



Quality
Endorsed
Company

ISO 9002 Lic 3765
Standards Australia



Eco-Filter

Tank-Top Return Filters

Quality and Service
worldwide

STAUFF

Optional Clogging Indicators

1. Visual Clogging Indicator SIM-04/1.5

The gauge visually displays the degree of contamination of the element. The coloured segments allow quick visual checking.

green	0 – 1.2 bar	element has service life left
yellow	1.2 – 1.5 bar	element is contaminated and should be changed
red	>1.5 bar	by-pass valve open, unfiltered oil passing to tank

The filter head cover plate is tapped to accept the clogging indicator.



2. Electrical Clogging Switch SIE-NO / SIE-NC

The switch is used where an electrical signal is needed to indicate when the element needs changing. The switch can turn on a light, shut the machine down, or any other function controlled by an electric signal. The switching pressure is 1.3 bar and this allows the element to be changed before the by-pass setting of 1.5 bar is reached.

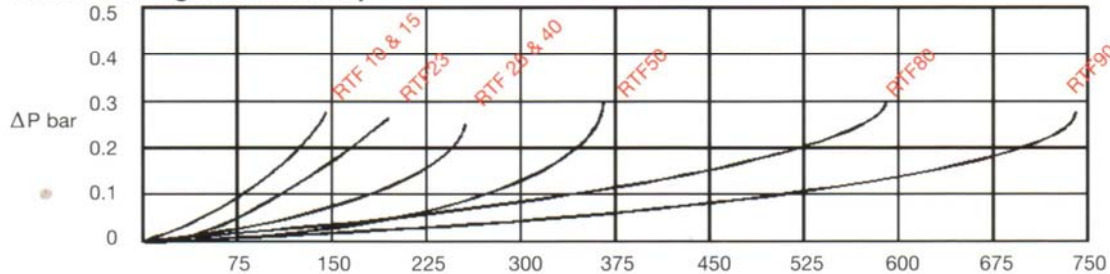
Technical Data.

max. operating voltage: 48V	max. current (resistive load) 0.5 A
Protection: IP 54	max. current (inductive load) 0.2 A
SIE-NO normally open, contacts close at 1.3 bar pressure setting	
SIE-NC normally closed, contacts open at 1.3 bar pressure setting	

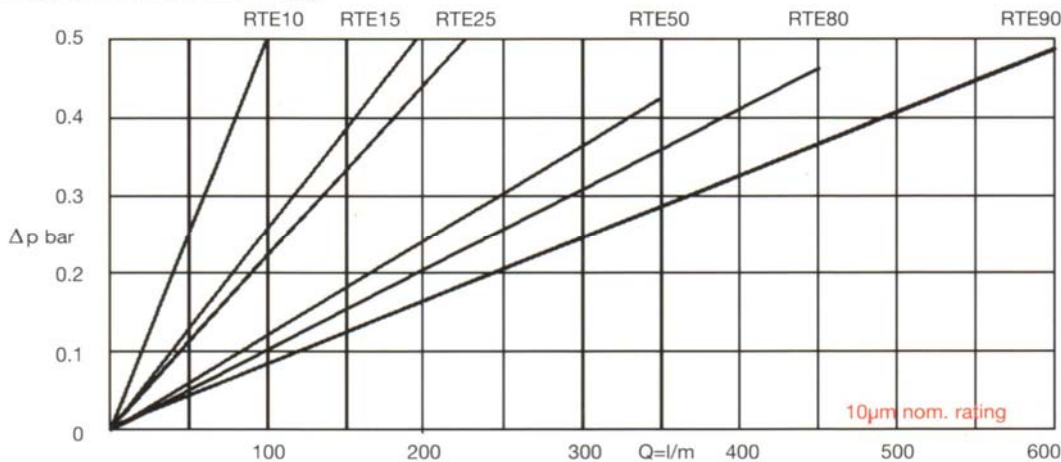


Pressure Drop Characteristics at 30cSt.

Filter Housing Pressure Drop



Element Pressure Drop



How to order

The filter model number, eg., RTF25D10B, denotes a complete filter assembly including element. Any optional clogging indicator needs to be ordered as a separate item. Replacement elements are ordered using the element code, eg., RTE25D10B

Technical Data

Stauff **Eco-Filters** are designed as economical tank-top return line filters. They are mounted directly on the tank top and the filter bowl is designed to have the outlet submerged beneath the oil surface to avoid entrainment of air. The bypass valve is built into the filter element.

