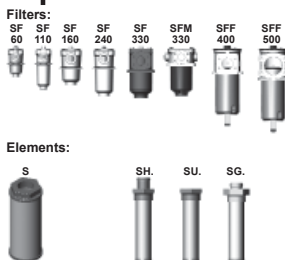




Suction Filter SF/SFM/SFF and Suction Filter Elements S/S.. up to 500 l/min



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Construction

The filter housings are designed in accordance with international regulations. The SF filters consist of a filter housing and a bolt-on cover plate. The SFM and SFF filters consist of a filter head with filter bowl and bolt-on cover plate (on the SFF there is a foot valve in the base of the filter bowl).

Standard equipment:

- bypass valve
- connection for a clogging indicator

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

The suction elements S are designed to be screwed into the suction line on pumps or inside tanks.

The suction filter elements S.. are designed to be mounted simply onto the outside of the tank. Hoses and fittings must be supported to avoid any load on the connection. Elements can be changed very simply.

It is essential that suction filter elements are always installed well below the minimum oil level.

Standard equipment:

- without bypass valve

Filter elements are available with the following pressure stability values:

| | |
|----------------|-------|
| Paper (P): | 5 bar |
| Wire mesh (W): | 5 bar |

1.3 FILTER SPECIFICATIONS

| | |
|--|---|
| Nominal pressure | Suction operation |
| Temperature range | -10 °C to +100 °C |
| Material of SF filter | Cover plate: aluminium Housing: aluminium |
| Material of SFM filter | Cover plate: aluminium Filter head: aluminium Filter bowl: polyamide |
| Material of SFF filter | Cover plate: GGG40 Filter head: aluminium Filter bowl: steel |
| Material of S elements | Filter mesh: wire mesh End caps: polyamide Central tube: steel, zinc-plated |
| Material of S.. elements | Filter mesh: wire mesh End caps: on request Central tube: on request |
| Type of clogging indicator | VR Connection thread G 1/2 V1/4 Conn. thread NPT (only SFF) |
| Pressure setting of the clogging indicator | 0.2 to 2 bar (others on request) |
| Bypass cracking pressure | 0.25 bar (SFF filter) 0.3 bar (SF and SFM filter) (others on request) |
| Cracking pressure of bypass valve for suction filter elements S (optional) | 0.2 bar |

1.4 SEALS

NBR (= Perbunan)

1.5 INSTALLATION

As tank-top or inline filter.

1.6 SPECIAL MODELS AND ACCESSORIES

On request

1.7 SPARE PARTS

See Original Spare Parts List

1.8 CERTIFICATES AND APPROVALS

On request

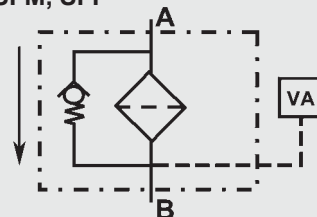
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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
- Fire-resistant fluids HFA, HFB, HFC and HFD
- Operating fluids with high water content (>50% water content) on request

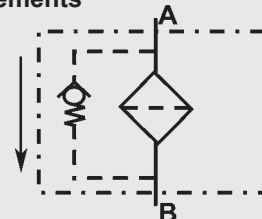
1.10 IMPORTANT INFORMATION

- 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 SF, SFM, SFF



S elements



VA = clogging indicator

2. MODEL CODE (also order example)

2.1 COMPLETE FILTER

Filter type

SF, SFM, SFF

Filter material

P paper (not for SFF)
W stainless steel wire mesh

Size of filter or element

SF: 60, 110, 160, 240, 330
SFM: 330
SFF: 400, 500

Operating pressure

W suction operation

Type and size of connection

| Type | Connection | Filter size | | | | | | | |
|------|-----------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|
| | | SF 60 | SF 110 | SF 160 | SF 240 | SF 330 | SFM 330 | SFF 400 | SFF 500 |
| C | G ¾ | • | • | | | | | | |
| E | G 1¼ | | | • | • | | | | |
| F | G 1½ | | | | | | • | | |
| G | G 2 | | | | | • | | | |
| K | SAE DN 40 (1½") | | | | | | • | | |
| L | SAE DN 50 (2") | | | | | • | | | |
| M | SAE DN 65 (2½") | | | | | | | • | |
| P | SAE DN 100 (4") | | | | | | | | • |

Filtration rating

P: 10, 20 (not for SFF)
W: 75, 125

Type of clogging indicator

A steel blanking plug in indicator port
E pressure gauge
UE vacuum gauge
UF vacuum switch

for other clogging indicators
see brochure no. 7.050../..

Type code

1

Modification number

X the latest version is always supplied

Supplementary details

KB without bypass valve
V FPM seals
W suitable for HFA and HFC emulsions

2.2 REPLACEMENT ELEMENT FOR SF / SFM / SFF FILTERS

Size

0060, 0110, 0160, 0240, 0330, 0400, 0500

Type

RS

Filtration rating in µm

P: 010, 020 (not for SFF)
W: 075, 125

Filter material

P, W

Supplementary details

SFF must be added to model code for SFF filter
V, W (for descriptions, see Point 2.1)

2.3 REPLACEMENT CLOGGING INDICATOR

Type

VR connection thread G ½ (only for SF and SFM filter)
V1/4 connection thread NPT (only for SFF filter)

Pressure setting

2 2 bar (for type E)
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)

SF W 330 W L 10 UE 1 . X /-V

0330 RS 075 W /-V

VR 1 UE . X /-V

2.4 SUCTION FILTER ELEMENT S 0050 S 125 W /-B0.2

Size 0015, 0025, 0050, 0100, 0180

Type S

Filtration rating in μm 075, 125

Filter material W

Supplementary details

B0.2 special cracking pressure of bypass 0.2 bar;
no details = standard

2.5 SUCTION FILTER ELEMENT S.. 0070 SGD 125 W

Size 0040, 0060, 0070, 0110

Type SHB* suction filter element hose connection
(38.1 and 32)

SUI* suction filter element UN thread
(1 1/16-12 UN and 1 6/16-12UN)

SG.* suction filter element thread
(G 3/4, G 1, G 1 1/2)

Filtration rating in μm 125

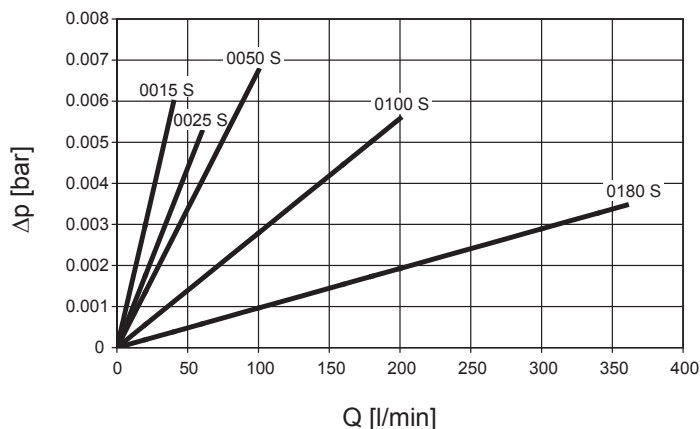
Filter material W

*for further details on the designation, please see point 5

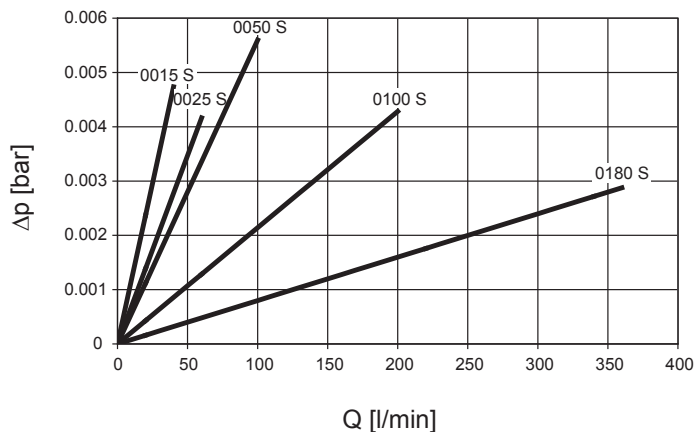
3. FILTER CALCULATION / SIZING S AND S..

