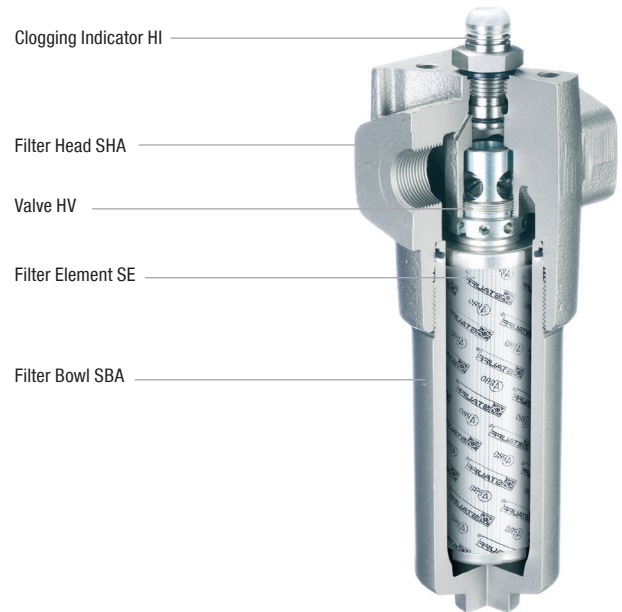


Medium Pressure Filters ■ Type SFA

C
Product Description

STAUFF SFA series Medium Pressure Filters are designed for in-line hydraulic applications with a maximum operating pressure of 160 bar / 2320 PSI. Used together with STAUFF SE series Filter Elements, a high efficiency of contamination removal is assured. The dirt-hold capacity of the elements ensures long service life, and as a result, reduced maintenance costs.

Technical Data
Construction

- Designed for in-line assembly, with threaded mounting holes on top of the head.

Materials

- Filter head: Cast Aluminium
- Filter bowl: Aluminium
- O-rings: NBR (Buna-N®)
FKM (Viton®)
EPDM (Ethylene-Propylene-Diene-Monomer-Rubber)
- Support ring: PTFE (Polytetrafluoroethylene)

Port Connections

- BSP
- NPT
- SAE O-ring thread
- SAE 3000 PSI (Code 61) flange

Operating Pressure

- SFA-014/030: Max. 160 bar / 2320 PSI
Max. 190 bar / 2755 PSI (according to ANSI T2.6.1. R2-2001)
- SFA-045/070: Max. 150 bar / 2175 PSI
Max. 171 bar / 2480 PSI (according to ANSI T2.6.1. R2-2001)

Burst Pressure

- Min. 480 bar / 6960 PSI

Temperature Range

- -10 °C ... +100 °C / +14 °F ... +212 °F

Filter Elements

- Specifications see page 52

Media Compatibility

- Mineral oils, other fluids on request

Options and Accessories
Valves

- Bypass valve: Allows unfiltered oil to bypass the contaminated element once the opening pressure has been reached, a differential pressure of $6^{+0.5}$ bar / $87^{+7.25}$ PSI Δp is the standard setting. Other settings available upon request.
- Reverse flow valve: Allows reverse flow through the filter head without backflushing the element.
- Non-return valve: Prevents draining of the delivery line during element change.
- Multi-function valve: Opening pressure $6^{+0.5}$ bar / $87^{+7.25}$ PSI
Bypass, reverse flow capability and non-return valve combined in one valve.

Clogging Indicators

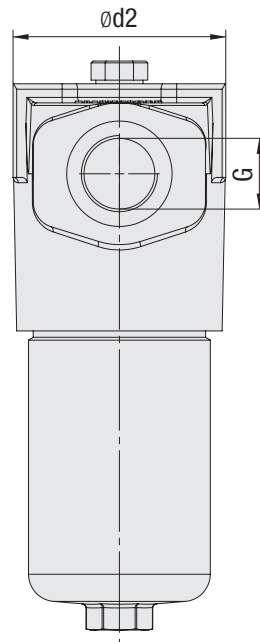
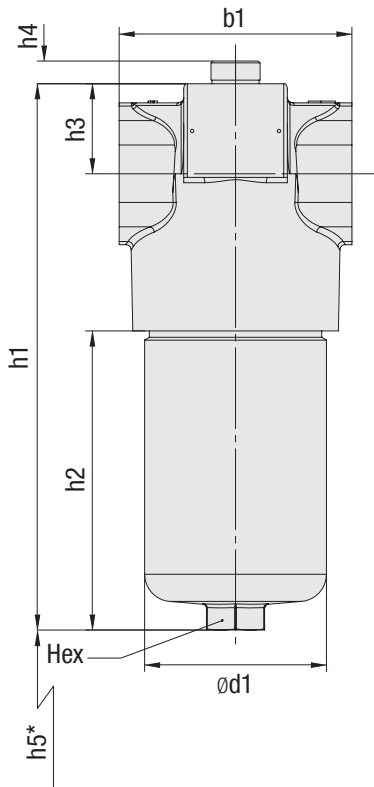
- Standard actuating pressure: $5_{-0.5}$ bar / $72.5_{-7.25}$ PSI Δp
Other actuating pressure settings are available upon request.
- Available indicators: Visual
Electrical
Visual-electrical (24 V DC, 110 V AC, 230 V AC versions)
Double Visual-electrical (24 V DC)



