



# Suction & Return Line Filter SRC3-4

Flow direction from in to out  
up to 260 l/min, up to 10 bar

SRC 3 SRC 4



## 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 260 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. A thermal valve is built into the filter housing for the oil flow to the oil cooler.

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

Other 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	3 bar (others on request)

### 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

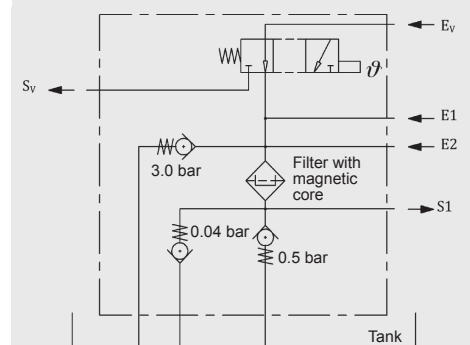
### 1.8 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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 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



Suction line S1	G 1 1/4
Control connection outlet Sv	G 3/4
Return line E1	G 1 1/4
Return line E2	G 3/4
Return side, control connection Ev	G 3/4
Clogging indicator J1	G 1/8

## 2. MODEL CODE (also order example)

**SRC 3 UMC 010 V M B U N04 000 V50 N 2 /-XXX**

### 2.1 FILTER ASSEMBLY

#### Filter type

SRC

#### Size

3, 4

#### Filter material

ULP Glass fibre  
UMC Glass fibre with pre-filter

#### Filtration rating in $\mu\text{m}$

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

U E1 = G1 1/4; E2 = G3/4; Ev = G3/4; S1 = G1 1/4; Sv = G3/4; J1 = G1/8

#### Anticavitation valve

N00 without anticavitation valve  
N04 with 0.04 bar

#### Protective element for anticavitation

000 without  
100 100  $\mu\text{m}$   
160 160  $\mu\text{m}$

#### 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 $\mu\text{m}$

ULP 0010, 0025

UMC 0010, 0020

### RT code

### Seals

N NBR (Perbunan)

