

## Technical Data

STAUFF RTF40 series return 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 Specification

FILTRATION

Construction	Tank top flange mounting	By-pass valve	Allows unfiltered oil to by-pass the contaminated element once the opening pressure has been reached
Filter head	Die cast aluminum	By-pass setting	1.7 bar (25 PSI) (by-pass in element for RTF47, by-pass in head for RTF48 and RTF49)
Element bowl	Bowl length 1, Polyamide Bowl length 2, Steel	Clogging indicators	Gage indicator 0-6.9 bar (0-100 PSI) with colored segments; electrical, 0.35-2.5 bar (5-35 PSI) adjustable
Seals	“O”-Rings NBR (Buna-N®),	Elements	Flow characteristics see page F75
Port connections	BSP, NPT, SAE-“O”-Ring thread, SAE flange	Media	Mineral oils, other fluids on request
Flow rating	up to 379 l/min (100 US GPM) for 32cSt (150 SUS) fluids		
Operating pressure	max 6.9 bar (100 PSI)		
Temperature range	-25°C to +95°C (-13°F to +212°F)		

**RTF48 N 25 ... B / S2 / V / X**

**Filter Type**    RTF47   RTF48   RTF49

Connection Style		Group	
Code	Connection style	Port A	Port B
<b>B</b>	BSP	G1-1/4 & 1-1/2 SAE flange	None
<b>BB</b>	BSP	G1-1/4 & 1-1/2 SAE flange	G1-1/4
<b>N</b>	NPT	1-1/4 NPT & 1-1/2 SAE flange	None
<b>NN</b>	NPT	1-1/4 NPT & 1-1/2 SAE flange	1-1/4 NPT
<b>M</b>	NPT	1-1/2 NPT	None
<b>MN</b>	NPT	1-1/2 NPT	1-1/4 NPT
<b>MM</b>	NPT	1-1/2 NPT	1-1/2 NPT
<b>S</b>	SAE	1-5/8 -12 UN	None
<b>SS</b>	SAE	1-5/8 -12 UN	1-5/8 -12 UN
<b>ST</b>	SAE	1-5/8 -12 UN	1-7/8 -12 UN
<b>SU</b>	SAE	1-5/8 -12 UN	2-1/2 -12 UN
<b>SO</b>	Combination	1-5/8 -12 UN	2 NPT
<b>TT</b>	SAE	1-7/8 -12 UN	1-7/8 -12 UN

**Design Code**  
only for information

**Clogging Indicator**

<b>N</b>	None
<b>V</b>	Visual
<b>E</b>	Electrical

See page F88 for more details on the indicator options.

**Length**

<b>S1</b>	for bowl length 1 (1 element)
<b>S2</b>	for bowl length 2 (2 elements)

Note: RTF 47 available in S1 bowl only

**Seal Material**

<b>B</b>	NBR (Buna-N®)
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other seal material on request

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

**By-pass Valve**

Code	By-pass setting
00	No by-pass
15	1 bar (15 PSI)
25	1.7 bar (25 PSI)

FILTRATION

**RTE48 D 10 B / X**

**Group**  
according to filter housing

**Design Code**  
only for information

Filter Material			Micron ratings available
Code	Material	Max Δp Collapse	
<b>D</b>	Filter paper	10 bar (150 PSI)	03, 10, 20, 25
<b>G</b>	Inorganic glass fiber	10 bar (150 PSI)	03, 10, 25

**Seal Material**

<b>B</b>	NBR (Buna-N®)
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other seal material on request

**Micron Rating**

Code	Rating
<b>03</b>	03 μm
<b>10</b>	10 μm
<b>20</b>	20 μm
<b>25</b>	25 μm