

Technical Data

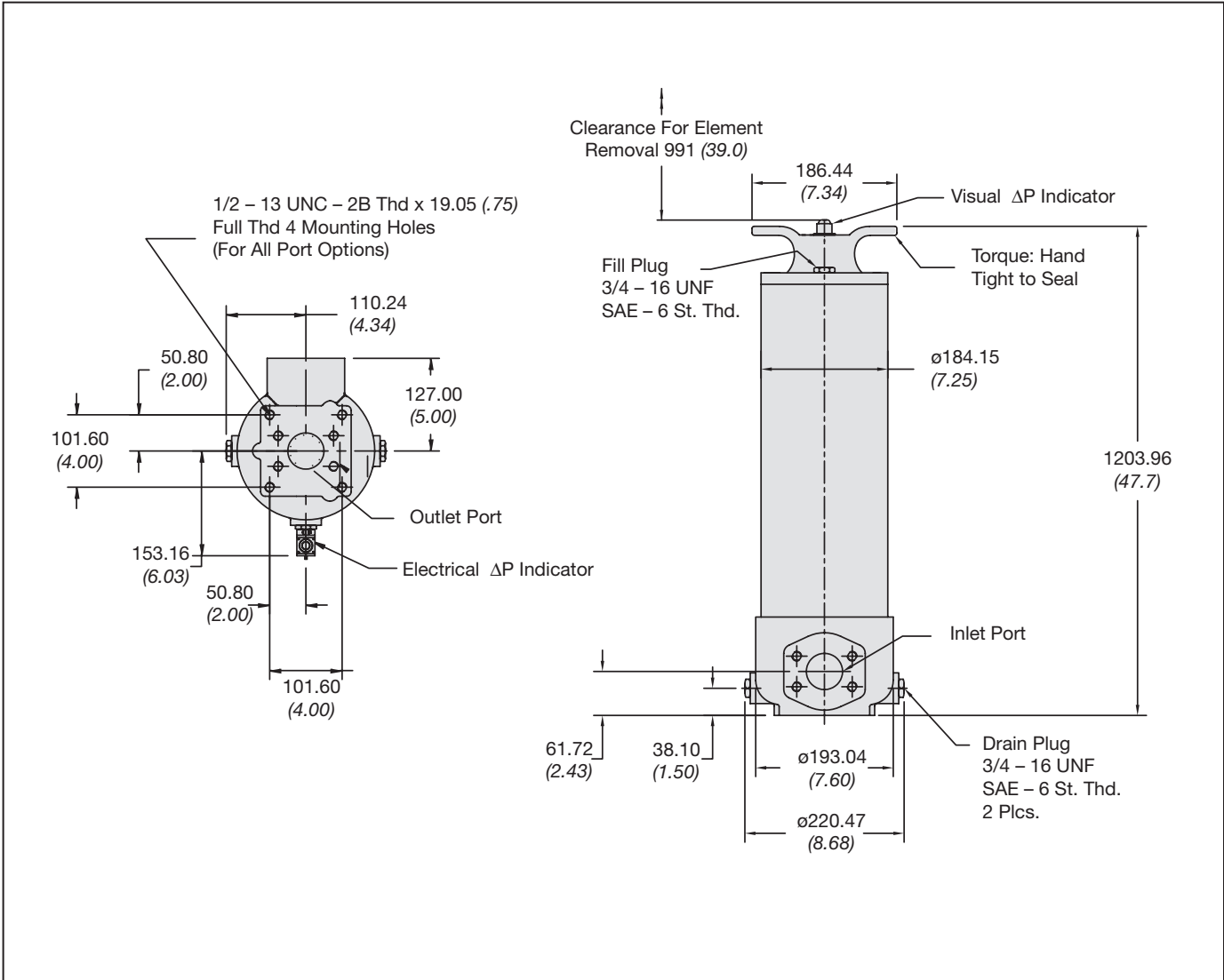
STAUFF RIF300 series return filters are designed for inline hydraulic applications with a maximum working pressure of 34.5 bar (500 PSI). Used together with STAUFF filter elements, a high efficiency of contaminant removal is assured.



