

## 8670/8671 Series Duplex 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 190 lpm (50 US gpm)
- Pressures to 80 bar (1200 psi)
- Port size: 1¼"

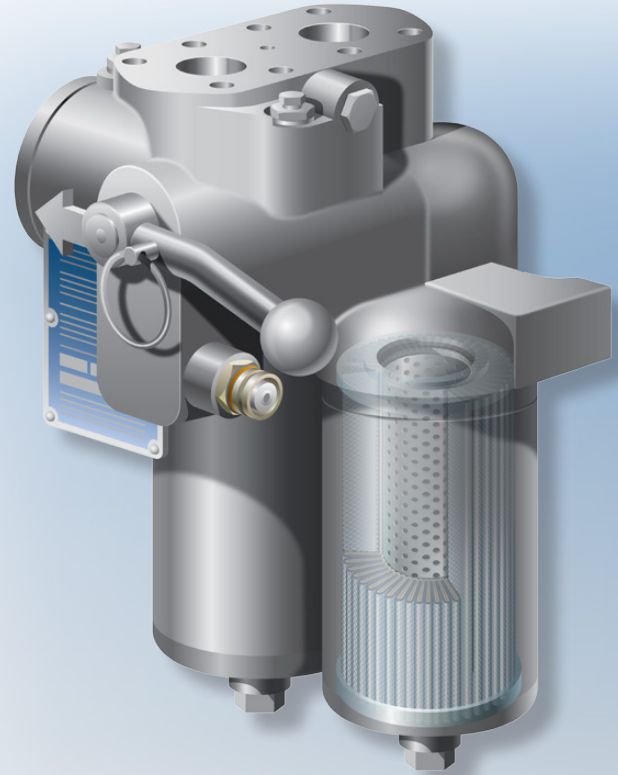
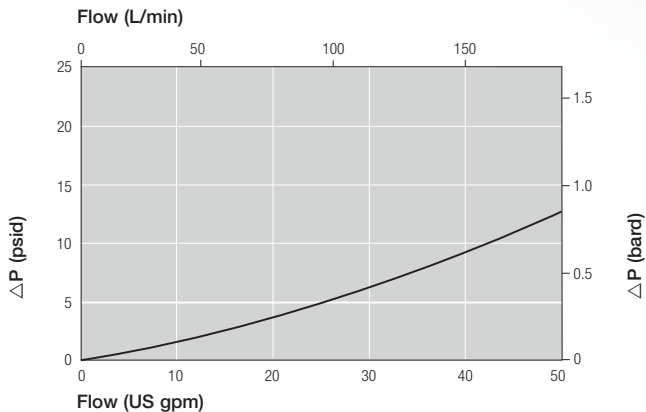
### Notes and Specifications Filter Housing

- **Typical Burst Pressure**  
380 bar (5500 psi)
- **Filter Element Collapse Pressure:**  
20 bard (290 psid) – 8670 series  
207 bard (3000 psid) – 8671 series
- **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) – 8670 series  
Non-bypass – 8671 series
- **Indicator Pressure Setting:**  
2.4 bard (35 psid) – 8670 series  
7 bard (100 psid) – 8671 series
- **Housing Materials of Construction:**  
Iron head; steel bowls

### Pressure Drop Information

#### Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



8670 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.

#### 9600 Series Element DP Factors (psid/gpm)

Length	CZ	CP	CN	CS	CT
8"	0.46	0.20	0.17	0.12	0.09
13"	0.27	0.12	0.10	0.07	0.05
16"	0.20	0.09	0.07	0.05	0.04

#### 9601 Series Element DP Factors (psid/gpm)

Length	CP	CS	CT
8"	0.52	0.30	0.12
13"	0.32	0.18	0.08
16"	0.25	0.14	0.07

## 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		Part Number	
HZ8670A20SB1	HZ8670D20SB1	HZ8671A20SW1	HZ8671D20SW1
HZ8670A20TB1	HZ8670D20TB1	HZ8671A20TW1	HZ8671D20TW1
HZ8670A20UB1	HZ8670D20UB1	HZ8671A20UW1	HZ8671D20UW1
HH8670C20SB1	HZ8670F20SB1	HZ8671C20SW1	HZ8671F20SW1
HH8670C20TB1	HH8670F20TB1	HZ8671C20TW1	HZ8671F20TW1
HH8670C20UB1	HH8670F20UB1	HZ8671C20UW1	HZ8671F20UW1

#### Part Number (Description) Breakdown

HZ = housing with fluorocarbon seals

8670 = 8670 series housing

8671 = 8671 series housing (high collapse element)

A20 = 1 1/4" SAE J514 straight thread port

C20 = 1 1/4" BSP ISO 228 threads

D20 = 1 1/4" Flange ports SAE J518C code 61

F20 = 1 1/4" ISO 6162 split flange

S = 8" nominal length

T = 13" nominal length

U = 16" nominal length

B = 3.4 bard (50 psid)

W = Non-bypass

1 = 1 indicator warning device port

### Section 2 Element P/N:

HC  F  Z  
 Table 1    Table 2    Table 3

**Table 1: Element Options**

Code	Description
9600	20 bard (290 psid) – for 8670 series
9601	207 bard (3000 psid) – for 8671 series

