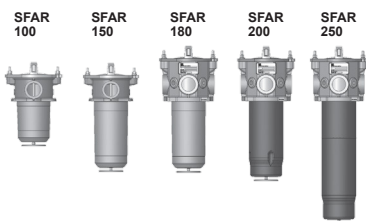




## Suction Filter SFAR

Element flow direction from in to out  
up to 250 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 for 0.5 bar

	Polyester (PE)
SFAR	10 µm (nominal)
100	15.5
150	23.2
180	27.5
200	30.4
250	42.7

Filter elements are available with the following pressure stability values:

Polyester (PE): 6 bar

Wire mesh (WR): 6 bar

Other filtration ratings on request.

#### 1.4 FILTER SPECIFICATIONS

Temperature range	-30 °C to +100 °C
Material of housing tube	SFAR 100, 150, 180: PA6 – GF30 SFAR 200, 250: Steel DIN EN 10130-FE P04 A
Material of filter head	SFAR 100, 150: Die-cast EN AC 43300 - F SFAR 180, 200, 250: Chill-cast EN AC 43300-F
Material of cover	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

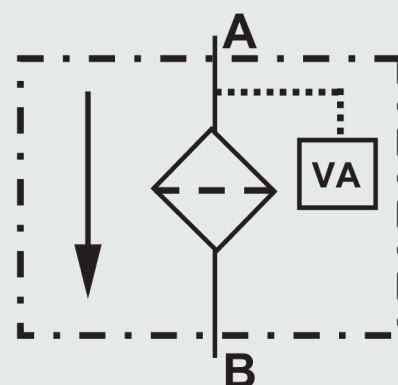
#### 1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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 245

#### 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 180 W Z F 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, 180, 200, 250

#### Operating pressure

W suction operation

#### Additional connection options multiport head

Type	Connection	Filter size				
		100	150	180	200	250
Z	to customer spec.			●	●	●

#### Type and size of connection

Type	Connection	Filter size				
		100	150	180	200	250
E G 1	1/4	●	●			
F	G 1 1/2			●	●	●

#### Filtration rating in µm

PE : 10  
WR : 100

#### Type of clogging indicator

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

#### Type code

0 without indicator port, no clogging indicator  
1-4 see Point 2.5

#### Modification number

X the latest version is always supplied

#### Supplementary details

V FPM seals  
OM without magnetic core  
MPx Multiport head only for SFAR 180, 200, 250 (see Point 2.4)

### 2.2 REPLACEMENT ELEMENT

0180 RS 010 PE /-V

#### Size

0100, 0150, 0180, 0200, 0250

#### 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

VMF 1 UE . X /-V

#### Type

VMF Thread G 1/8 (SFAR 100, 150)\*

#### Pressure setting

1 1 bar (for type UE)  
0.2 0.2 bar (for type UF)

#### 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)

\* for SFAR 180, 200 and 250 on request

2.4 PORT CONFIGURATION  
SFAR 180, 200, 250

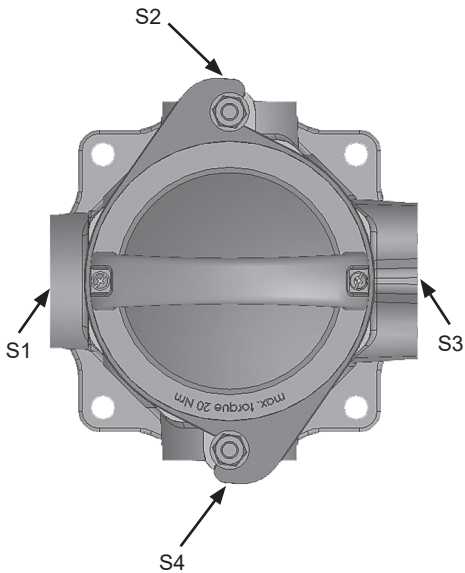
Since there are numerous options for machining the ports on the head of the SFAR 180-250, the code WZF is selected here as standard. In order to determine the position and size of the ports, an MPF, MPI or MPL code is added as a supplementary detail. These three connection options are preferred types, please contact us to discuss other options.

