

Return-Line Filters • Type RTF-40



Product Description

STAUFF RTF-40 Return-Line Filters are designed as tank top filters with a maximum operating pressure of 6,9 bar / 100 PSI. The filter bowl is designed to return the oil beneath the surface thus preventing entrainment of air.

Technical Data

Construction

■ Tank Top flange mounting

Materials

- Filter head: Aluminium
- Filter bowl: Bowl length 1: Polyamide

Bowl length 2: Steel

■ Sealings: NBR (Buna-N®)

Other sealing materials on request

Port Connections

- BSP
- NPT
- SAE 0-ring thread
- SAE flange

Flow Rating

■ Up to 378 I/min / 100 US GPM

Operating Pressure

■ Max. 6,9 bar / 100 PSI

Temperature Range

■ -25 °C ...+95 °C / -13 °F ... +203 °F

Filter Elements

■ RTE-47 with integrated bypass valve, single stack length

RTE-48 bypass valve integrated in the filter head,

equivalent to the HF-4 elements, single and double stack lengths

RTE-49 bypass valve integrated in the filter head, single and double stack lengths

■ Specifications see page 114

Media Compatibility

■ Mineral oils, other fluids on request

Options and Accessories

Valve

■ Bypass valve: Opening pressures 1 bar / 14.5 PSI ±10 % or

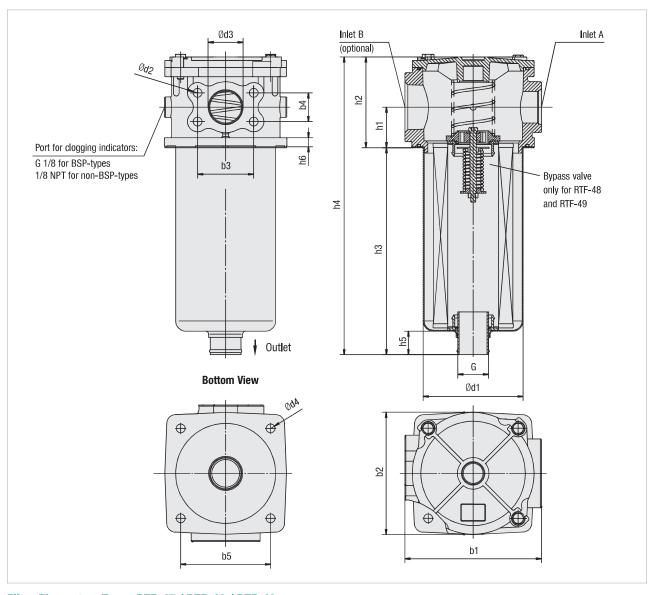
1,7 bar / 25 PSI ±10 %

RTF-47: Bypass intergrated in the filter element Bypass integrated in the filter head

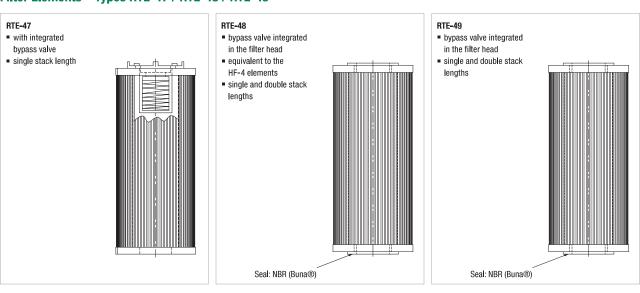
Clogging Indicators

■ For clogging indicator types please see page 125

Return-Line Filters • Type RTF-40

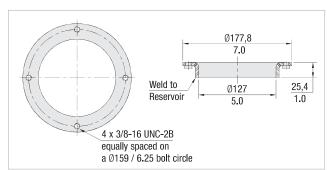


Filter Elements - Types RTE-47 / RTE-48 / RTE-49





Return-Line Filters = Type RTF-40



RTF-40 Series Weld Ring WR-40

The WR-40 weld ring is welded directly to the hydraulic reservoir, eliminating the need for drilling and tapping mounting holes in the reservoir.

