



RT FILTER TECHNIK

Suction Line Filter SCI

Element flow direction from in to out
up to 100 l/min



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Design

The RT suction line filters in this series are designed to be installed inside the line. The RT elements for this suction line filter offer minimal pressure loss combined with a good retention rate. Along with the large filter area, this minimises cavitation at the pumps. Two integrated magnetic cores result in increased filtration performance.

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

Standard equipment

- mounting holes on the filter head
- two magnetic cores built into the cover
- without 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:

Wire mesh (WPI): 6 bar

Other filtration ratings on request.

1.3 FILTER SPECIFICATIONS

Temperature range	-30 °C to +100 °C
Material of filter housing	Cast aluminium
Material of cover	Cast aluminium

1.4 SEALS

NBR (= Perbunan)

1.5 INSTALLATION

The filter is installed in the suction line to allow the filter element to be removed upwards vertically.

1.6 SPECIAL MODELS AND ACCESSORIES

- port for clogging indicator
- with or without a magnetic core
- seals in FKM

1.7 SPARE PARTS

See Original Spare Parts List

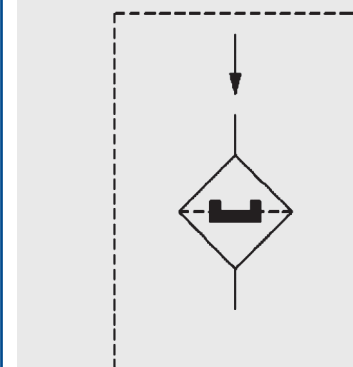
1.8 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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.

Symbol



2. MODEL CODE (also order example)

SCI 100 WPI 980 X M W MM N J0 VX X 1 /-XXX

2.1 FILTER ASSEMBLY

Filter type

SCI

Size

100

Filter material

WPI Wire mesh

Filtration rating in μm

WPI 50, 100, 200, 980

Inlet valve

X without inlet valve

Magnetic core

M with magnetic cores
X without magnetic cores

Setting range

W suction operation

Type and size of port

Type	Connection	Filter size 100
MM	4-hole flange	●
LL	SAE DN 50	●

others on request

Seals

N NBR (Perbunan)
V FKM

Position of clogging indicator

J0 without clogging indicator, unbored

Clogging indicator

VX without clogging indicator, unbored

Response pressure of clogging indicator

X no clogging indicator

Modification number

X the latest version is always supplied

Supplementary details

2.2 REPLACEMENT ELEMENT

WPI-0980-xxx-xxxx-x-N-RT /-XXX

Filter material

WPI

Filtration rating in μm

WPI 0050, 0100, 0200, 0980

RT code

Seals

N NBR (Perbunan)

V FKM

Packaging

Supplementary details

2.3 REPLACEMENT CLOGGING INDICATOR

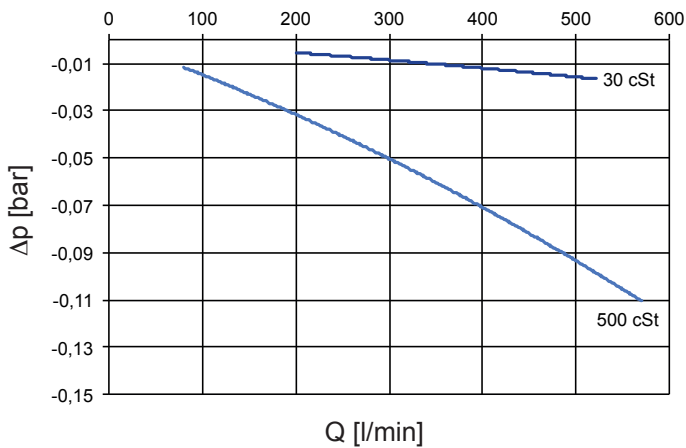
(on request)

