



## Suction Filter SFAR

Element flow direction from in to out  
up to 150 l/min



### 1. TECHNICAL SPECIFICATIONS

#### 1.1 FILTER HOUSING

##### Construction

The filter housings are designed in accordance with international regulations. They consist of a cover plate, filter head and housing tube. The element is top-removable.

These filters can be installed horizontally below the oil level.

Standard equipment:

- mounting holes on the filter head
- magnetic core built into cover plate
- foot valve
- connection for a clogging indicator in filter head

#### 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

	Polyester (PE)
SFAR	10 µm (nominal)
100	70.4
150	105.6

Filter elements are available with the following pressure stability values:

Polyester (PE):	6 bar
Wire mesh (WR):	6 bar

Other filtration ratings on request.

#### 1.3 FILTER SPECIFICATIONS

Temperature range	-30 °C to +100 °C
Material of housing tube	PA6 – GF30
Material of filter head	Die-casting EN AC 43300 - F
Material of cover plate	PA6 – GF30
Type of clogging indicator	VMFR – Connection thread G 1/8
Pressure setting of the clogging indicator	-0.25 bar (others on request)

#### 1.4 SEALS

NBR (= Perbunan)

#### 1.5 INSTALLATION

Tank-top filter

#### 1.6 SPECIAL MODELS AND ACCESSORIES

- without port, no clogging indicator
- without magnetic core

#### 1.7 SPARE PARTS

See Original Spare Parts List

#### 1.8 CERTIFICATES AND APPROVALS

Test certificate 2.2  
Other approvals on request

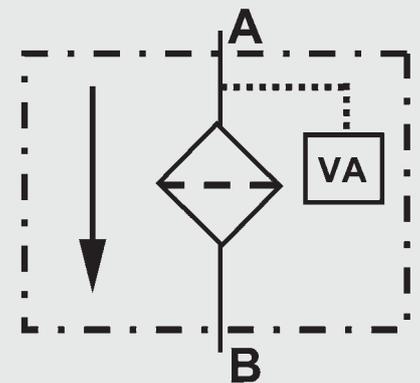
#### 1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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

#### 1.10 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 for hydraulic systems



VA = clogging indicator

## 2. MODEL CODE (also order example)

SFAR PE 100 W E 10 W 1.0 /-V

### 2.1 COMPLETE FILTER

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

SFAR

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

PE Polyester  
WR Wire mesh

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

SFAR: 100, 150

**Operating pressure** \_\_\_\_\_

W suction operation

**Type and size of connection** \_\_\_\_\_

Type	Connection type	Filter size	
		100	150
E	G 1 1/4	●	●

**Filtration rating in µm** \_\_\_\_\_

PE : 10  
WR : 100

**Type of clogging indicator** \_\_\_\_\_

W without port, no clogging indicator  
A steel blanking plug in indicator port  
UE vacuum gauge  
UF vacuum switch ] for other clogging indicators  
] see brochure no. 7.050../..

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

0 without indicator port, no clogging indicator  
1-4 see Point 2.4

**Modification number** \_\_\_\_\_

X the latest version is always supplied

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

V FPM seals  
OM without magnetic core

### 2.2 REPLACEMENT ELEMENT

0100 RS 010 PE /-V

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

0100, 0150

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

RS

**Filtration rating in µm** \_\_\_\_\_

PE : 010  
WR : 100

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

PE, WR

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

V (for descriptions, see point 2.1)

### 2.3 REPLACEMENT CLOGGING INDICATOR

VMFR 0.25 UE . X /-V

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

VMFR connection thread G 1/8

**Pressure setting** \_\_\_\_\_

0.25 0.25 bar (standard)

**Type of clogging indicator** \_\_\_\_\_

(see Point 2.1)

**Modification number** \_\_\_\_\_

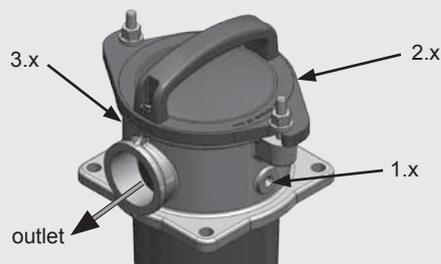
X the latest version is always supplied

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

V (for descriptions, see point 2.1)

### 2.4 TYPE CODE

Type code	Mounting position of clogging indicator
1.x	To right of filter outlet
2.x	Opposite filter outlet
3.x	To left of filter outlet
4.x	All positions drilled and with blanking plug in ports

