

Hydraulic Accessories

Suction Strainer, Spin-On, Diffusers



Quality and Service
worldwide

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- **Comprehensive choice**
- **Immediate delivery**
- **High quality standard**

The STAUFF hydraulic accessories programme has been carefully designed to offer a range of components suited to the demands of building hydraulic systems in most industrial and mobile applications.

Whether you require simple filler breathers or precise electrical level switches, flow control valves or complete filter units; the STAUFF accessories range should provide you with the choice you need.

At Stauff we are aware of the ongoing development and innovation within the hydraulic industry. We strive to keep up with and further develop the latest technology and to bring the benefit of any such improvements directly to the customer.

Additionally we are always prepared to consider custom built products, if you have a special need.

We ensure that your most urgent requirements are met by keeping a large and comprehensive stockholding both in Germany and in our overseas locations.

These products are subject at all times to our DIN ISO 9001 Quality Management Systems.



Area of Application:

Reservoir installation for direct suction line connection

Characteristics:

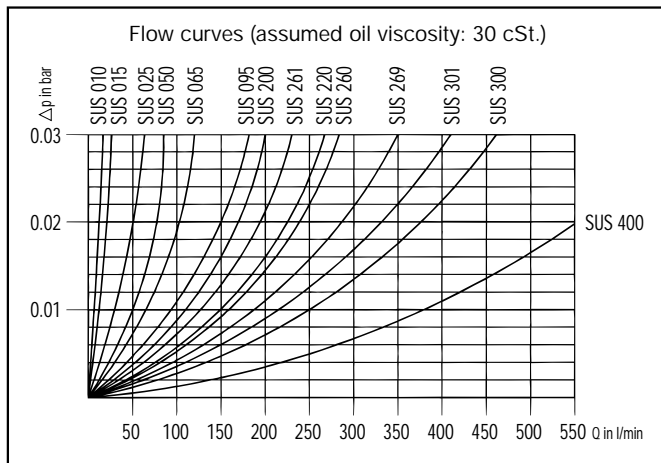
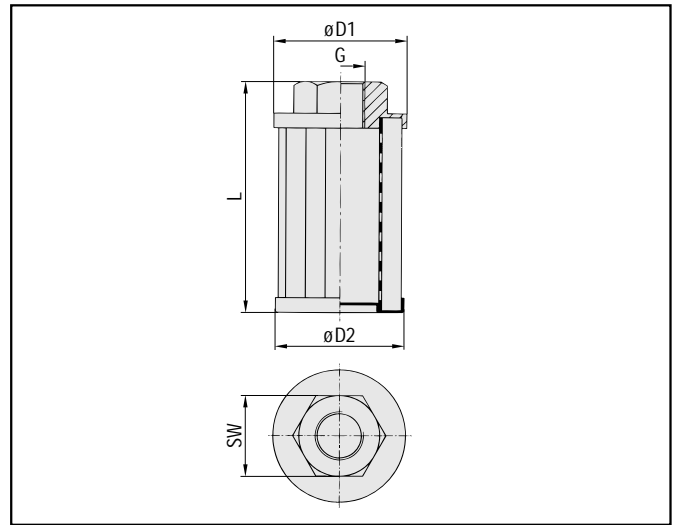
- suitable for mineral oil
- thread form: BSP
- threaded end caps made out of glass fibre reinforced polyamide or aluminium (see Technical Data)

STAUFF suction strainers SUS are available with NPT threads and/or with an integrated bypass on request.

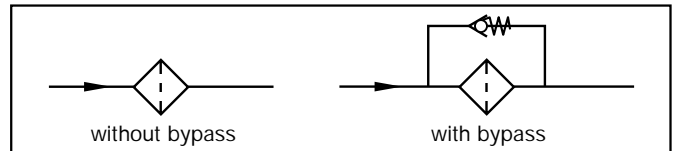
Technical Data

Temperature range: -20°C ... +100°C
 Flow range: 400 l/min max
 Connection thread sizes: G^{3/8} - G3
 Filtermedia: Stainless steel wire mesh
 Support tube material: Steel, zinc plated
 Threaded end cap material: glass fibre reinforced polyamide;
 SUS 220-B32-A ... : Aluminium
 Bypass opening pressure: 0,20 bar (bypass option on request)

Dimensions



Symbols



Ordering Code and Dimensional Table

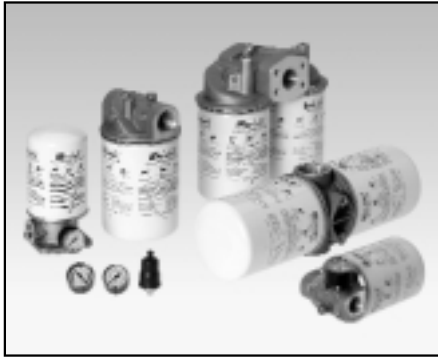
SUS - 025 - B12 - P - O - 125

Type	
SUS	Suction Strainer

Micron Rating	
060	60 µm (on request)
125	125 µm (standard)
250	250 µm (on request)

