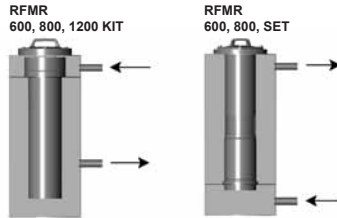




Return Line Filter RFMR

Element flow direction from in to out
In-tank versions:
up to 1,200 l/min, up to 10 bar



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Construction

The filter housings are designed in accordance with international regulations. There are two types of RFMR. The RFMR-KIT series consists of a housing tube and cover plate. The RFMR-SET series consists of a filter cover plate and element location spigot. The element is top-removable in both cases.

Standard equipment:

- with bypass valve
- magnetic core built into cover plate

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 3724, ISO 3968, ISO 11170, ISO 16889

Contamination retention capacities in g

RFMR-KIT	Glass fibre (ULP)		
	5 µm	10 µm	25 µm
600	85	153	170
800	115	207	230
1200	170	306	340

RFMR-KIT	Glass fibre with pre-filter (UHC)		
	5 µm	10 µm	20 µm
600	272	408	459
800	368	552	621
1200	544	816	918

RFMR-SET	Glass fibre (ULP)		
	5 µm	10 µm	25 µm
600	85	153	170
800	115	207	230

RFMR-SET	Glass fibre with pre-filter (UHC)		
	5 µm	10 µm	20 µm
600	272	408	459
800	368	552	621

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

1.3 FILTER SPECIFICATIONS

Nominal pressure	up to 10 bar
Temperature range	-30 °C to +120 °C
Material of housing tube	Steel
Material of cover plate	EN-GJS-400-15: RFMR-KIT EN-GJL-250: RFMR-SET
Bypass cracking pressure	3 bar (others on request)

1.4 SEALS

NBR (= Perbunan)

1.5 INSTALLATION

In-tank filter

1.6 SPECIAL MODELS AND ACCESSORIES

without magnetic core

1.7 SPARE PARTS

See Original Spare Parts List

1.8 CERTIFICATES AND APPROVALS

Test certificate 2.2
Other approvals on request

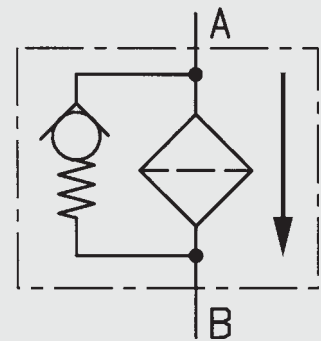
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- Hydraulic oils H to HLPD DIN 51524
- Lubrication oils DIN 51517, API, ACEA, DIN 51515, ISO 6743
- Compressor oils DIN 51506
- Biodegradable operating fluids VDMA 24568 HETG, HEES, HEPG
- Fire-resistant fluids HFA, HFB, HFC and HFD
- Operating fluids with high water content (>50% water content) on request

1.10 IMPORTANT INFORMATION

- Filter housings must be earthed.
- When using electrical clogging indicators, the electrical power supply to the system must be switched off before removing the clogging indicator connector.

