

HYDAC INTERNATIONAL

Inline Filter LFR up to 250 I/min, up to 120 bar





ELEMENT FLOW DIRECTION FROM IN TO

1. TECHNICAL **SPECIFICATIONS**

1.1 FILTER HOUSING

Construction

The filter housings are designed in accordance with international regulations. They consist of a filter housing and a screw-on cover plate. The element is top-removable. Standard equipment:

- · installation holes in the housing
- · magnetic core built into cover plate
- · without bypass valve

• oil drain plug 1.2 FILTER ELEMENTS

HYDAC filter elements are validated and their quality is constantly monitored according to the following standards:

• ISO 2941, ISO 2942, ISO 2943 ISO 3968, ISO 11170, ISO 16889

Contamination retention capacities

9					
	Glass fibre (ULP)				
	5 µm	10 µm	25 µm		
20	1.45	2.61	2.9		
45	3.35	6.03	6.7		
45 80	4.18 7.5	1	8.35		
150	5.25	9.45	10.5		
250	8.5	15.3	17		

	Glass fibre with pre-filter (UHC)					
	5 µm	10 μm	20 µm			
20	4.64	6.96	7.83			
45	10.72	16.08	18.09			
80	13.36	20.04	22.55			
150	16.8	25.2	28.35			
250	27.2	40.8	45.9			

Filter elements are available with the following pressure stability values:

Glass fibre (ULP):

Glass fibre with pre-filter

(UHC): 6 bar Wire mesh (WR): 6 bar Other filtration ratings on request

NBR (=Perbunan)

1.4 SPECIAL MODELS

- · Port for clogging indicator in filter housing
- · Without magnetic core
- · Bypass valve built into the head
- · Seals in FPM, EPDM

FILTER SPECIFICATIONS

Nominal pressure	120 bar
Temperature range	-10 °C to +120 °C
Material of filter housing	EN-GJS
Material of cover plate	EN-GJS: LFR 20 to 80
	9SMn28k: LFR 150 to 250
Type of clogging indicator	VM (differential pressure measurement
	up to 210 bar operating pressure)
Pressure setting of the clogging indicator	2 bar (others on request)
Bypass cracking pressure (optional)	2.5 bar (others on request)

Iplia@50ilteinLRFR 25 bar



ELEMENT FLOW DIRECTION FROM IN TO

FILTER SPECIFICATIONS

Nominal pressure	25 bar
Temperature range	-10 °C to +120 °C
Material of filter housing	EN-GJS: LPFR 20 to 250
Material of cover plate	EN-GJS: LPFR 20 to 80
	EN-GJL: LPFR 150 to 250
Type of clogging indicator	VM (differential pressure measurement
	up to 210 bar operating pressure)
Pressure setting of the clogging indicator	2 bar (others on request)
Bypass cracking pressure (optional)	2.5 bar (others on request)

Iplia@50il/tein,MID FcR250 bar



ELEMENT FLOW DIRECTION FROM IN TO

FILTER SPECIFICATIONS

Nominal pressure	250 bar
Temperature range	-10 °C to +120 °C
Material of filter housing	EN-GJS
Material of cover plate	S355JR: MDFR 45 to 80
	EN-GJS: MDFR 150 to 250
Type of clogging indicator	VD (differential pressure measurement
	up to 400 bar operating pressure)
Pressure setting of the clogging indicator	2 bar (others on request)
Bypass cracking pressure (optional)	2.5 bar (others on request)

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2. MODEL CODE 2.1 COMPLETE FILTER

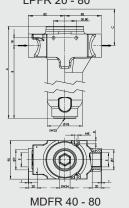
Type Fill	ter material of	Size	Operating pressure	Port	Filtration rating	Clogging indicator (VA)	Type code	Modification number	Supplementary details
LFR LPFR MDFR	ULP=Glass fibre UHC=Glass fibre with pre-filter WR=Wire mesh	45 80 150	D=25 bar (only LPFR) I=120 bar (only LFR) M=250 bar (only MDFR)	B=G 1/2 C=G 3/4 D=G1 F=G1 1/2	5 10 20(UHC) 25(ULP)		1=indic. on right in flow direction 2=indic. on left in flow direction 3=no indic.	.x= the latest version is always supplied	-V=FPM direction (Viton) -B=special bypass cracking pressure -OM=without magnetic core

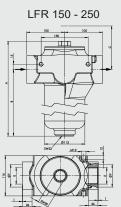
^{*} Size 20 only possible for LPFR and LFR!

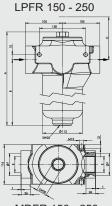
3. DIMENSIONS

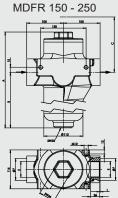
LFR 20 - 80











LFR	AB	CEFØ	Weight incl. element [kg]
20	212 167	180 G ½ 34 5.3	
45	312 267	250 G ¾ 42 5.8	
80	312 267	280 G 1 47 6.6	
150	354 273	335 G 1½ 68 14.2	
250	454 373	435 G 1½ 65 15.0	

LPFR	ΑВ		E	FØ	Weight incl. element [kg]
20	212	167	G ½	34	5.3
45	312	267	G ¾	42	5.8
80	312	267	G 1	47	6.6
150	354	273	G 1	⁄ ₂ 68	14.2
250	454	373	G 1	√ ₂ 65	15.0

MDFR	А ВС	EFØ		Weight inc	
45	360 274 2	75 G ¾	42	7.9	
80	360 274	305	G 1 47 G	8.6	
150	405 282	365	1 ½ 65	18.4	
250	505 382 4	65 G 1½	∕ ₂ 68 19.0		

NOTE

The information in this brochure relates to the operating conditions and applications described

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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