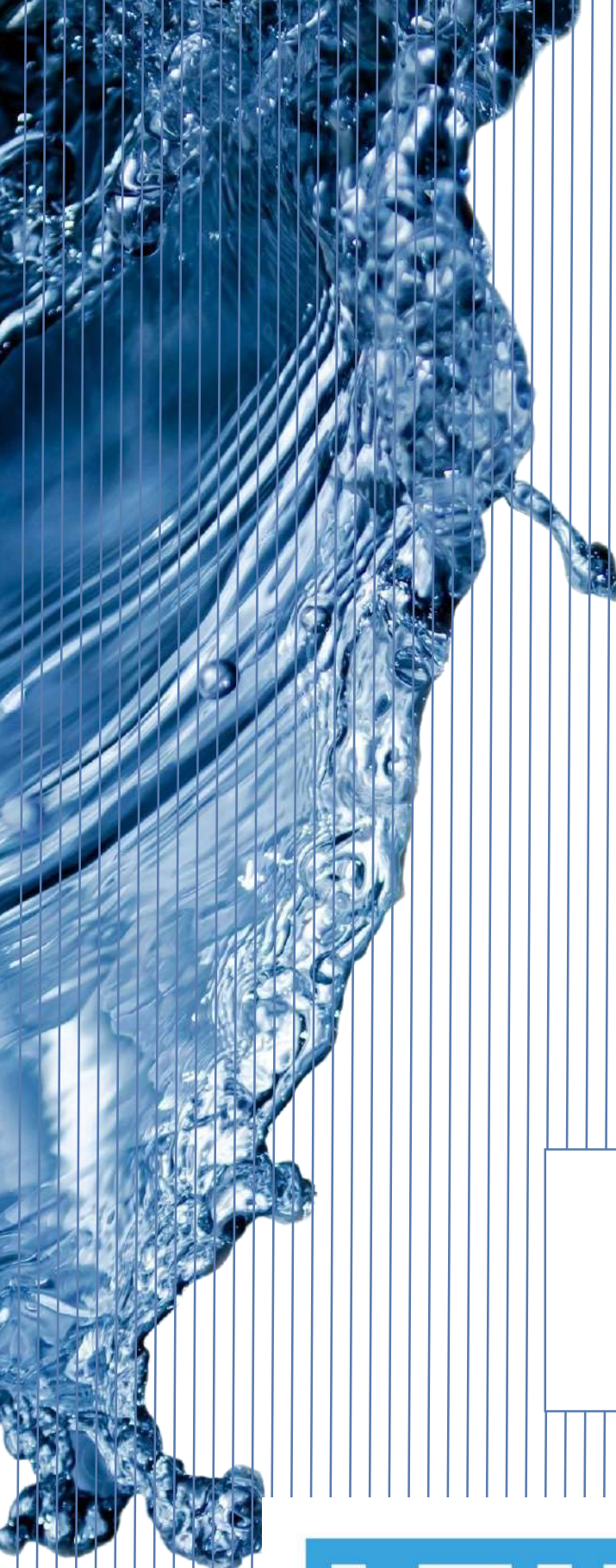




STAUFF
PRESSURE FILTERS
SF-TM



HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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High Pressure Filters ■ Type SF-TM



C

Product Description

STAUFF SF-TM series High Pressure Filters are designed for manifold block mounting hydraulic applications, with a maximum operating pressure of 315 bar / 4560 PSI. Used together with STAUFF SE series Filter Elements, a high efficiency of contaminant removal is assured. The high dirt-hold capacity of the elements ensures long service life and, as a result, reduced maintenance costs.

Technical Data

Construction

- Designed for manifold mounting, with mounting holes and fluid ports on top of the head.