Example:  
SFAR PE 200 WZF 10 W 0.0 /-MPI

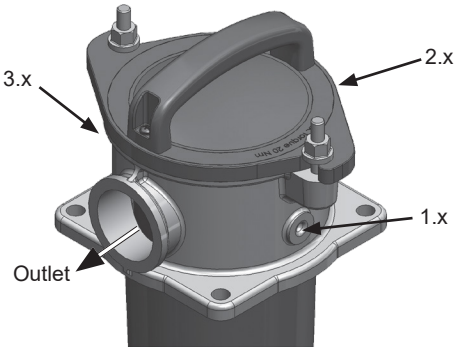
MPF  
S1: Connection G1½  
S2: Connection G1  
S3: Connection G1½  
S4: Connection G1

MPI  
S1: Connection G1½  
S2: Connection G1¼  
S3: Connection G1½  
S4: Connection G1¼

MPL  
S1: Connection G1½  
S2: Connection G1  
S3: Connection SAE DN 50  
S4: Connection G1

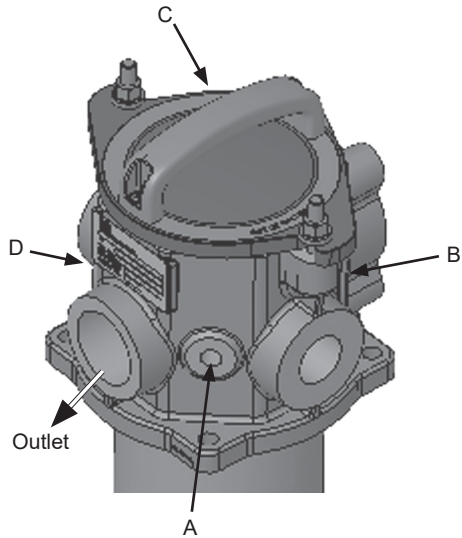


2.5 TYPE CODE  
SFAR 100, 150



Type Mounting position code of clogging indicator	
0.x	Plain, undrilled
1.x	To right of filter outlet
2.x	Opposite filter outlet
3.x	To left of filter outlet
4.x	All positions with G 1/8 port and with blanking plug in ports

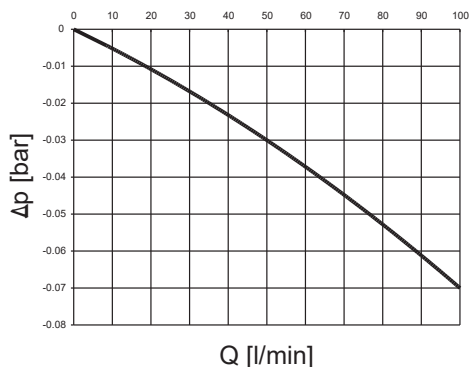
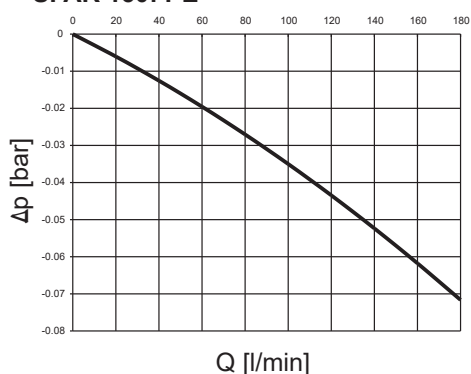
SFAR 180, 200, 250