Size	Threaded end cap material	Q max	G	L	D1	D2	SW
010-B06-P	Plastic	10 l/min	G ^{3/8}	67	50	49	26
015-B08-P	Plastic	15 l/min	G ^{1/2}	102	50	49	26
025-B12-P	Plastic	25 l/min	G ^{3/4}	105	68	66	34
050-B16-P	Plastic	50 l/min	G1	140	68	66	42
065-B20-P	Plastic	65 l/min	G1 ^{1/4}	140	88	85	50
095-B24-P	Plastic	95 l/min	G1 ^{1/2}	140	88	85	60
200-B24-P	Plastic	200 l/min	G1 ^{1/2}	200	102	100	72
220-B32-A	Aluminium	220 l/min	G2	151	150	145	70
260-B32-P	Plastic	260 l/min	G2	260	102	100	72
261-B32-P	Plastic	210 l/min	G2	210	102	100	72
269-B32-P	Plastic	300 l/min	G2	300	102	100	72
300-B40-P	Plastic	300 l/min	G2 ^{1/2}	212	131	128	86
301-B40-P	Plastic	290 l/min	G2 ^{1/2}	210	131	128	86
400-B48-P	Plastic	400 l/min	G3	272	131	128	96

Bypass Option	
O	no bypass (standard)
3	integrated bypass (0,2 bar / 3 PSI)



Area of Application: In-line or tank top installation

Characteristics / Technical Data:

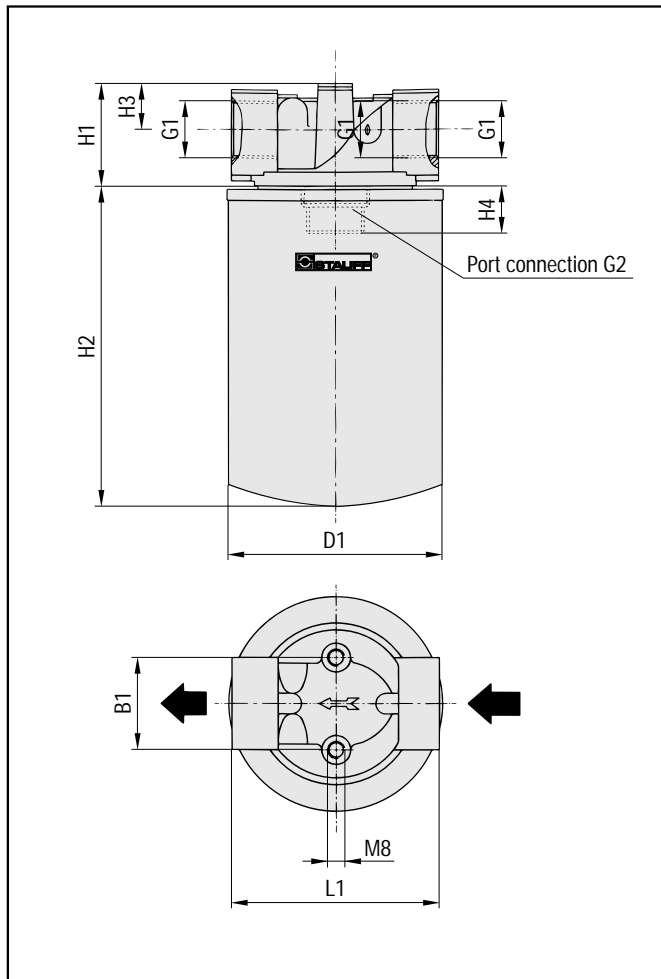
- suitable for hydraulic oil
- available as suction line or return line filter
- Temperature range: $-25^{\circ}\text{C} \dots +110^{\circ}\text{C}$
- max operating pressure: 12 bar
- burst pressure: 18 bar
- standard filter materials: paper; 10 μm , 25 μm
- opening pressure bypass valves: suction filters: 0,25 bar \pm 10%
return line filters: 1,70 bar \pm 10%
- standard seal material: NBR

Replacement filter elements are available with other micron ratings on request.

This chapter includes in particular:

Page	Topic	Notes
24	Characteristics / Technical Data	for all STAUFF Spin-On Filter series
24	Series SSF 12 / SSF 20	
25	Series SSF 24 / SSF 25	
26	Series SSFT 12 / SSFT 20	
26	Clogging indicators	for all STAUFF Spin-On Filter series
27	Replacement Elements	for all STAUFF Spin-On Filter series
27	Flow curves	for mostly required filter heads and replacement elements
28	Ordering Code	for complete filters and filter elements

Series SSF 12, SSF 20



Spin-On Filters for in-line assembly with one filter element.

Dimensional Table

Type	SSF12	SSF20
G1	G 3/4	G 1 1/4
G2	G 3/4	G 1 1/4 und 1 1/2 - 16 UNF (dual spigot)
D1	98	132
H1	44	61
H2	see element length for SFC35/36 (S.27)	see element length for SFC57/58 (S.27)
H3	22	29
H4	15	35
B1	38	50
L1	95	133