Symbol for hydraulic systems



2. MODEL CODE (also order example)

RFMR ULP 800 KIT 10 W 1 . X /-V

2.1 IN-TANK MOUNTED FILTER RFMR-KIT VERSION

Filter type _____

RFMR

Filter material of element _____

ULP Glass fibre

UHC Glass fibre with pre-filter

WR Wire mesh

Size of filter or element _____

RFMR: 600, 800, 1200

In-tank version _____

KIT housing tube and filter cover plate only

Filtration rating in μm _____

ULP : 5, 10, 25

UHC : 5, 10, 20

WR : 25, 40, 60

Type of clogging indicator _____

W without port, no clogging indicator

Type code _____

1

Modification number _____

X the latest version is always supplied

Supplementary details _____

no details = standard bypass cracking pressure B3 = 3 bar

V FPM seals

OM without magnetic core

2.1 IN-TANK MOUNTED FILTER RFMR-SET VERSION

RFMR ULP 800 SET 10 W 1 . X /-V

Filtertype _____

RFMR

Filter material of element _____

ULP Glass fibre

UHC Glass fibre with pre-filter

WR Wire mesh

Size of filter or element _____

RFMR: 600, 800

In-tank version _____

SET filter cover plate and element spigot only

Filtration rating in μm _____

ULP : 5, 10, 25

UHC : 5, 10, 20

WR : 25, 40, 60

Type of clogging indicator _____

W without port, no clogging indicator

Type code _____

1

Modification number _____

X the latest version is always supplied

Supplementary details _____

no details = standard bypass cracking pressure B3 = 3 bar

V FPM seals

OM without magnetic core

2.3 REPLACEMENT ELEMENT

0800 R 010 ULP /-V

Size _____

0600, 0800, 1200

Type _____

RX Elements for KIT version

RY Elements for SET version

Filtration rating in μm _____

ULP : 005, 010, 025

UHC : 005, 010, 020

WR : 025, 040, 060

Filter material _____

ULP, UHC, WR

Supplementary details _____

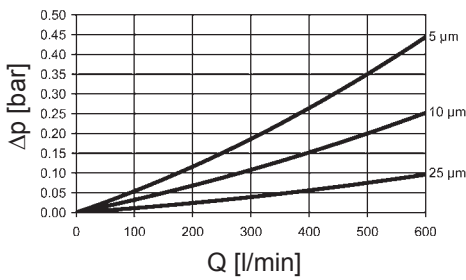
V (for descriptions, see point 2.1)

3. FILTER CALCULATION / SIZING

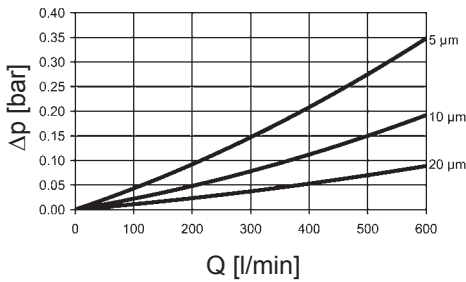
3.1 GRAPHS FOR COMPLETE FILTER

The curves for complete filters apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30mm²/s.