3.1 ΔP -Q-GRAPHS FOR SUCTION FILTER ELEMENTS S (AT 30 mm^2/s)

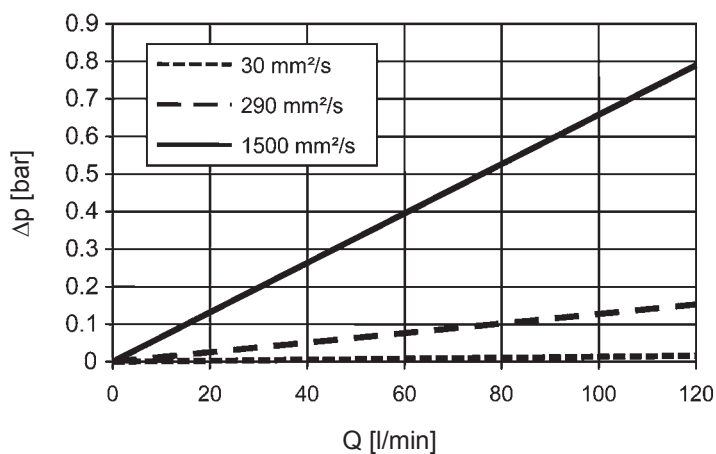
75 μm



125 μm



3.2 ΔP -Q-GRAPHS FOR SUCTION FILTER ELEMENTS S.. FOR MOUNTING ON OUTSIDE OF TANK



4. FILTER CALCULATION / SIZING SF, SFM, SFF

The total pressure drop of a filter at a certain flow rate Q is the sum of the housing Δp and the element Δp and is calculated as follows:

$$\Delta p_{\text{total}} = \Delta p_{\text{housing}} + \Delta p_{\text{element}}$$

$$\Delta p_{\text{housing}} = (\text{see Point 4.1})$$

$$\Delta p_{\text{element}} = Q \cdot \frac{SK^*}{1000} \cdot \frac{\text{viscosity}}{30}$$

(*see point 4.2)

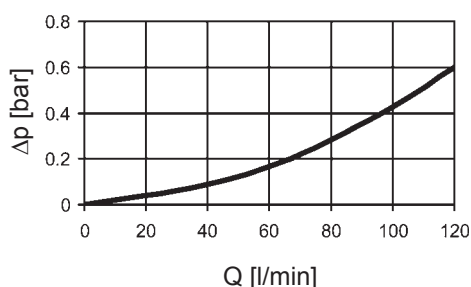
For ease of calculation, our Filter Sizing Program is available on request free of charge.

NEW: Sizing online at www.hydac.com

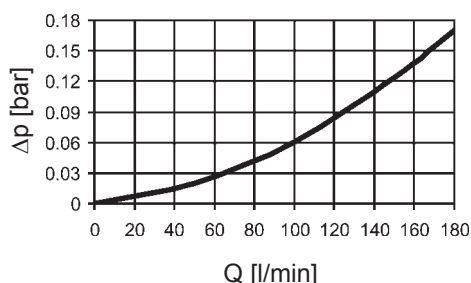
4.1 Δp -Q HOUSING CURVES BASED ON ISO 3968

The housing curves apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30 mm²/s. In this case, the differential pressure changes proportionally to the density.

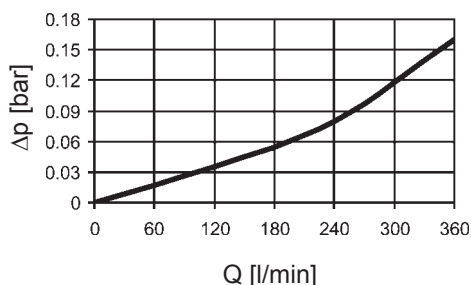
SF 60, 100



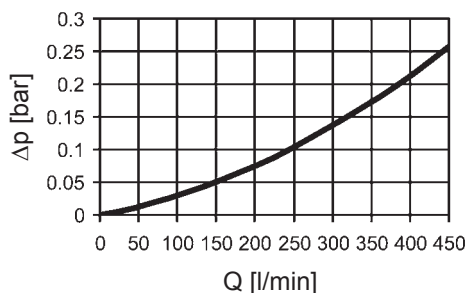
SF 160, 240



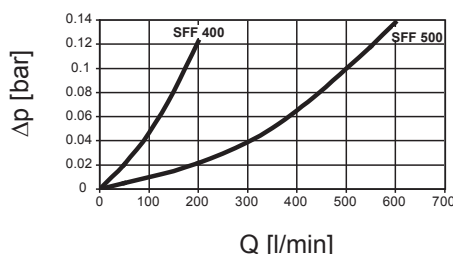
SF 330



SFM 330



SFF 400, 500

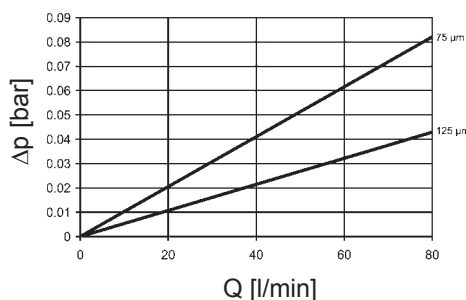


4.2 GRADIENT COEFFICIENTS (SK) FOR FILTER ELEMENTS (FOR SF/SFM/SFF FILTERS)

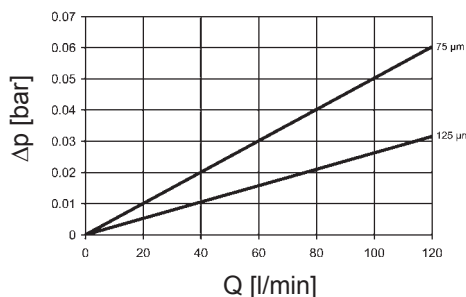
The gradient coefficients in mbar/(l/min) apply to mineral oils with a kinematic viscosity of 30 mm²/s. The pressure drop changes proportionally to the change in viscosity.

| RS | W | |
|-----|-------|--------|
| | 75 μm | 125 μm |
| 60 | 1.03 | 0.54 |
| 110 | 0.52 | 0.26 |
| 160 | 0.36 | 0.19 |
| 240 | 0.25 | 0.13 |
| 330 | 0.19 | 0.10 |
| 400 | 0.20 | 0.16 |
| 500 | 0.20 | 0.16 |

