Pall Corporation

4740/4741 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 $Beta_{X(C)}$ >1000 filter efficiency, low pressure drop and long service life.

Features

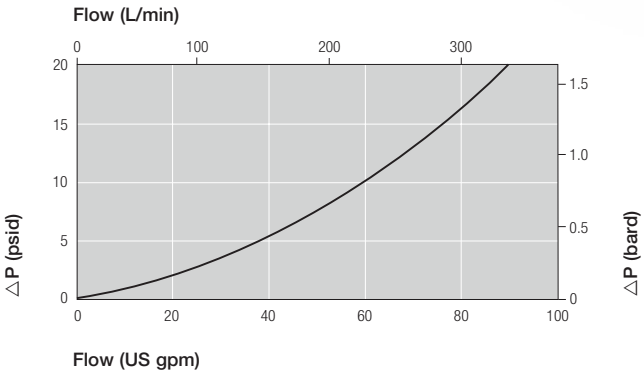
- Flows to 340 lpm (90 US gpm)
- Pressures to 450 bar (6500 psi)
- Port size: 1½”

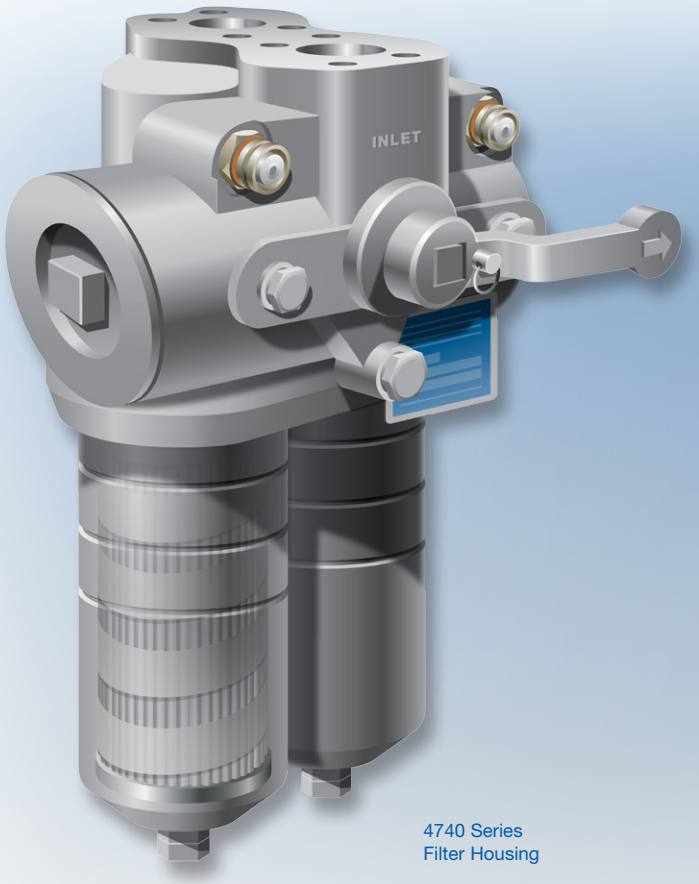
Notes and Specifications
Filter Housing

- Fatigue Pressure Rating
  400 bar (5800 psi) per NFPA T2.6.1 R2-2001 Cat C/90
- Typical Burst Pressure:
  1,600 bar (23,200 psi)
- Filter Element Collapse Pressure:
  20 bard (290 psid) – 4740 series
  207 bard (3000 psid) – 4741 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) - 4740 series
  Non-bypass – 4741 series
- Indicator Pressure Setting:
  2.4 bard (35 psid) – 4740 series
  7 bard (100 psid) – 4741 series
- Housing Materials of Construction:
  Ductile 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.





