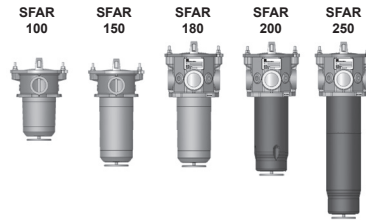




Suction Filter SFAR

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
- anti-drain 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 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

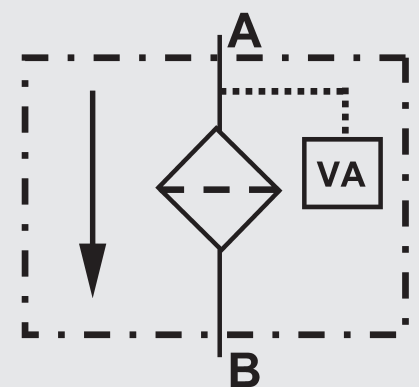
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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 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 _____

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 2.5

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

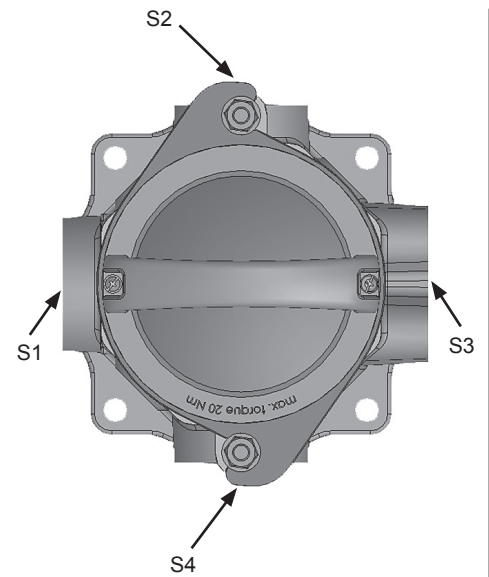
- S1: Connection G1½
- S2: Connection G1
- S3: Connection G1½
- S4: Connection G1

MPI

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

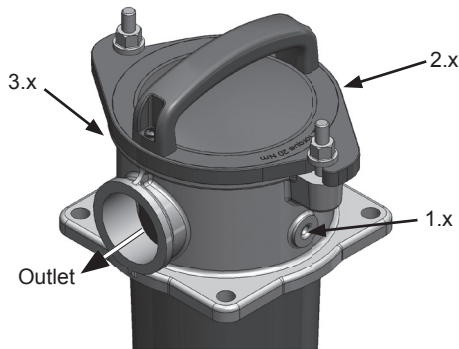
MPL

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



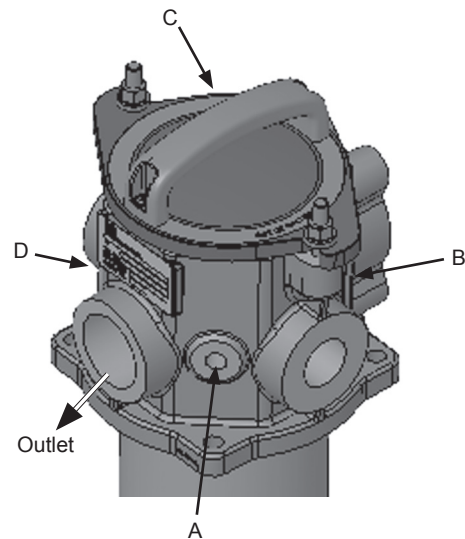
2.5 TYPE CODE

SFAR 100, 150



Type code	Mounting position 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

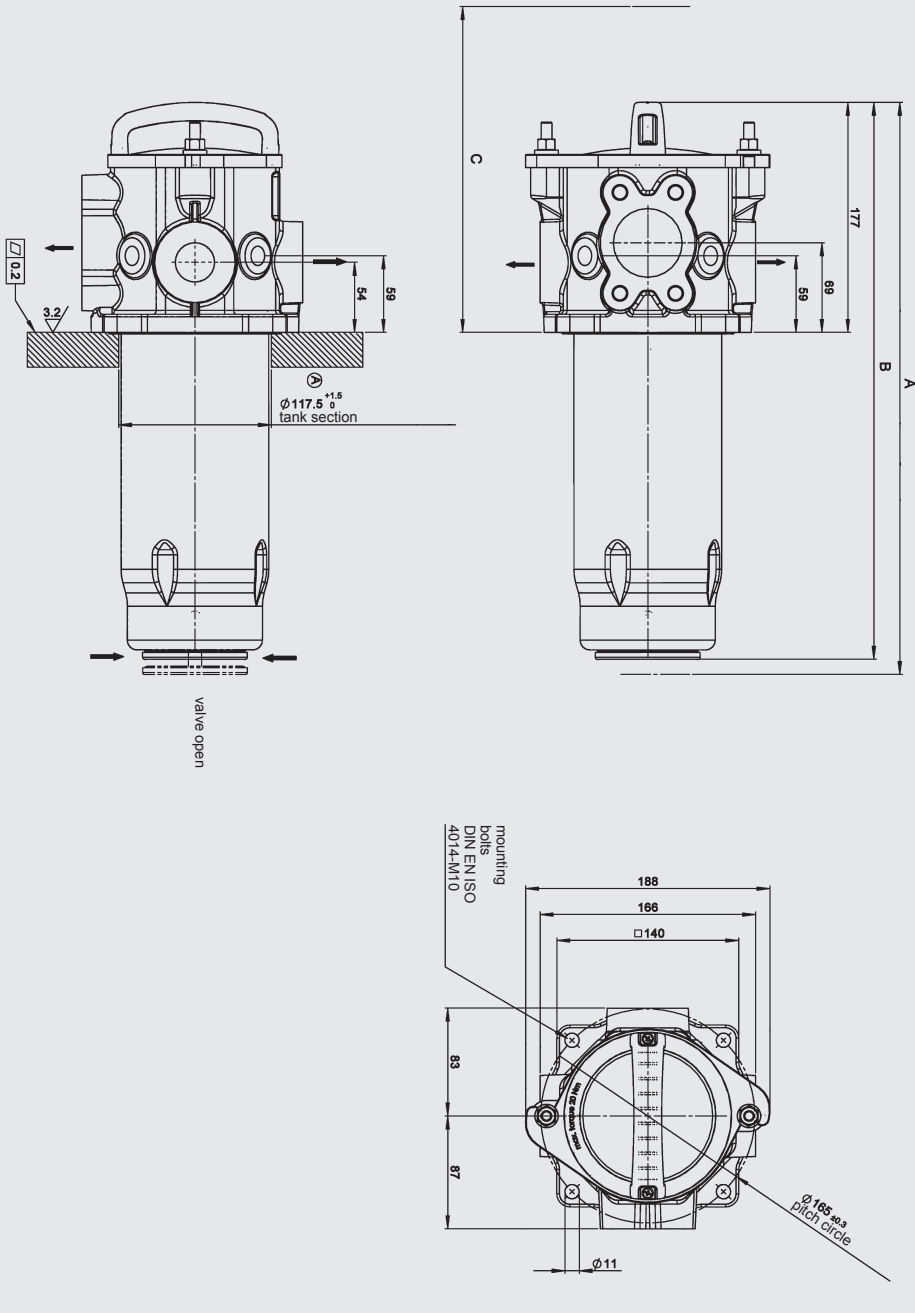
SFAR 180, 200, 250



Type code	Mounting position 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

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

