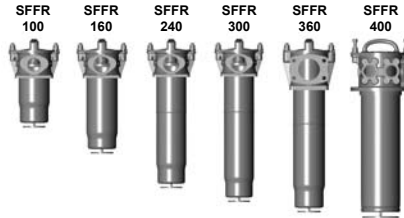




## Suction Filter SFFR

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	-30 °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

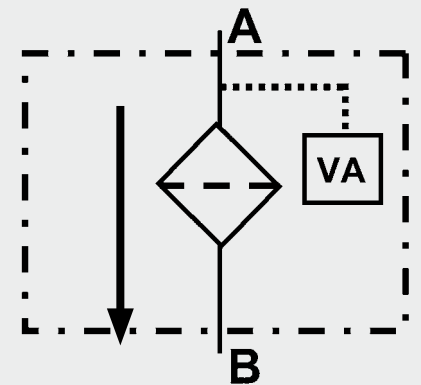
#### 1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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)

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

### 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	●	●	●	●		
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 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

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 description, see point 2.1)

### 2.3 REPLACEMENT CLOGGING INDICATOR

VMF 1 UE . X /-V

**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** \_\_\_\_\_

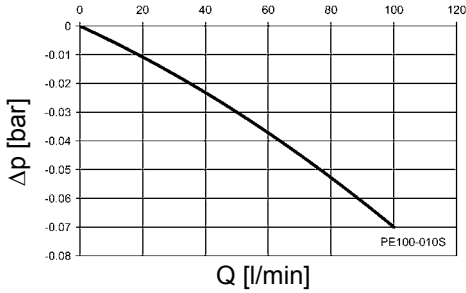
V (for description, see point 2.1)