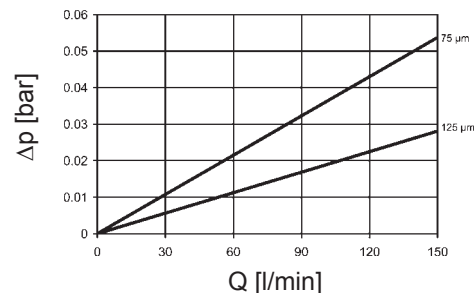
60 W



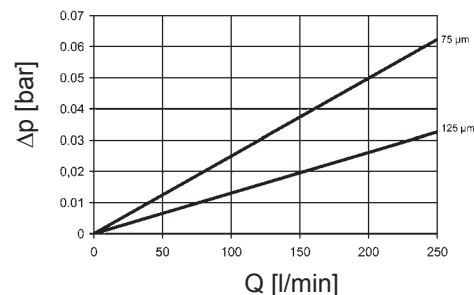
110 W



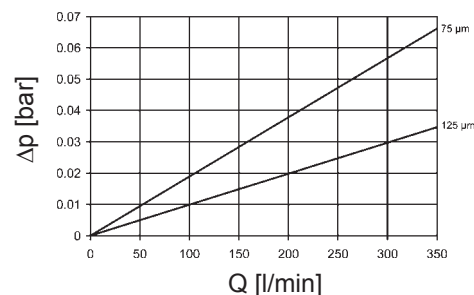
160 W



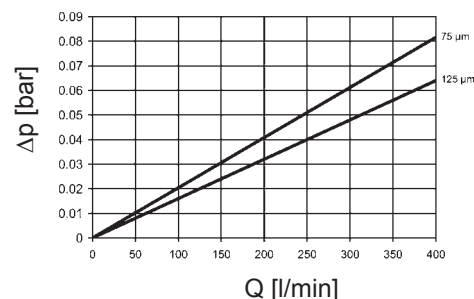
240 W



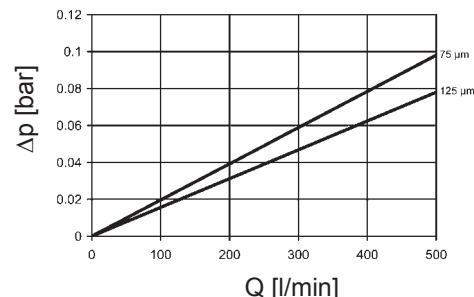
330 W



400 W

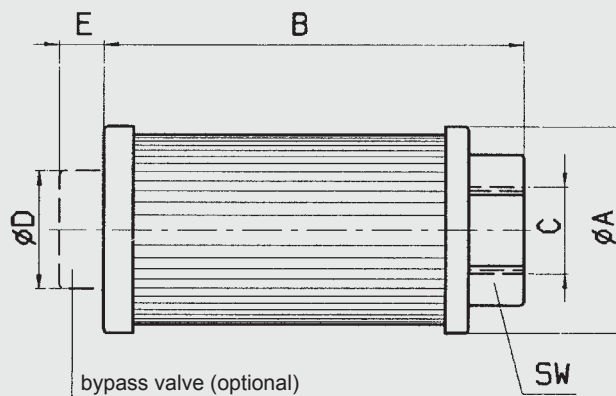


500 W



5. DIMENSIONS

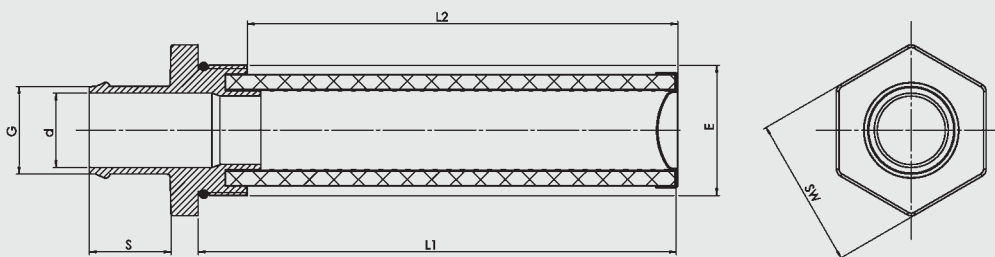
Suction filter element S



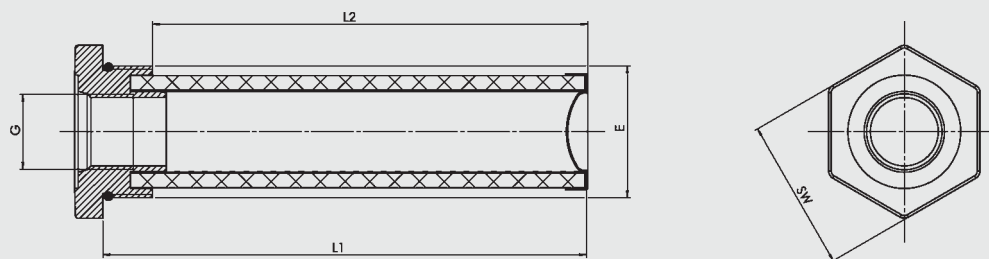
| Types | A | B | C | D (ISO 228) | E | SW | Flow rate l/min |
|--------|------|-----|------|----------------|------|----|--------------------|
| 0015 S | 44 | 104 | G ½ | 24 | 10.5 | 30 | 15 |
| 0025 S | 63 | 127 | G ¾ | 36 | 13.5 | 46 | 25 |
| 0050 S | 63 | 159 | G 1 | 36 | 13.5 | 46 | 50 |
| 0100 S | 86 | 210 | G 1½ | 46 | 18.5 | 69 | 100 |
| 0180 S | 86.5 | 311 | G 2 | 46 | 18.5 | 69 | 180 |