V FKM

### Packaging

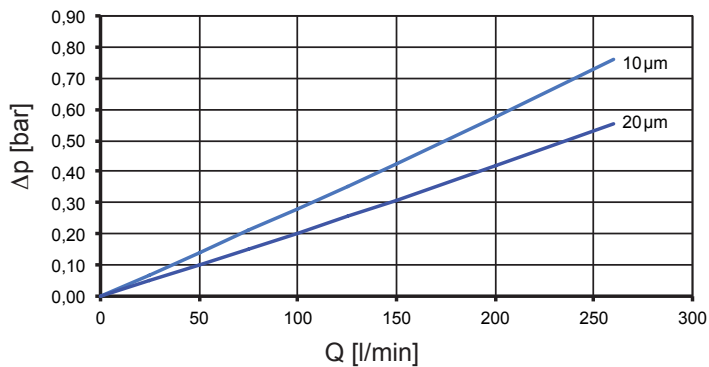
### Supplementary details

## 3. FILTER CALCULATION / DIMENSIONING

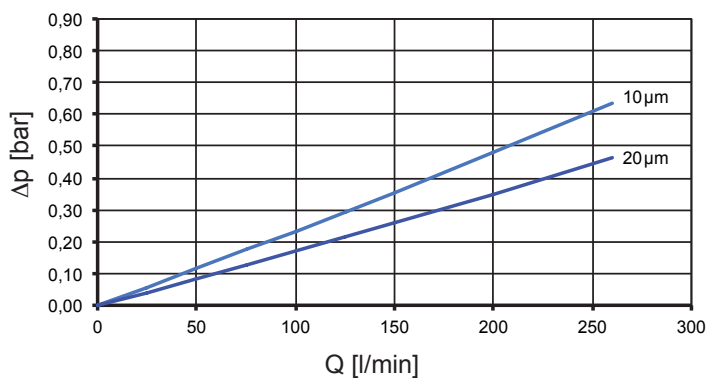
### 3.1 PERFORMANCE CURVES FOR FILTER ASSEMBLY

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

#### SRC3



#### SRC4



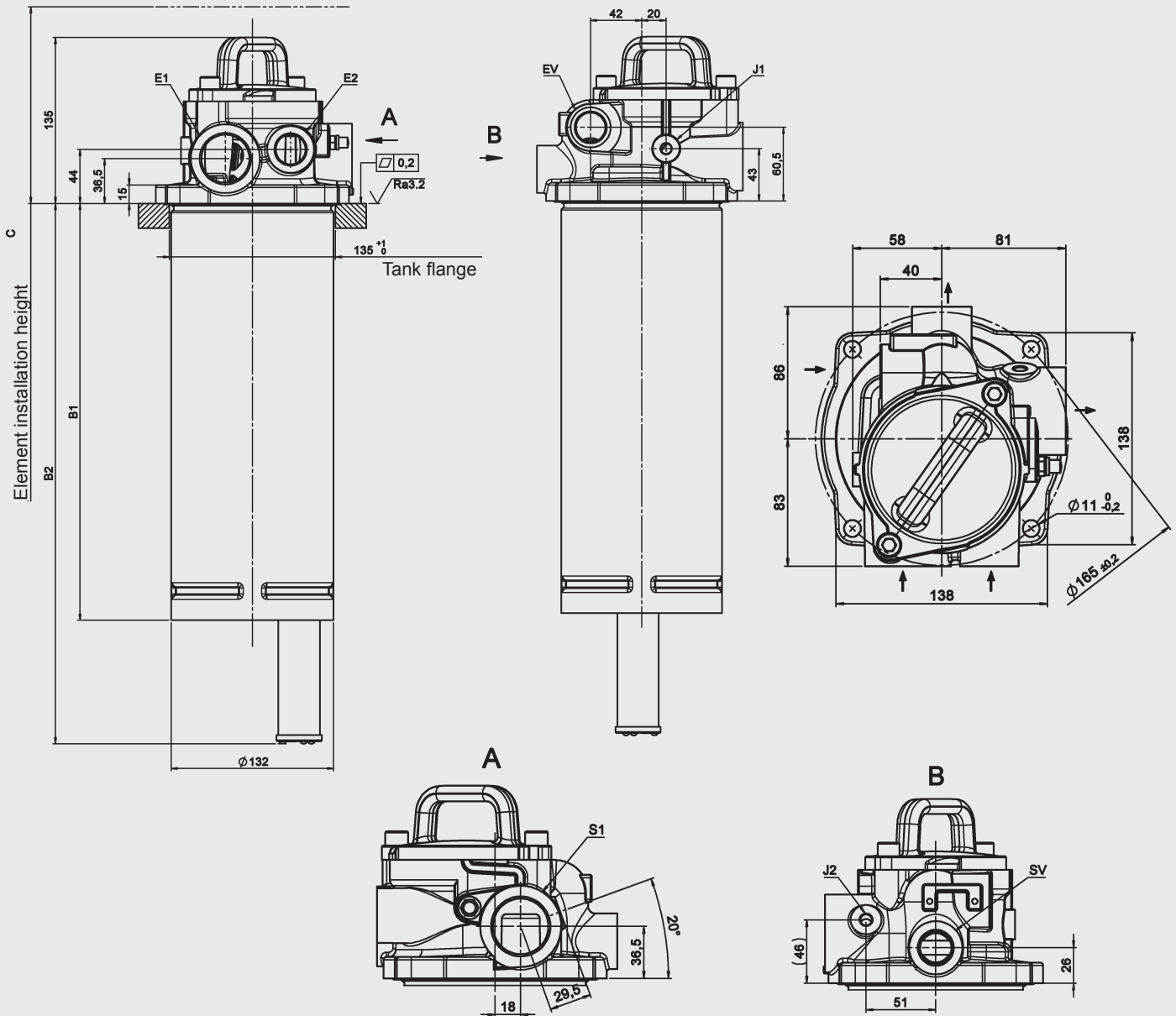
Other curves on request

## 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.

### SRC 3-4



Type	B1	B2	Element removal height Cmin.	Weight incl. element [kg]
SRC 3	339	439.5	450	6.2
SRC 4	443	543.5	550	6.4

### 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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