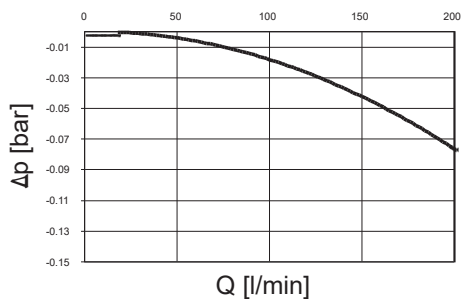
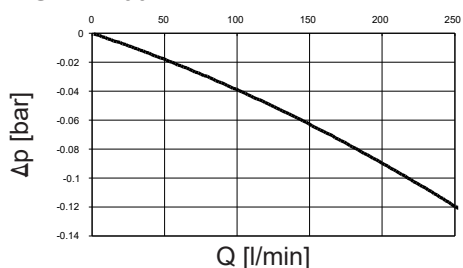
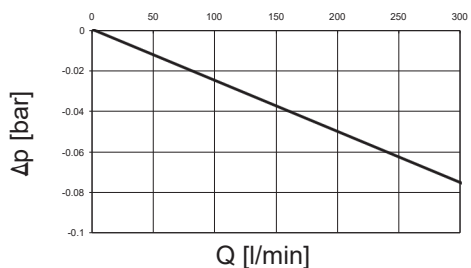
Type Mounting position code of clogging indicator	
0.x	All undrilled
1.x*	A = G 1/4; B = G 3/8; C = G 3/8; D = G 3/8
2.x*	A = G 3/8; B = G 3/8; C = G 1/4; D = G 3/8
3.x	A = G 3/8; C = G 3/8; B and D undrilled
4.x	All positions with G 1/8 port and with blanking plug in ports
* Preferred range	

