



STAUFF
Return-line filters
RTF-50



HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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Return-Line Filters ■ Type RTF-50



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Product Description

STAUFF RTF-50 Return-Line Filters are designed for tank top applications with a maximum pressure of 6,9 bar / 100 PSI. The filter bowl is designed to return the oil beneath the surface thus preventing entrainment of air. The RTF-58 elements interchange with the popular "K" series and RTF-59 elements interchange with the "RE-409" series elements.

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 O-ring thread

Flow Rating

- Up to 379 l/min / 100 US GPM

Operating Pressure

- Max. 6,9 bar / 100 PSI

Temperature Range

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

Filter Elements

- Specifications see page 118

Media Compatibility

- Mineral oils, other fluids on request

Options and Accessories

Valve

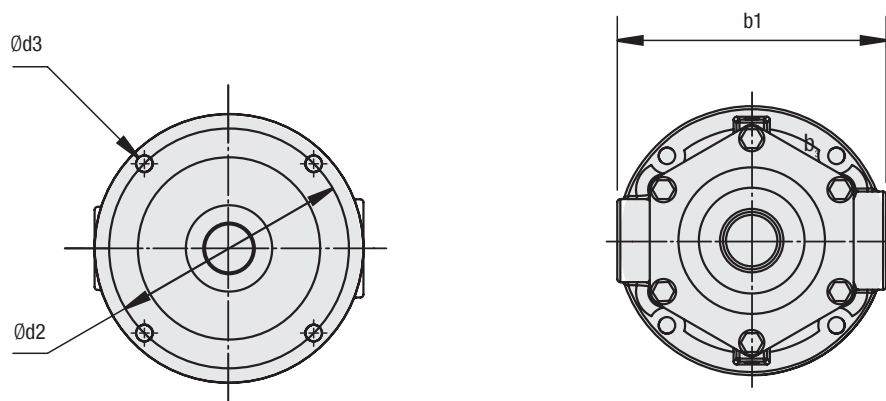
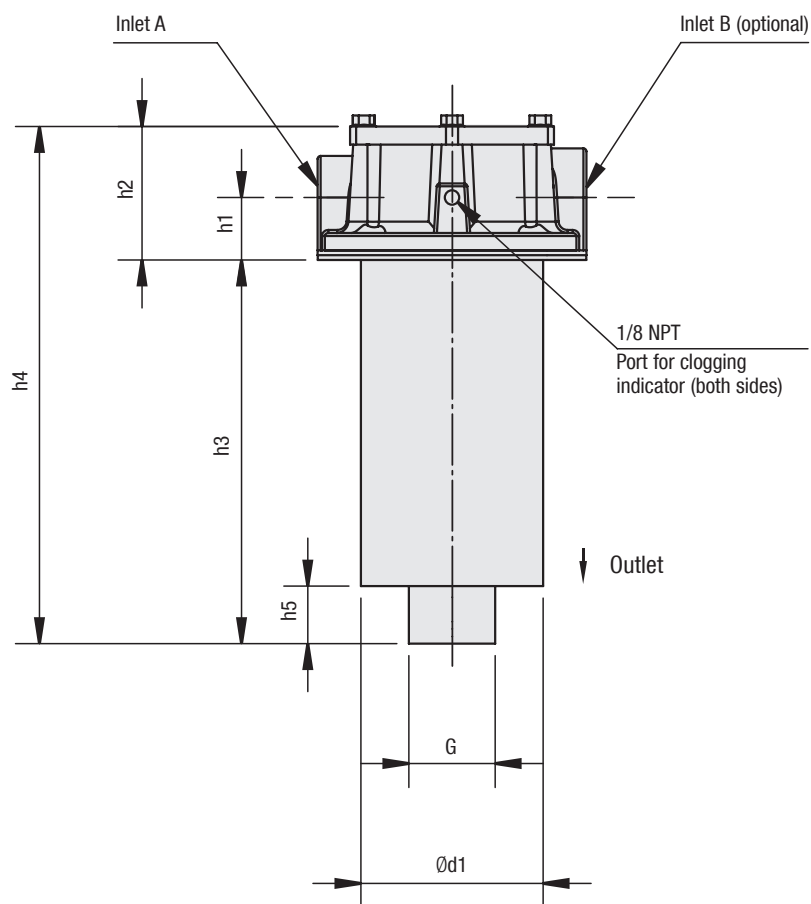
- Bypass valve: Opening pressures 1 bar / 14.5 PSI $\pm$ 10 % or 1,7 bar / 25 PSI $\pm$ 10 %
Other settings available on request

