

9900 Series High Pressure Filters

Coralon® lube and hydraulic oil filters deliver consistent, high level fluid system protection across all applications, regardless of severity. Coralon filters feature $\text{Beta}_{X(C)} > 1000$ filter efficiency, low pressure drop and long service life.

Features

- Flows to 910 L/min (250 US gpm)
- Pressures to 414 bar (6000 psi)
- Port size: 2"

Notes and Specifications

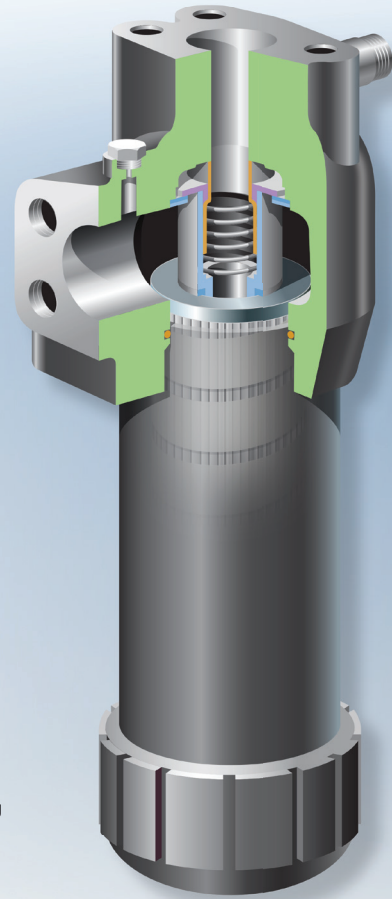
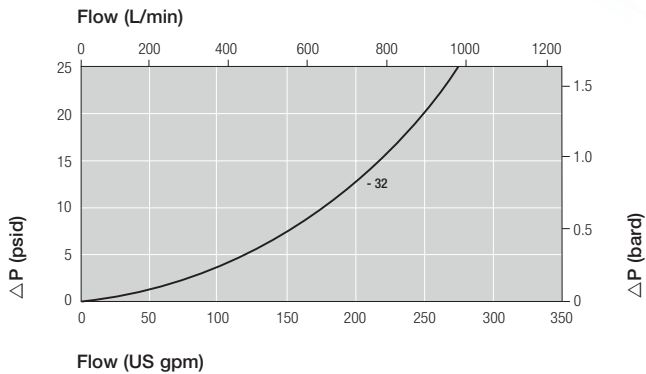
Filter Housing

- **Fatigue Pressure Rating**
207 bar (3000 psi) per NFPA T2.6.1 R2-2001 Cat C/90 (1 million cycles)
- **Typical Burst Pressure:**
1,035 bar (15,000 psi)
- **Filter Element Collapse Pressure:**
10 bard (150 psid)
- **Fluid Compatibility:**
Compatible with all petroleum oils and most water glycols, water-oil emulsions, and synthetic hydraulic and lubricating fluids
- **Temperature Range:**
-29 °C to 120 °C (-20 °F to 250 °F)
60 °C (140 °F) maximum in HWCF or water glycols
- **Bypass Valve Setting:**
3.4 bard (50 psid)
- **Indicator Pressure Setting:**
2.4 bard (35 psid)
- **Housing Materials of Construction:**
Ductile iron head and cover; steel tube

Pressure Drop Information

Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



9900 Series
Filter Housing

Element Pressure Drop

Multiply actual flow rate times factor in table below to determine pressure drop with fluid at 32 cSt (150 SUS), 0.9 S.G. Correct for other fluids by multiplying new viscosity in cSt/32 (SUS/150) x new S.G./0.9.

9400 Series Element DP Factors (psid/US gpm)

Length	CZ	CP	CN	CS	CT
39"	0.06	0.03	0.02	0.02	0.01

Ordering Information

For new installations, select one complete part number from each section below

Section 1 Housing P/N:

Note: Pall filter housings are supplied without filter elements or filter change out warning devices. Never operate the filter housing unless a filter element is fitted and all warning device ports are sealed.

Housing part number designates indicator port is fitted with a plastic shipping plug.

Part Number
HZ9900D32XB1
HZ9900E32XB1
HZ9900F32XB1
HZ9900G32XB1
HZ9900G32XC1

Part Number (Description) Breakdown

HZ	= housing with fluorocarbon seals
9900	= 9900 series housing
D32	= 2" Flange ports SAE J518C code 61 (207 bar/3000 psi max pressure)
E32	= 2" Flange ports SAE J518C code 62 (414 bar/6000 psi max pressure)
F32	= 2" ISO 6162 split flange ports (250 bar/3625 psi max pressure)
G32	= 2" ISO 6162 split flange ports (400 bar/5800 psi max pressure)
X	= 39" nominal length
B	= 3.4 bard (50 psid) bypass valve
C	= 3.4 bard (50 psid) bypass valve with reverse flow valve
1	= 1 indicator warning device port

Section 2 Element

P/N: HC9400F 39

Table 1 Table 2

Table 1: Filter Performance Ratings

Code	$\beta_{x(c)} \geq 1000$ based on ISO 16889	ISO Code Rating per Stress-Resistance Test (80% Δp)*
CZ	3	10/08/03
CP	5	12/09/07
CN	7	14/11/06
CS	12	15/11/06
CT	22	16/14/08

*based on 60 psid terminal pressure drop

Table 2: Seal Options

Code	Description
Z	Fluorocarbon
H	Nitrile

Section 3 Differential Pressure Indicator

P/N: RC Z 090 Z

Table 3 Table 4

Note: If no Differential Pressure Indicator is selected, 'B' type blanking plug (P/N HC9000A104Z) must be ordered separately and fitted to replace the shipping plug.