Suction filter element S.. for mounting on the outside of tank

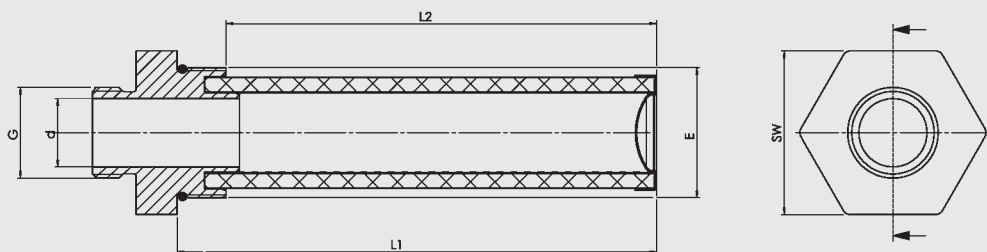
Type SHB



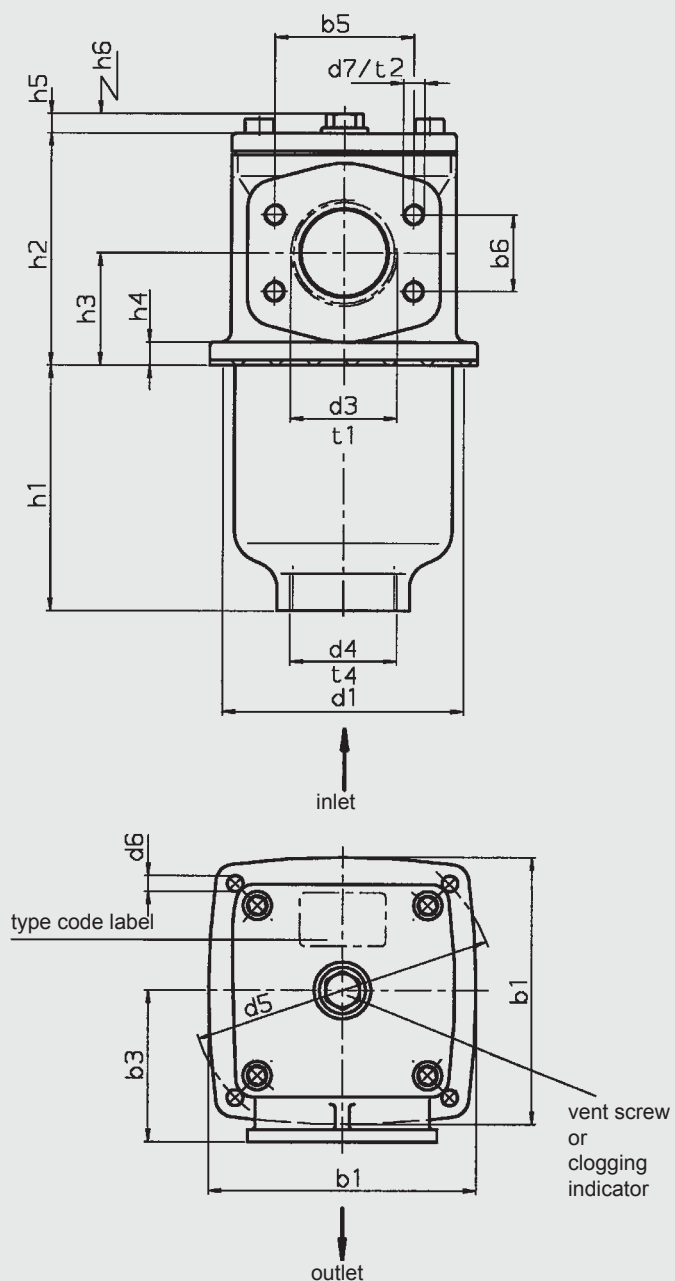
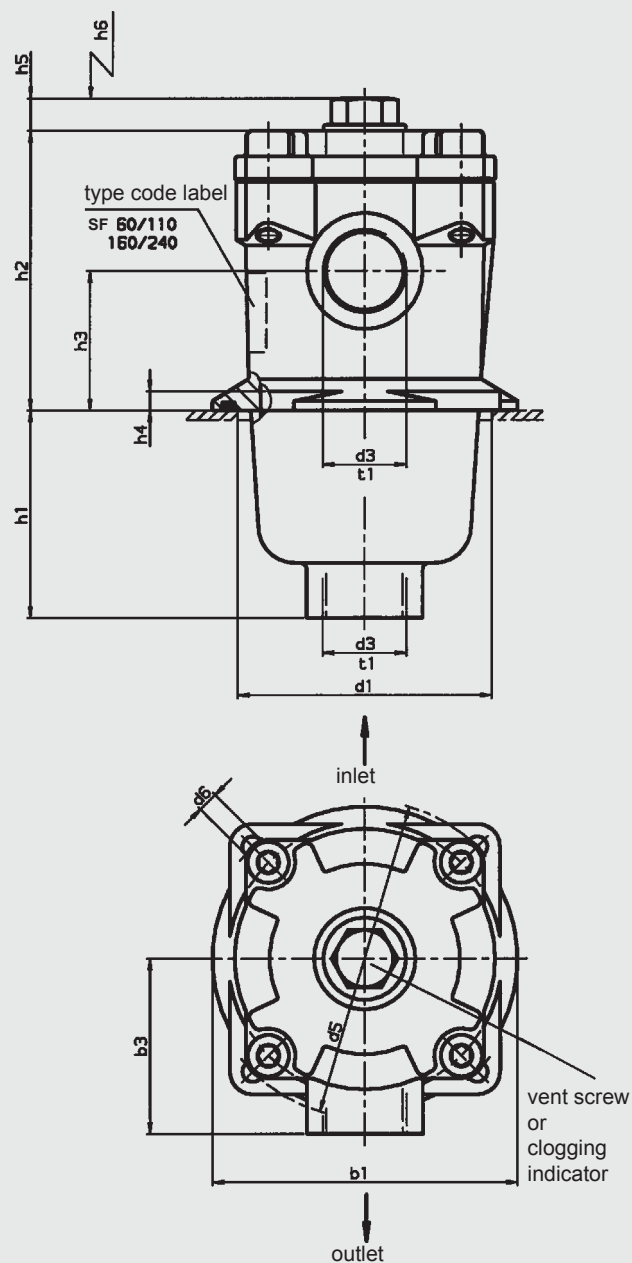
Type SUI



Type SGx

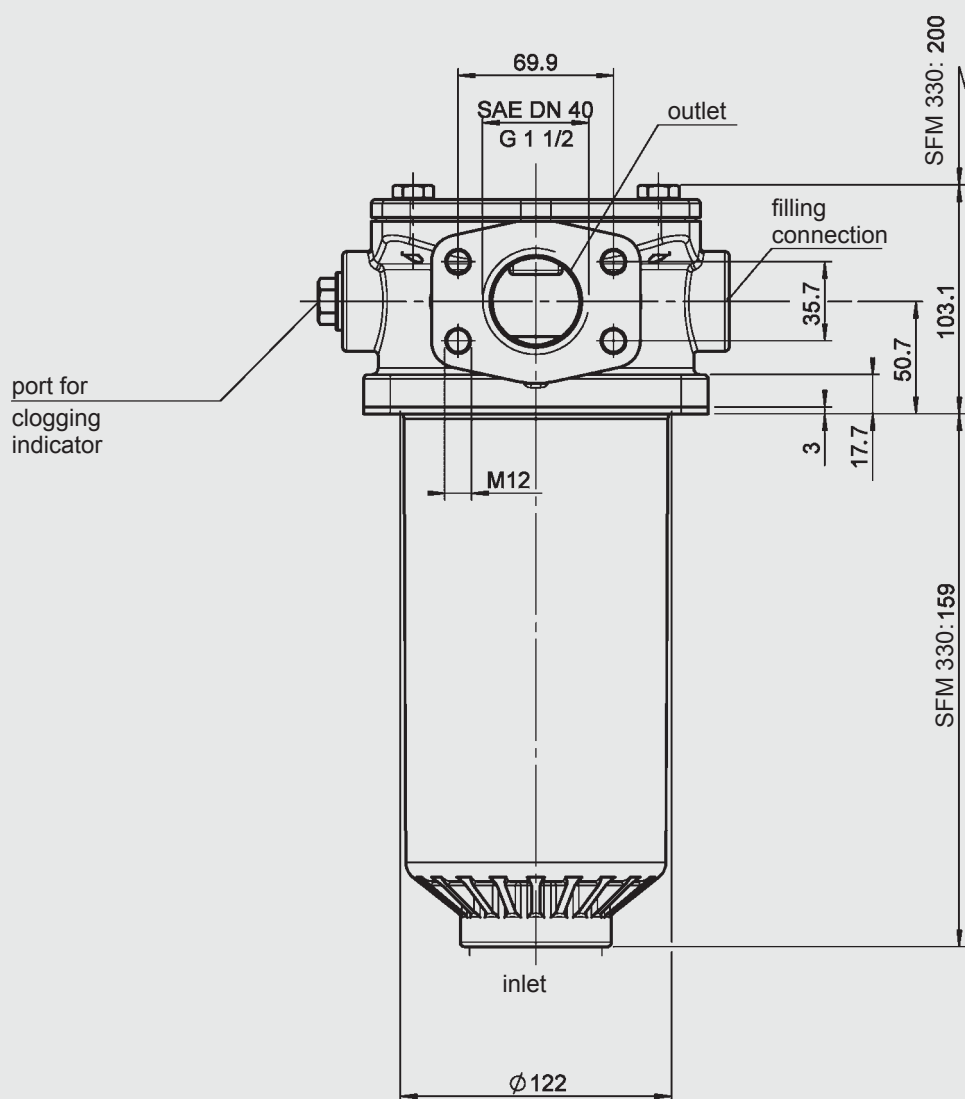


| Designation | G | E | d | L1 | L2 | SW |
|----------------|--------------|--------------|----|-----|-----|----|
| 0110 SHB 125 W | 38.1 | 2½-12 UN 2 B | 32 | 176 | 158 | 70 |
| 0070 SHB 125 W | 32.0 | 1 7/8-12 UNF | 25 | 176 | 158 | 55 |
| 0060 SHB 125 W | 32.0 | 1 7/8-12 UNF | 25 | 143 | 125 | 55 |
| 0070 SUI 125 W | 1 1/16-12 UN | 1 7/8-12 UNF | - | 176 | 158 | 55 |
| 0060 SUI 125 W | 1 1/16-12 UN | 1 7/8-12 UNF | - | 143 | 125 | 55 |
| 0110 SGF 125 W | G 1½ | 2½-12 UN 2 B | 34 | 176 | 158 | 70 |
| 0070 SGD 125 W | G 1 | 2½-12 UN 2 B | 25 | 176 | 158 | 60 |
| 0040 SGC 125 W | G ¾ | 1 7/8-12 UNF | 20 | 143 | 125 | 55 |