4740 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	
HZ4740C24SB1	HZ4741C24SW1
HZ4740C24TB1	HZ4741C24TW1
HZ4740C24UB1	HZ4741C24UW1
HZ4740G24SB1	HH4741G24TW1
HZ4740G24TB1	HH4741G24UW1
HZ4740G24UB1	

Part Number (Description) Breakdown
HZ = housing with fluorocarbon seals
4740 = 4740 series housing
4741 = 4741 series housing (high collapse element)
C24 = 1½" BSP ISO 228 threads
G24 = 1½" ISO 6162 split flange ports (400 bar/5800 psi max pressure)
S = 8" nominal length
T = 13" nominal length
U = 16" nominal length
W = Non-bypass
1 = 1 indicator warning device port

Section 2 Element P/N:

HC96 ☐ F ☐ ☐ Z

Table 1 Table 2 Table 3

Table 1: Element Options

Code	Description
00	20 bard (290 psid) – for 4740 series
01	207 bard (3000 psid) – for 4741 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% 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

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

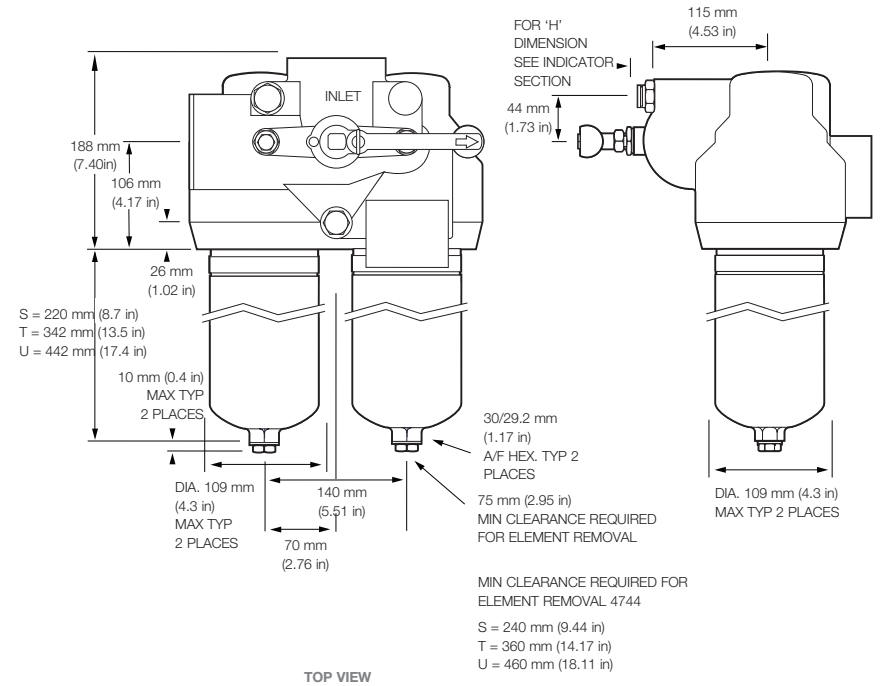
Code	Stainless Steel Option Indicator
778N	Visual filter with thermal lockout
861C	Electrical switch (SPDT) with Hirschmann connector
771B	Electrical switch (SPDT) with 3-pin

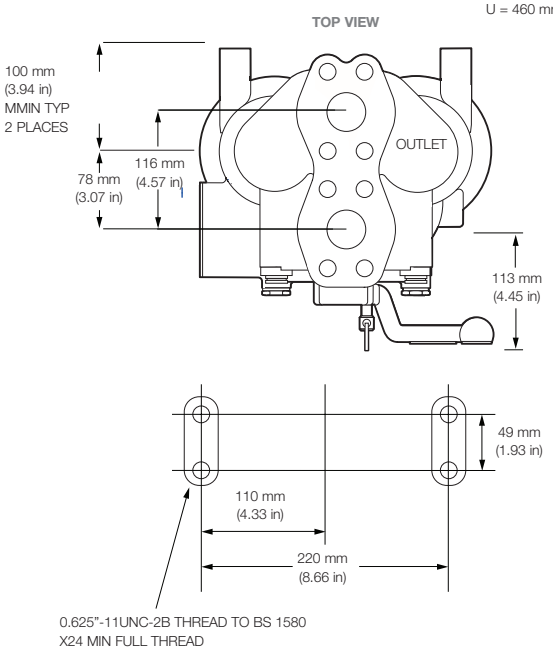
Table 5: Differential Pressure Indicator Material

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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