

Technical Data

Stauff Return Line Insert Filters RTF-N allow for a choice of installation configurations which permits custom reservoir design with an in tank filtering system. The filters are installed semi-immersed or totally immersed into a reservoir. The filtration flow is from inside to the outside of the element which ensures that all the contaminant is collected inside the element itself avoiding contact with the reservoir fluid during element change. The combination of magnetic pre-filtration and high filtration efficiency results in a cost effective and versatile filtration system.

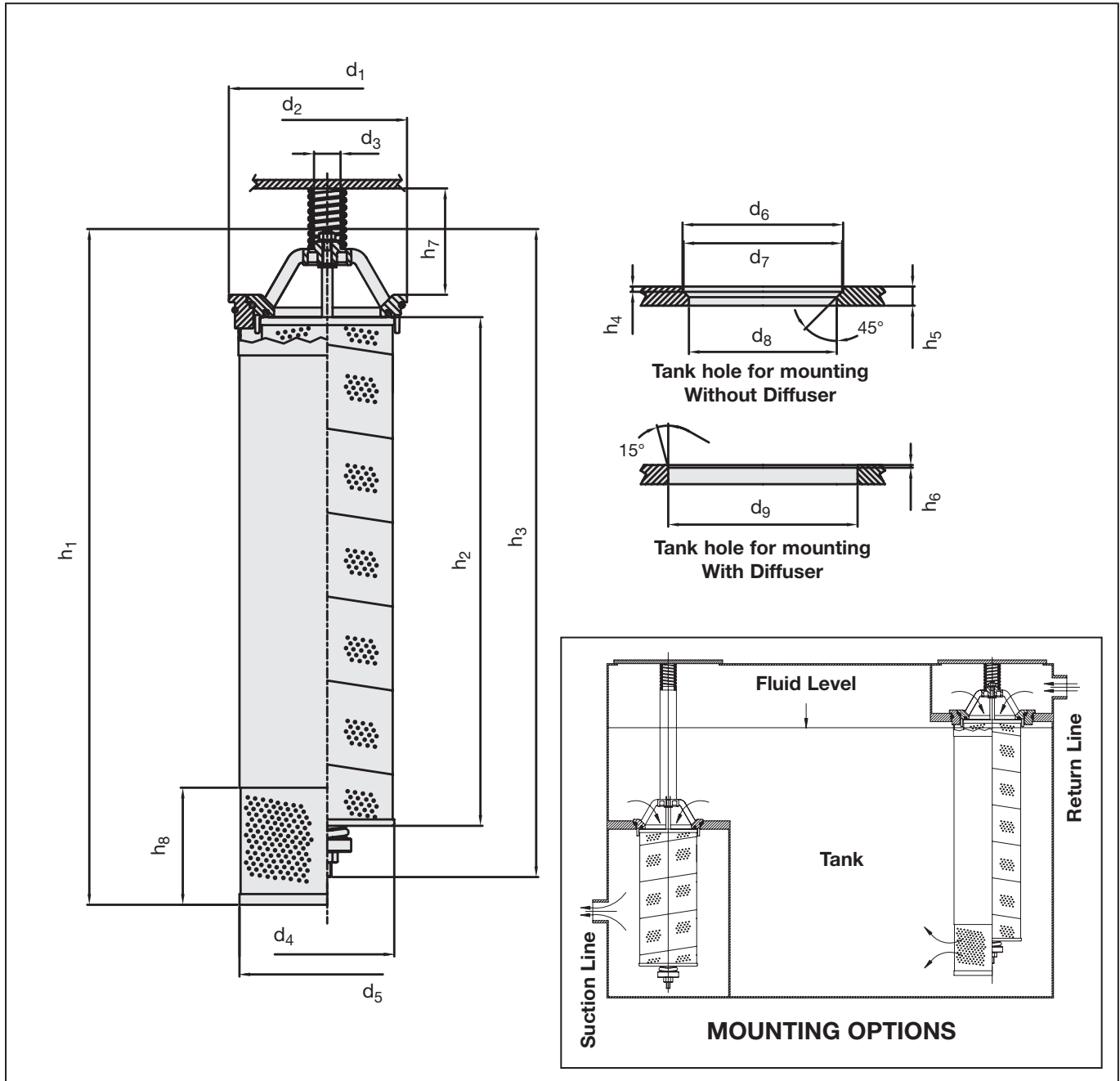


Technical Specification

Construction	Insert filter
Flange plate	Aluminium
Magnet rod	Steel
By-pass	Steel
Diffuser	Steel
Seals	NBR (Buna-N®) or FPM (Viton®) on request
Flow rating	Up to 132 GPM (500 LPM)
Operating pressure	10 bar (145 PSI)

Temperature range	-29°C to +107°C (-20°F to 225°F)
By-pass valve	Allows unfiltered oil to by-pass the contaminated element once the opening pressure has been reached
By-pass setting	1.5 bar (22 PSI)
Filter elements	Flow characteristics see page F92
Media	Mineral oils, other fluids on request

Dimensions



FILTRATION

Dimensions RTF-N Filters

Dimensions in mm (inch)

Filter Size	Dimensions																
	h_1	h_2	h_3	h_4	h_5	h_6	h_7	h_8	d_1	d_2	d_3	d_4	d_5	d_6	d_7	d_8	d_9
RTF-N-390	445 (17.52)	290 (11.42)	421 (16.57)	5 (0.20)	18 (0.71)	2.5 (0.10)	100 (3.94)	110 (4.33)	185 (7.28)	150 (5.91)	25 (0.98)	126 (4.95)	165 (6.50)	151 (5.94)	149 (5.87)	138 (5.47)	178 (7.01)
RTF-N-500	635 (25.00)	478 (18.82)	609 (23.98)	5 (0.20)	18 (0.71)	2.5 (0.10)	100 (3.94)	110 (4.33)	185 (7.28)	150 (5.91)	25 (0.98)	126 (4.95)	165 (6.50)	151 (5.94)	149 (5.87)	138 (5.47)	178 (7.01)

Ordering Code Filter Housings

RTF-N 500 E10 / B / 22 / D

Filter Type	
RTF-N	Insert filter

Flow (nominal)		
Size	l/min	GPM
390	390	103
500	500	132

Options	
Omit	None
D	Diffuser

By-pass Setting	
22	1,5 bar (22 PSI)

Seal Material	
B	NBR (Buna®)
V	FPM (Viton®)

Ordering Code Filter Elements

RA 500 E10 / B

Series	
RA	Elements for Insert Filter

Filter Size	
According to filter housing	

Filter Material			Micron ratings available
Code	Material	max Δp	
E	Microglass	10 bar (145 PSI)	05, 10, 20
L	Filter paper	10 bar (145 PSI)	10

Seal Material	
B	NBR (Buna®)
V	FPM (Viton®)

Micron Rating	
Code	Rating
05	5 μm
10	10 μm
20	20 μm

Flow Characteristics

The following characteristics are valid for mineral based fluids with a density of 0,85 kg/dm³ and the kinematic viscosity of 30 mm²/s. The characteristics have been determined in accordance to ISO 3968. Multipass filter ratings have been obtained in accordance to ISO 16889. Consult factory for details.