Materials

- Filter head: SF-TM-014 ... 125 Free Cutting Steel
SF-TM-090 ... 300 Spheroidal Graphite Cast Iron
- Filter bowl: Cold Drawn Steel
- O-rings: NBR (Buna-N®)
FKM (Viton®)
EPDM (Ethylene-Propylene-Diene-Monomer-Rubber)
- Support ring: PTFE (Polytetrafluoroethylene)

Operating Pressure

- Max. 315 bar / 4560 PSI

Burst Pressure

- Min. 945 bar / 13705 PSI

Temperature Range

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

Filter Elements

- Specifications see page 44

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.

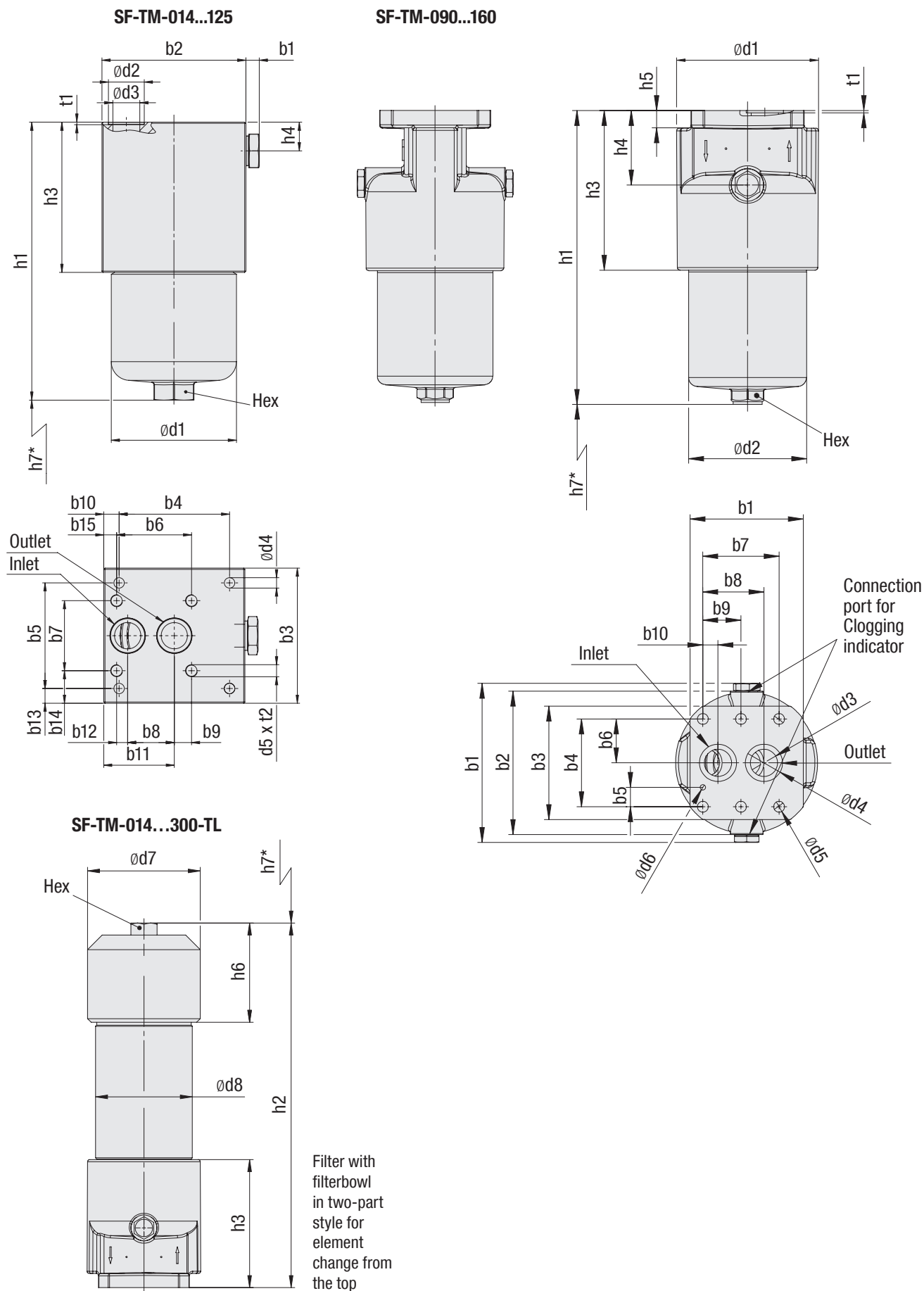
Clogging Indicators

- Standard actuating pressure: $5_{-0.5}^{+0.5}$ bar / $72.5_{-7.25}^{+7.25}$ 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)