Clogging Indicators

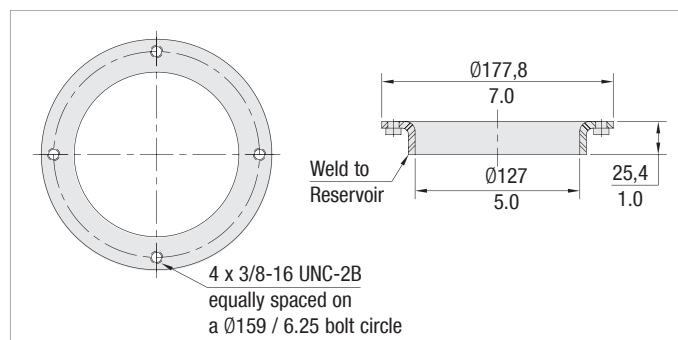
- For clogging indicator types please see page 125



Return-Line Filters ■ Type RTF-50



Return-Line Filters ■ Type RTF Accessories



RTF-50 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

Dimensions in mm / in



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Thread Connection Combinations	Filter Size RTF			
	5...S1		5...S2	
	Inlet A	Inlet B	Inlet A	Inlet B
NPT (N)	1-1/4	None	1-1/4	None
NPT (NM)	1-1/4	1-1/2	1-1/4	1-1/2
NPT (M)	None	1-1/2	None	1-1/2
Combination SAE & NPT (SM)	1-5/8-12	1-1/2	1-5/8-12	1-1/2
SAE (S)	1-5/8-12	None	1-5/8-12	None
SAE (T)	None	1-7/8-12	None	1-7/8-12
SAE (ST)	1-5/8-12	1-7/8-12	1-5/8-12	1-7/8-12
Combination NPT & SAE (NT)	1-1/4	1-7/8-12	1-1/4	1-7/8-12

