



## Return Line Suction Filter RKMR

Element flow direction from in to out  
In-tank versions:  
up to 800 l/min, up to 10 bar



### 1. TECHNICAL SPECIFICATIONS

#### 1.1 FILTER HOUSING

##### Construction

The filter housings are designed in accordance with international regulations. They consist of a filter cover plate and element location spigot. The element is removed from the top.

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

RKMR-KIT	Glass fibre (PGN)		
	5 µm	10 µm	25 µm
600	85	153	170
800	115	207	230

RKMR-KIT	Glass fibre with pre-filter (GSN)		
	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 cover plate	aluminium
Cracking pressure of bypass valve (optional)	on request

#### 1.4 SEALS

NBR (= Perbunan)

#### 1.5 MOUNTING

In-tank filter.

#### 1.6 SPECIAL MODELS AND ACCESSORIES

- without magnetic core
- air bleed valve in cover plate
- protective strainer for bypass and anti-cavitation valve

#### 1.7 SPARE PARTS

See Original Spare Parts List

#### 1.8 CERTIFICATES AND APPROVALS

Test certificate 2.2  
Other approvals on request

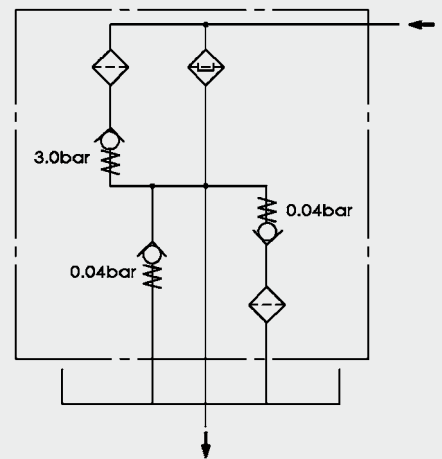
#### 1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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)

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

### 2.1 COMPLETE FILTER

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

RKMR

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

PGN glass fibre  
GSN glass fibre with pre-filter  
WR wire mesh

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

RKMR: 600, 800

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

SET filter cover plate and element location spigot only

**Filtration rating in  $\mu\text{m}$**  \_\_\_\_\_

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 B3 = 3 bar  
B. special bypass cracking pressure  
V FPM seals

### 2.2 REPLACEMENT ELEMENT

**0800 R 010 PGN /-V**

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

0600, 0800

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

R

**Filtration rating in  $\mu\text{m}$**  \_\_\_\_\_

PGN : 005, 010, 025  
GSN : 005, 010, 020  
WR : 025, 040, 060

**Filter material** \_\_\_\_\_

PGN, GSN, WR

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

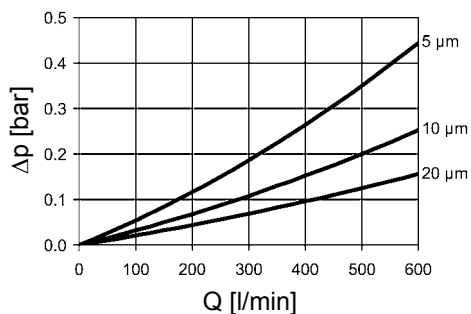
V (for description, see point 2.1)

