

## Technical Data

STAUFF RTF10/25 series return filters are designed for in-tank hydraulic applications with a maximum operating pressure of 3.4 bar (50 PSI).



## Technical Specification

Construction	Tank Top flange mounting
Filter head	Die cast aluminum
Element bowl	Polyamide
Seals	“O”-Rings NBR (Buna-N®), FPM (Viton®)
Port connections	BSP, NPT, SAE-“O”-Ring thread
Flow rating	up to 95 l/min (25 US GPM) for 32 cSt (150 SUS) fluids
Operating Pressure	max 3.4 bar (50 PSI)
Test pressure	min 6.8 bar (100 PSI)
Temperature range	-25°C to +100°C (-13°F to 212°F)

By-pass valve (integrated in the filter element)

Allows unfiltered oil to by-pass the contaminated element once the opening pressure has been reached  
Opening pressure  
1.7 bar (25 PSI)

Clogging indicators

Gage indicator 0-6.9 bar (0-100 PSI) with colored segments;  
Electrical, 0.35-2.5 bar (5-35 PSI) adjustable

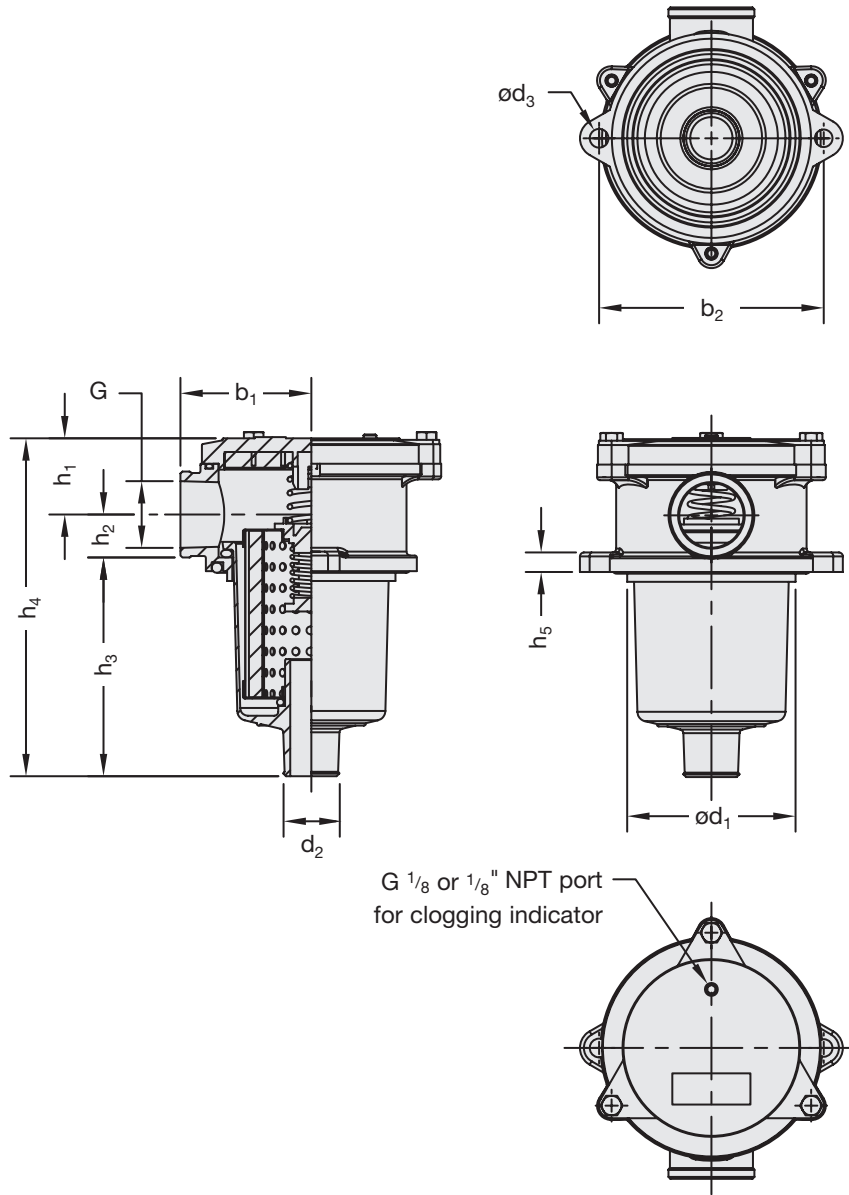
Elements

Flow characteristics see page F71

Media

Mineral oils, other fluids on request

## Dimensions



## Dimensions RTF10/25 Filters

Dimensions in mm (inch)

Filter Size	Thread connection G				$h_1$	$h_2$	$h_3$	$h_4$	$h_5$	$b_1$	$b_2$	$d_1$	$d_2$	$d_3$	Weight	
	BSP	NPT	SAE-"O" Ring	Bowl length											$k_g$	lbs
RTF10	G $\frac{1}{2}$	$\frac{1}{2}$	N/A	S1	28 (1.10)	21 (0.83)	87 (3.43)	135 (5.31)	8 (0.32)	50 (1.97)	90 (3.54)	66 (2.60)	24 (0.94)	7 (0.28)	0,45	1
RTF25	G 1	1	$1\frac{5}{16}$ -12 UNF	S1	38 (1.50)	29 (1.14)	105 (4.13)	172 (6.77)	10 (0.39)	67 (2.64)	115 (4.52)	86 (3.39)	28 (1.10)	9 (0.35)	0,9	2
RTF25	G 1	1	$1\frac{5}{16}$ -12 UNF	S2	38 (1.50)	29 (1.14)	150 (5.91)	217 (8.54)	10 (0.39)	67 (2.64)	115 (4.52)	86 (3.39)	28 (1.10)	9 (0.35)	1	2.2

**RTF 25 N ... B S2 V /X**

<b>Filter Type</b>	<b>RTF</b>	