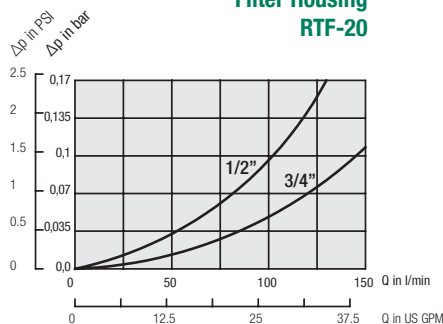
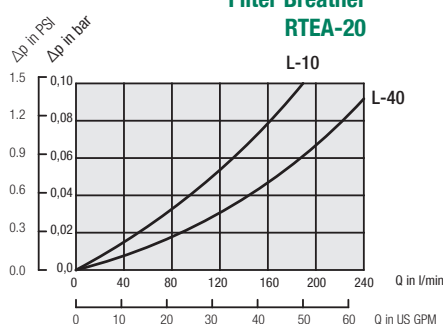
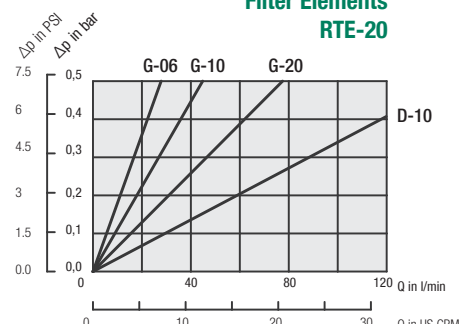
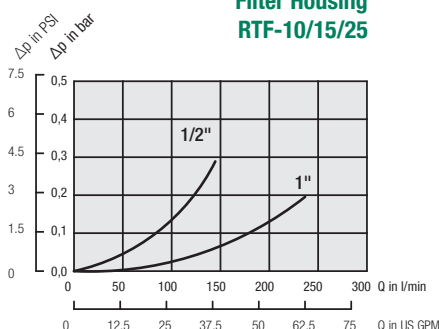
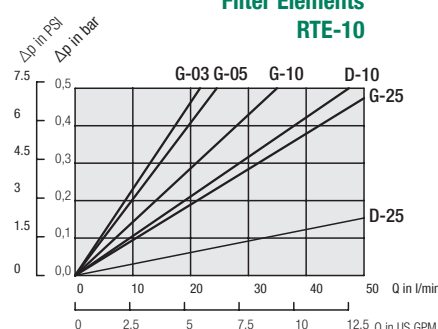
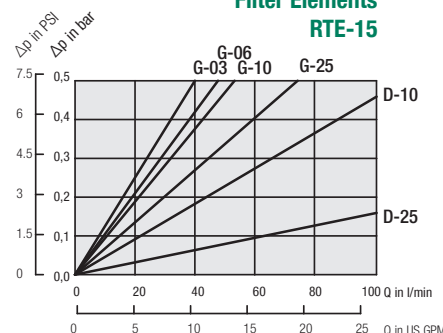
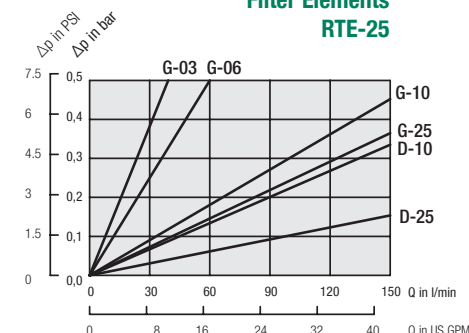
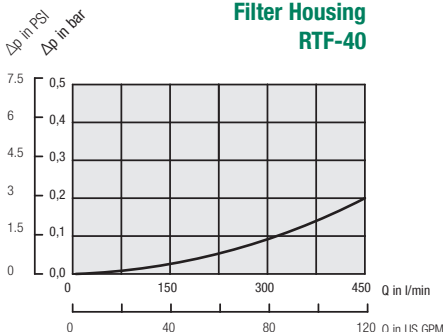
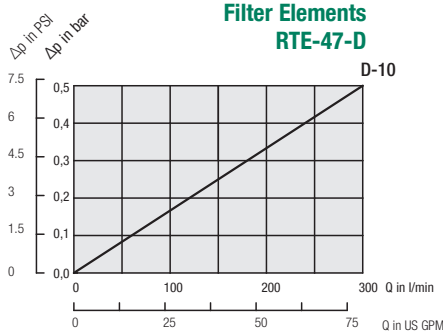
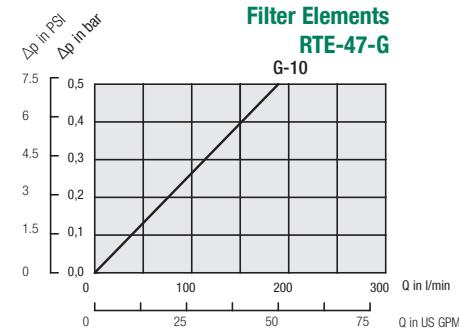
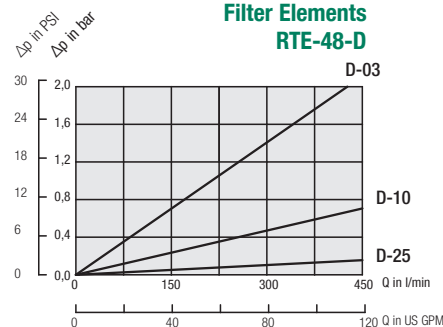
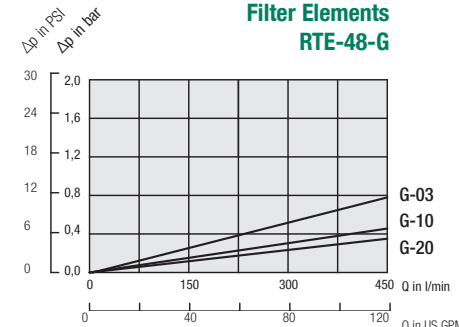
Dimensions (mm/in)	Filter Size RTF	
	5...S1	5...S2
h1	49,3	42,3
	1.94	1.67
h2	95,5	88,5
	3.78	3.48
h3	241,3	485,9
	9.50	19.13
h4	336,8	574,9
	13.26	22.61
h5	29,5	38,1
	1.16	1.50
b1	177,8	177,8
	7.00	7.00
d1	124,8	126
	4.91	4.96
d2	158,7	158,7
	6.25	6.25
d3	11,2	11,2
	.44	.44
G	1-1/2 NPT	1-1/2 NPT

