

RIF 300

Return Line Filters



Local solutions for individual customers worldwide



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Stauff Filtration Technology

Stauff Filtration Technology offers a complete range of filtration products and services that will provide the system designer or user with the highest level of contamination control demanded by today's most sophisticated applications. Products include pressure filters, return line filter elements, spin on filters suction strainers, and filler breathers for various hydraulic, lubrication and fuel oils.

Stauff has the technical expertise to provide superior filter element designs for the Stauff original filter housings and also for the interchange element market. Stauff manufactures more than 10,000 different elements. Many of these are designed to fit into filter housings produced by other companies while maintaining or surpassing the original performance.

The "Stauff Contamination Control Program" includes the diagnostic services including fluid sampling and laser particle counting products needed to monitor the system contamination level. Stauff, through its global network of wholly owned companies and technically qualified distributors, is ideally placed to assist its customers in the total contamination process providing a well balanced filtration solution.

Technical Data

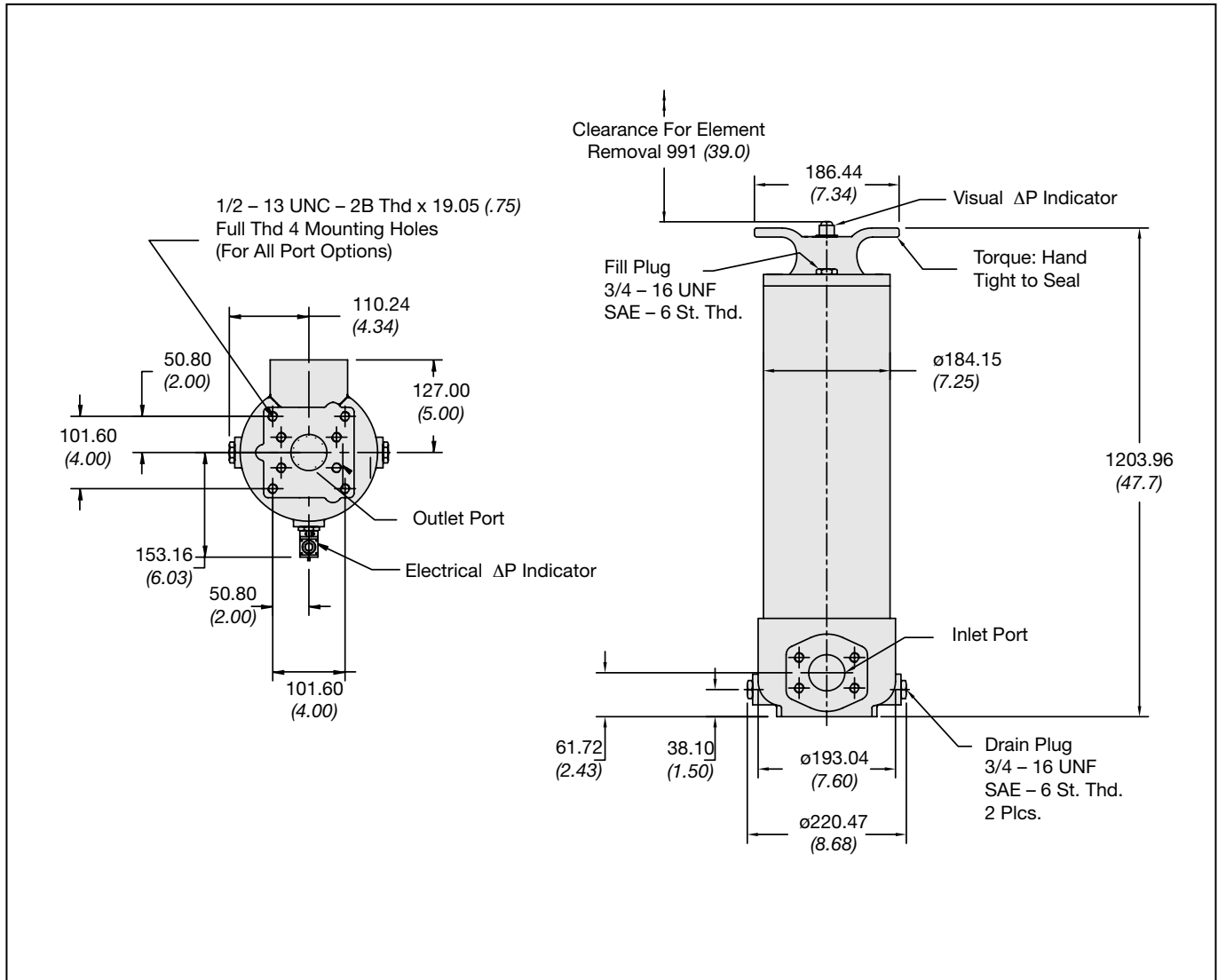
STAUFF RIF300 series return filters are designed for inline hydraulic applications with a maximum working pressure of 34.5 bar (500 PSI). Used together with STAUFF filter elements, a high efficiency of contaminant removal is assured.



