



MATERIALS

Head: Aluminium alloy Bowl: Cold formed steel Seals: NBR Nitrile (FKM Fluoroelastomer - on request) Indicator housing: Brass

PRESSURE

Max working: 0,7 MPa (7 bar) Collapse, differential for the filter element (ISO 2941): 300 kPa (3 bar)

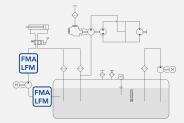
WORKING TEMPERATURE

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

М	Α	COMPLETE FILTER FAMILY						FILTER ELEMENT FAMILY	Е	Μ	Α
		SIZE & LENGHT 11 21 22 31 32		SIZE & LENGHT							
	В	PORT TYPE									·
		B = BSP thread	В	В	В	В	В				
		PORT SIZE						-			
		03 = 3/8"	03	-	-	-	-				
		04 = 1/2"	04	-	-	-	-				
		06 = 3/4"	-	06	-	-	-				
		08 = 1 "	-	-	08	-	-				
		10 = 1" 1/4	-	-	-	10	-				
		12 = 1" 1/2	-	-	-	-	12				
	Х	BYPASS VALVE						-			
		X = not available	Х	Х	Х	Х	Х				
		SEALS						SEALS			
		N = NBR Nitrile	N	Ν	Ν	Ν	N				
		F = FKM Fluoroelastomer	F	F	F	F	F				
		FILTER MEDIA						FILTER MEDIA			
		CC = impregnated cellulose 10 μ m β >2	CC	CC	CC	CC	CC				
		CD = impregnated cellulose 25 μ m β >2	CD	CD	CD	CD	CD				
		MD = metal wire mesh 25 µm	MD	MD	MD	MD	MD				
		ME = metal wire mesh 60 µm	ME	ME	ME	ME	ME				
		MF = metal wire mesh 90 µm	MF	MF	MF	MF	MF				
		MG = metal wire mesh 250 µm	MG	MG	MG	MG	MG				
		WR = water removal*	WR	WR	WR	WR	WR				
		CLOGGING INDICATOR						-			
		0E = nr. 2x1/8" ports, plugged	0E	0E	0E	0E	0E				
		11 = vacuum gauge**	11	11	11	11	11				
		91 = SPDT, vacuum switch**	91	91	91	91	91				
		33 = pressure gauge***	33	33	33	33	33				
		P1 = SPDT, pressure switch***	P1	P1	P1	P1	P1				
		ACCESSORIES						_			
		W = without accessory	W	W	W	W	W				
		B = mounting brackets	В	В	В	В	В				
	Х	ACCESSORIES						_			
		X = no accessory available	Х	Х	Х	Х	Х				

NOTES

* Water removal media - see "Hydro Dry" chapter

** For Suction line

*** For Return and Low Pressure line

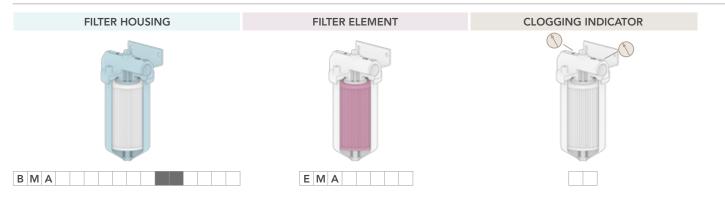




ORDERING AND OPTION CHART

F M	COMPLETE FILTER FAMILY						FILTER ELEMENT FAMILY	С	L	E
	SIZE & LENGHT	010	050	070	120	180	SIZE & LENGHT			
	FILTER MEDIA						FILTER MEDIA			
<u> </u>	CD = impregnated cellulose 10 μ m β >2	CD	CD	CD	CD	CD				
	CV = impregnated cellulose 25 μ m β >2	CV	CV	CV	CV	CV				
	MV = metal wire mesh 25 µm	MV	MV	MV	MV	MV				
	MS = metal wire mesh 60 µm	MS	MS	MS	MS	MS	_			
	MN = metal wire mesh 90 µm	MN	MN	MN	MN	MN	_			
	DC = metal wire mesh 250 µm	DC	DC	DC	DC	DC	_			
	WR = water removal*	WR	WR	WR	WR	WR				
	SEALS						SEALS			
	1 = NBR Nitrile	1	1	1	1	1	_			
	2 = FKM Fluoroelastomer	2	2	2	2	2				
0	BYPASS VALVE						7			
	0 = without	0	0	0	0	0				
В	PORT TYPE						_			
	B = BSP thread	В	В	В	В	В				
	PORT SIZE						_			
	2 = 3/8"	2	-	-	-	-				
	3 = 1/2"	3	-	-	-	-				
	4 = 3/4"	-	4	-	-	-				
	5 = 1"	-	-	5	-	-				
	6 = 1 " 1/4	-	-	-	6	-				
	7 = 1" 1/2	-	-	-	-	7				
	CLOGGING INDICATOR		-		-	-	_			
	0E = nr. 2x1/8" ports, plugged	0E	0E	0E	0E	0E				
	11 = vacuum gauge**	11	11	11	11	11				
	91 = SPDT, vacuum switch**	91	91	91	91	91				
	33 = pressure gauge	33	33	33	33	33				
	P1 = SPDT, pressure switch***	P1	P1	P1	P1	P1				
XX	ACCESSORIES						-			
	XX = no accessory available	XX	XX	XX	XX	XX				

