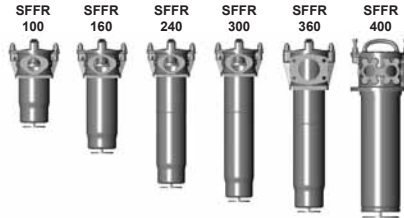




Suction Filter SFFR

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

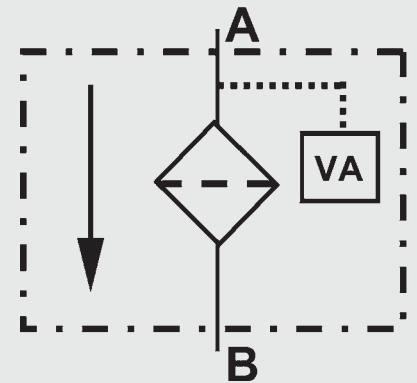
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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)

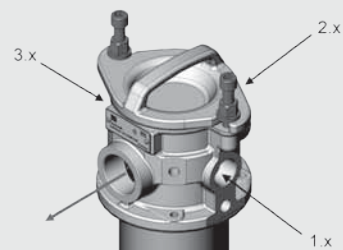
2.4 TYPE CODE

Type code

1.x
2.x
3.x
4.x

Mounting position of clogging indicator

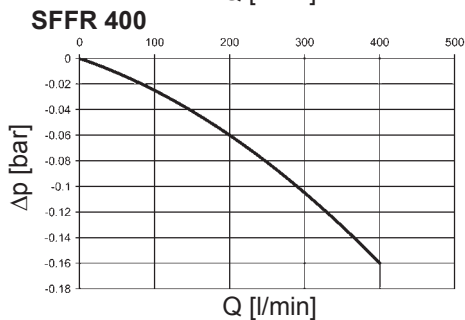
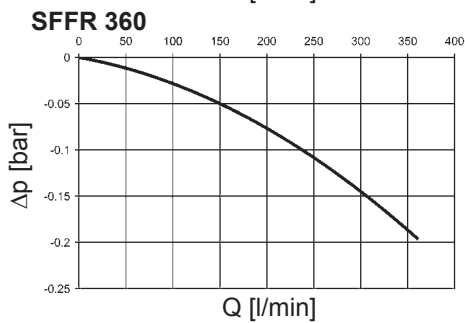
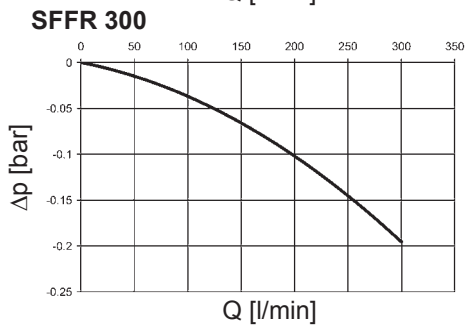
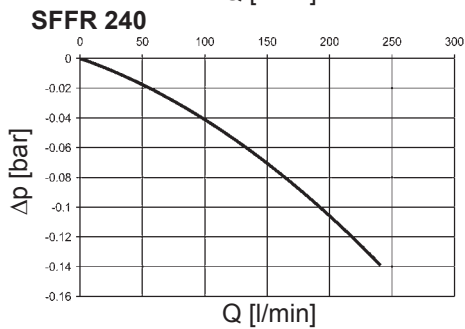
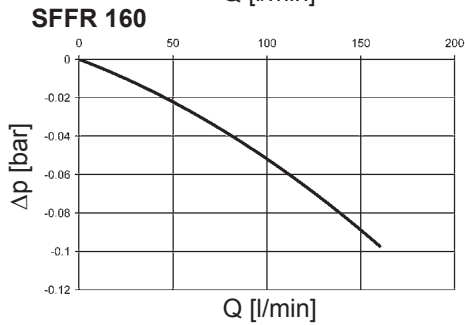
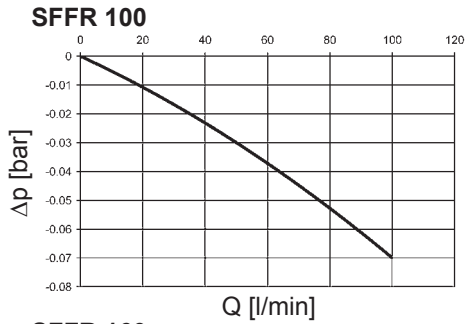
To right of filter outlet
Opposite filter outlet
To left of filter outlet
All positions drilled and with blanking plug in ports