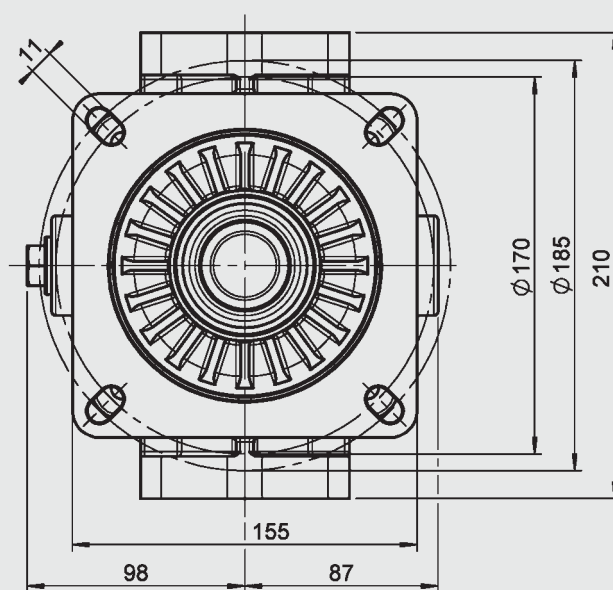


| SF | b1 | b3 | b5 | b6 | d1 | d3 ¹⁾ | d4 | d5 | d6 ²⁾ | d7 | h1 | h2 | h3 | h4 | h5 | h6 | t1 | t2 | t4 | Weight incl. element [kg] | Volume of pressure chamber [l] |
|-----|-----|----|------|------|-----|------------------|----|-----|------------------|-----|-----|-----|----|----|----|-----|----|----|----|------------------------------------|---|
| 60 | 96 | 55 | - | - | 80 | G ¾ | - | 100 | M5 | - | 63 | 88 | 44 | 6 | 12 | 80 | 17 | - | - | 0.9 | 0.4 |
| 110 | 96 | 55 | - | - | 80 | G ¾ | - | 100 | M5 | - | 130 | 88 | 44 | 6 | 12 | 145 | 17 | - | - | 1.1 | 0.6 |
| 160 | 126 | 72 | - | - | 106 | G 1¼ | - | 135 | M6 | - | 89 | 108 | 54 | 6 | 12 | 120 | 20 | - | - | 1.8 | 1.0 |
| 240 | 126 | 72 | - | - | 106 | G 1¼ | - | 135 | M6 | - | 150 | 108 | 54 | 6 | 12 | 180 | 20 | - | - | 2.2 | 1.4 |
| 330 | 150 | 85 | - | - | 135 | G2 SAE DN 50 | G2 | 170 | M8 | - | 138 | 131 | 63 | 13 | 12 | 180 | 27 | - | 27 | 4.1 | 2.0 |
| | | | 77.8 | 42.9 | | | | | | M12 | | | | | | | | 23 | | | |

