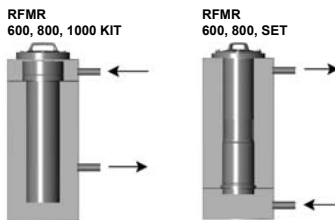




## Return Line Filter RFMR

Element flow direction from in to out  
In-tank mounted version:  
up to 1100 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 removed from the top 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

##### Glass fibre (PGN)

RFMR-KIT	5 µm	10 µm	25 µm
600	85	153	170
800	115	207	230
1100	170	306	340

##### Glass fibre with pre-filter (GSN)

RFMR-KIT	5 µm	10 µm	20 µm
600	272	408	459
800	368	552	621
1100	544	816	918

##### Glass fibre (PGN)

RFMR-SET	5 µm	10 µm	25 µm
600	85	153	170
800	115	207	230

##### Glass fibre with pre-filter (GSN)

RFMR-SET	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 (PGN): 6 bar  
Glass fibre with pre-filter (GSN) 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	GGG: RFMR-KIT GG: RFMR-SET
Cracking pressure of bypass valve	3 bar (others on request)

#### 1.4 SEALS

NBR (= Perbunan)

#### 1.5 MOUNTING

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

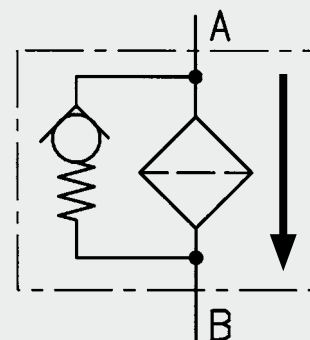
#### 1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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
- Non-flam operating fluids HFA, HFB, HFC and HFD
- Operating fluids with high water content (>50% water content) on request

#### 1.10 IMPORTANT INFORMATION

- Filter housing 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 PGN 800 KIT 10 W 1 . X /-V**

### 2.1 COMPLETE FILTER

**Filter type** \_\_\_\_\_

RFMR

**Filter material of element** \_\_\_\_\_

PGN glass fibre

GSN glass fibre with pre-filter

WR wire mesh

**Size of filter or element** \_\_\_\_\_

RFMR: 600, 800, 1100

**In-tank version** \_\_\_\_\_

KIT housing tube and cover plate only

**Filtration rating in µm** \_\_\_\_\_

PGN : 5, 10, 25

GSN : 5, 10, 20

WR : 25, 40, 60

**Type of clogging indicator** \_\_\_\_\_

W without connection for clogging indicator

**Type code** \_\_\_\_\_

1

**Modification number** \_\_\_\_\_

X the latest version is always supplied

**Supplementary details** \_\_\_\_\_

without details = standard bypass cracking pressure B6 = 6 bar

B. special bypass cracking pressure (e.g. B3 = 3 bar)

OM without magnetic core

V FPM seals

### 2.2 IN-TANK MOUNTED VERSION RFMR - SET

**RFMR PGN 800 SET 10 W 1 . X /-V**

**Filter type** \_\_\_\_\_

RFMR

**Filter material of element** \_\_\_\_\_

PGN glass fibre

GSN 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 location spigot only

**Filtration rating in µm** \_\_\_\_\_

PGN : 5, 10, 25

GSN : 5, 10, 20

WR : 25, 40, 60

**Type of clogging indicator** \_\_\_\_\_

W without connection for clogging indicator

**Type code** \_\_\_\_\_

1

**Modification number** \_\_\_\_\_

X the latest version is always supplied

**Supplementary details** \_\_\_\_\_

without details = standard bypass cracking pressure B6 = 6 bar

B. special bypass cracking pressure (e.g. B3 = 3 bar)

OM without magnetic core

V FPM seals

### 2.3 REPLACEMENT ELEMENT

**0800 RX 010 PGN /-V**

**Size** \_\_\_\_\_

0600, 0800, 1100

**Type** \_\_\_\_\_

RX Element for KIT-Version

RY Element for SET-Version

**Filtration rating in µm** \_\_\_\_\_

PGN : 005, 010, 025

GSN : 005, 010, 020

WR : 025, 040, 060

**Filter material of element** \_\_\_\_\_

PGN, GSN, WR

**Supplementary details** \_\_\_\_\_

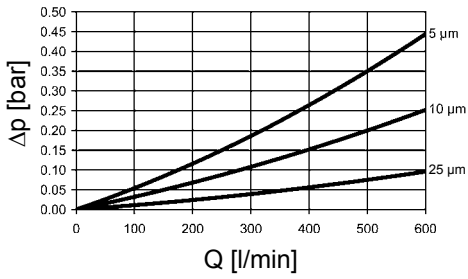
V (for description, see point 2.1 or 2.2)

### 3. FILTER CALCULATION / SIZING

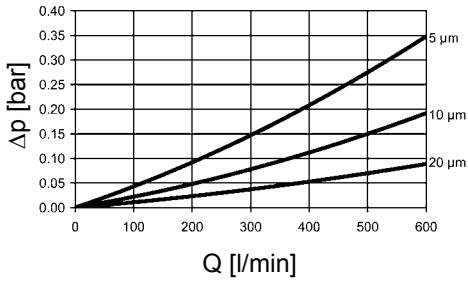
#### 3.1 GRAPHS FOR COMPLETE FILTER

The total pressure drop graphs apply to mineral oil with a density of  $0.86 \text{ kg/dm}^3$  and a kinematic viscosity of  $30 \text{ mm}^2/\text{s}$ .