3. FILTER CALCULATION / DIMENSIONING

3.1 PERFORMANCE CURVES FOR FILTER ASSEMBLY

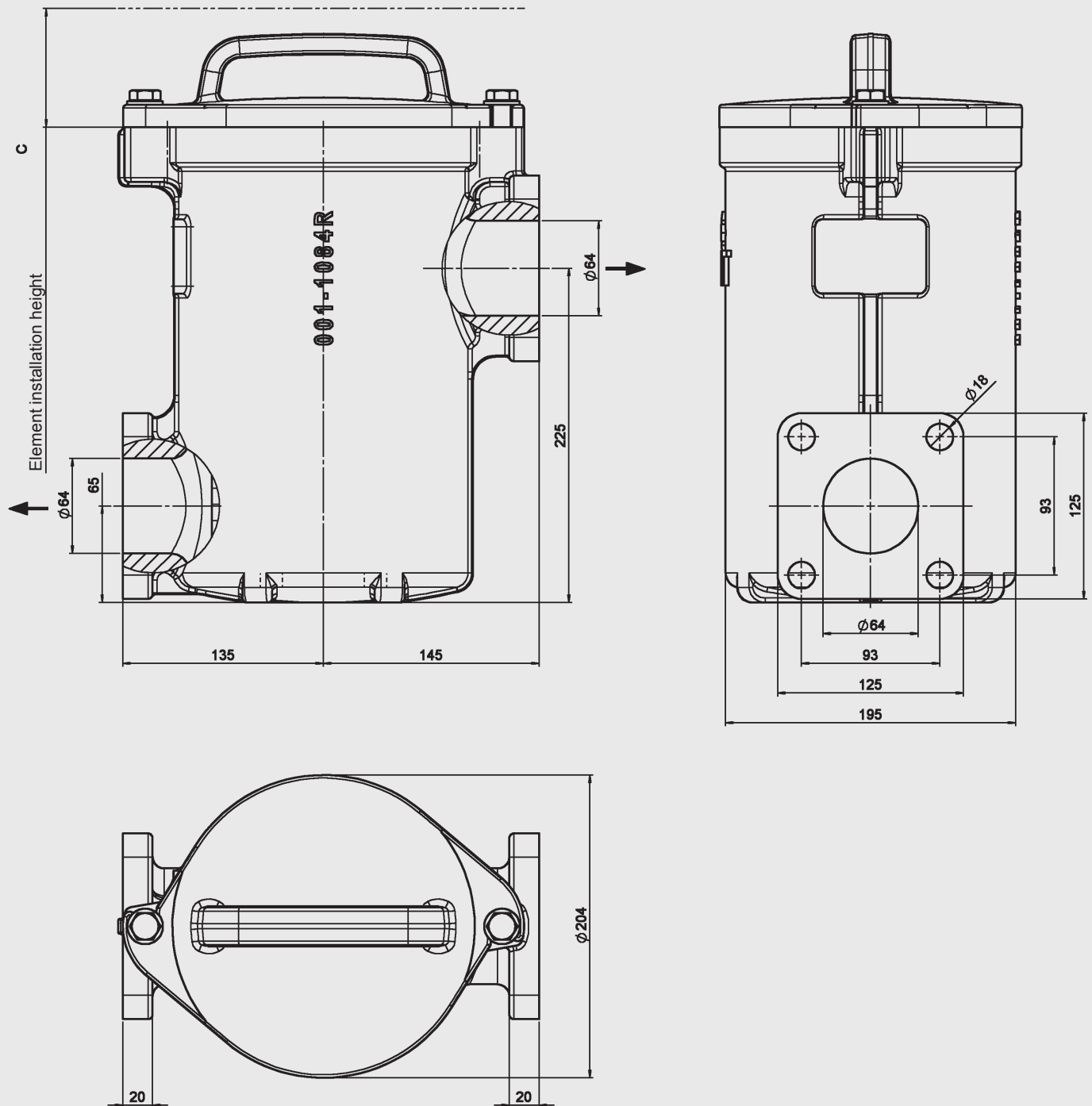
The total performance curves with WPI-0980 element apply to mineral oil with a density of 0.86 kg/dm^3 and a kinematic viscosity of $30 \text{ mm}^2/\text{s}$.

SCI 100



4. DIMENSIONS

SCI 100



Type	C _{min.}	Weight incl. element [kg]
SCI 100	300	12.5

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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