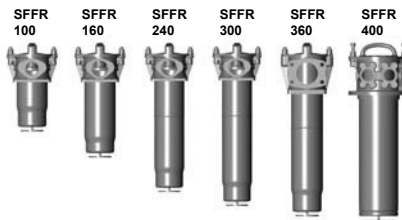




Suction Filter SFFR Element

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 removed from the top. These filters can be installed horizontally below the oil level.

Standard equipment:

- mounting holes on the filter head
- magnetic core built into cover plate
- automatic shut-off valve in base of filter

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	- °C to +120 °C
Material of housing tube	Steel
Material of filter head	Aluminium
Material of cover plate	Aluminium
Type of clogging indicator	VRR connection thread G ½
Pressure setting of clogging indicator	-0.25 bar (others on request)

1.4 SEALS

NBR (= Perbunan)

1.5 MOUNTING

Tank-top filter.

1.6 SPECIAL MODELS AND ACCESSORIES

- connection for 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

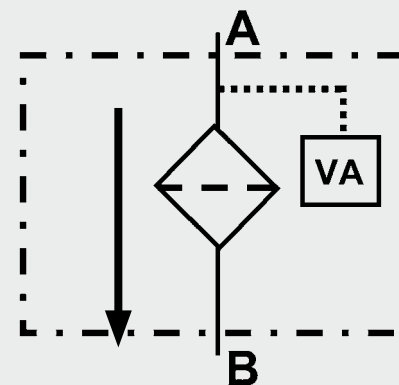
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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 housing 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

SFFR

Filter material of element

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 port

Type Port	Filter size					
	100	160	240	300	360	400
D G 1 + G1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F G 1 1/2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G G 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I M33 x 2 + M33 x 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J M48 x 2 + M48 x 2 + G2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L SAE DN 50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N SAE DN 80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Filtration rating in µm

PE : 10

WR : 25, 40, 60

Type of clogging indicator

W without connection for clogging indicator

E pressure gauge

UE vacuum pressure gauge

UF vacuum pressure switch

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

Type code

1

Modification number

X the latest version is always supplied

Supplementary details

V FPM seals

OM without magnetic core

2.2 REPLACEMENT ELEMENT

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 description, see point 2.1)

2.3 REPLACEMENT CLOGGING INDICATOR

Type

VMF connection thread G 1/8

Pressure setting

2 2 bar (for model E)

1 1 bar (for model UE)

0.2 0.2 bar (for model UF)

Type of clogging indicator

see point 2.1

Modification number

X the latest version is always supplied

Supplementary details

V (for description, see point 2.1)

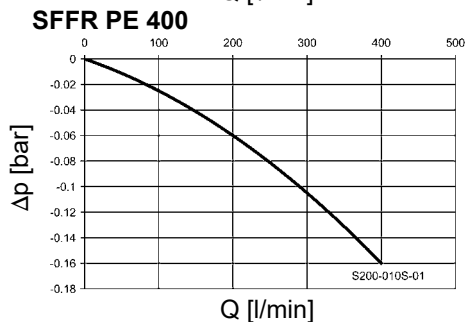
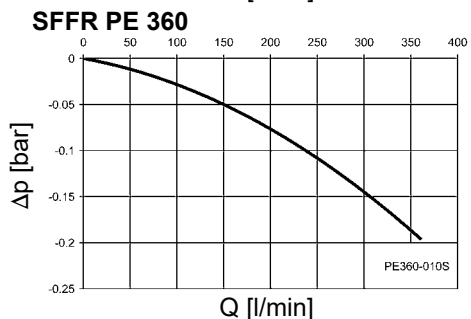
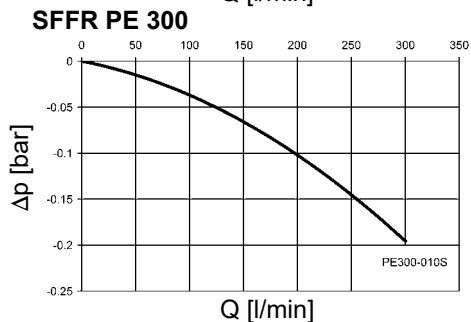
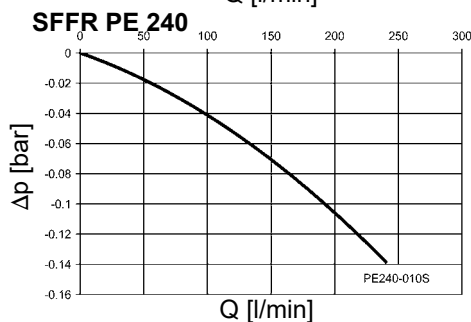
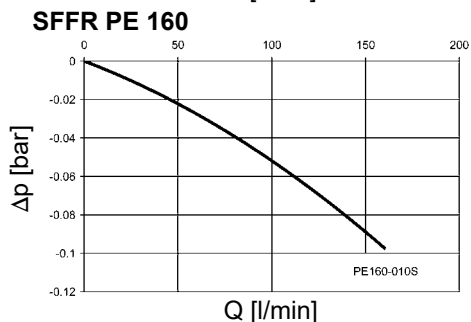
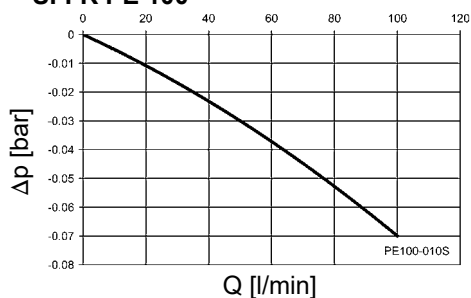
SFFR PE 160 W F 10 W 1 . 0 /-V