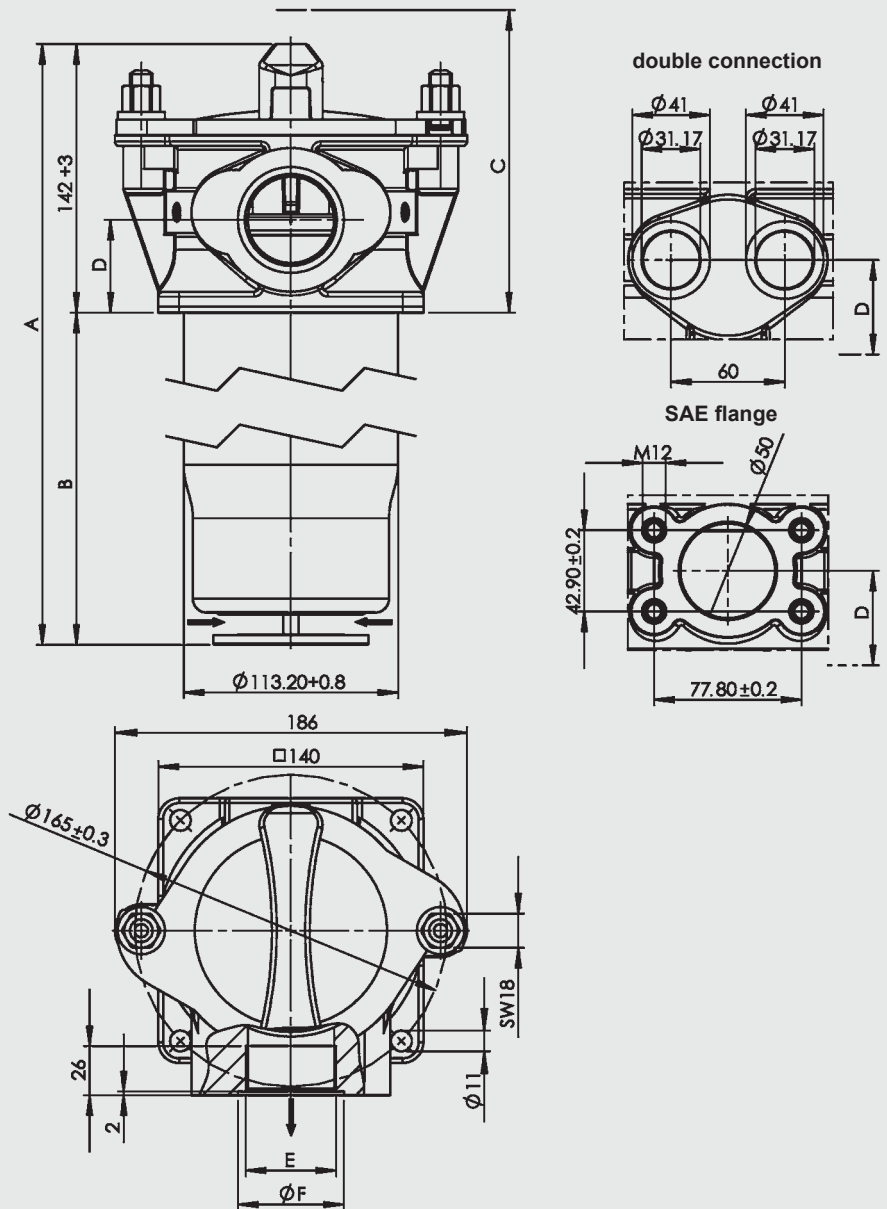
3. FILTER CALCULATION / SIZING

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.