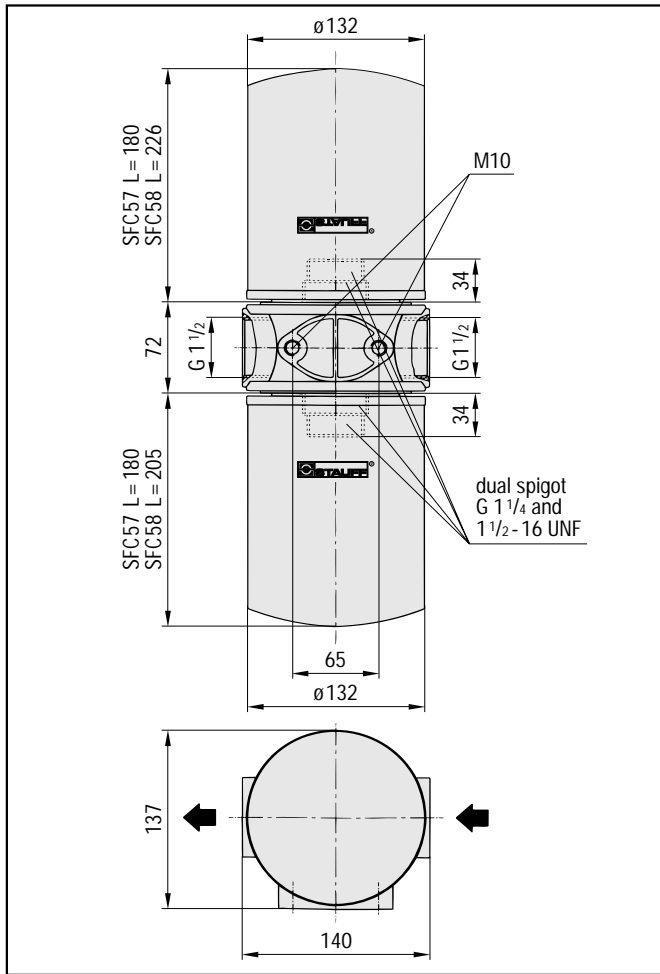
minimum clearance for element installation:
element length + 20 mm (SSF 12) / + 40 mm (SSF 20)

Styles available:

- SSF xx-R** Return line filter with bypass valve 1,7 bar
- SSF xx-S** Suction filter with bypass valve 0,25 bar
- SSF xx-N** Return line or suction filter without bypass

Details on elements, clogging indicators and ordering codes see pages 26 - 28.

Series SSF 24



Spin-On Filters for in-line assembly with two filter elements (top/bottom mounting).

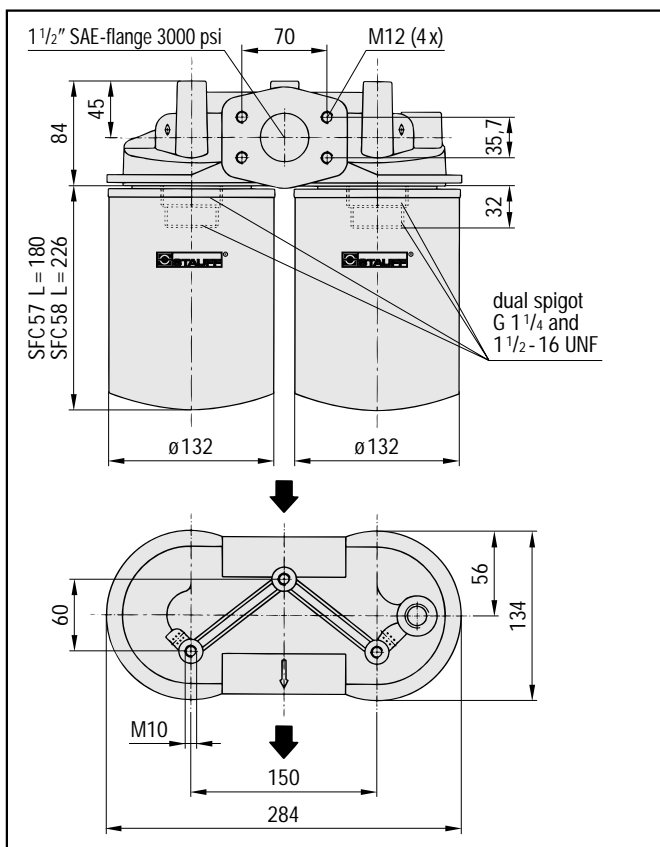
minimum clearance for element installation:
element length + 40 mm

Styles available:

- SSF 24-R** Return line filter with bypass valve 1,7 bar
- SSF 24-S** Suction filter with bypass valve 0,25 bar
- SSF 24-N** Return line or suction filter without bypass

Details on elements, clogging indicators and ordering codes see pages 26 – 28.

Series SSF 25



Spin-On Filters for in-line assembly with two filter elements (parallel mounting).