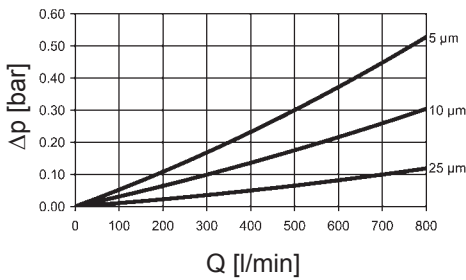
RFMR 600 KIT: ULP



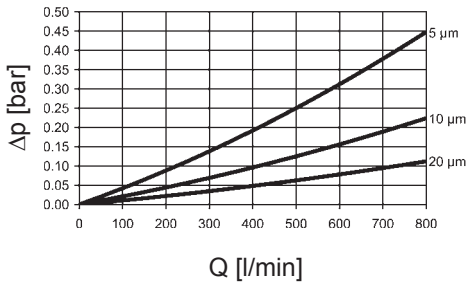
RFMR 600 KIT: UHC



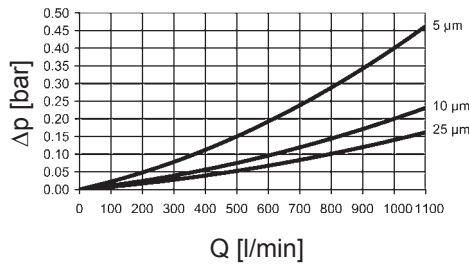
RFMR 800 KIT: ULP



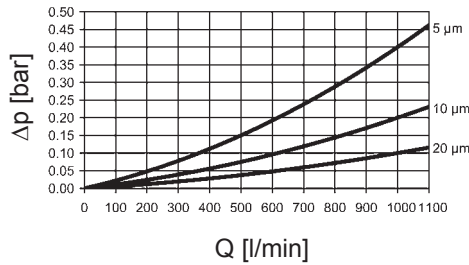
RFMR 800 KIT: UHC



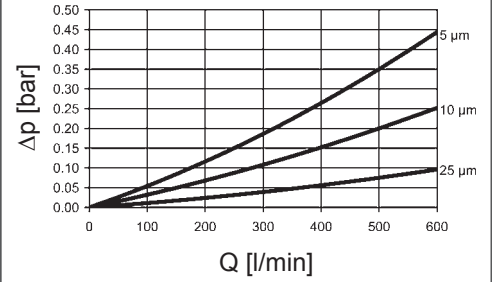
RFMR 1200 KIT: ULP



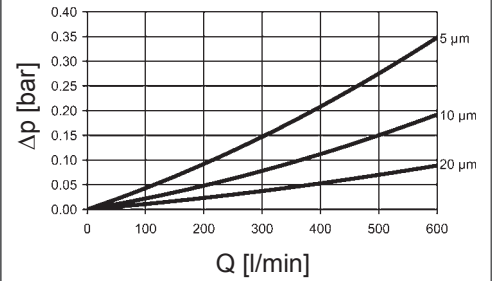
RFMR 1200 KIT: UHC



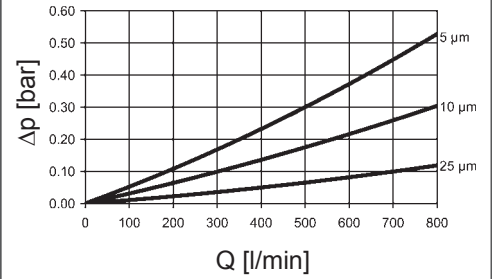
RFMR 600 SET: ULP



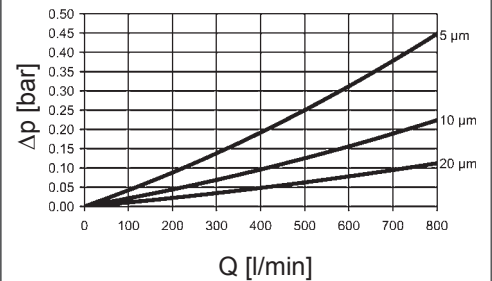