<b>Group</b>		
<b>Size</b>	<b>Flow*</b>	
	l/min	GPM
<b>10</b>	38	10
<b>25</b>	90	25
* Note Exact flow will depend on filter element selected. Consult technical information below.		

Connection Style		Group	
Code	Connection style	10	25
<b>B</b>	BSP	G <sup>1/2</sup>	G1
<b>N</b>	NPT	1/2	1
<b>S</b>	SAE "O"-Ring thread	N/A	1 <sup>5/16</sup> - 12UN

**For Complete Filters:**  
 identification filter material  
 + micron rating code  
 (see ordering code filter elements below)

<b>Design Code</b>	only for information
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<b>Clogging Indicator</b>	
<b>N</b>	No Indicator
<b>V</b>	Visual
<b>E</b>	Electrical
See page F88 for more details on the indicator options.	

<b>Length</b>	
<b>S1</b>	Bowl length 1
<b>S2</b>	Bowl length 2
RTF 10 size available in bowl length 1 only	

<b>Seal Material</b>	
<b>B</b>	NBR (Buna-N®)

**RTE 25 D 10 B / S2 /X**

<b>Series</b>	<b>RTE</b>
<b>Group</b>	according to filter housing

Filter Material		Micron ratings available
Code	Material	
<b>D</b>	Filter paper	10, 20, 25,
<b>G</b>	Inorganic glass fiber	10,25

<b>Design Code</b>	only for information
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<b>Length</b>	
<b>S1</b>	for bowl length 1
<b>S2</b>	for bowl length 2
RTF 10 size available in bowl length 1 only	

<b>Seal Material</b>	
<b>B</b>	NBR (Buna-N®)

<b>Micron Rating</b>	
Code	Rating
<b>10</b>	10 µm
<b>20</b>	20 µm
<b>25</b>	25 µm

FILTRATION

**Flow characteristics of return Line Filters RTF 10/25**

The following characteristics are valid for mineral oils with a density of 0,85 kg/dm<sup>3</sup> and the kinematic viscosity of 30 mm<sup>2</sup>/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.