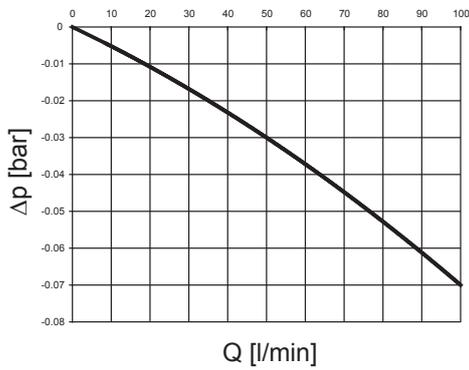


### 3. FILTER CALCULATION / SIZING

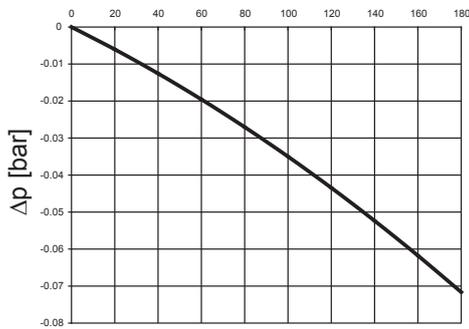
#### 3.1 GRAPHS FOR COMPLETE FILTER

The curves for complete filters apply to mineral oil with a density of 0.86 kg/dm<sup>3</sup> and a kinematic viscosity of 30mm<sup>2</sup>/s.

##### SFAR 100: PE

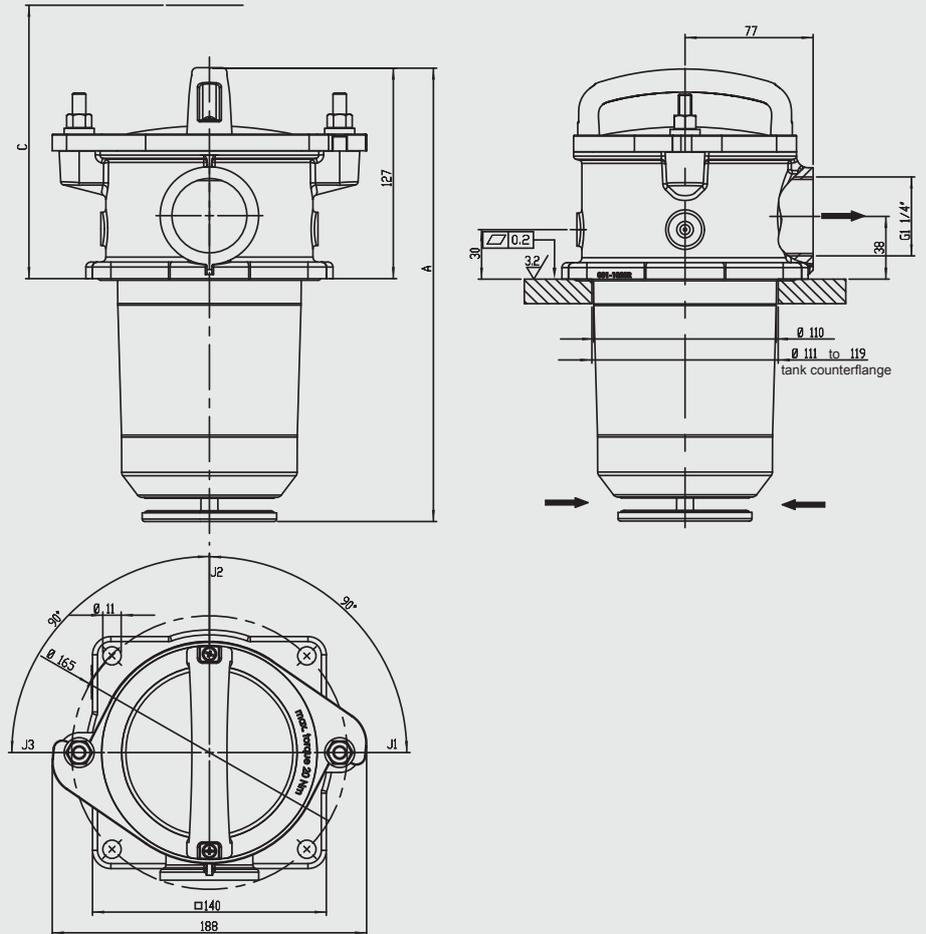


##### SFAR 150: PE



### 4. DIMENSIONS

#### SFAR 100 – 150



Type	A	C	Weight incl. element [kg]
SFAR 100	274	250	1.8
SFAR 150	354	330	2.1