SPARE PARTS ELEMENTS

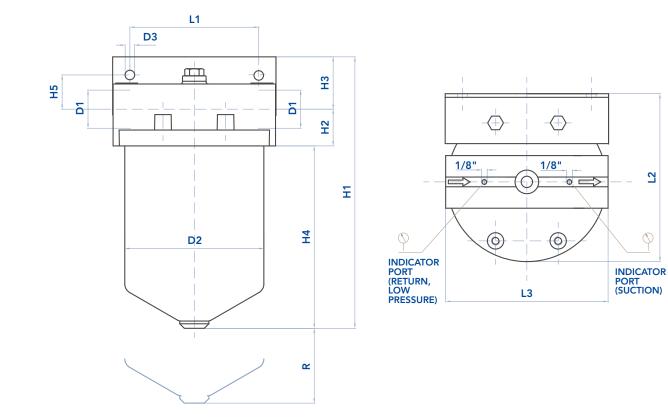


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INSTALLATION DRAWING



FILTER HOUSING

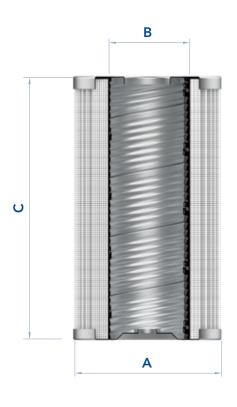
	D1	H1	H2	H3	L1	D2	H4	L2	D3	L3	Н5	R	kg
FMA11 LFM010	3/8"- 1/2"	170	22	38	50	81	132	95	6,5	105	26	20	1,0
FMA21 LFM050	3/4"	245	37	39	100	114	206	135	8,5	140	24	25	2,0
FMA22 LFM070	1"	285	37	39	100	114	246	135	8,5	140	24	25	2,5
FMA31 LFM120	1"1/4	290	40	50	150	155	240	185	10,5	178	28	25	6,0
FMA32 LFM180	1"1/2	345	40	50	150	155	295	185	10,5	178	28	25	6,5

FMA-LFM SUCTION FILTERS



MAINTENANCE

The best time to change your filter element is just before it reaches its maximum dirt-holding capacity. For this reason, we recommend to monitor the pressure of the hydraulic oil flowing through the filter with a clogging indicator. When it is time to change the filter element, switch off the system before opening the filter housing and make sure there is no pressure in the filter. Unscrew the bowl and remove the dirty filter element. Clean the bowl; check the gaskets conditions and replace if necessary. Replace the filter element with an original UFI element, verifying the part number on the filter label or on the catalogue. Replace the bowl in contact with the head gasket. Screw the upper tierod until the bowl is completely locked on the head ensuring the seal. We recommend the stocking of a spare UFI filter element for timely replacement when required.





FILTER ELEMENT

				AREA (cm ²)			
	Α	В	С	Media M+	Media C+		
EMA11 CLE010	70	29,5	88	480	1.180		
EMA21 CLE050	70	29,5	134	750	1.800		
EMA22 CLE070	95	41	175	1.650	2.400		
EMA31 CLE120	140	65,5	145	1.740	4.440		
EMA32 CLE180	140	65,5	205	2.490	6.390		

The used filter elements cannot be cleaned and are classified as "Dangerous waste material". They must be disposed according to local laws by authorized Companies.

Verify that the Company you choose has the expertise and authorization to dispose this type of waste material.





RECOMMENDED FLOW RATES TABLE

		l/min	at∆p			at∆p		
Туре	Media	0,03 bar (suction line)	0,5 bar (return or low pressure line)	Туре	Media	0,03 bar (suction line)	0,5 bar (return or low pressure line)	
	MD	7	58		MD	35	349	
	ME	8	62		ME	41	265	
FMA11B03	MF	8	72	FMA22	MF	45	303	
FIVIATIOUS	MG	8	72	FIVIAZZ	MG	45	303	
	CC	4	45		CC	27	185	
	CD	6	55		CD	30	220	
	MD	11	75		MD	91	535	
	ME	11	79		ME	106	556	
FMA11B04	MF	12	95	FMA31	MF	136	590	
FIVIATIOU4	MG	12	95	FIVIASI	MG	136	590	
	CC	8	58		CC	45	386	
	CD	10	72		CD	61	428	
	MD	21	177		MD	207	638	
	ME	23	185		ME	235	749	
	MF	34	197	FMA32	MF	329	783	
FMA21	MG	34	197	FIVIA3Z	MG	87	503	
	CC	17	132		CC	87	503	
	CD	19	148		CD	140	628	

N.B.

All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,86 kg/dm3; for fluids with different features, please consider the factors described in the first part of this catalogue. All the curves

are obtained from test done at the UFI HYDRAULIC DIVISION Laboratory, according to the specification ISO 3968. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.