High Pressure Filters ■ Type SF-TM

C



* recommended space for element change



High Pressure Filters ■ Type SF-TM

Dimensions (mm/in)			Filter Size SF-TM									
			014	030	045	070	125	090	130	160	250	300
b1			6	6	6	6	6	175,6	175,6	175,6	175,6	175,6
			.24	.24	.24	.24	.24	6.91	6.91	6.91	6.91	6.91
b2			104	104	115	115	115	158	158	158	158	158
			4.09	4.09	4.53	4.53	4.53	6.22	6.22	6.22	6.22	6.22
b3			80	80	110	110	110	125	125	125	125	125
			3.35	3.35	4.33	4.33	4.33	4.92	4.92	4.92	4.92	4.92
b4			89	89	90	90	90	96,8	96,8	96,8	96,8	96,8
			3.50	3.50	3.54	3.54	3.54	3.81	3.81	3.81	3.81	3.81
b5			31,8	31,8	86	86	86	21,4	21,4	21,4	21,4	21,4
			1.25	1.25	3.39	3.39	3.39	.84	.84	.84	.84	.84
b6			-	-	61	61	61	48,4	48,4	48,4	48,4	48,4
				2.40	2.40	2.40	1.91	1.91	1.91	1.91	1.91	1.91
b7			-	-	57	57	57	84,1	84,1	84,1	84,1	84,1
				2.24	2.24	2.24	3.31	3.31	3.31	3.31	3.31	3.31
b8			31,6	31,6	38	38	38	67,4	67,4	67,4	67,4	67,4
			1.24	1.24	1.50	1.50	1.50	2.65	2.65	2.65	2.65	2.65
b9			-	-	14	14	14	42,05	42,05	42,05	42,05	42,05
				.55	.55	.55	1.66	1.66	1.66	1.66	1.66	1.66
b10			7,5	7,5	12,5	12,5	12,5	16,7	16,7	16,7	16,7	16,7
			.30	.30	.49	.49	.49	.66	.66	.66	.66	.66
b11			55,9	55,9	57,5	57,5	57,5	-	-	-	-	-
			2.20	2.20	2.26	2.26	2.26					
b12			-	-	9	9	9	-	-	-	-	-
				.35	.35	.35						
b13			24,1	24,1	12	12	12	-	-	-	-	-
			.95	.95	.47	.47						
b14			-	-	26,5	26,5	26,5	-	-	-	-	-
				1.04	1.04	1.04						
b15			-	-	10,5	10,5	10,5	-	-	-	-	-
				.41	.41	.41						
d1			68,2	68,2	95,2	95,2	95,2	156	156	156	156	156
			2.69	2.69	3.75	3.75	3.75	6.14	6.14	6.14	6.14	6.14
d2			25,3	25,3	28,6	28,6	28,6	130,2	130,2	130,2	130,2	130,2
			1.00	1.00	1.13	1.13	1.13	5.13	5.13	5.13	5.13	5.13
d3			17,5	17,5	21,4	21,4	21,4	30	30	30	30	30
			.69	.69	.84	.84	.84	1.18	1.18	1.18	1.18	1.18
d4			8,5	8,5	9	9	9	41	41	41	41	41
			.33	.33	.35	.35	.35	1.61	1.61	1.61	1.61	1.61
d5			-	-	7/16–14 UNC	7/16–14 UNC	7/16–14 UNC	12	12	12	12	12
						.47	.47	.47	.47	.47	.47	.47
d6			-	-	-	-	-	6	6	6	6	6
								.24	.24	.24	.24	.24
d7			84	84	115	115	115	155	-	155	155	155
			3.31	3.31	4.53	4.53	4.53	6.10		6.10	6.10	6.10
d8			70	70	101,6	101,6	101,6	133	-	133	133	133
			2.76	2.76	4.00	4.00	4.00	5.24		5.24	5.24	5.24
h1			162	228	206	264	446	324	417,5	495	-	-
			6.38	8.97	8.11	10.39	17.56	12.76	16.44	19.49		
h2			164	230	206	266	447	330,5	-	501,5	657,5	822,5
			6.46	9.06	8.11	10.47	17.60	13.01		19.74	25.89	32.38
h3			76	76	93	93	93	178	178	178	178	178