D



Return-Line Filters • Type RTF Flow Characteristics

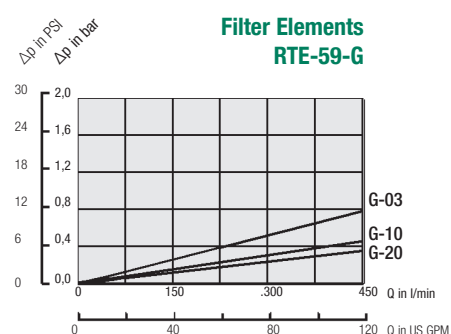
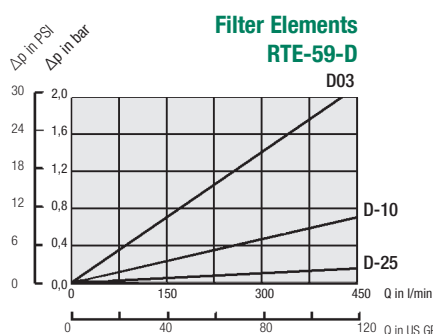
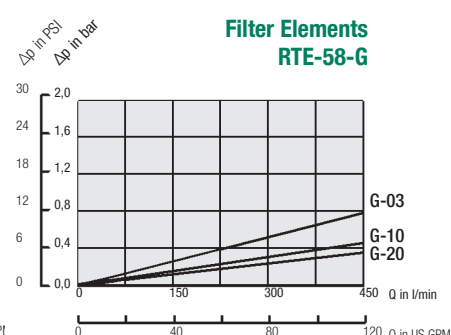
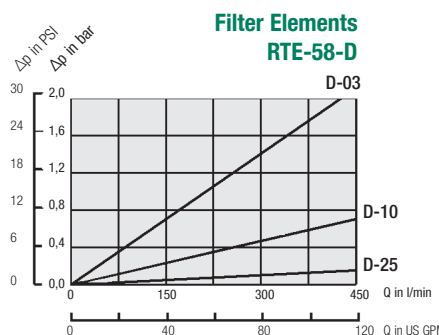
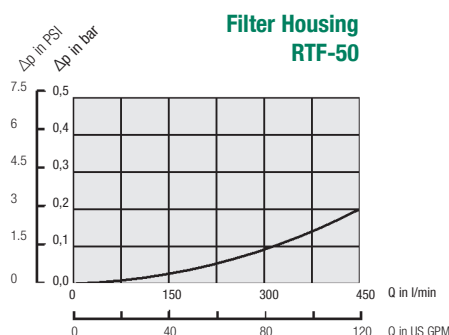
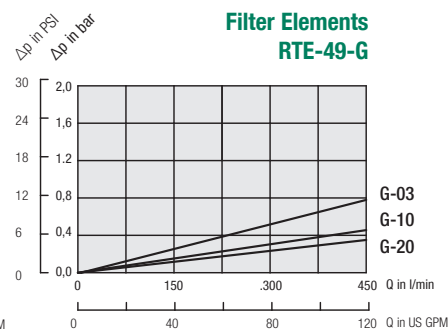
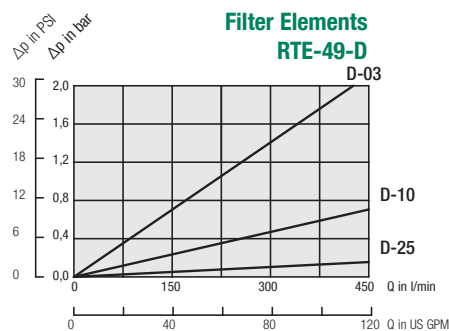
The following characteristics are valid for mineral oils with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s (30cSt). The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. The housing pressure drop is directly proportional to the oil density. Contact STAUFF for details.