¹⁾ Threaded port to ISO 228 / ²⁾ Mounting hole for screw

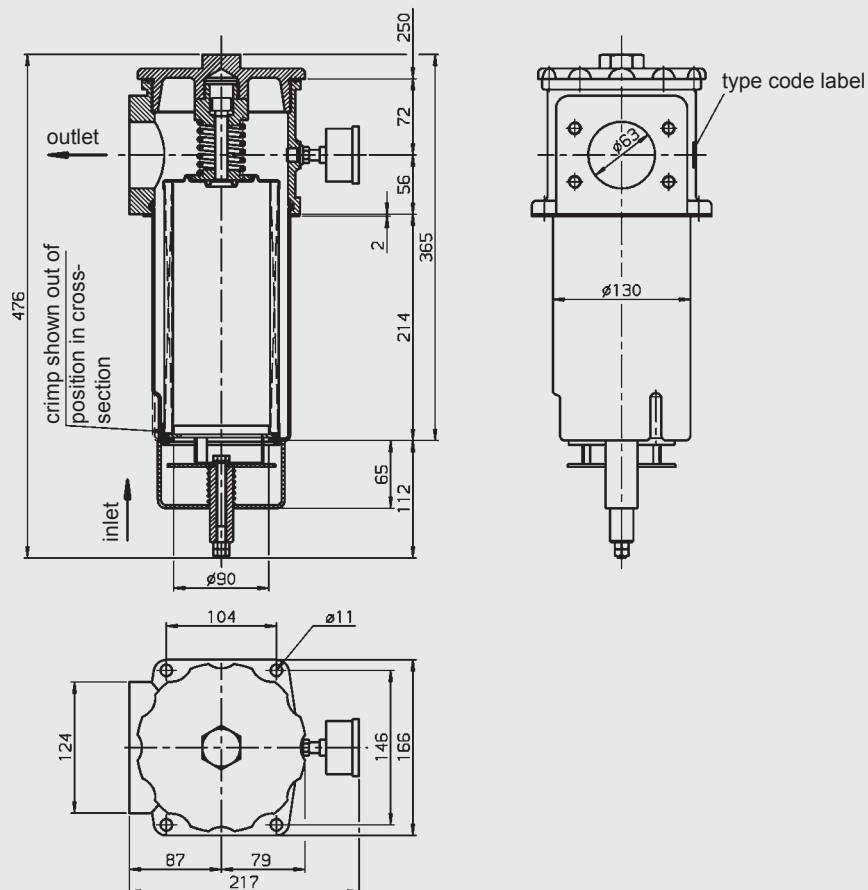


View from below

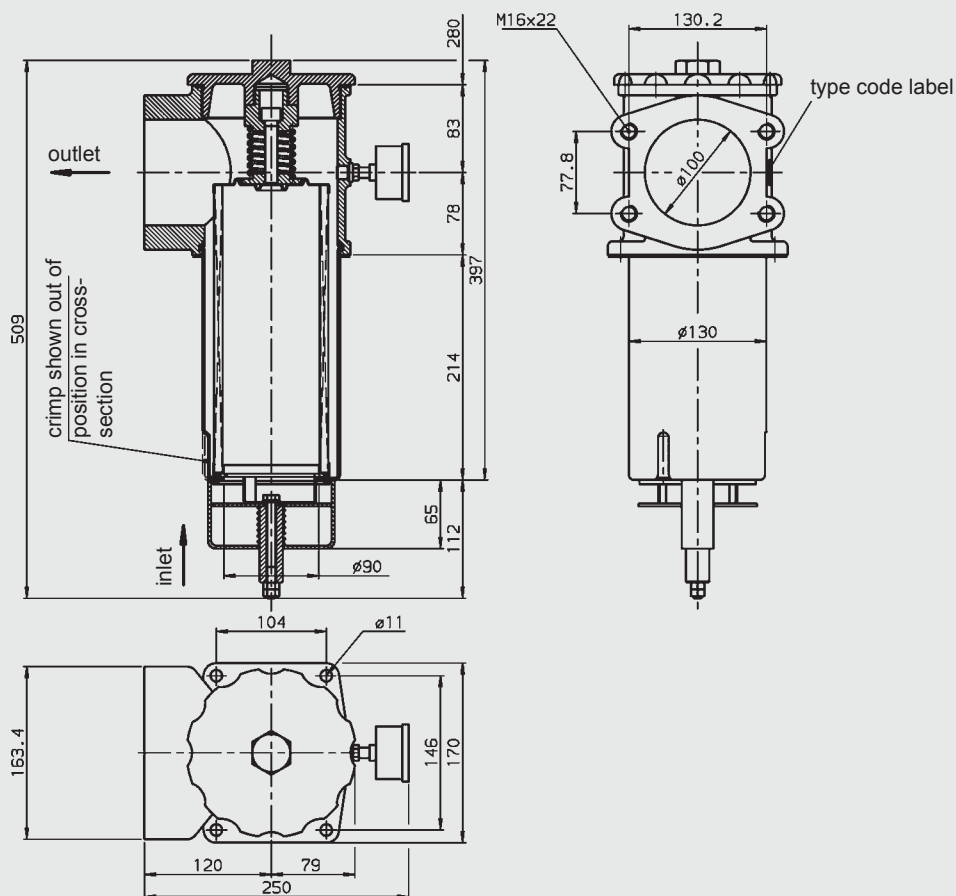


| SFM | Weight incl. element [kg] | Volume of pressure chamber [l] |
|-----|------------------------------------|---|
| 330 | 3.9 | 2.0 |

SFF 400



SFF 500



| SFF | Volume of pressure chamber [l] |
|-----|--------------------------------|
| 400 | 4.23 |
| 500 | 4.63 |

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.
Subject to technical modifications.

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E-mail: filter@hydac.com



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

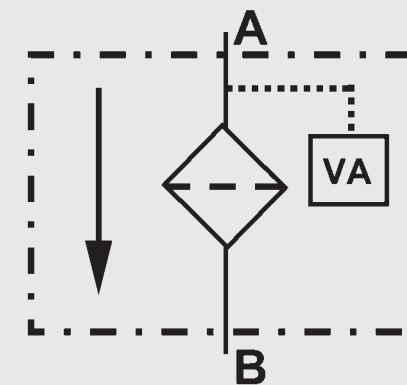
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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)

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

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

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

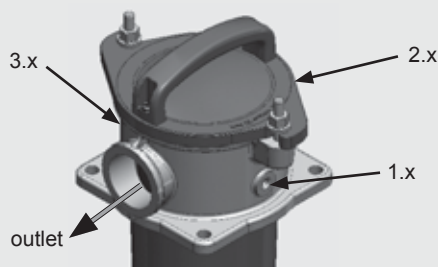
X the latest version is always supplied

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 |



SFAR PE 100 W E 10 W 1.0 /-V

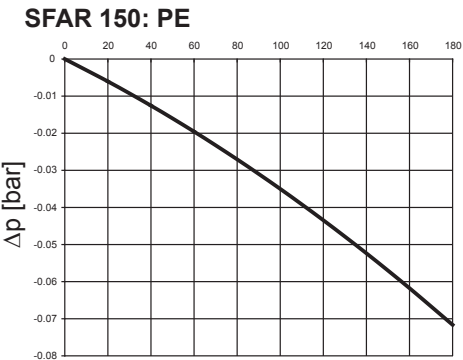
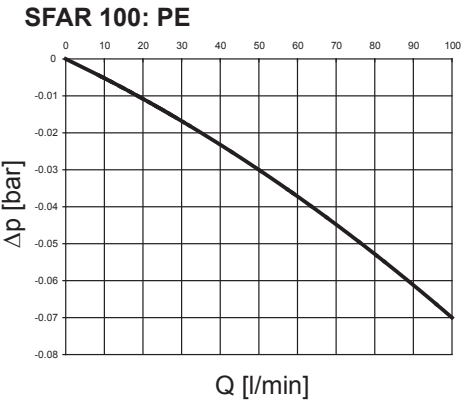
0100 RS 010 PE /-V

VMFR 0.25 UE . X /-V

3. FILTER CALCULATION / SIZING

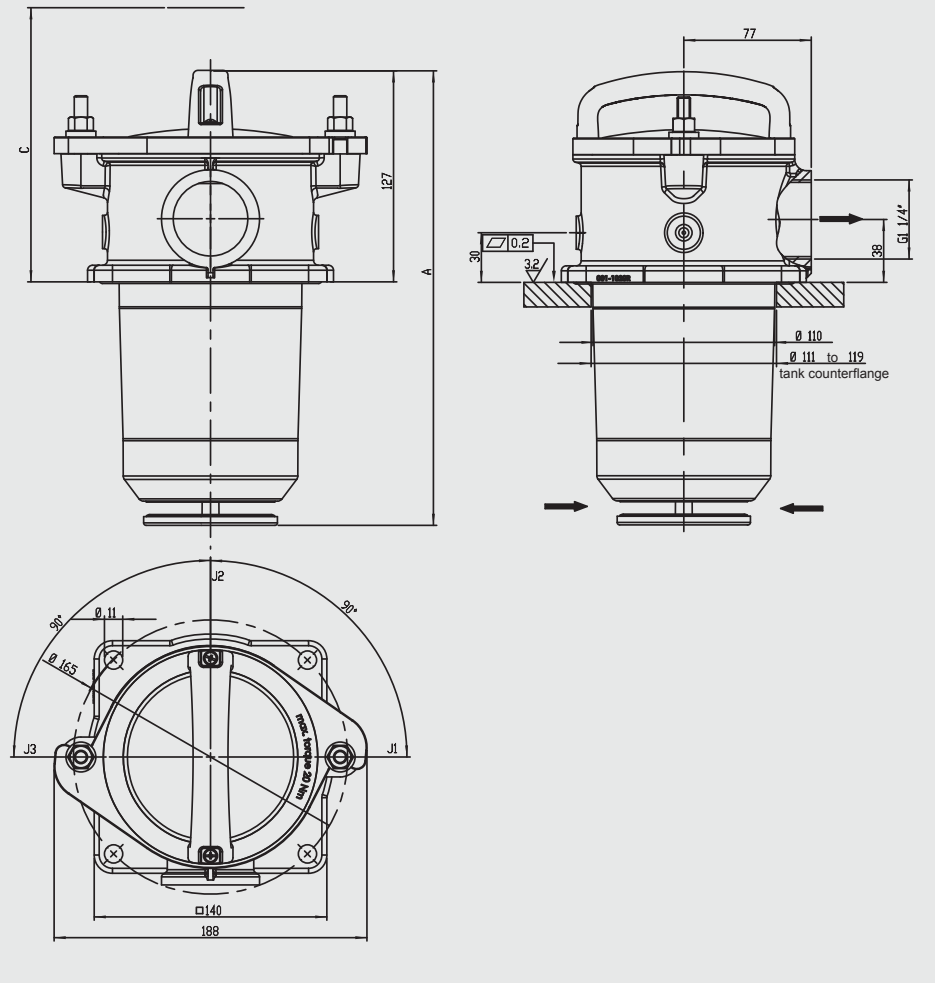
3.1 GRAPHS FOR COMPLETE FILTER

The curves for complete filters apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30mm²/s.



4. DIMENSIONS

SFAR 100 – 150



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

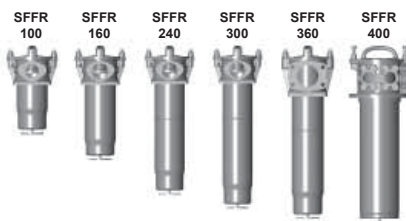
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Subject to technical modifications.