RFMR 600 SET: UHC



RFMR 800 SET: ULP

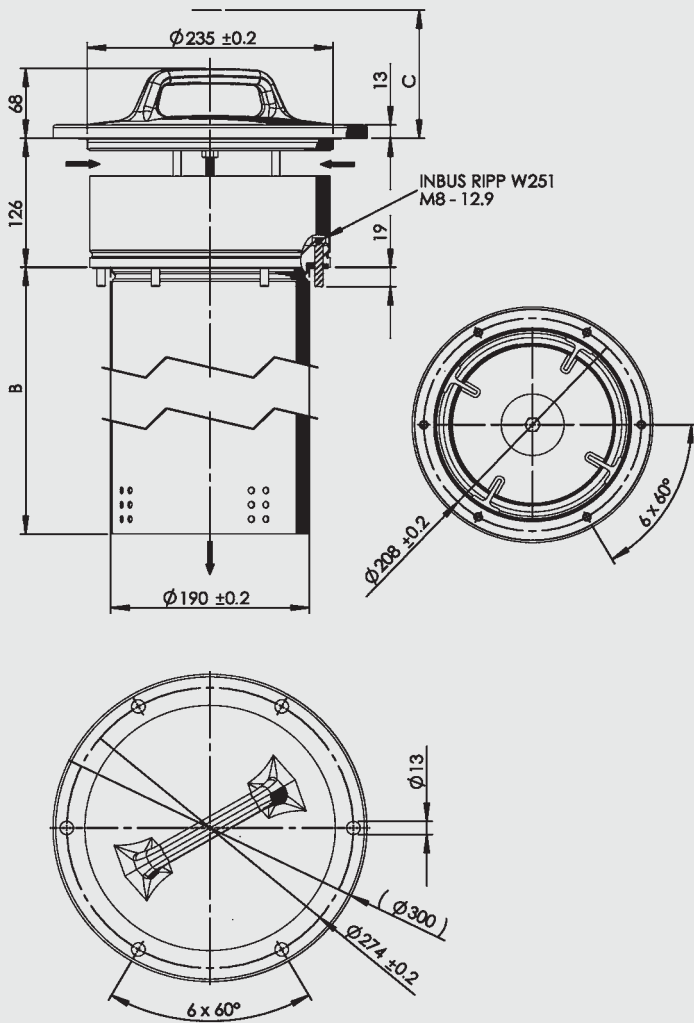


RFMR 800 SET: UHC

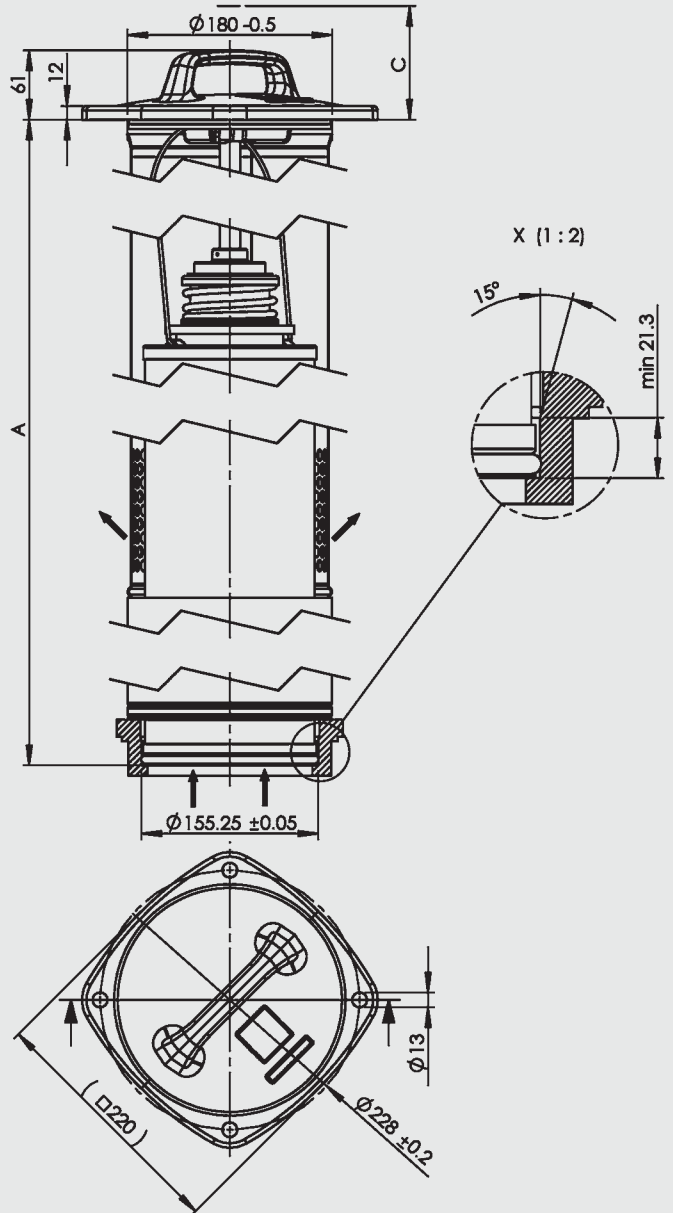


4. DIMENSIONS

RFMR 600 - 1200 KIT



RFMR 600 - 800 SET



RFMR KIT	B	C min.	Weight incl. element [kg]
600	694	570	23.9
800	680	685	25.2
1200	1324	1005	32.1

RFMR SET	A	C min.	Weight incl. element [kg]
600	780	775	11.0
800	980	975	12.2

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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