



Suction and Return Line Filter SRA3-4

Flow direction from in to out up to 230 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 230 l/min. The oil conveying system provides efficient air separation. The bleed valve, the pressure unloading and the element with closed base are as innovative as they are user-friendly. The integrated valve technology meets the highest standards even in construction machines, in agricultural machinery and in recycling and municipal technology.

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

- Mounting holes on the filter head
- Magnetic core built into cover
- With bypass valve
- With 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): 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 bowl	Steel
Material of cover	Cast aluminium
Type of clogging indicator	Back-pressure switch
Response pressure of clogging indicator	2 bar
Bypass cracking pressure	2.5 bar

1.4 SEALS

NBR (= Perbunan)

1.5 INSTALLATION

As tank-mounted filter

1.6 SPECIAL MODELS AND **ACCESSORIES**

- Without magnetic core
- Protective screen for anticavitation
- Seals in FKM

1.7 SPARE PARTS

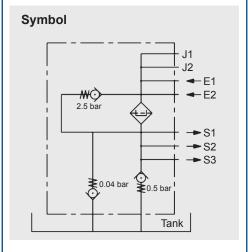
See Original Spare Parts List

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 HĖTG, HĔES, 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 connection



Suction line S1	
Suction line S2	
Suction line S3	
Return line E1	
Return line E2	
Gauge port J1	
Gauge port J2	

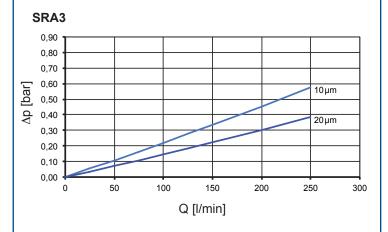
2. MODEL CODE (also order example) 2.1 FILTER ASSEMBLY	SRA 3 UMC 010 V M B R N04 000 V04 N 1 /-XX
Filter type	
SRA	
Size	
3, 4	
Filter material	
ULP glass fibre	
UMC glass fibre with pre-filter	
Filtration rating in µm	
ULP 010, 025	
UMC 010, 020	
Bypass valve	
V with bypass valve X without bypass valve	
Magnetic core	
M with magnetic core X without magnetic core	
Setting range B 10 bar	
Port configuration	
R E1=M42x2, E2=M26x1.5, S1=M33x2, J1=M10x1 S E1=M42x2, S1=M33x2, S2=M26x1.5, J1=M10x1 T E1=M42x2, E2=M26x1.5, S1=M33x2, S2/3=M26x1.5, J1=M10x1	
T E1 = M42x2, E2 = M26x1.5, S1 = M33x2, S2/3 = M26x1.5, J1 = M10x1	
Anticavitation valve	
N00 without anticavitation valve	
N04 with 0.04 bar	
Protective element for anticavitation	
000 without	
040 40 μm 100 100 μm	
'	
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	
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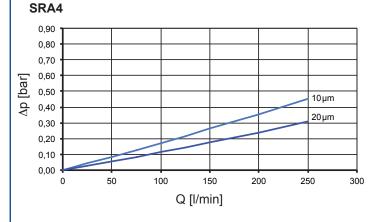
2.2 REPLACEMENT ELEMENT	UMC-0010-xxx-xxxx-x-N-RT /-XXX
Filter material ULP, UMC	
Filtration rating in μm ULP 0010, 0025 UMC 0010, 0020	
RT code	
Seals N NBR (Perbunan) V FKM	
Packaging	
Supplementary details	

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/dm³ and a kinematic viscosity of 30 mm²/s.





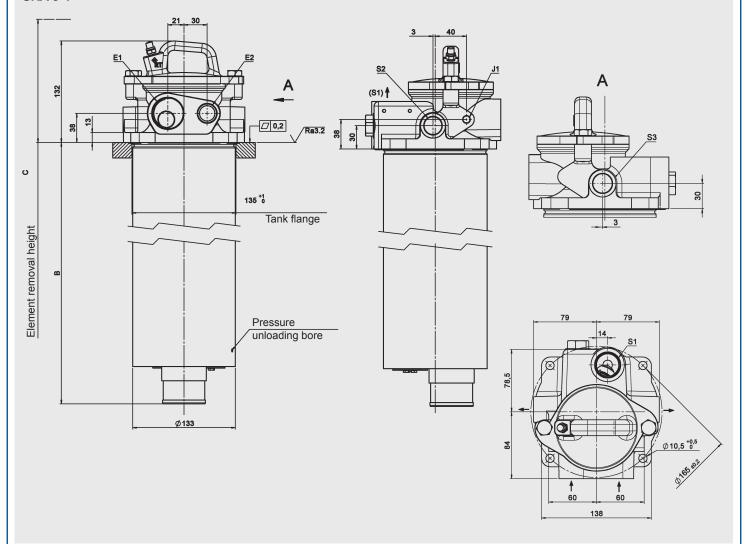
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4. DIMENSIONS

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 $3.2~\mu m$.
- 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 3-4



Туре	В	Element removal height Cmin.	Weight incl. element [kg]
SRA 3	412.5	500	7.1
SRA 4	476.5	550	7.4

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.

All technical details are subject to change without notice.

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