### 3. FILTER CALCULATION / SIZING

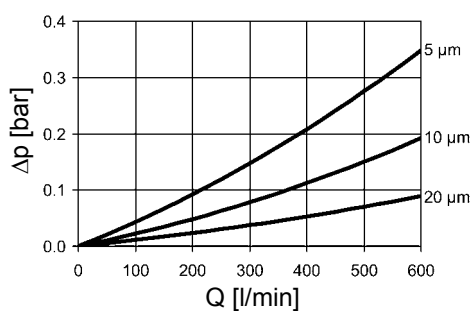
#### 3.1 GRAPHS FOR COMPLETE FILTER

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

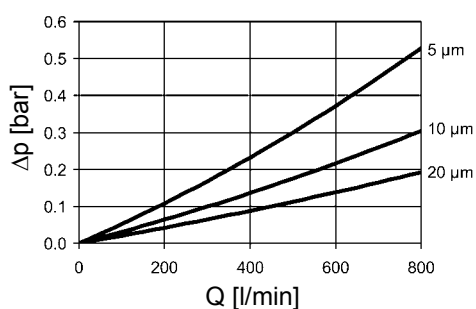
##### RKMR 600 SET: PGN



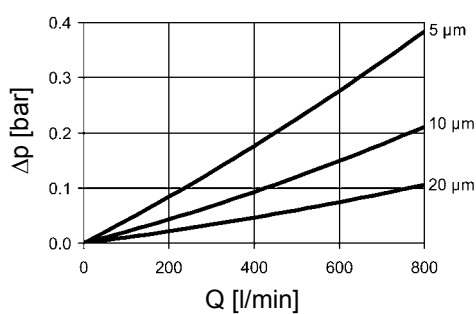
##### RKMR 600 SET: GSN



##### RKMR 800 SET: PGN

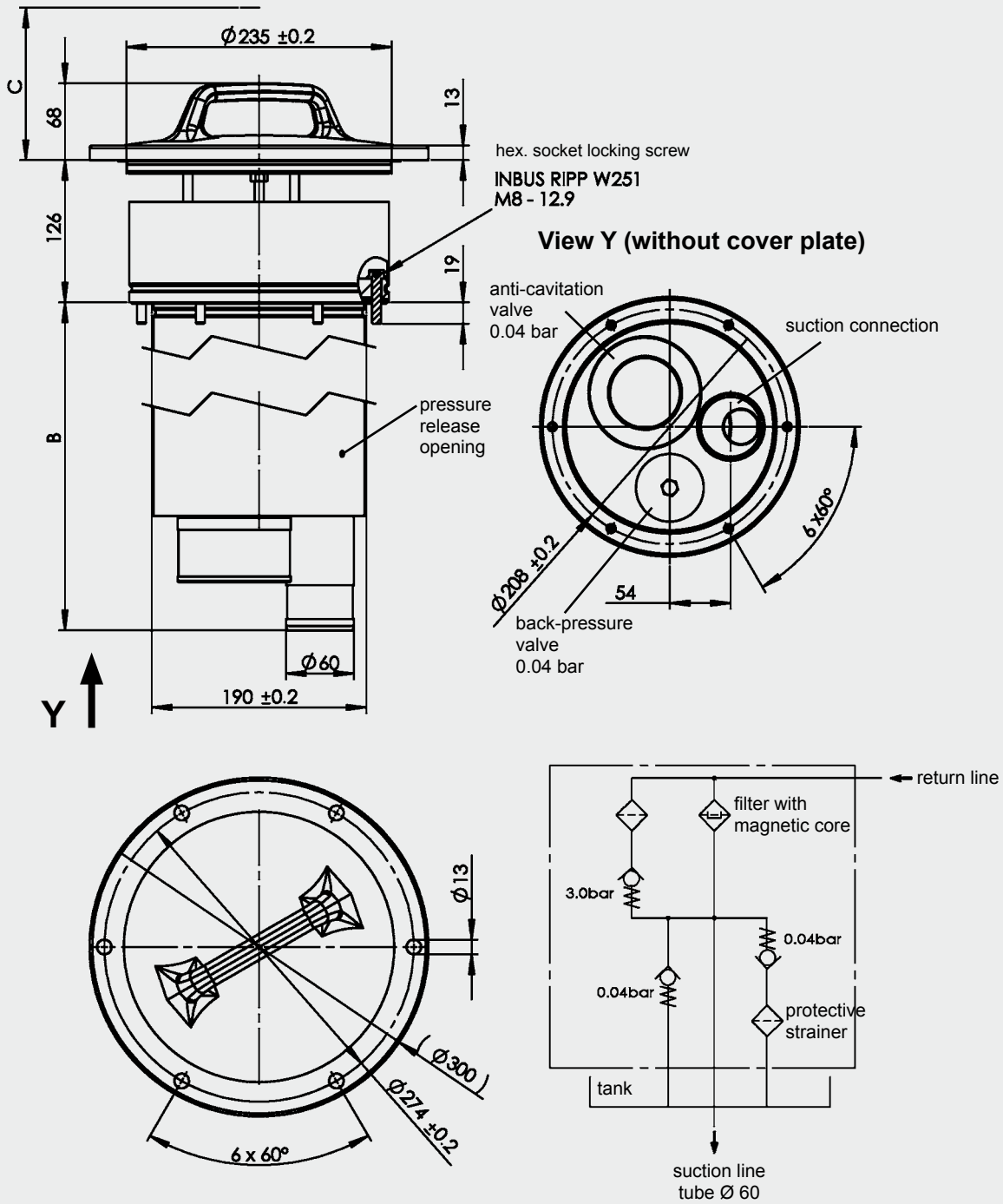


##### RKMR 800 SET: GSN



## 4. DIMENSIONS

RKMR 600 - 800 SET



RKMR SET	B	C min.	Weight incl. element [kg]
600	695	570	29.4
800	807	685	32.4

### 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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