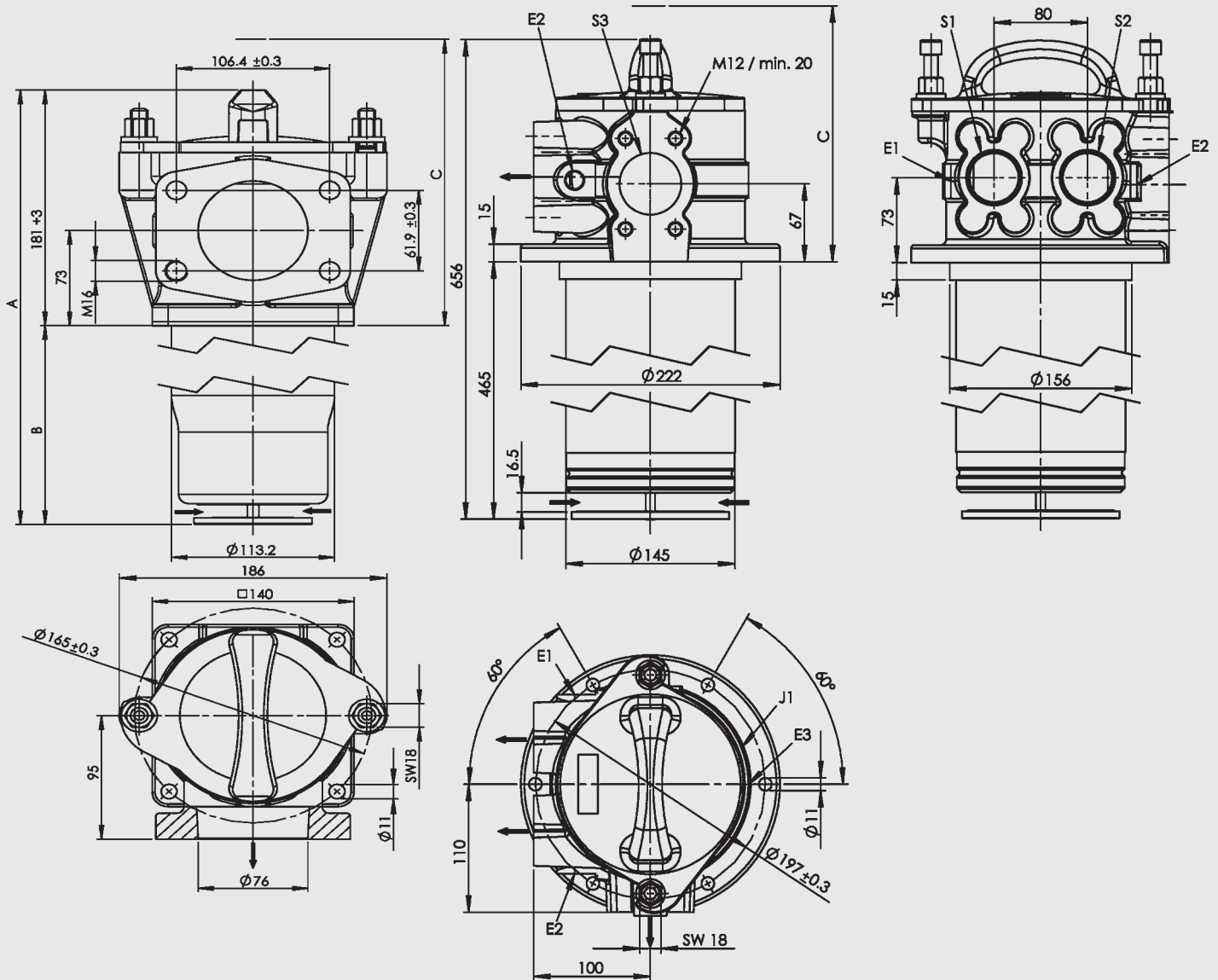
4. DIMENSIONS



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	

SFFR 360

SFFR 400



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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