



RT FILTER TECHNIK

Suction and Return Line Filter SRA6

Flow direction from in to out
up to 420 l/min, up to 10 bar



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING Design

This suction and return line filter is suitable for all vehicles with a hydrostatic transmission drive up to a total return flow of 420 l/min. The advantage of this filter is that filtered oil with an over pressure of 0.5 bar is fed to the charge pump of the transmission drive. This reduces the risk of cavitation, improving the cold-start characteristics.

The filter housings are designed in accordance with international regulations. They consist of a filter bowl, filter head and cover.

The element is top-removable!

Standard equipment

- With bypass valve
- Mounting holes on the filter head
- Magnetic core built into cover
- Port for a clogging indicator

1.2 FILTER ELEMENTS

RT 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

Filter elements are available with the following pressure stability values:

Glass fibre (ULP): 6 bar
Glass fibre with pre-filter (UMC): 6 bar

Other filter elements and filtration ratings on request.

1.3 FILTER SPECIFICATIONS

Nominal pressure	10 bar
Temperature range	-30 °C to +100 °C
Material of filter head	Cast aluminium
Material of filter housing	Steel
Material of cover	Plastic PA6-G30
Type of clogging indicator	Back-pressure indicator
Response pressure of clogging indicator	1.8 bar (others on request)
Bypass cracking pressure	2.5 bar (others on request)

1.4 SEALS

NBR (= Perbunan)

1.5 INSTALLATION

Vertical as tank-mounted filter so that the filter element can be removed upwards. Or horizontal with the filter drain screw pointing downwards.

1.6 SPECIAL MODELS AND ACCESSORIES

- Without magnetic core
- Seals in FKM

1.7 SPARE PARTS

See Original Spare Parts List

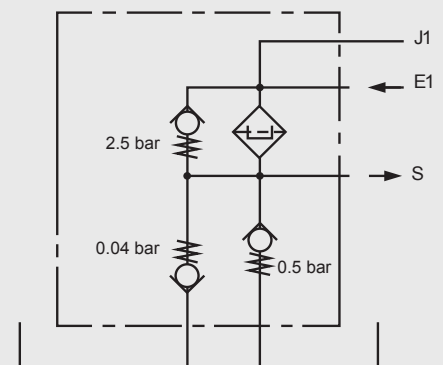
1.8 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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

1.9 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



2. MODEL CODE (also order example)

SRA 6 UMC 010 V M B W N04 000 V50 N 1 /-XXX

2.1 FILTER ASSEMBLY

Filter type

SRA

Size

6

Filter material

ULP glass fibre
UMC glass fibre with pre-filter

Filtration rating in μm

ULP 005, 010, 025
UMC 005, 010, 020

Bypass valve

V with bypass valve
X without bypass valve

Magnetic core

M with magnetic core
X without magnetic core

Setting range

B 10 bar

Port configuration

W E1=SAE DN 50, E2=G1, S=SAE DN 50, drain =M26x1.5, J1=G1/4

Anticavitation valve

N00 without anticavitation valve
N04 with 0.04 bar

Protective element for anticavitation

000 without

Counter-balance valve

V50 0.50 bar
V04 0.04 bar

Seals

N NBR (Perbunan)
V FKM

Modification number

X the latest version is always supplied

Supplementary details

2.2 REPLACEMENT ELEMENT

UMC-0010-xxx-xxxx-x-N-RT /-XXX

Filter material

ULP, UMC

Filtration rating in μm

ULP 0005, 0010, 0025

UMC 0005, 0010, 0020

RT code

Seals

N NBR (Perbunan)

V FKM

Packaging

Supplementary details

2.3 REPLACEMENT CLOGGING INDICATOR

(others on request)

Pressure switch 1.8 bar; N/C contact Part no.: 7600004786

Pressure switch 1.8 bar; N/O contact Part no.: 7600004769

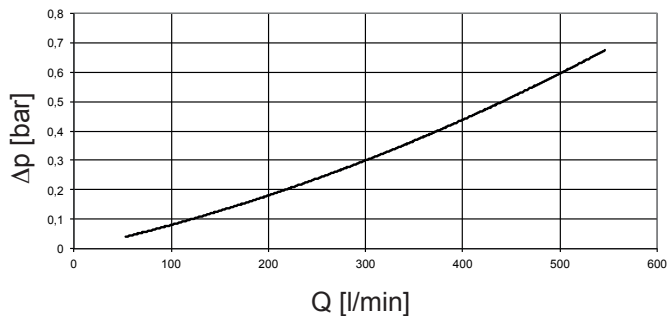
Pressure switch 1.8 bar; change-over contact Part no.: 7600004791