Technical Specifications

Construction	In-line assembly	Burst pressure	min 103 bar (1500 psi)
Filter head and cover	Anodized aluminum	Temperature range	-29°C to 107°C (-20°F to 225°F)
Element case	Plated Steel	Bypass valve	Allows unfiltered oil to bypass the contaminated element once the opening pressure has been reached
Seals	O-rings NBR (Buna-N®) FPM (Viton®)	Bypass setting	3.4 + .34 bar (50 + 5 psi)
Port connections	SAE Code 61 flange	Clogging indicators	Visual, 2.4 bar (35 psi) actuating pressure. Electrical, 2.4 bar (35 psi) actuating pressure.
Flow rating	up to 1135 l/min (300 US GPM) for 32 cSt (150 SUS) fluids	Elements	specifications see page
Operating Pressure	max 34.5 bar (500 psi)	Media	mineral oils, other fluids

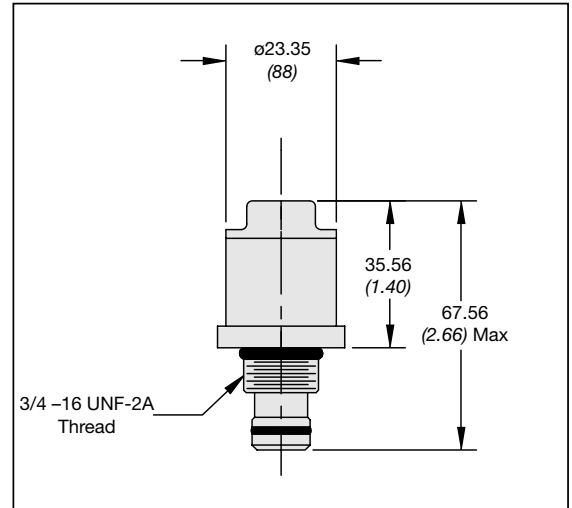
Dimensions



Dimensions in mm (inch)

1. Visual Clogging Indicator

Part number HIR-V is a clogging indicator actuated by the differential pressure across the filter element. The actuating pressure of 2.4 bar (35 psi) allows the dirty element to be changed before the by-pass setting of 3.4 bar (50 psi) is reached.



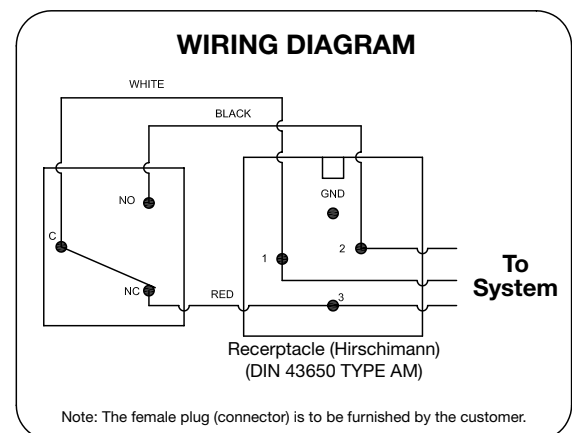
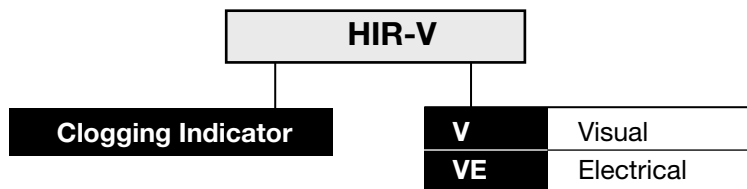
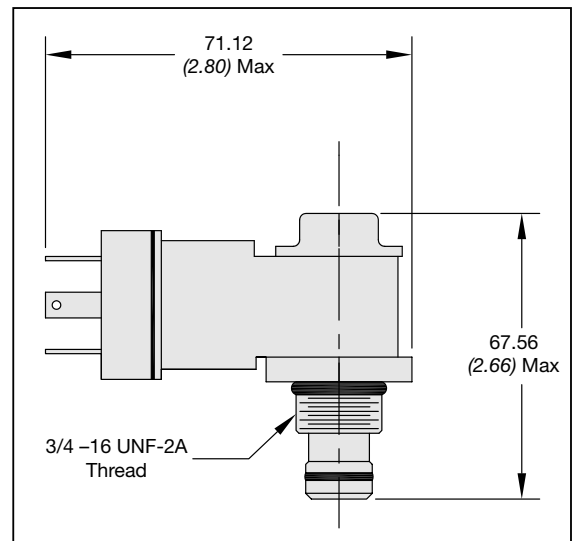
2. Visual / Electrical clogging indicator

Part number HIR-VE is used when an electrical signal is needed to indicate when the element needs changing. It is actuated by the differential pressure across the filter element. The actuating pressure of 2.4 bar (35 psi) allows the dirty element to be changed before the by-pass setting of 3.4 bar (50 psi) is reached.

HIR-VE Rated capacity

4 amps inductive,
7 amps, resistive, 28 vdc.

7 amps, 250 vac.



INSTALLATION:

Lubricate both O-Rings supplied with the indicator.
Install in the cavity & torque to 30-35 ft-lbs (41-47 NM)



Return Line Filter RIF300

Order Code Filter Housing

RIF300 F E10 B B V / X

Filter Size	
RIF300	(STND ELEMENT)
RIF310	(DEEPPLEAT ELEMENT)

Port Size	
F	2-1/2 SAE Code 61 Flange

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

Design Code	
	only for information

Clogging Indicator	
	No Clogging Indicator
V	Visual Indicator
P	Visual-Electrical Indicator

Bypass Valve	
O	No Bypass
B	Bypass 3.4 bar (50 psi)

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

Order Code Filter Housing

SP 300E 10 B / X

Series	SP
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Filter Material			Micron Ratings Available
		ΔP collapse	
300E	Inorganic glass fiber	30 bar (435 psi)	3, 5, 10, 20
310E	Inorganic glass fiber, deep pleat	6.9 bar (100 psi)	1, 3, 5 10

Design Code	
	only for information

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

Micron Rating	
01	1 μm
03	3 μm
05	5 μm
10	10 μm
20	20 μm

Flow Characteristics

The following characteristics are valid for the material based on 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.