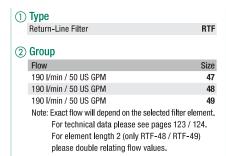
Material: Carbon Steel

Thread Connection	Filter Size RTF			
Combinations	4S1		4S2	
	Inlet A	Inlet B	Inlet A	Inlet B
BSP	1-1/4 and 1-1/2 SAE Flange	None	1-1/4 and 1-1/2 SAE Flange	None
BSP	1-1/4 and 1-1/2 SAE Flange	1-1/4	1-1/4 and 1-1/2 SAE Flange	1-1/4
NPT	1-1/4 and 1-1/2 SAE Flange	None	1-1/4 and 1-1/2 SAE Flange	None
NPT	1-1/4 and 1-1/2 SAE Flange	1-1/4	1-1/4 and 1-1/2 SAE Flange	1-1/4
NPT	1-1/2	None	1-1/2	None
NPT	1-1/2	1-1/4	1-1/2	1-1/4
NPT	1-1/2	1-1/2	1-1/2	1-1/2
SAE	1-5/8-12	None	1-5/8-12	None
SAE	1-5/8-12	1-5/8-12	1-5/8-12	1-5/8-12
SAE	1-5/8-12	1-7/8-12	1-5/8-12	1-7/8-12
SAE	1-5/8-12	2-1/2-12	1-5/8–12	2-1/2-12
SAE	1-7/8-12	1-7/8-12	1-7/8-12	1-7/8–12
Combination SAE & NPT	1-5/8-12	2	1-5/8-12	2

Dimensions (mm/in)	Filter Size RTF		
Dimensions (mm/in)	4S1	4S2	
h1	50	50	
***	1.97	1.97	
h2	112	112	
IIZ	4.41	4.41	
h3	263	475	
113	10.35	18.70	
h4	385	587	
114	15.16	23.11	
h5	21	38	
IIS	.83	1.50	
h6	11	11	
110	.43	.43	
b1	170	170	
ы	6.70	6.70	
b2	152	152	
UZ	5.98	5.98	
b3	69.9	69.9	
ВЗ	2.75	2.75	
b4	35,6	35,6	
54	1.40	1.40	
b5	112	112	
B3	4.41	4.41	
d1	122	126	
u i	4.80	4.96	
d2	M12 or	M12 or	
uz	1/2–13 UN	1/2–13 UN	
d3	38,1	38,1	
us	1.50	1.50	
d4	11	11	
u4	.43	.43	
G	G1-1/2 or	G1-1/2 or	
u	1-1/2 NPT	1-1/2 NPT	

Return-Line Filter Housings / Complete Filters - Type RTF-40





(3) Filter Material

Material	Max. Δp*collapse	Micron ratings available	Code
Without filter element	-	-	0
Inorg. glass fibre	10 bar / 145 PSI	3, 5, 10, 25	G
Filter paper	10 bar / 145 PSI	10, 25	D
*Note: Collapse/b	ourst resistance as	per ISO 2941	

Other materials on request

J)	Micron Rating	
	3 μm	03
	5 μm	05
	10 μm	10
	25 μm	25
	Note: Other micron ratings on request	

5 Sealing Material

NBR (Buna®) Note: Other sealing materials on request

6 Connection Style

Code	Group		Connection
Cour	Port B	Port A	Style
G20+C324M/0	None	1-1/4 and	BSP
U20+0024III/0	None	1-1/2 SAE Flange	DOF
G20+C324M/G20	1-1/4	1-1/4 and	BSP
U2070324W/U20	1-1/4	1-1/2 SAE Flange	DOI
N20+G324M/0	None	1-1/4 and	NPT
W20+0324W/0	NOTIC	1-1/2 SAE Flange	INI I
N20+C324M/N20	1-1/4	1-1/4 and	NPT
N20+0324W/N20	1-1/4	1-1/2 SAE Flange	INI I
N24/0	None	1-1/2	NPT
N24/N20	1-1/4	1-1/2	NPT
N24/N24	1-1/2	1-1/2	NPT
U20/0	None	1-5/8-12	SAE
U20/U20	1-5/8-12	1-5/8-12	SAE
U20/U24	1-7/8-12	1-5/8-12	SAE
U20/U40	2-1/2-12	1-5/8-12	SAE
U24/U24	1-7/8-12	1-7/8-12	SAE
U20/N32	2	1-5/8-12	Combination NPT & SAE

(7) Valve

No bypass	0
1 bar / 15 PSI	B1.0
1,7 bar / 24.6 PSI	B1.7

8 Length

Bowl Length 1 (1 element)	S1
Bowl Length 2 (2 elements)	SZ
Note: RTF-47 size available in S1 howl length only	

(9) Clogging Indicator

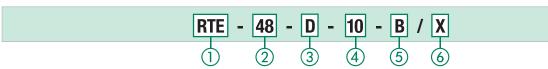
\sim	orogging marcator	
	No clogging indicator	(
	Visual clogging indicator	١
	Electrical clogging indicator	ı
	Note: See page 125 for more details on	
	indicator ports and options.	

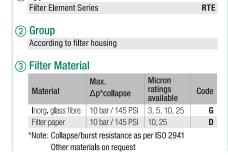
10 Design Code

Only for information

Filter Elements - Type RTE

① Type









(6) Design Code

Only for information