3. FILTER CALCULATION / DIMENSIONING

3.1 PERFORMANCE CURVES FOR FILTER ASSEMBLY

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

SRA 6



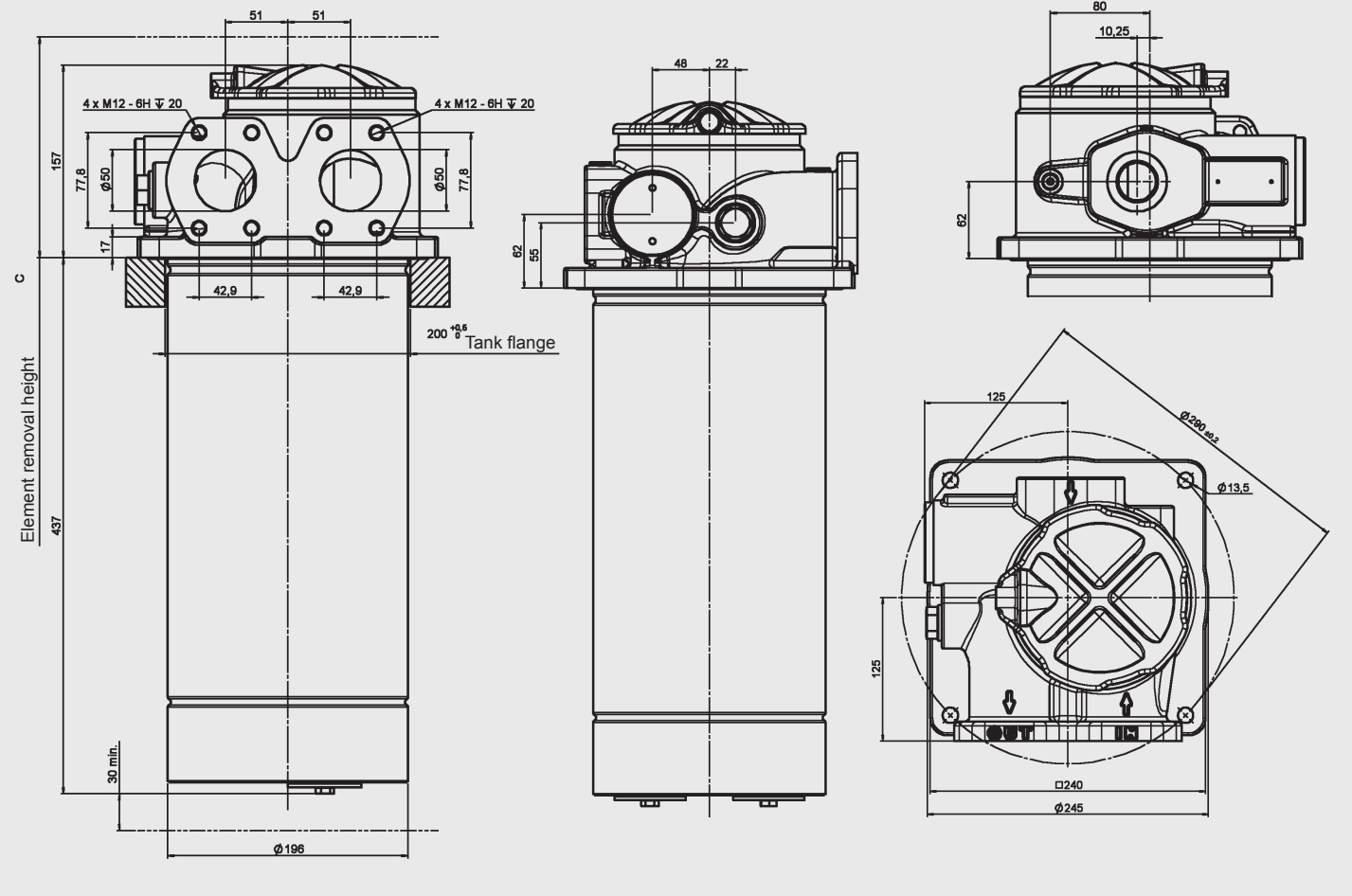
Other curves on request

4. DIMENSIONS

SPECIFICATIONS FOR THE TANK FLANGE

1. In the filter mounting interface, the tank flange should have a maximum flatness of 0.3 mm and maximum roughness of Ra 3.2 µm.
2. In addition, the mounting interface should be free from damage and scratches.
3. The fixing holes of the flange must be blind, or stud bolts with threadlocker must be used to fix the filter. As an alternative, the tank flange can be continuously welded from the inside.
4. Both the tank sheet metal and the filter mounting flange must be sufficiently robust so that neither deform when the seal is compressed during tightening.

SRA 6



Type	C _{min.}	Weight incl. element [kg]
SRA 6	600	14.9

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. All technical details are subject to change without notice.

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