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Internet: www.hydac.com
E-Mail: filter@hydac.com



Suction Filter SFFR

Element flow direction from in to out
up to 400 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

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) |
|------|-----------------|
| SFFR | 10 µm (nominal) |
| 100 | 70.4 |
| 160 | 112.0 |
| 240 | 163.2 |
| 300 | 198.4 |
| 360 | 211.2 |
| 400 | 224.0 |

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 +120 °C |
| Material of housing tube | Steel |
| Material of filter head | Aluminium |
| Material of cover plate | Aluminium |
| 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

1.6 SPECIAL MODELS AND ACCESSORIES

- connection for a clogging indicator in filter head
- 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

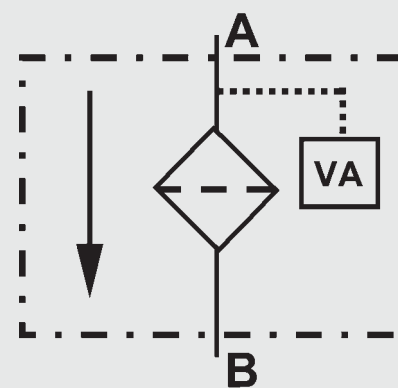
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- Hydraulic oils H to HLPD DIN 51524
- Lubrication oils DIN 51517, API, ACEA, DIN 51515, ISO 6743
- Compressor oils DIN 51506
- Operating fluids with high water content (>50% water content) on request

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)

SFFR PE 160 W F 10 W 1.0 /-V

2.1 COMPLETE FILTER

Filter type

SFFR

Filter material

PE Polyester

WR Wire mesh

Size of filter or element

SFFR: 100, 160, 240, 300, 360, 400

Operating pressure

W suction operation

Type and size of connection

| Type | Connection | Filter size | | | | | |
|------|------------------------|-------------|-----|-----|-----|-----|-----|
| | | 100 | 160 | 240 | 300 | 360 | 400 |
| D | G 1 + G1 | ● | ● | ● | ● | | |
| F | G 1½ | ● | ● | | | | |
| G | G 2 | | | ● | ● | | |
| I | M33 x 2 + M33 x 2 | ● | ● | ● | ● | | |
| J | M48 x 2 + M48 x 2 + G2 | | | | | | ● |
| L | SAE DN 50 | ● | ● | ● | ● | | |
| N | SAE DN 80 | | | | | ● | |

Filtration rating in µm

PE : 10

WR : 25, 40, 60

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

0160 RS 010 PE /-V

Size

0100, 0160, 0240, 0300, 0360, 0400

Type

RS

Filtration rating in µm

PE : 010

WR : 025, 040, 060

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

1.x

2.x

3.x

4.x

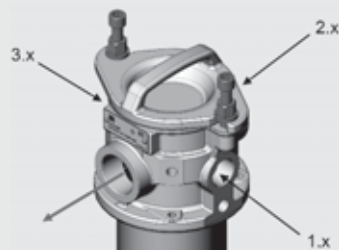
Mounting position of clogging indicator

To right of filter outlet

Opposite filter outlet

To left of filter outlet

All positions drilled and with
blanking plug in ports

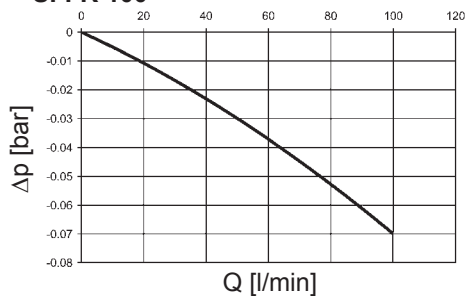


3. FILTER CALCULATION / SIZING

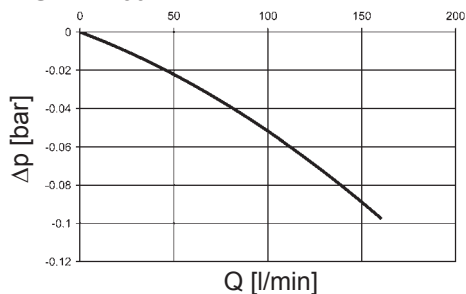
3.1 GRAPHS FOR COMPLETE FILTER

The curves for complete filters apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30mm²/s.