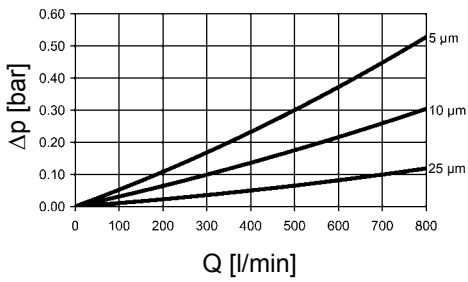
**RFMR 600 KIT: PGN**



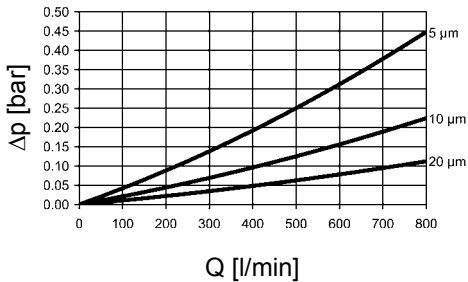
**RFMR 600 KIT: GSN**



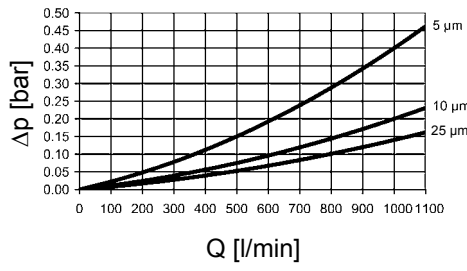
**RFMR 800 KIT: PGN**



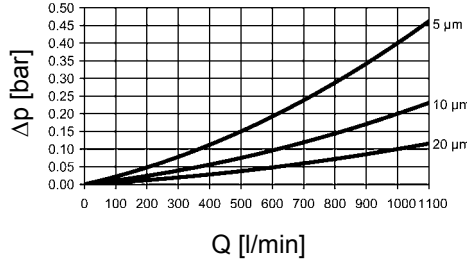
**RFMR 800 KIT: GSN**



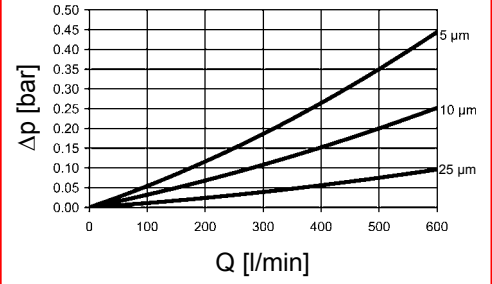
**RFMR 1100 KIT: PGN**



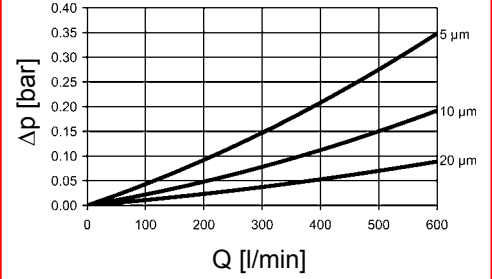
**RFMR 1100 KIT: GSN**



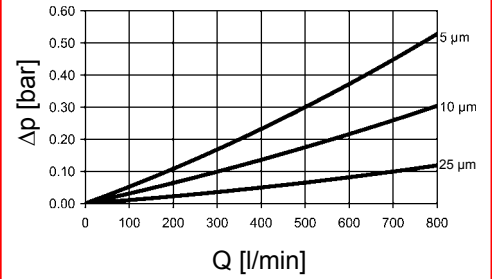
**RFMR 600 SET: PGN**



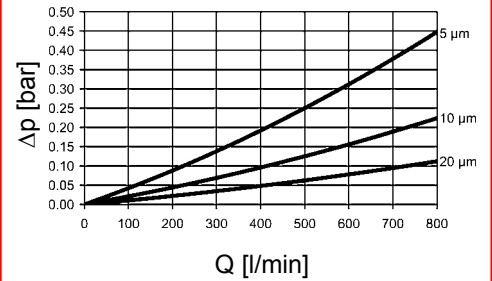