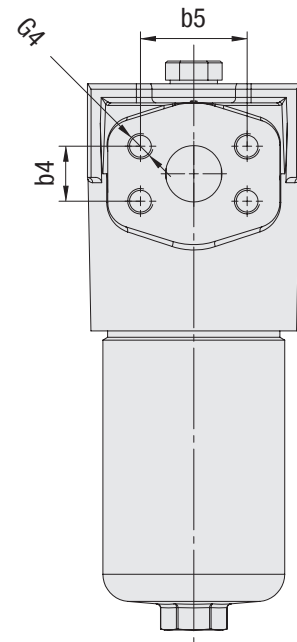
Medium Pressure Filters - Type SFA

G

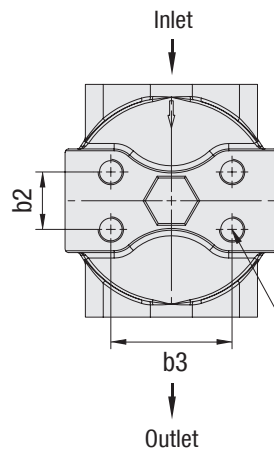
SFA-014...070



Threaded connection



Flange connection



G2: for BSP threads and metric flanges
G3: for NPT- and SAE-threads and for UNC-flanges

* recommended space for element change



Medium Pressure Filters ■ Type SFA

Thread Connection G	Filter Size SFA			
	014	030	045	070
BSP	3/4	3/4	1-1/4	1-1/4
NPT	3/4	3/4	1-1/4	1-1/4
SAE O-ring Thread	1-1/6-12	1-1/6-12	1-5/8-12	1-5/8-12
SAE Flange 3000 PSI	3/4	3/4	1-1/4	1-1/4
Weight (kg/lbs)	2,1	2,54	4,6	5,3
	4,7	5,6	10,2	11,8

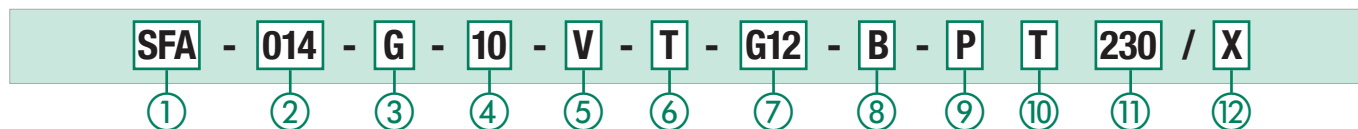
Dimensions (mm/in)	Filter Size SFA				
	014	030	045	070	
b1	92	92	128	128	
	3.62	3.62	5.04	5.04	
d1	72	72	100	100	
	2.83	2.83	3.93	3.93	
d2	86	86	117	117	
	3.39	3.39	4.61	4.61	
h1	187,5	255	241,5	301	
	7.38	10.04	9.51	11.85	
h2	78	145,5	105	164,5	
	3.07	5.73	4.13	6.46	
h3	40	40	49,5	49,5	
	1.58	1.58	1.95	1.95	
h4	12,5	12,5	12,5	12,5	
	.49	.49	.49	.49	
h5	rec.*	100	170	140	200
		3.94	6.69	5.51	7.87
	min.*	85	85	120	120
		3.35	3.35	4.72	4.72
Hex	27	27	32	32	
	1.05	1.05	1.25	1.25	
Dimensions SAE Flange 3000 PSI	b4	22,3	22,3	30,2	30,2
		.88	.88	1.19	1.19
	b5	47,6	47,6	58,7	58,7
		1.87	1.87	2.32	2.32
	G4	M10 x 15 or	M10 x 15 or	M10 x 18 or	M10 x 18 or
		3/8-16 UNC	3/8-16 UNC	7/16-14 UNC	7/16-14 UNC