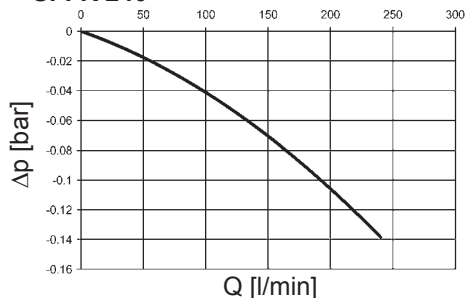
SFFR 100



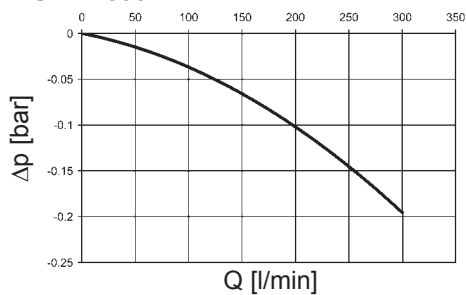
SFFR 160



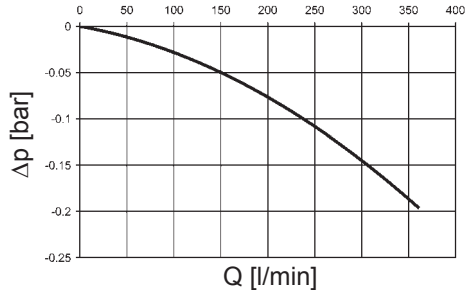
SFFR 240



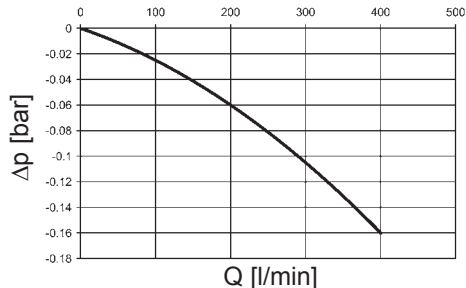
SFFR 300



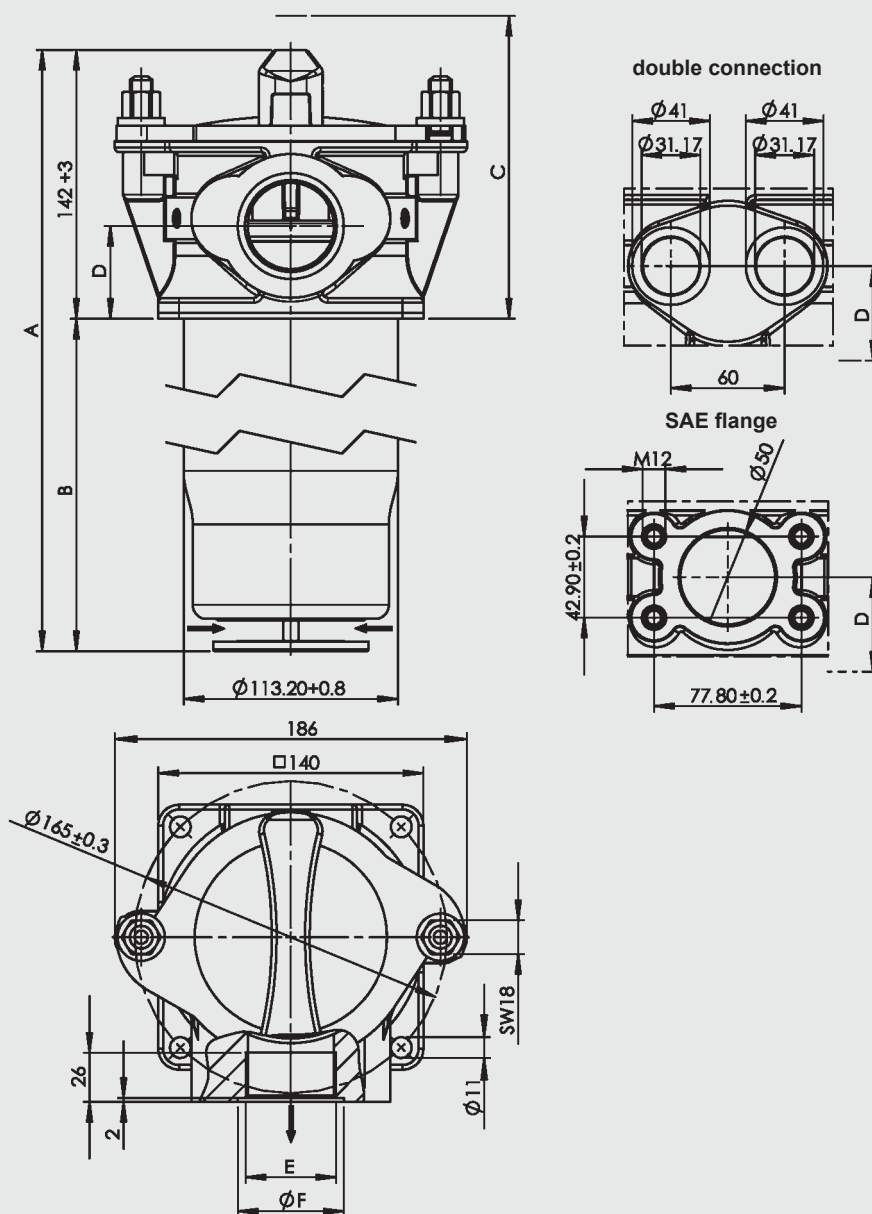
SFFR 360



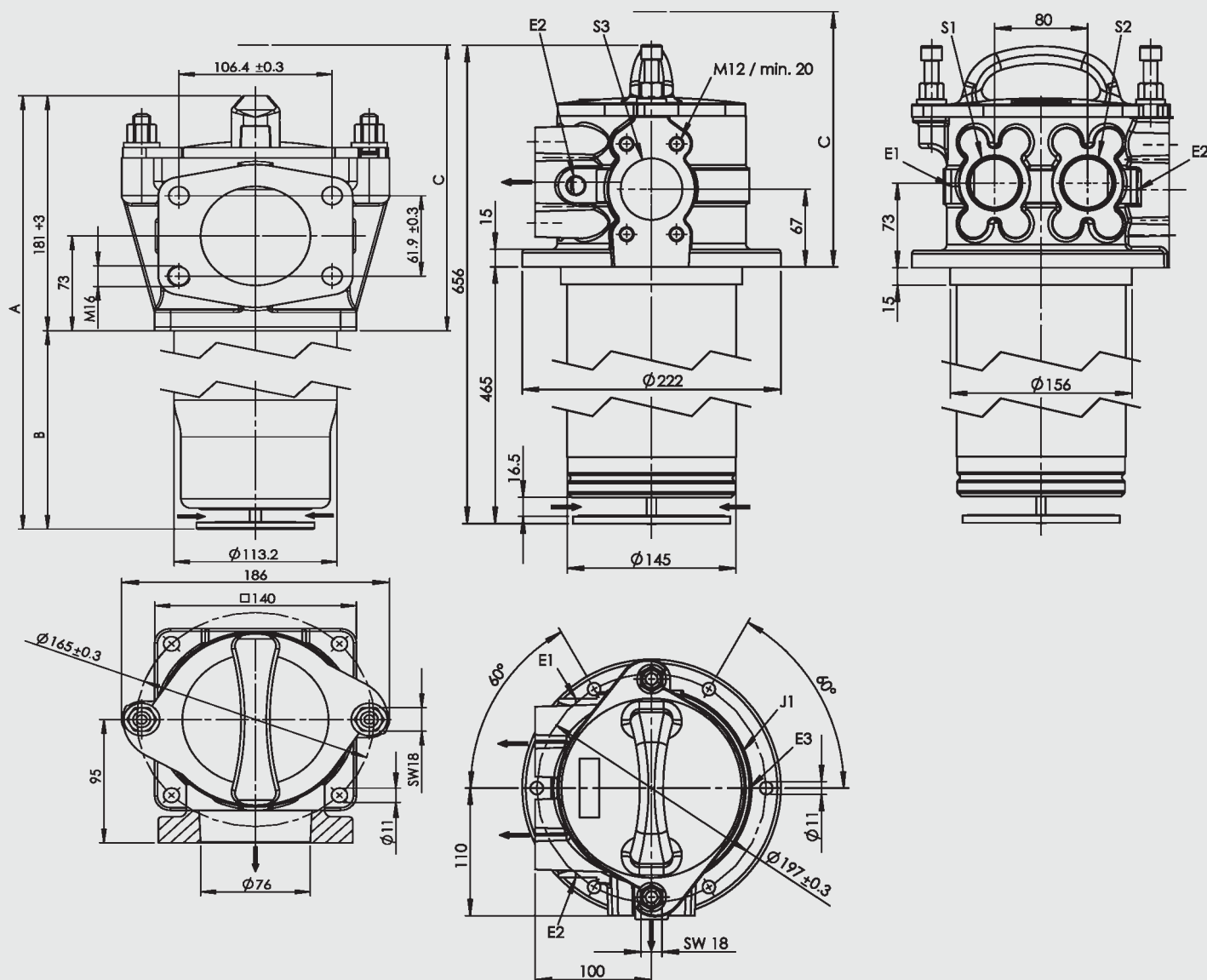
SFFR 400



4. DIMENSIONS



| Type | Connection | A | B | C | D | Weight incl. element [kg] |
|----------|--------------|-----|-----|-----|----|---------------------------|
| SFFR 100 | G 1 (2x) | 321 | 179 | 375 | 53 | 3.4 |
| | G 1½ | | | | 49 | |
| | M33 x 2 (2x) | | | | 53 | |
| | SAE DN 50 | | | | 49 | |
| SFFR 160 | G 1 (2x) | 416 | 274 | 375 | 53 | 4.1 |
| | G 1½ | | | | 49 | |
| | M33 x 2 (2x) | | | | 53 | |
| | SAE DN 50 | | | | 49 | |
| SFFR 240 | G 1 (2x) | 558 | 415 | 670 | 53 | 4.9 |
| | G 2 | | | | 49 | |
| | M33 x 2 (2x) | | | | 53 | |
| | SAE DN 50 | | | | 49 | |
| SFFR 300 | G 1 (2x) | 614 | 471 | 670 | 53 | 5.3 |
| | G 2 | | | | 49 | |
| | M33 x 2 (2x) | | | | 53 | |
| | SAE DN 50 | | | | 49 | |



| Type | Connection | A | B | C | Weight incl. element [kg] |
|----------|---------------------------------|-----|-----|-----|---------------------------|
| SFFR 360 | SAE DN 80 | 613 | 431 | 680 | 7.6 |
| SFFR 400 | M48x2 (S1); M48x2 (S2); G2 (S3) | - | - | 730 | 14.3 |

NOTE

The information in this brochure relates to the operating conditions and applications described.
For applications and operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.

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