### 3.1 GRAPHS FOR COMPLETE FILTER

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

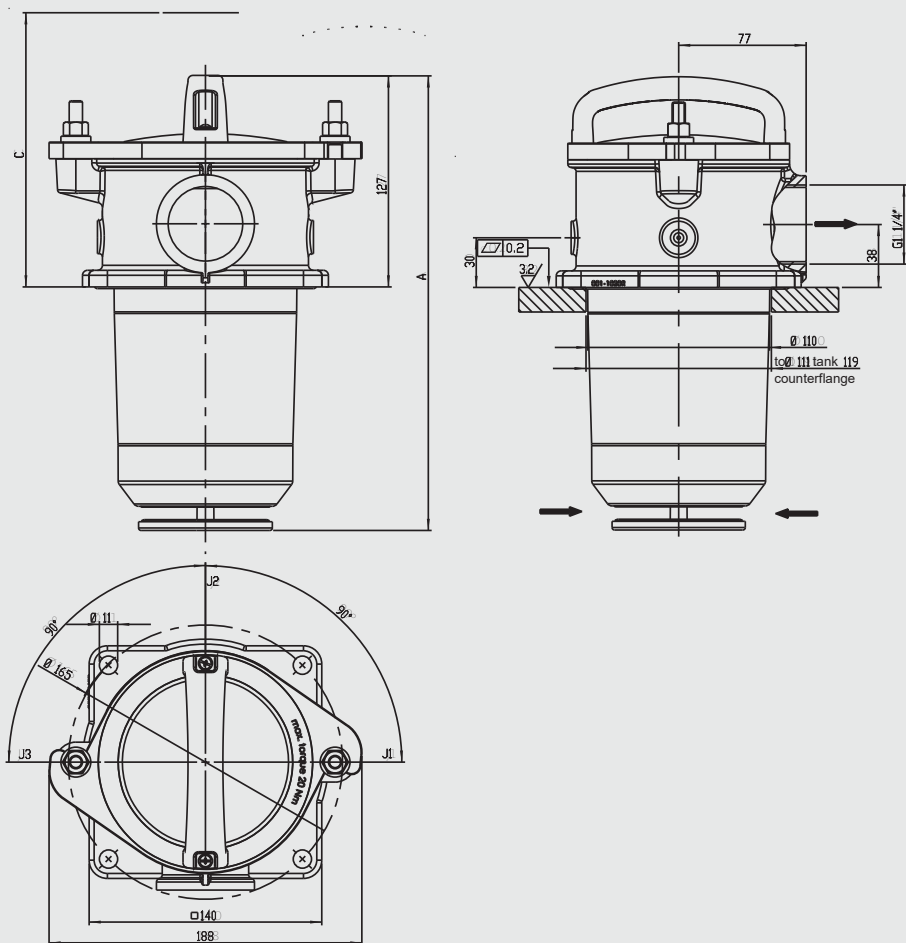
**SFAR 100: PE****SFAR 150: PE**

**SFAR 180: PE**

**SFAR 200: PE****SFAR 250: PE**

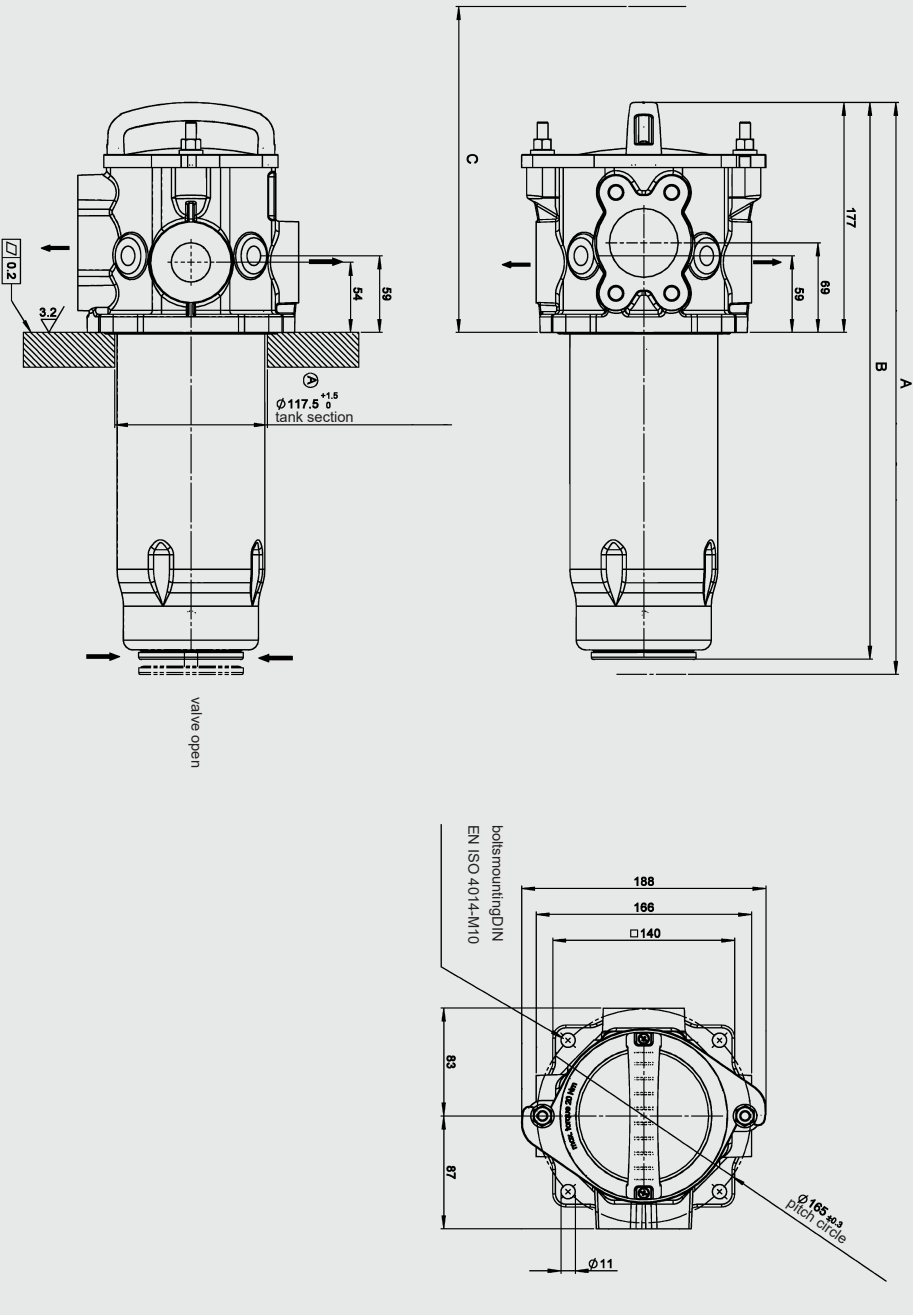
## 4. DIMENSIONS

## SFAR 100 – 150



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

SFAR 180 – 250



Type	a	B	C	Weight incl. element [kg]
SFAR 180	404	396	520	3.63
SFAR 200	441	429	580	4.68
SFAR 250	583	571	690	5.38

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.  
Subject to technical modifications.