Note: Z indicates fluorocarbon seals are standard. Other options are available; contact Pall.

Table 3: Indicator Options

Code	Brass Option Indicator
A218M	Electrical switch (SPDT) with Hirschmann connector
A218R	Electrical switch (SPDT) with Hirschmann connector with Red and Green LED indicators
A219D	Visual indicator

Table 4: Differential Pressure Indicator Material

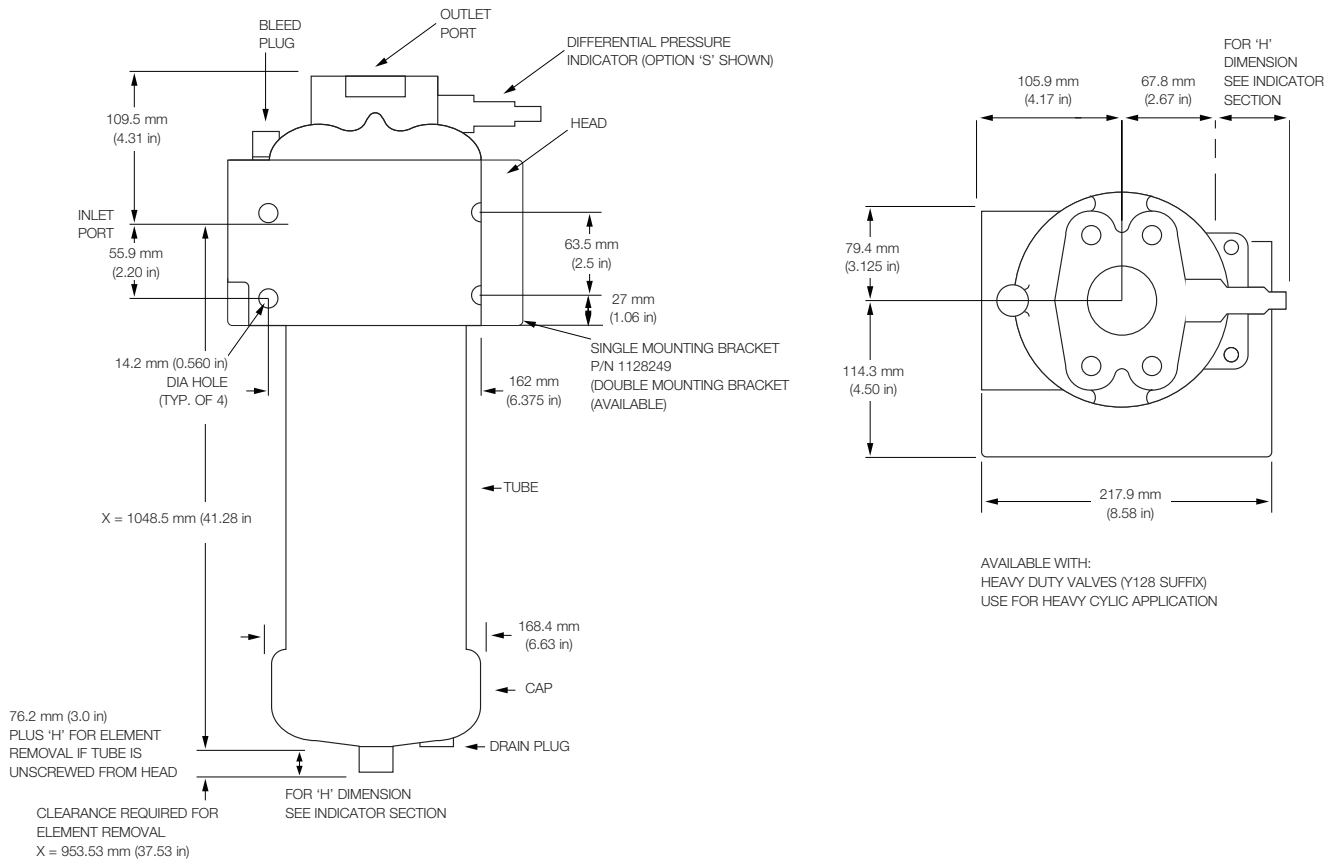
Code	Stainless Steel Option Indicator
778N	Visual filter with thermal lockout
861C	Electrical switch (SPDT) with Hirschmann connector
771B	Electrical switch (SPDT) with 3-pin

Table 4: Differential Pressure Indicator Material

Code	Description
Omit	If Brass Indicator is selected in Table 3
SS	If Stainless Steel Indicator is selected in Table 3 (recommended for high pressure applications with pressure > 200 bar (3000 psi))

Dimensional Drawings

Dimensions in mm (inches)



The equipment has been assessed in accordance with the guidelines laid down in The European Pressure Directive 97/23/EC and has been classified within Sound Engineering Practice S.E.P. Suitable for use with Group 1 and 2 fluids only. Consult Sales for other fluid gas group suitability.



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