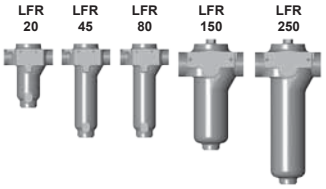
Inline Filters LFR
up to 250 l/min, up to 120 bar



ELEMENT FLOW DIRECTION FROM IN TO OUT

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:

- mounting 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 in g

	Glass fibre (ULP)		
	5 µm	10 µm	25 µm
20	1.45	2.61	2.9
45	3.35	6.03	6.7
80	4.18	7.51	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): 6 bar
Glass fibre with pre-filter (UHC): 6 bar
Wire mesh (WR): 6 bar
Other filtration ratings on request

1.3 SEALS

NBR (= Perbunan)

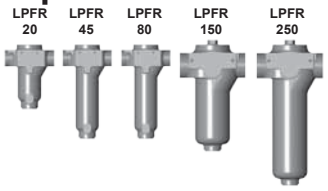
1.4 SPECIAL MODELS

- Port for clogging indicator
- 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)

Inline Filter LPFR
up to 250 l/min, up to 25 bar

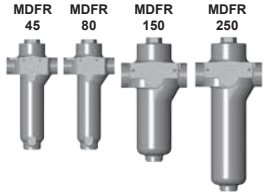


ELEMENT FLOW DIRECTION FROM IN TO OUT

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)

Inline Filter MDFR
up to 250 l/min, up to 250 bar



ELEMENT FLOW DIRECTION FROM IN TO OUT

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)

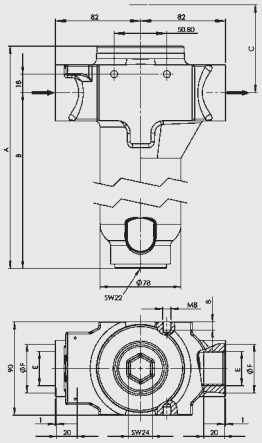
2. MODEL CODE
2.1 COMPLETE FILTER

Type	Filter material of element	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	20* 45 80 150 250	**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)	**W=**no port for indicator **B=**visual **C=**electrical **D=**visual / electrical	**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

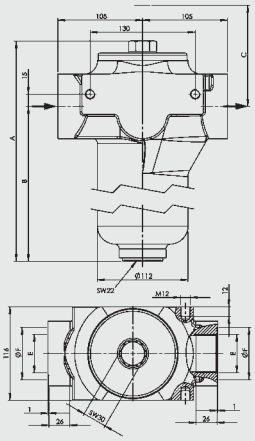
* Size 20 only possible for LPFR and LFR!

3. DIMENSIONS

LFR 20 - 80

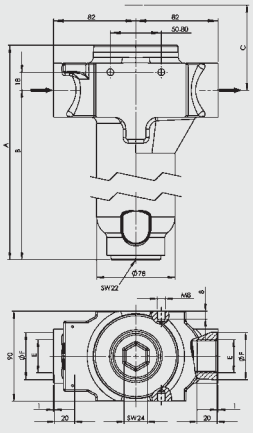


LFR 150 - 250

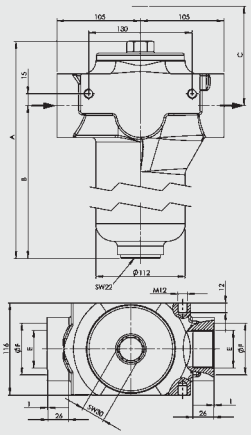


LFR	A	B	C	E	F Ø	Weight incl. element [kg]
20	212	167	180	G ½	34	5.3
45	312	267	250	G ¾	42	5.8
80	312	267	280	G 1	47	6.6
150	354	273	335	G 1½	68	14.2
250	454	373	435	G 1½	65	15.0

LPFR 20 - 80

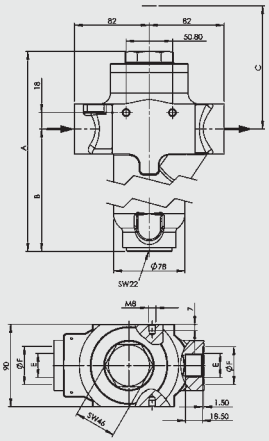


LPFR 150 - 250

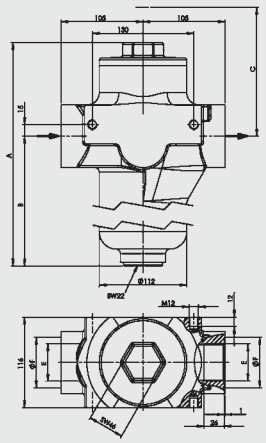


LPFR	A	B	E	F Ø	Weight incl. element [kg]
20	212	167	G ½	34	5.3
45	312	267	G ¾	42	5.8
80	312	267	G 1	47	6.6
150	354	273	G 1½	68	14.2
250	454	373	G 1½	65	15.0

MDFR 40 - 80



MDFR 150 - 250



MDFR	A	B	C	E	F Ø	Weight incl. element [kg]
45	360	274	275	G ¾	42	7.9
80	360	274	305	G 1	47	8.6
150	405	282	365	G 1 ½	65	18.4
250	505	382	465	G 1½	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.

HYDAC FILTERTECHNIK GMBH
Industriegebiet
D-66280 Sulzbach/Saar
Tel.: 0 68 97 / 509-01
Fax: 0 68 97 / 509-300
Internet: www.hydac.com
E-Mail: filter@hydac.com