### 3. FILTER CALCULATION / SIZING

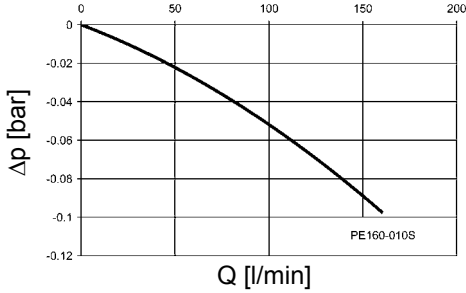
#### 3.1 GRAPHS FOR COMPLETE FILTER

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

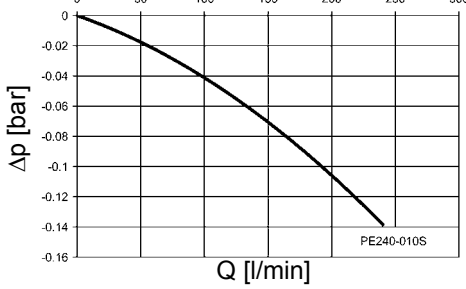
##### SFFR PE 100



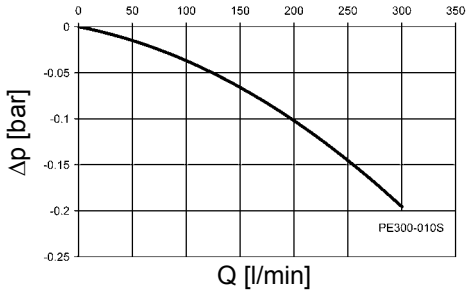
##### SFFR PE 160



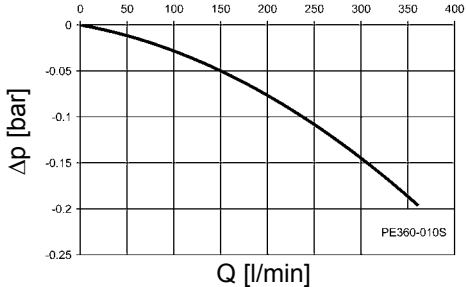
##### SFFR PE 240



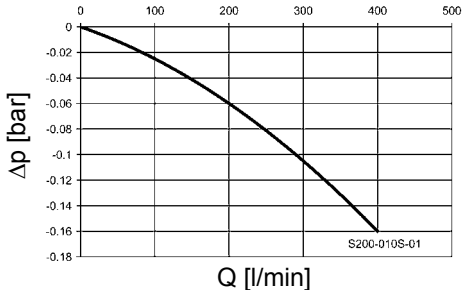
##### SFFR PE 300



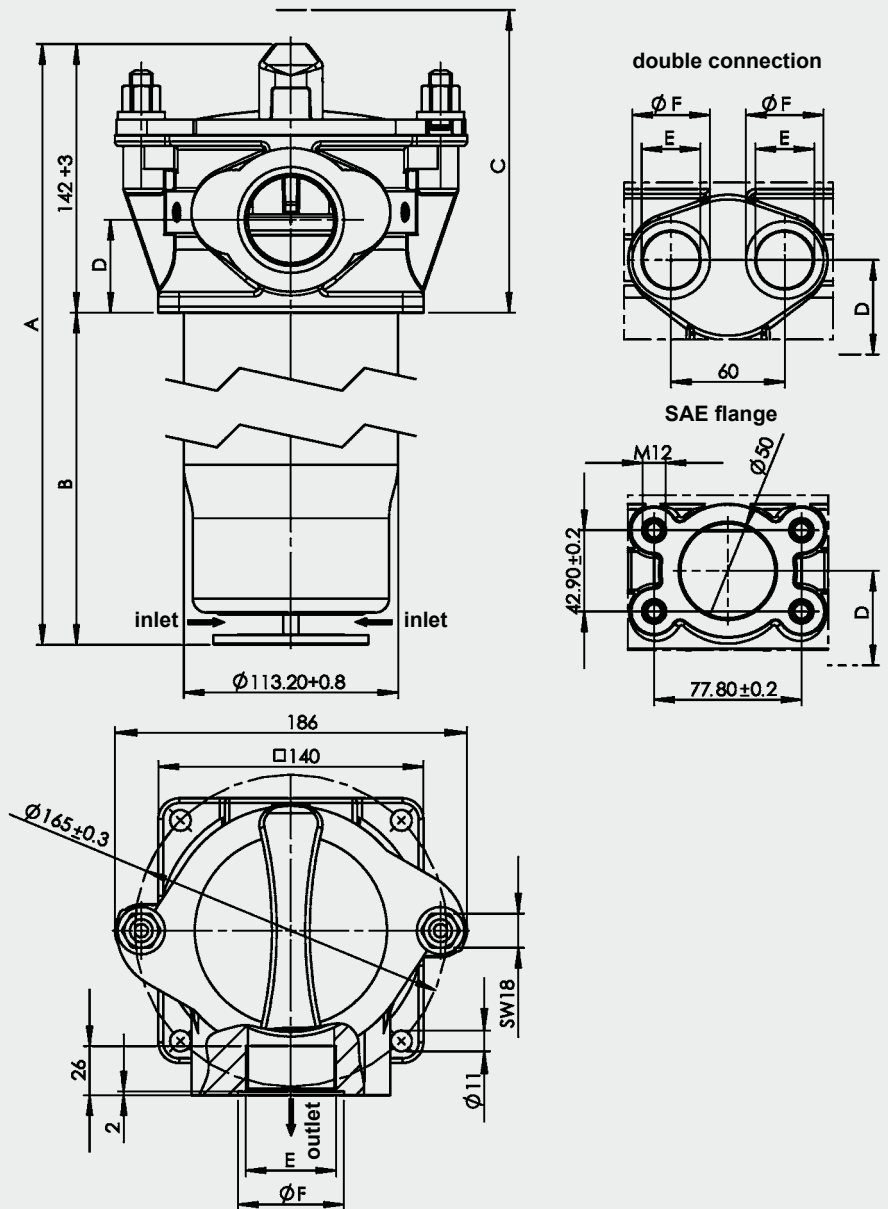
##### SFFR PE 360



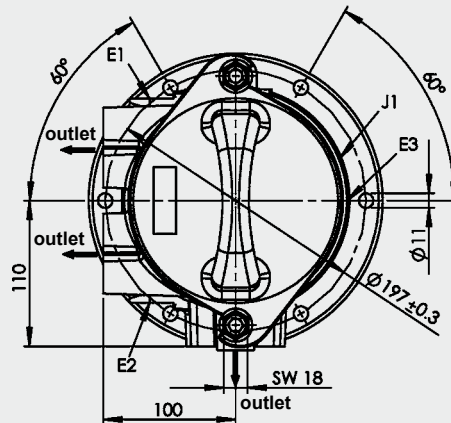
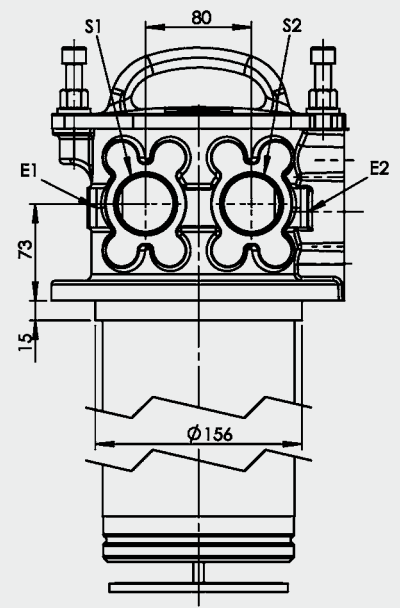