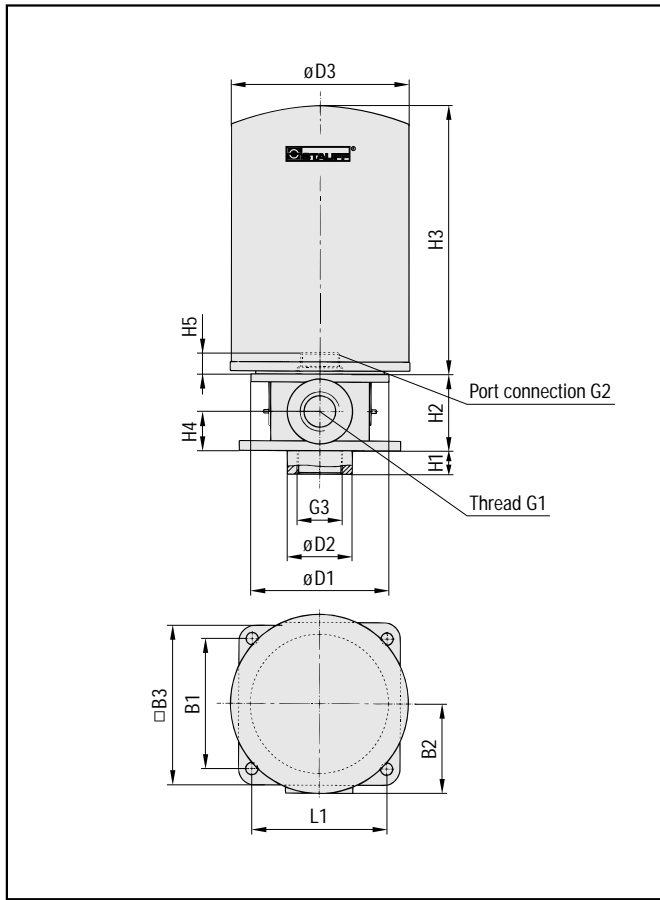
minimum clearance for element installation:
element length + 40 mm

Styles available:

- SSF 25-R** Return line filter with bypass valve 1,7 bar
- SSF 25-S** Suction filter with bypass valve 0,25 bar
- SSF 25-N** Return line or suction filter without bypass

Details on elements, clogging indicators and ordering codes see pages 26 – 28.

Series SSFT 12, SSFT 20



Spin-On Filters for tank top assembly with one filter element.

Dimensional Table

Type	SSFT12	SSFT20
D1	76	135
D2	35	60
D3	98	132
G1	G 3/4	G 1 1/2
G2	G 3/4	G 1 1/4 und 1 1/2 - 16 UNF (dual spigot)
G3	G 3/4	G 1 1/2
H1	16	20
H2	50	73
H3	see element length for SFCT35/36 (S.27)	see element length for SFCT57/58 (S.27)
H4	25	50
H5	14	34
L1	70	100
B1	70	100
B2	50	70
B3	90	120

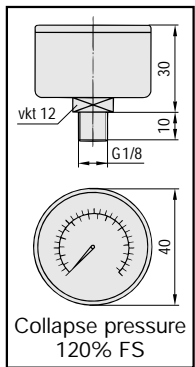
minimum clearance for element installation:
element length + 20 mm (SSFT 12) / + 40 mm (SSFT 20)

Styles available:

SSFT xx Return line filter

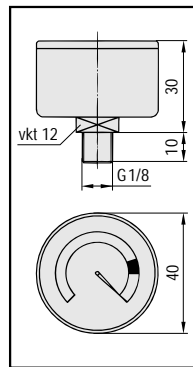
Details on elements, clogging indicators and ordering codes see pages 26 – 28.

Clogging indicators



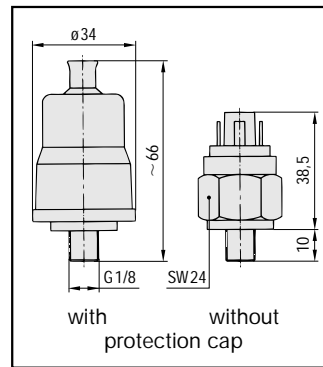
SIM

Function: Pressure gauge for return line filter
Pressure range:
SIM-12 0 - 12 bar
SIM-04 0 - 4 bar
SIM-02 0 - 2,5 bar



SIS

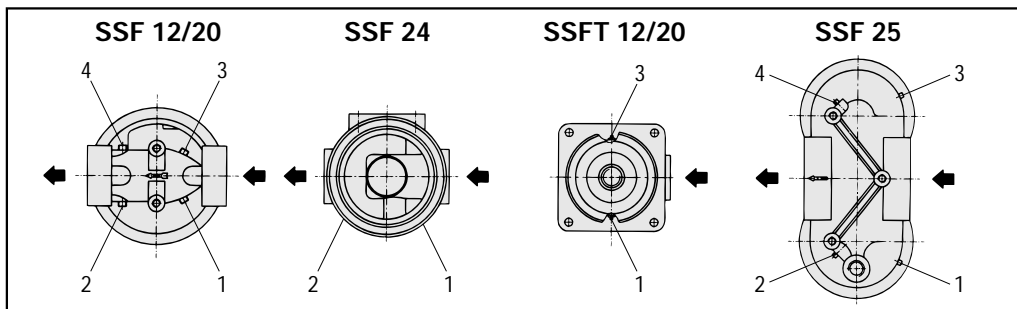
Function: Vacuum gauge for suction filters
Vacuum range: 0 - 76 cm HG



SIE-NO/SIE-NC

Function: Electrical pressure switch for return line filters
pick-up pressure: 1,3 bar
SIE-NO: "break contact" (standard contact "normally open")
SIE-NC: "make contact" (standard contact "normally closed")