**Table 2: 9600 Series Filter Performance Ratings**

Coralon Filter Grade	$\beta_{x(c)} \geq 1000$ per ISO 16889	ISO Code Rating per Stress-Resistance Test (80% $\Delta p$ )*
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

**Table 2: 9601 Series Filter Performance Ratings**

Code	$\beta_{x(c)} \geq 1000$ per ISO 16889
CP	5
CS	12
CT	15

**Table 3: Length Options**

Code	Description
8	8" nominal length
13	13" nominal length
16	16" nominal length

### Section 3 Differential Pressure Indicator

P/N: RC  Z 097 Z   
 Table 4                      Table 5

**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 4: 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 5: Differential Pressure Indicator Material**

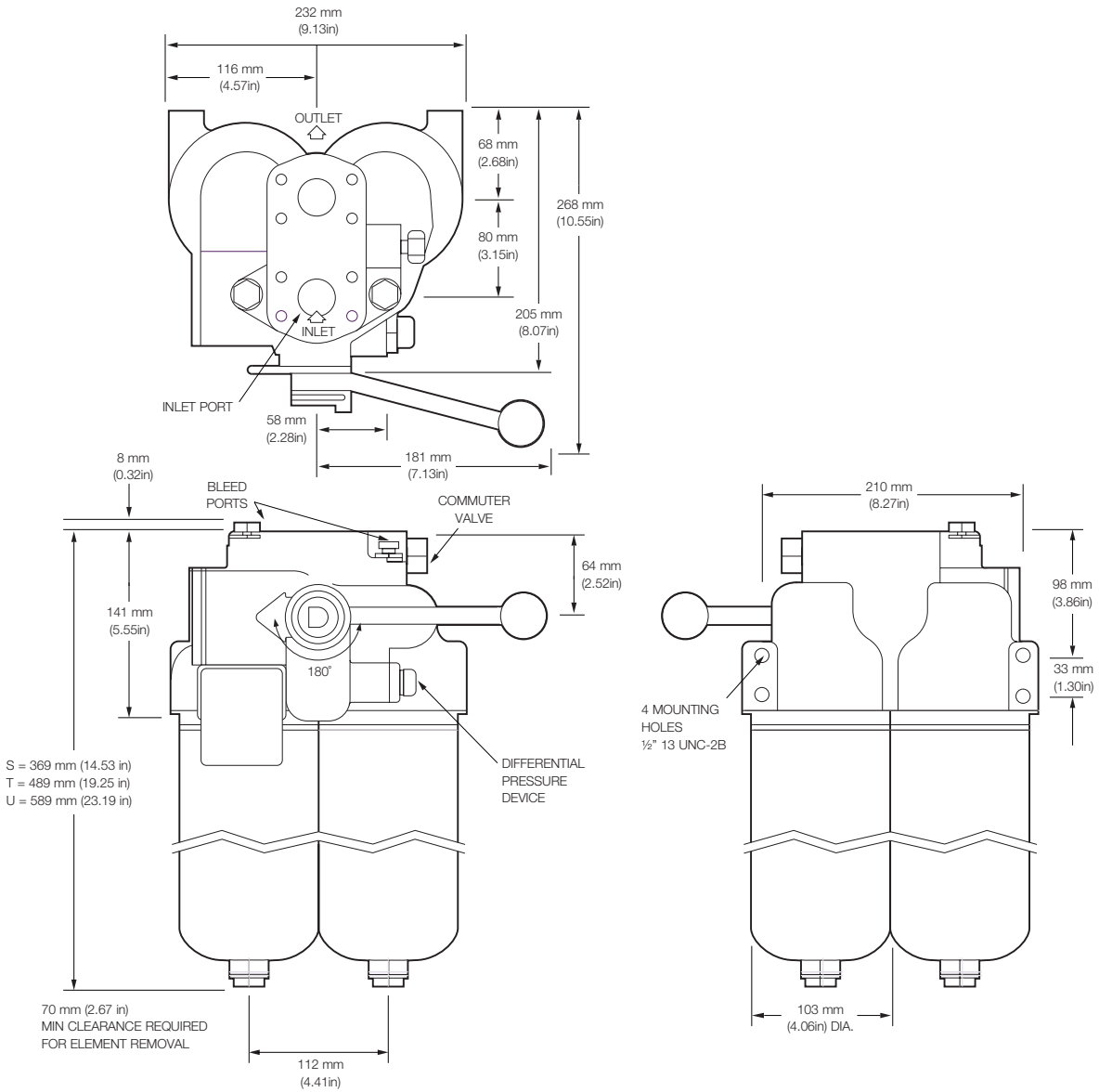
Code	Stainless Steel Option Indicator
778N	Visual filter with thermal lockout
861C	Electrical switch (SPDT) with Hirschmann connector
771B	Electrical switch (SPDT) with 3-pin

**Table 5: Differential Pressure Indicator Material**

Code	Description
Omit	If Brass Indicator is selected in Table 4
SS	If Stainless Steel Indicator is selected in Table 4 (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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