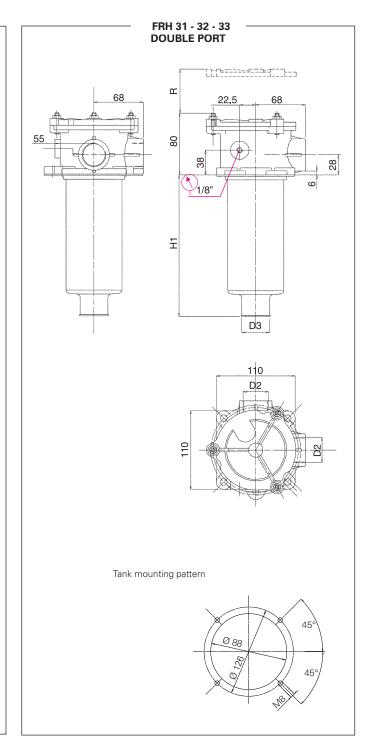
From -25° to + 110° C

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.

OHF 460

FRH 31 - 32 - 33 SINGLE PORT α 42 80 38 1/8" 9 Ξ D3 ø 9 5 5 110 Tank mounting pattern

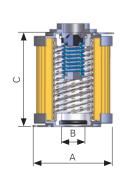


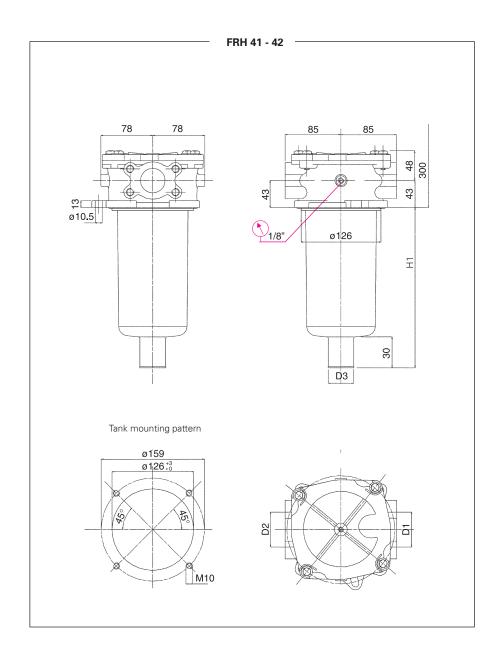
FILTER HOUSING							
	D1	D2	D3	H1	R	kg	
FRH31	3/4" - 1" - 1" 1/4	1"	27	106	165	0,95	
FRH32	3/4" - 1" - 1" 1/4	1"	27	152	205	1,10	
FRH33	3/4" - 1" - 1" 1/4	1"	40	235	285	1,25	