Clogging indicator mounting instruction

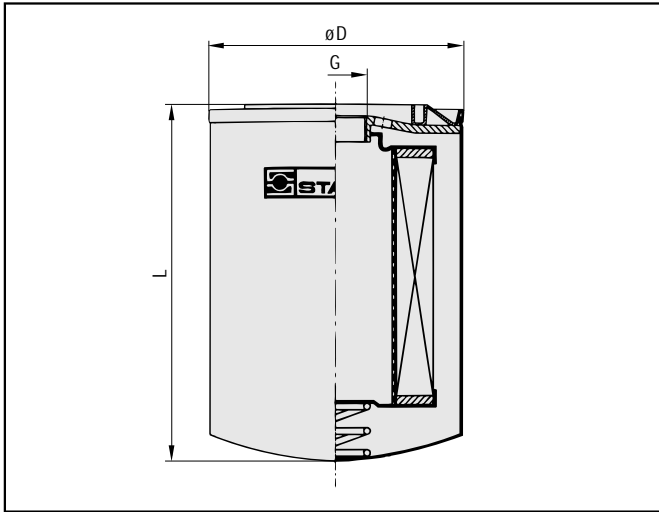


Technical Data SIE-NO and SIE-NC

max operating voltage: 48 V
max current (res.): 0,5 A
max current (ind.): 0,2 A
Materials
Membrane: NBR
Housing: Brass
Operating temperature: -5 ... +60°C
System of protection: IP54
max working pressure (static): 80 bar

Pos. No.	Mounting Position of clogging indicator	Filter type	Clogging indicator
1	filter entry; left handside	return line filter	pressure gauge SIM, electrical pressure switch SIE
2	filter exit; left handside	suction filter	vacuum gauge SIS
3	filter entry; right handside	return line filter	pressure gauge SIM, electrical pressure switch SIE
4	filter exit; right handside	suction filter	vacuum gauge SIS

Replacement elements

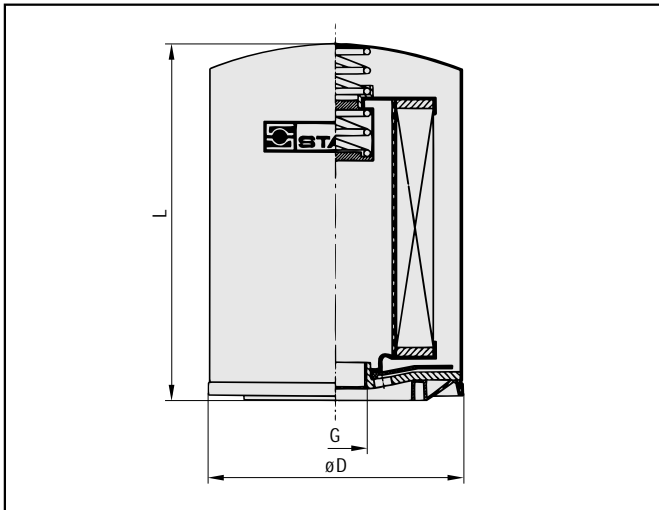


SFC elements for series SSF (in-line mounting)

Dimensional Table

Type	SFC-35	SFC-36	SFC-57	SFC-58
G	G 3/4	G 3/4	G 1 1/4	G 1 1/4
D	98	98	132	132
L	145	190	180	226

Details on ordering codes (single parts and combinations) see page 28.



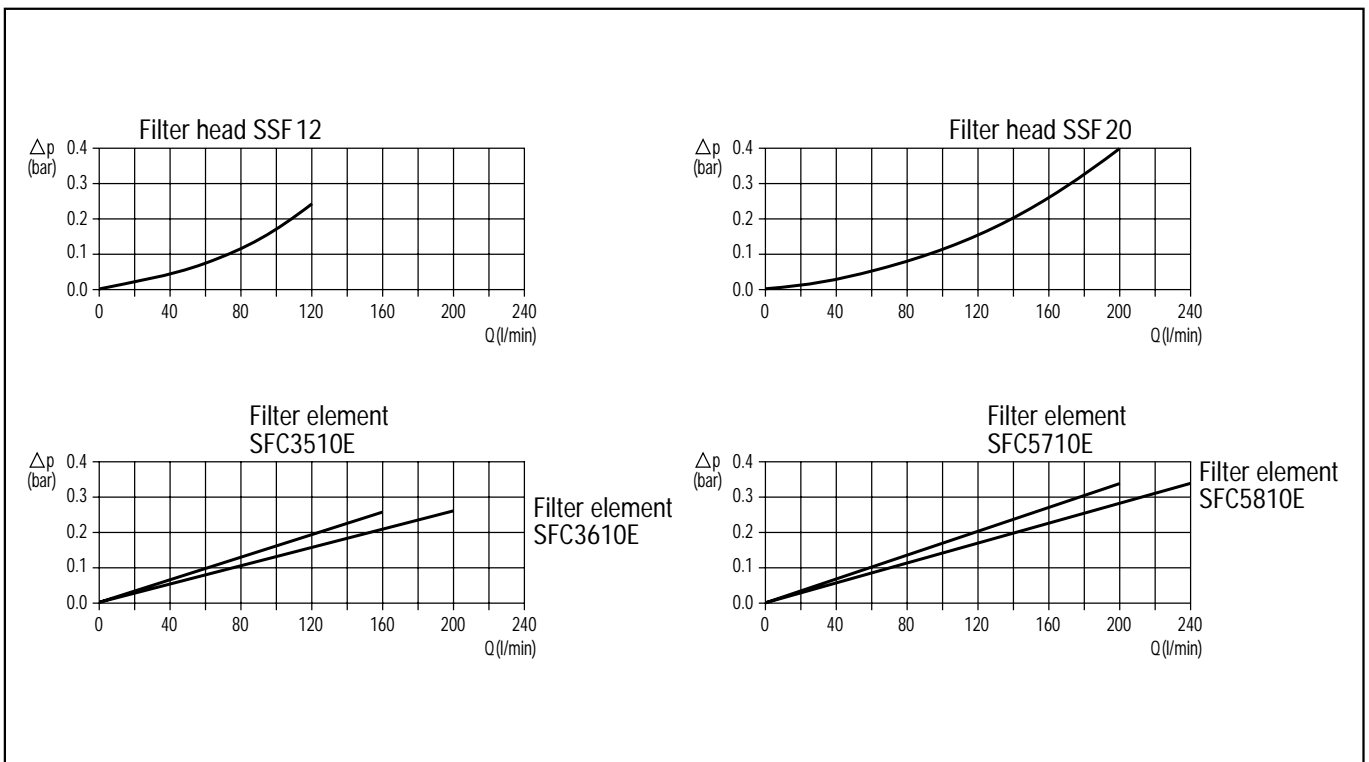
SFCT elements for series SSFT (tank top mounting)

