

## **Technical Data**

STAUFF

Stauff RFA return line filters are a one piece design and can be used as a tank top or an inline filter. They are mounted in the return line and if 100% of the system oil is filtered, provide the optimum removal of contaminant for the systems. This provides the pump with clean oil, thus reducing contaminant generated wear.



## **Technical Specification**

Construction	Tank Top flange or in line mounting
Filter head/bowl	Aluminium
Seals	NBR (Buna-N <sup>®</sup> ), FPM (Viton <sup>®</sup> ) or EPDM (Ethylene-Propylene)
Threaded connection	SAE-"O"-Ring thread
Operating pressure	max 25 bar <i>(365 PSI)</i>
Proof pressure	37.5 bar <i>(545 PSI)</i>
Temperature range	-10° to +100°C (14° to 212°F)

By-pass valve (integrated in the filter element)	Opening pressure 3 bar $\pm$ 0,3 bar (43.5 PSI $\pm$ 4.35 PSI) other pressures on request
Clogging indicator	Gauge type indicator 04 bar (058 PSI) colored segments; Electrical switch, setting 2.5 bar (36.25 PSI)
Filter elements	Specification see page F57
Media	Mineral oils, other fluids on request



## **Dimensions**



## **Dimensions RFA030 Filters**

Dimensions in mm (inch)

Filter	Thread Connection G	Dimensions												
Size	SAE-"O" Ring Thread	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h₄	$h_5$	b <sub>1</sub>	<b>b</b> <sub>2</sub>	d,	d <sub>2</sub>	d₃	$d_4$	11	G2
RFA 030	3/4-16-UN 1-1/16-UN	25.5 (1.16)	62.5 (2.46)	169.5 <i>(</i> 6. <i>67)</i>	239.5 <i>(</i> 9. <i>43)</i>	32 (1.26)	89 <i>(3.50)</i>	80 <i>(3.15)</i>	70 (2.76)	44.5 (1.75)	100 <i>(3.94)</i>	74 (2.91)	54 (2.16)	M6 or 1/4" UNC

## **Options RFA030**

#### 1. Visual clogging indicator HI-M

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

green	02,5	bar (036,25 PSI)	Element has service life left
yellow	2,53,0	bar (36,2543,5 PSI)	Element is contaminated and
			should be changed
red	>3,0	bar (>43,5 PSI)	By-pass valve open,
			unfiltered oil passing to tank

#### 2. Electrical clogging switch HI-G

The switch is used where an electrical signal is needed to indicate when the element needs changing. The switch can turn on a light, or shut the machine down, or any further function controlled by an electric signal. The switching pressure is 2,5 bar (*36,25 PSI*) and this allows the element to be changed before the by-pass setting of 3 bar (*43,5 PSI*) is reached.

Maximum Voltage	Switch Type
42 V	G 42
110 V	G 110
220 V	G 220

#### 3. Filter bowl with threaded connection (standard)

Under some circumstances such as a tall reservoir or one with oil levels which vary greatly during operation, it is necessary to extend the filter bowl so that the returning oil returns beneath the surface and does not entrain air in the process. The standard bowl with a female thread allows an extension to be fitted quite simply. The one piece design also allows for inline applications.

#### 4. Leakage oil connection

Seal or case drain lines can be connected to the filter through either of the clogging indicator ports providing that the leakage oil can accept a pressure of 3 bar (43.5 *PSI*). It ensures that no un-filtered oil can return to the reservoir. It may save the cost of a manifold.

#### 5. Filter bowl with threaded connection and diffuser

Diffusers mounted to the filter bowl minimize foaming and reduce noise of high return line flows. For further details on STAUFF diffusers please refer to the "Hydraulic Accessories" section of this catalog.

Dimensions	in	mm	(inch)	1
DIMENSIONS	111	111111		

	for Return	Dimensions						
Size Line SRV Filter Size		ø D	L	Thread G	SW			
SRV-114-B16	RF 014/030	60 <b>(2.36)</b>	139 <b>(5.47)</b>	G 1 or 1" NPT	46 <b>(1.81)</b>			







Dimension G2 see table page F54



#### Threaded outlet with SRV





**FILTRATION** 

# **Return Line Filter RFA030 Ordering Code**

## **Ordering Code Filter Housings**





## **Return Line Filter RFA030 Flow Characteristics**

### Flow Characteristics of Return-line Filters RFA030

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.