		ТҮРЕ				
		F = FILTER COMPLETE	F	F	F	
		B = FILTER HOUSING	В	В	В	ELEMENT E
RH		FAMILY,				FAMILY R A
		NOMINAL SIZE & LENGTH	31	32	33	SIZE & LENGTH
		PORT TYPE				
		B = BSP thread	В	В	В	
		A = BSP thread (double port A08 only)	Α	Α	Α	
		N = NPT thread	N	N	N	
		S = SAE thread	s	S	s	
		PORT SIZE				_
_		06 = 3/4"	06	06	06	
		08 = 1"	08	08	08	
		10 = 1"1/4	10	10	10	
	В	BYPASS VALVE				_
		B = 170 kPa (1,7 bar)	В	В	В	
	Г	SEALS			•	SEALS
		N = NBR Nitrile	N	N	N	N = NBR
		F = FKM Fluoroelastomer	F	F	F	F = FKM
			_			
		FILTER MEDIA				FILTER MEDIA
		FA = fiber $5 \mu m_{(c)} \beta > 1.000$	FA	FA	FA	$FA = fiber 5 \mu m_{(c)}$
		FB = fiber $7 \mu m_{(c)} \beta > 1.000$	FB	FB	FB	FB = fiber $7 \mu m_{(c)}$
		FC = fiber $12 \mu m_{(c)} \beta > 1.000$	FC	FC	FC	FC = fiber $12 \mu m_{(c)}$
		FD = fiber 21 μ m _(c) β >1.000	FD	FD	FD	FD = fiber 21 μ m _(c)
		CC = cellulose $10 \mu m \beta > 2$	CC	CC	CC	$CC = cellulose 10 \mu m$
		CD = cellulose 25μ m β >2	CD	CD	CD	$CD = cellulose 25 \mu m$
		ME = wire mesh $60\mu m$	ME	ME	ME	ME=wire mesh 60μ m
			ı			
L		CLOGGING INDICATOR	05	0.5	05	When the filter is ordered
		05 = nr. 2 x 1/8" ports, plugged	05	05	05	with FKM seals, the first digit
		30 = pressure gauge, rear connection	30	30	30	of the indicator code is a letter (please see page 184 - 185).
		P1 = SPDT, pressure switch	P1	P1	P1	4 1
	Г	ACCESSORIES	1			
	_	W = without	w	W	W	\neg
		P = with filling plug	Р	Р	P "	\dashv
			· · · · · · · · · · · · · · · · · · ·			-
	Х	ACCESSORIES				_
		X = no other accessory available	Х	l x	l x	I .

FILTER ELEMENT							
	Α	В	C kg	Area (cm²)			
	^	В		kg	Media F+	Media C+	
ERA31	70	28	85	0,20	620	990	
ERA32	70	28	130	0,25	1.000	1.600	
ERA33	70	40	210	0,40	1.660	2.670	





FILTER HOUSING								
	D1	D2	D3	H1	R	kg		
FRH41	1" 1/2	1 1/2"	40	248	289	2,40		
FRH42	1″ 1/2	1 1/2"	40	265	306	2,60		

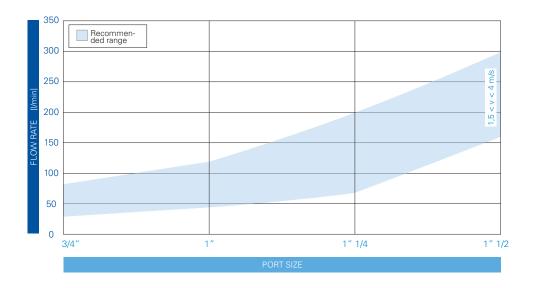
	_				
		TYPE			_
		F = FILTER COMPLETE	F	F	
		B = FILTER HOUSING	В	В	ELEMENT E
RH		FAMILY,			FAMILY R A
		NOMINAL SIZE & LENGTH	41	42	SIZE & LENGTH
	Р	PORT TYPE			_
		P = SAE flange 3000 psi, double port	Р	Р]
1	2	PORT SIZE			_
		12 = 1 1/2"	12	12	
	В	BYPASS VALVE			
		B = 170 kPa (1,7 bar)	В	В	
		SEALS			SEALS
'		N = NBR Nitrile	N	N	N = NBR
		F = FKM Fluoroelastomer	F	F	F = FKM
			1		
		FILTER MEDIA			FILTER MEDIA
		FA = fiber $5 \mu m_{(c)} \beta > 1.000$	FA	FA	$FA = fiber 5 \mu m_{(c)}$
		FB = fiber $7 \mu m_{(c)} \beta > 1.000$	FB	FB	$FB = fiber 7 \mu m_{(c)}$
		FC = fiber $12 \mu m_{(c)} \beta > 1.000$	FC	FC	FC = fiber $12 \mu m_{(c)}$
		FD = fiber 21 μ m _(e) β >1.000	FD	FD	FD = fiber 21 μ m _(c)
		CC = cellulose $10 \mu m \beta > 2$	CC	CC	$CC = cellulose 10 \mu m$
		CD = cellulose 25μ m β >2	CD	CD	CD = cellulose 25 \(\mu \) m
		ME = wire mesh 60μ m	ME	ME	ME=wire mesh 60μm
		OL OCCIDIO INDICATOR	1		
L	Щ	CLOGGING INDICATOR 05 = nr. 2 x 1/8" ports, plugged	05	05	When the filter is ordered
					with FKM seals, the first digit
		30 = pressure gauge, rear connection	30	30	of the indicator code is a letter (please see page 184 - 185).
		P1 = SPDT, pressure switch	P1	P1	Thomas see bags 16.1. 180).
		ACCESSORIES			
		W = without	W	W	1
		P = with filling plug	P	P	1
				Г	1
	_	ACCESSORIES			-
		X = no other accessory available	Х	Х]