Dimensional Table

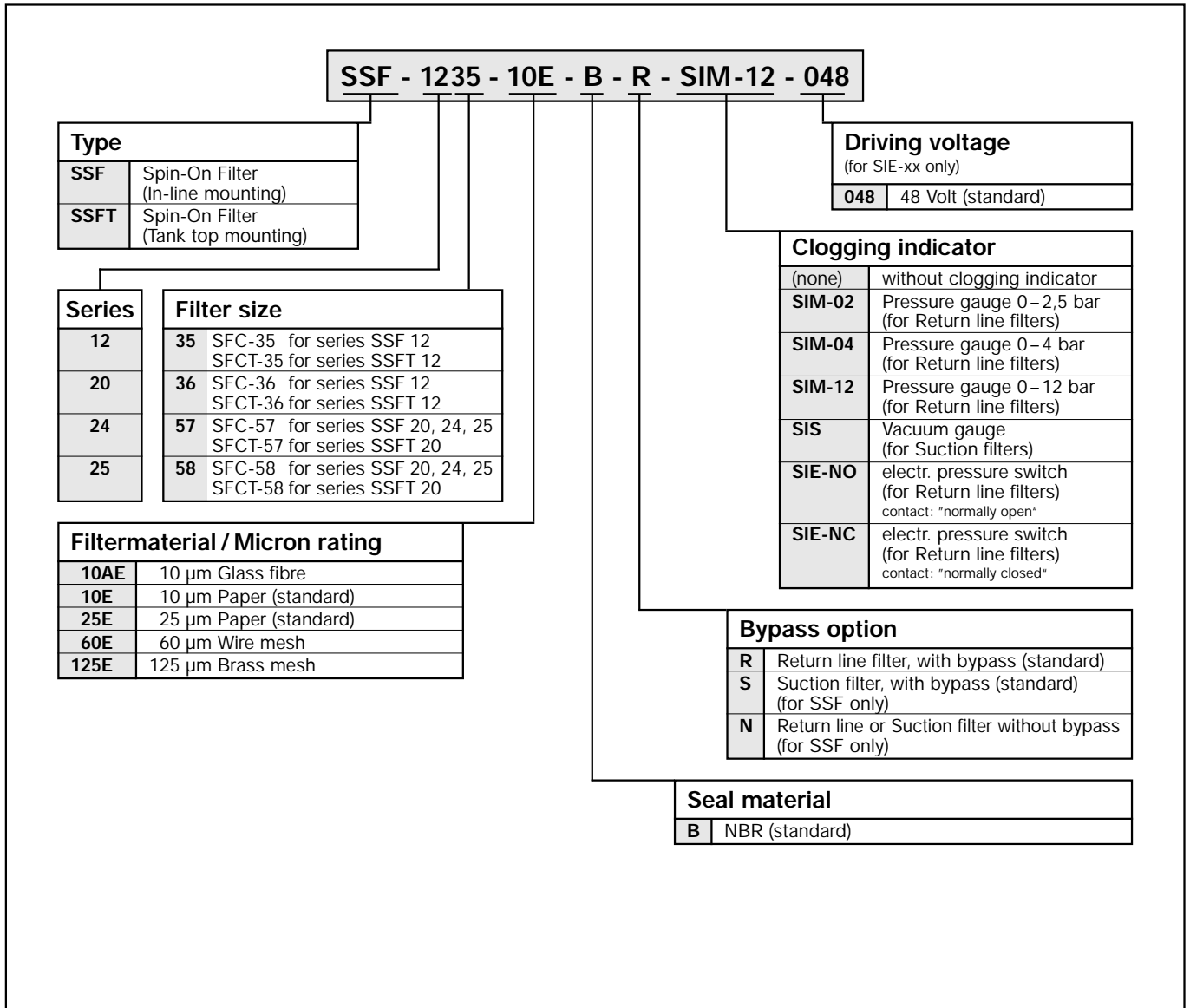
Type	SFCT-35	SFCT-36	SFCT-57	SFCT-58
G	G 3/4	G 3/4	G 1 1/4	G 1 1/4
D	98	98	132	132
L	145	190	180	226

Details on ordering codes (single parts and combinations) see page 28.