0160 RS 010 PE /-V

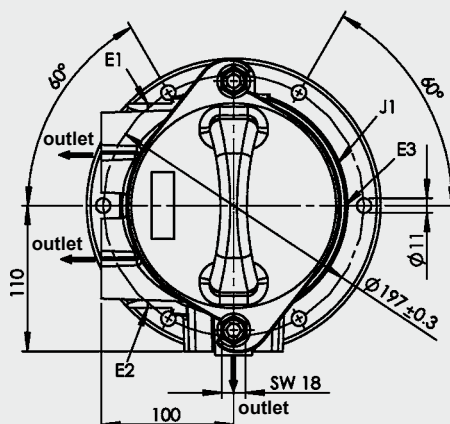
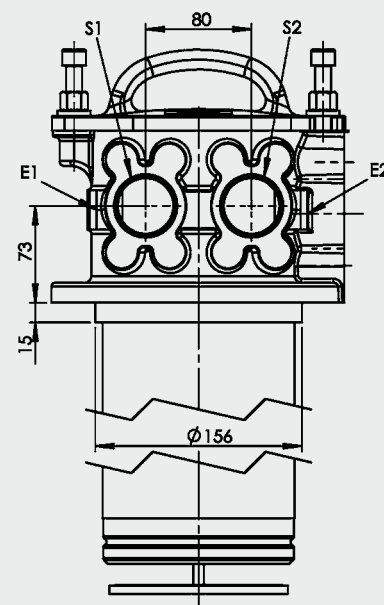
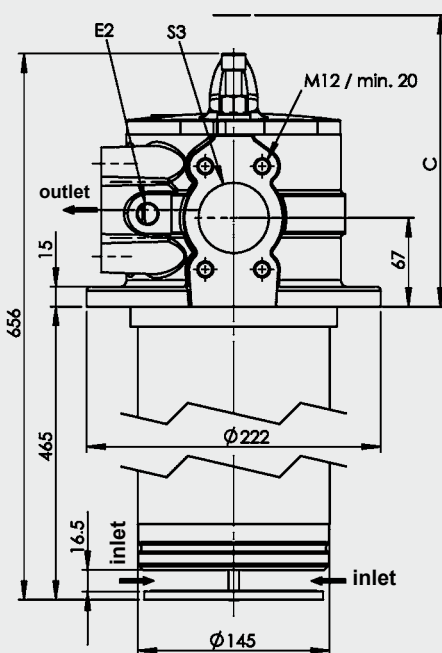
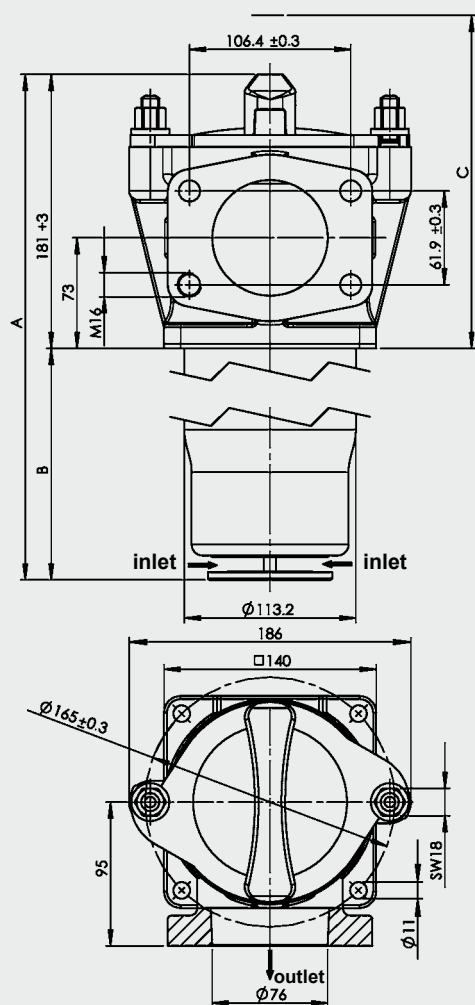
VMF 1 UE . X /-V

3.1 GRAPHS FOR COMPLETE FILTER

SFFR PE 100

[illegible]

Type	A	B	C	D	Connection E	Weight incl. element [kg]
SFFR 100	321	179	375	53	G 1 (2x)	3.4
				49	G 1½ M33 x	
				53	2 (2x) SAE	
				49	DN 50	
SFFR 160	416	274	375	53	G 1 (2x) G	4.1
				49	1½ M33 x 2	
				53	(2x)	
				49	SAE DN 50	
SFFR 240	558	415	670	53	G 1 (2x) G 2	4.9
				49	M33 x 2 (2x)	
				53	SAE DN 50	
				49		
SFFR 300	614	471	670	53	G 1 (2x) G 2	5.3
				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 or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.