FILTER ELEMENT								
	Α	В	С	kg	Area	Area (cm²)		
	^	В	· ·	ĸy	Media F+	Media C+		
ERA41	99	40	211	0,75	3.800	4.280		
ERA42	99	40	250	0,90	4.550	5.100		



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)

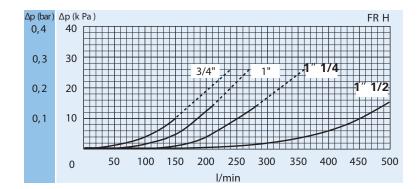


PRESSURE DROP CURVES (Δp)

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)



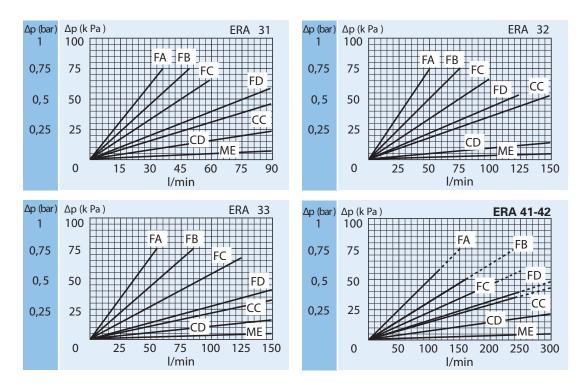


PRESSURE DROP CURVES (△p)

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).

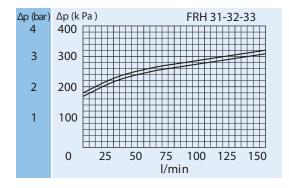
CLEAN FILTER ELEMENT PRESSURE DROP WITH F+, C+ AND ME MEDIA

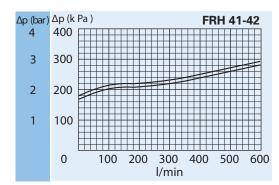
(depending both on the internal diameter of the element and on the filter media)



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.

FILLING PLUG

The filling plug option gives the possibility of easily and efficiently filtering the oil from the drum.

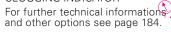
NO LEAKS

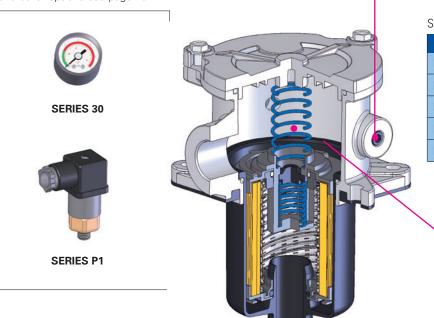
The end cap with captive O-ring ensures a perfect seal between filter element and bowl.

EASY REPLACEMENT

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

CLOGGING INDICATOR





SPARE SEAL KIT

	NBR	FKM
FRH31	521.0022.2	521.0059.2
FRH32	521.0022.2	521.0059.2
FRH33	521.0022.2	521.0059.2
FRH41	521.0060.2	521.0061.2
FRH42	521.0060.2	521.0061.2

SPARE SPRING

FRH31	008.0267.1
FRH32	008.0267.1
FRH33	008.0267.1
FRH41	008.0151.1
FRH42	008.0151.1

SPARE PARTS ELEMENTS

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