Reference: rec.*: Recommended | min.*: Minimum

Dimensions (mm/in)	Filter Size SFA				
	014	030	045	070	
r	b2	23,8	23,8	31,6	31,6
		.94	.94	1.24	1.24
	b3	50,8	50,8	66,7	66,7
		2.00	2.00	2.63	2.63
	G2	M10 x 15	M10 x 15	M14 x 17	M14 x 17
	G3	3/8-16 UNC x .59	3/8-16 UNC x .59	1/2-13 UNC x .59	1/2-13 UNC x .59



Medium Pressure Filter Housings / Complete Filters ■ Type SFA



① Type

Medium Pressure Filter **SFA**

② Group

Flow	Size
60 l/min / 14 US GPM	014
110 l/min / 30 US GPM	030
160 l/min / 45 US GPM	045
240 l/min / 70 US GPM	070

Note: Exact flow will depend on the selected filter element.
For technical data please see pages 57 / 58.

③ Filter Material

Material	max. Δp*collapse	Micron ratings available	Code
Without filter element	-	-	O
Inorg. glass fibre	25 bar / 363 PSI	3, 5, 10, 20	G
Inorg. glass fibre	210 bar / 3045 PSI		H
Stainless fibre	210 bar / 3045 PSI		A
Stainless mesh	30 bar / 435 PSI	25, 50, 100, 200	S

Note: * Collapse/burst resistance as per ISO 2941.

④ Micron Rating

3 µm	03
5 µm	05
10 µm	10
20 µm	20
25 µm	25
50 µm	50
100 µm	100
200 µm	200

Note: Other micron ratings on request.

⑤ Sealing Material

NBR (Buna-N®)	B
FKM (Viton®)	V
EPDM	E

Note: Other sealing materials on request.

⑥ Connection Flange

Type T	T
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⑦ Connection Style

Connection Style	Thread Style	Group		Code		Code
		014	030	045	070	
BSP	metric	3/4		G12	1-1/4	G20
BSP	metric	1		G16	1-1/2	G24
NPT	UNC	3/4		N12	1-1/4	N20
SAE O-ring Thread	UNC	1-1/16-12		U12	1-5/8-12	U20
SAE Flange 3000 PSI	metric	3/4		C312M	1-1/4	C320M
SAE Flange 3000 PSI	UNC	3/4		C312U	1-1/4	C320U
SAE Flange 3000 PSI	metric	1		C316M	-	-
SAE Flange 3000 PSI	UNC	1		C316U	-	-

Note: Other port connections on request. Bold types identify preferred connection styles.

⑧ Valve

Without valve	O
Bypass valve	B
Reverse flow valve	R
Non-return valve	N
Multi-function valve	M

⑨ Clogging Indicator

Without clogging indicator	O
Visual, with automatic reset	A
Visual, with manual reset	V
Electrical	E
Electrical, Deutsch plug	ED
Visual-electrical	P
Double Visual-electrical	D024

⑩ Thermostop

Without thermostop	none
With thermostop	T

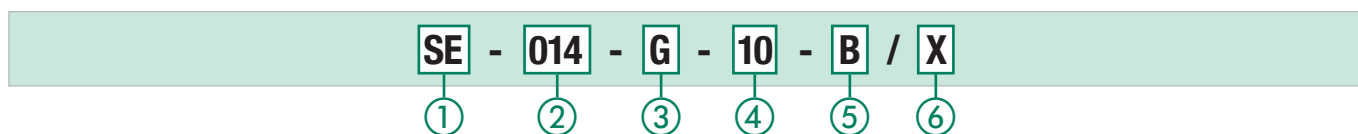
⑪ Voltage (only for Code P)

24 V DC	024
110 V AC	110
230 V AC	230

⑫ Design Code

Only for information	X
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Filter Elements ■ Type SE



① Type

Filter Element Series **SE**

② Group

According to filter housing

③ Filter Material

Material	max. Δp*collapse	Micron ratings available	Code
Inorganic glass fibre	25 bar / 363 PSI	3, 5, 10, 20	G
Inorganic glass fibre	210 bar / 3045 PSI		H
Stainless fibre	210 bar / 3045 PSI		A
Stainless mesh	30 bar / 435 PSI	25, 50, 100, 200	S

Note: Collapse/burst resistance as per ISO 2941.

④ Micron Rating

3 µm	03
5 µm	05
10 µm	10
20 µm	20
25 µm	25
50 µm	50
100 µm	100
200 µm	200

Note: Other micron ratings on request.

⑤ Sealing Material

NBR (Buna-N®)	B
FKM (Viton®)	V
EPDM	E

Note: Other sealing materials on request.

⑥ Design Code

Only for information	X
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