Technical Specifications

Construction	In-line assembly	Burst pressure	min 100 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 Media	specifications see page F37 mineral oils, other fluids
Operating Pressure	max 34.5 bar (500 psi)		

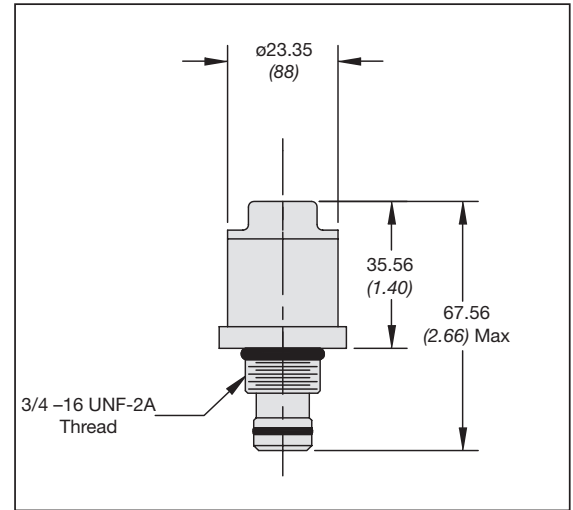
Dimensions



Dimensions in mm (inch)

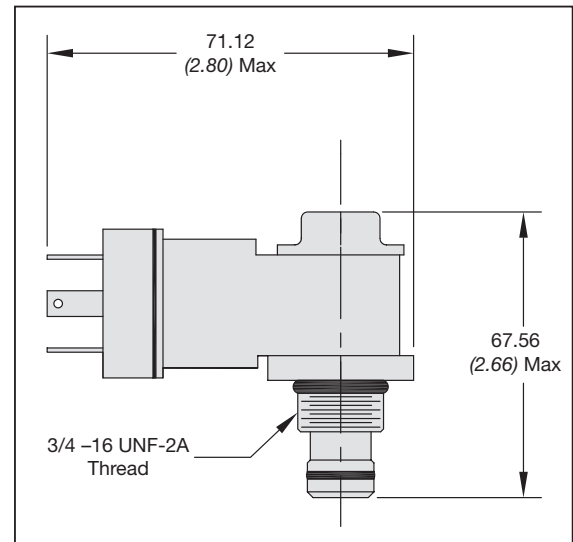
1. Visual Clogging Indicator

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.



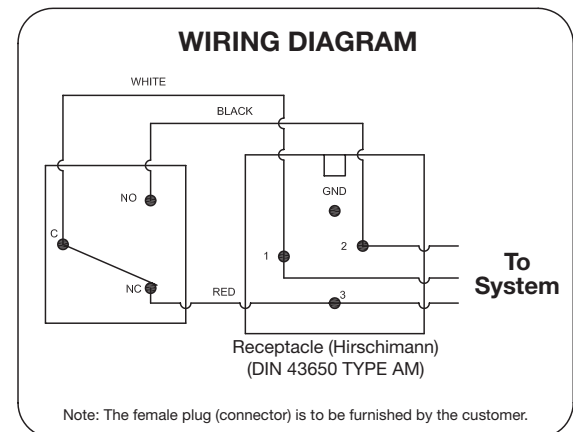
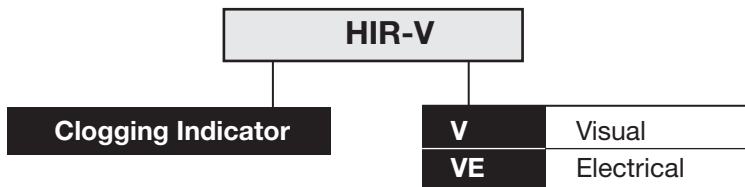
2. Visual / Electrical clogging indicator

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)

Order Code Filter Housing

RIF300
F
E10
B
B
V
/
X

Filter Size
RIF300 (STND ELEMENT)
RIF310 (DEEP PLEAT 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
No Bypass
B Bypass 3.4 bar (50 psi)

Seal Material
NBR (Buna)
V FPM (Viton)

Order Code Filter Housing

SP
300E
10
B
/
X

Series
SP

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

Design Code
only for information

Seal Material
NBR (Buna)
V FPM (Viton)

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

FILTRATION

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.