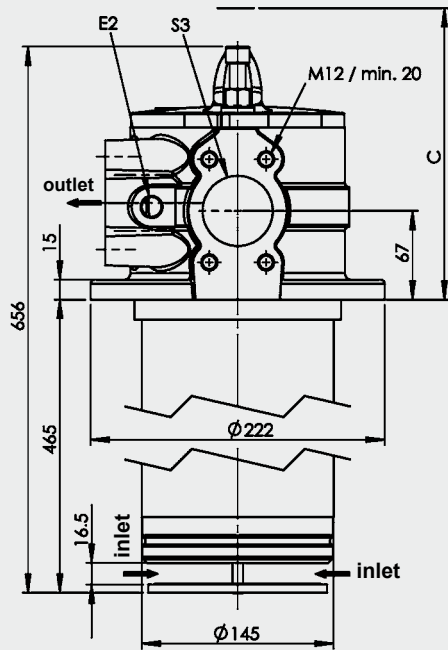
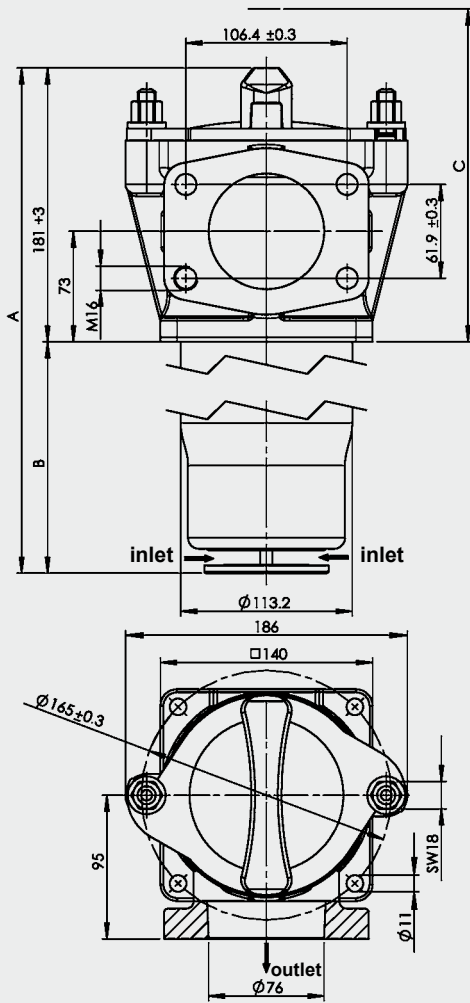
##### SFFR PE 400



### 4. DIMENSIONS



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	
				53	M33 x 2 (2x)	
				49	SAE DN 50	
SFFR 160	416	274	375	53	G 1 (2x)	4.1
				49	G 1½	
				53	M33 x 2 (2x)	
				49	SAE DN 50	
SFFR 240	558	415	670	53	G 1 (2x)	4.9
				49	G 2	
				53	M33 x 2 (2x)	
				49	SAE DN 50	
SFFR 300	614	471	670	53	G 1 (2x)	5.3
				49	G 2	
				53	M33 x 2 (2x)	
				49	SAE DN 50	



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.

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