Specifications

Construction	Tank Top flange mounting	By-pass setting	1.5 bar ± 9%
Filter head	Aluminium alloy	By-pass location	Integral with element
Seals	NBR (Perbunan)	Temperature range	-25°C to + 110°C
Connection	BSP threads	Clogging indicator	Optional gauge type or Optional electrical switch
Max Operating Pressure	3 bar	Filter media	Resin stabilised cellulose
Max Test Pressure	6 bar	Other Media	10µm nom. B ₁₀ >2 On request

Dimensional Data

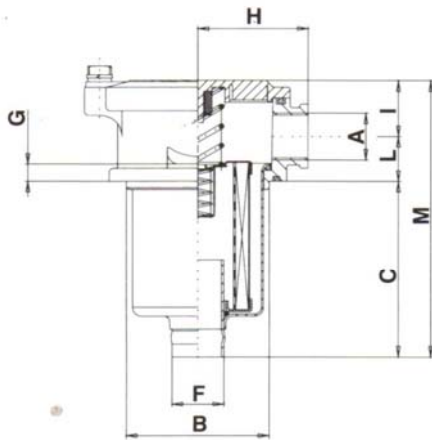


Fig.	Model	Nom. Flow	A (BSP)	B	C	D	E	F	G	H	I	L	M	Weight Kg.
1	RTF10D10B	30	1/2"	66	82	90	7	24	8	50	26	21	129	0.45
1	RTF15D10B	50	1/2"	86	92	115	9	28	10	67	34	29	155	0.85
1	RTF23D10B	80	3/4"	86	137	115	9	28	10	67	34	29	200	1
1	RTF25D10B	100	1"	86	137	115	9	28	10	67	34	29	200	1.05
2	RTF40D10B	150	1"	129	235	175	11	40	10	95	45	35	315	2.3
2	RTF50D10B	180	1 1/4"	129	235	175	11	40	10	95	45	35	315	2.1
3	RTF80D10B	350	1 1/2"	173	226	220	11	50	11	120	48	38	310	3.2
3	RTF90D10B	600	2"	173	276	220	11	63	11	120	48	38	360	3.5

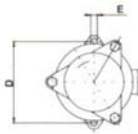


FIG.1

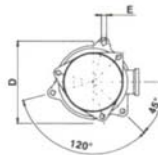


FIG.2

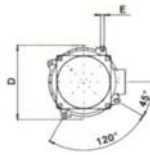
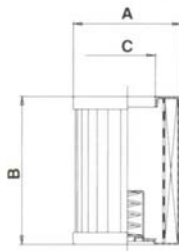


FIG.3

Element Data and Dimensions



Model	A	B	C	Element area cm ²
RTE10D10B	50	70	25	550
RTE15D10B	70	85	28.5	1400
RTE25D10B	70	130	28.5	2150
RTE50D10B	99	210	41	4600
RTE80D10B	137	200	51	7100
RTE90D10B	137	250	64	9000

N.B. The RTF23 filter size and the RTF25 filter size both use the RTE25D10B elements.
The RTF40 filter size and the RTF50 filter size both use the RTE50D10B elements

Filter Selection Data

Assembly pressure drop is equal to the housing pressure drop plus the element pressure drop (corrected for the actual operating viscosity). The pressure drop through the elements varies according to the following formulae.
 $\frac{\text{actual viscosity}}{30} \times \Delta p = \text{corrected } \Delta p$. Housing Δp is not affected by viscosity changes.

eg. an RTE25D10B with flow of 80 lpm and viscosity of 210 cSt.
The RTE25D10B $\Delta p = \frac{210}{30} \times 0.2 = 1.4$ bar Δp

The RTF25 housing Δp with 80 lpm = 0.2 bar.

Therefore - Total Δp for an RTF25D10B with a viscosity of 210 cSt. = 0.2 + 1.4 = 1.6 bar Δp .

Stauff specialise in Contamination Control



Filtration Assemblies for water and solid contaminant



Pressure Filters



Desiccant Breathers

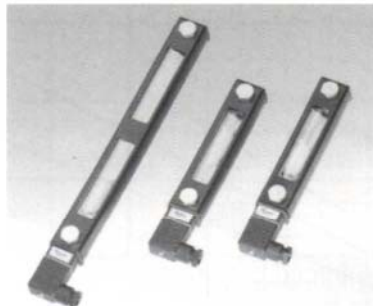
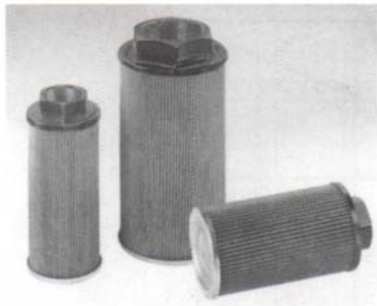


Replacement Canisters



Spin-on Suction and Return Filters

..... and Tank Hardware



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