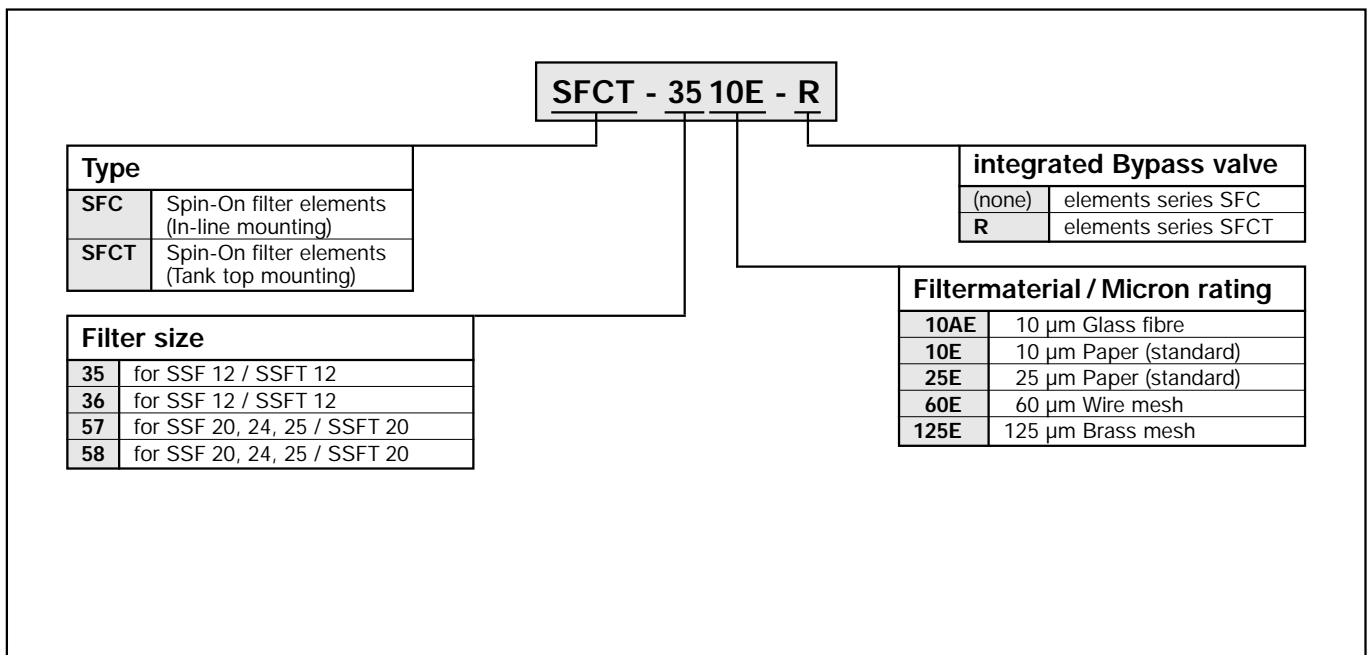
Flow curves (l/min) – assumed oil viscosity: 30 cSt.



Ordering Code for complete filters



Ordering Code for filter elements





Area of Application:

Foaming and noise reduction in tanks

Characteristics:

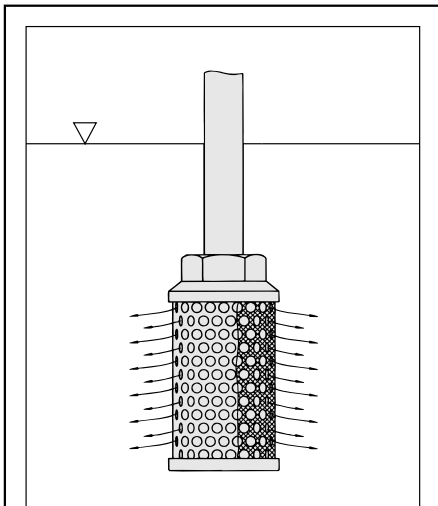
- suitable for mineral oil
- reduce fluid aeration
- silencing
- standard thread form: BSP
- consist of two concentric tubes with discharge holes

STAUFF-Diffusers SRV are available with NPT threads on request.