**RFMR 600 SET: GSN**



**RFMR 800 SET: PGN**

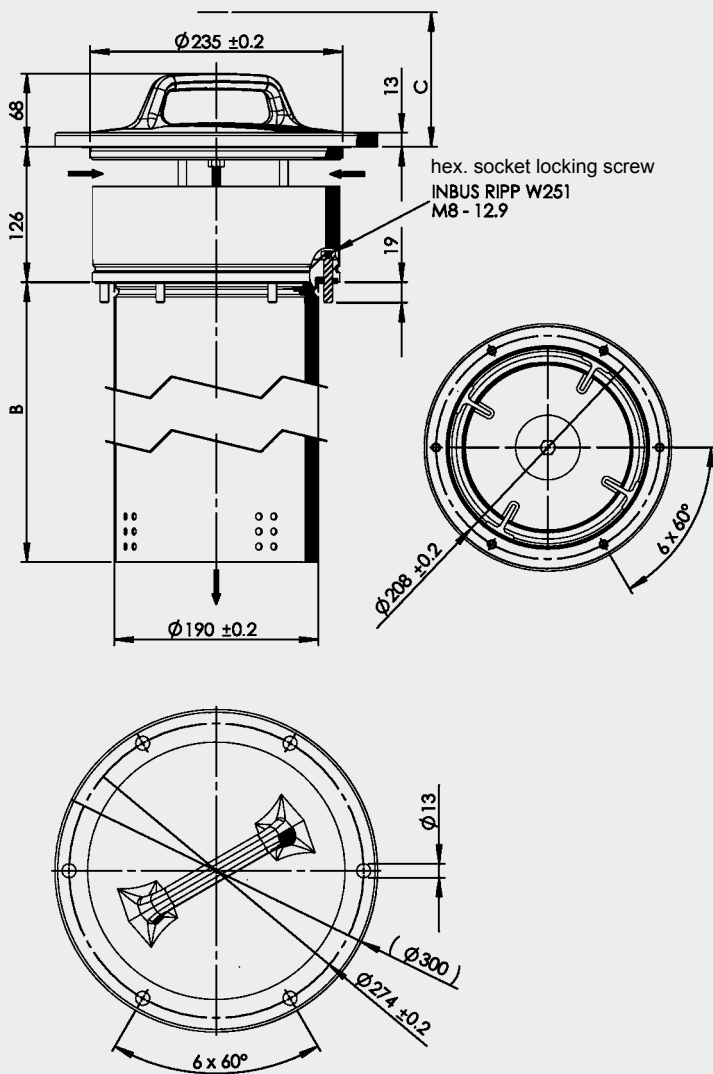


**RFMR 800 SET: GSN**

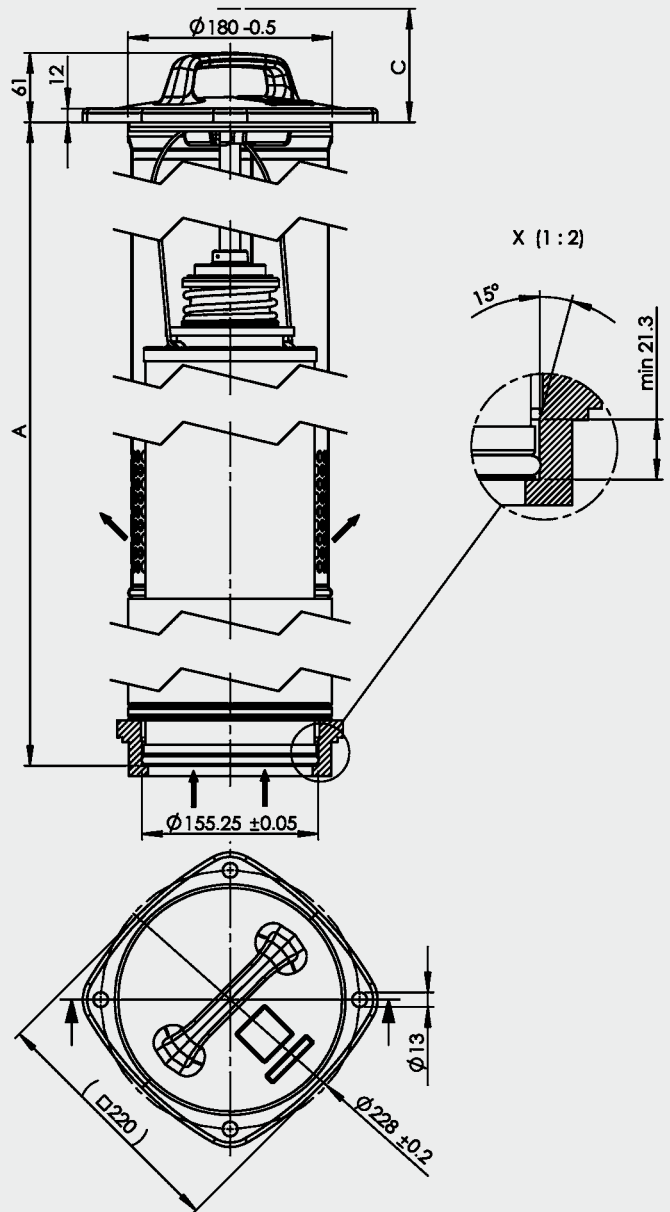


## 4. DIMENSIONS

RFMR 600 - 1100 KIT



RFMR 600 - 800 SET



RFMR KIT	B	C min.	Weight incl. element [kg]
600	694	570	23.9
800	680	685	25.2
1100	1324	1005	32.1

RFMR SET	A	B	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.

**HYDAC** Filbertechnik 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