Filter Housing
RTF-20

Filter Breather
RTEA-20

Filter Elements
RTE-20

Filter Housing
RTF-10/15/25

Filter Elements
RTE-10

Filter Elements
RTE-15

Filter Elements
RTE-25

Filter Housing
RTF-40

Filter Elements
RTE-47-D
Filter Elements
RTE-47-G
Filter Elements
RTE-48-D
Filter Elements
RTE-48-G

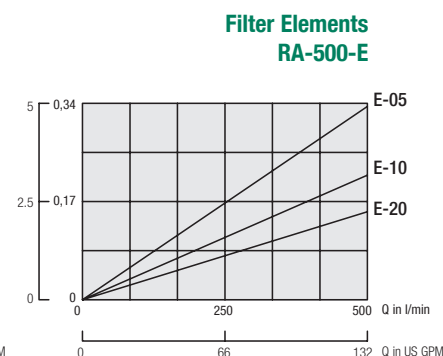
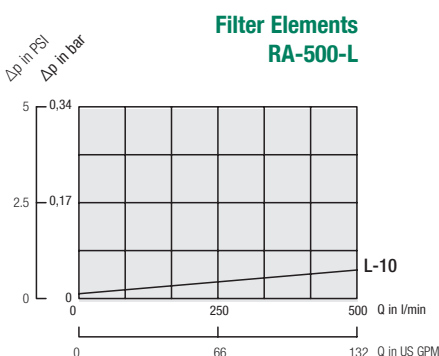
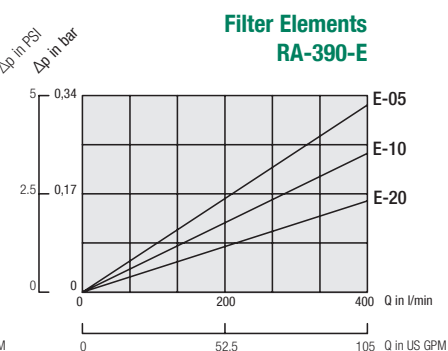
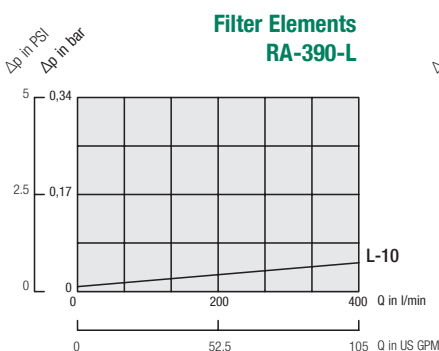
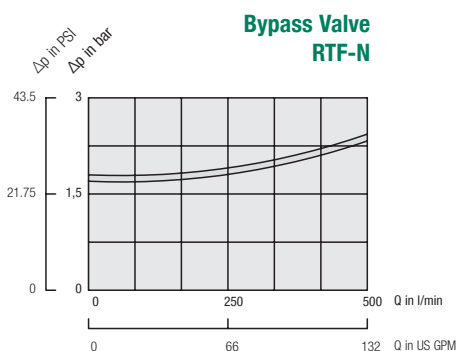
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Note: Element pressure drop curves are for "S1" single elements. For "S2" double elements use 50% of the "S1" Value.



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