Technical Data

Temperature range: -20°C ... +100°C
 Flow range: 950 l/min max
 Connection thread sizes: G^{3/4} – G3
 End cap material: Aluminium
 Body material: Steel, zinc plated

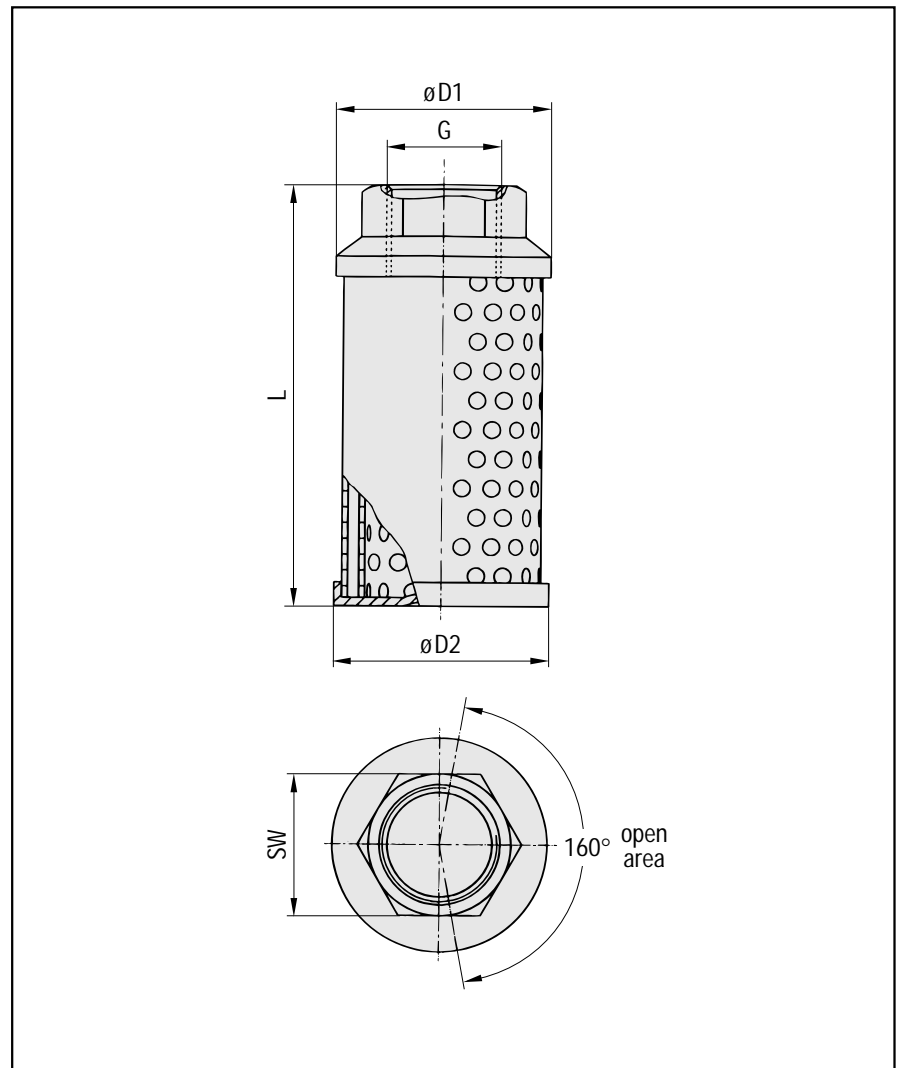
Example of Application SRV



Note

SRV must be completely installed below the liquid level. Its plain area on the outside must be facing the pump inlet.

Dimensions



Ordering Code and Dimensional Table

Type	Q max	G	L	D1	D2	SW
SRV-050-B12	50 l/min	G ^{3/4}	109	64	60	36
SRV-114-B16	114 l/min	G1	139	64	60	46
SRV-200-B20	200 l/min	G1 ^{1/4}	139	86	82	60
SRV-227-B24	227 l/min	G1 ^{1/2}	200	86	82	60
SRV-454-B32	454 l/min	G2	260	86	82	70
SRV-650-B40	650 l/min	G2 ^{1/2}	211	150	145	90
SRV-950-B48	950 l/min	G3	272	150	145	100

Product range



STAUFF CLAMPS:

Clamping systems for tubes, hoses, pipes, cables and components

Original STAUFF Clamps:

The tube fastening system in accordance with DIN 3015

Dimensional range from 6 to 800 mm

Different materials available

U-Bolt and DIN clamps

Angle Adjustment Clamps

Special clamps and supports:

Custom built solutions



STAUFF TEST:

Pressure test systems

Venting and sampling of liquid and gas pressure systems

nominal working pressure: 630 bar maximum

100% closeness control

components tested in accordance with DIN 40.080

Test couplings and accessories:

Adaption threads M16x2 - M16x1,5 -

S12,65x1,5- Plug-in system

Test hoses:

DN 2 and DN 4; hose length and fittings on request

MINITESTER PPC-04:

Digital measuring device

for:

Working pressure

Differential pressure

Temperature

Flow

RPH

Data output via

PC or printer



STAUFF FILTERS:

Hydraulic filtration systems

High pressure filters for in-line mounting:

maximum working pressure: 630 bar

Return line tank top filters:

maximum working pressure: 16 bar

Replacement filter elements:

Compatible quality and dimensional interchange to suit most filter makes produced in own facilities

Filter materials: Glass fibre, Metal fibre, Polyester fibre, Wire mesh, Paper



STAUFF HYDRAULIC ACCESSORIES:

Components for the construction of tanks and power units and mobile hydraulics

Level gauges

Filler breathers

Check valves

Diffusers

Spin-On - Filters

Return line bushes

Gauge isolator valves

Level temperature switches

Throttle and shut-off valves

Desiccant air breathers

Suction strainers

Stainless steel pressure gauges

Flow indicators

Air filters



STAUFF BALL VALVES:

Ball valves for flow control in steel, stainless steel,

alloy and other materials.