			2.99	2.99	3.66	3.66	3.66	7.01	7.01	7.01	7.01	7.01
h4			25	25	25	25	25	82	82	82	82	82
			.98	.98	.98	.98	.98	3.23	3.23	3.23	3.23	3.23
h5			-	-	-	-	-	19,1	19,1	19,1	19,1	19,1
								.75	.75	.75	.75	.75
h6			64	64	82,5	82,5	82,5	136	-	136	136	136
			2.52	2.52	3.25	3.25	3.25	5.35		5.35	5.35	5.35
h7	One-Part Style	rec.*	100	170	140	200	380	190	285	360	-	-
			3.94	6.69	5.51	7.87	14.96	7.48	14.17	14.17		
		min.*	85	85	120	120	120	150	150	150	-	-
			3.35	3.35	4.72	4.72	4.72	5.91	5.91	5.91		
	Two-Part Style		65	130	100	160	340	120	-	290	425	590
			2.56	5.12	3.94	6.30	13.39	4.72	-	11.42	16.73	23.23
t1			2	2	2	2	2	3	3	3	3	3
			.08	.08	.08	.08	.08	.12	.12	.12	.12	.12
t2			-	-	13	13	13	-	-	-	-	-
				.51	.51	.51						
Hex			27	27	32	32	32	36	36	36	36	36
			1.06	1.06	1.26	1.26	1.26	1.42	1.42	1.42	1.42	1.42
Weight (kg/lbs)	One-Part Style		5,7	6,3	11	12,5	17	21,6	25,7	28,8	-	-
			12.5	13.9	24.2	27.8	37.8	48.0	56,7	64.0		
	Two-Part Style		6,6	7,3	13,1	14,6	21	26,5	-	33,8	43,2	54,6
			14.7	16.2	29.1	32.4	46.7	58.9		75.1	96	121.3

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



High Pressure Filter Housings / Complete Filters ■ Type SF-TM

SF-TM - 014 - G - 10 - B - B - B - P T 230 - TL / X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① Type

High Pressure Filter Top Mounted **SF-TM**

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
330 l/min / 90 US GPM	090
475 l/min / 125 US GPM	125
500 l/min / 132 US GPM	130
660 l/min / 160 US GPM	160
990 l/min / 250 US GPM	250
1135 l/min / 300 US GPM	300

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 Size

Connection Size	Group	Code	Group	Code	Group	Code	Group	Code
	014 030		045 070 125		090 160 250 300			
Special Flange	Ø17,5mm / Ø.69in	B	Ø21,4mm / Ø.85in	B	Ø30mm / Ø1.18in	B		B

⑦ Valve

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

⑧ 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

⑨ Thermostop

Without thermostop	none
With thermostop	T

⑩ Voltage (only for Code P)

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

⑪ Style Filter Bowl

With bowl in one-part style	none
Toploader, with bowl in two-part style	TL

Note: Group size SF-TM-250 and SF-TM-300 only available in TL-version.

⑫ Design Code

Only for information	X
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Filter Elements ■ Type SE

SE - 014 - G - 10 - B / X

① ② ③ ④ ⑤ ⑥

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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