

9021 Series High Pressure Filters



M&E9021EN

Supralon™ lube & hydraulic oil filters deliver consistent, high level fluid system protection across all applications, regardless of severity. Supralon filters feature $\text{Beta}_{X(C)} > 2000$ filter efficiency, low pressure drop and long service life.

Features

- Flows to 75 lpm (20 US gpm)
- Pressures to 207 bar (3000 psi)
- Port size: 3/4"

Notes and Specifications Filter Housing

Fatigue Pressure Rating: 124 bar (1800 psi) – R length
103 bar (1500 psi) – S length
per NFPA T2.6.1 R2-2001 Cat C/90

Typical Burst Pressure: 1,035 bar (15,000 psi)

Filter Element Collapse Pressure: 207 bar (3000 psid) – 9601 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 107°C (-20°F to 225°F) 60°C (140°F) maximum in HWCF or water glycols

Bypass Valve Setting: Non-bypass

Indicator Pressure Setting: 7 bar (100 psid)

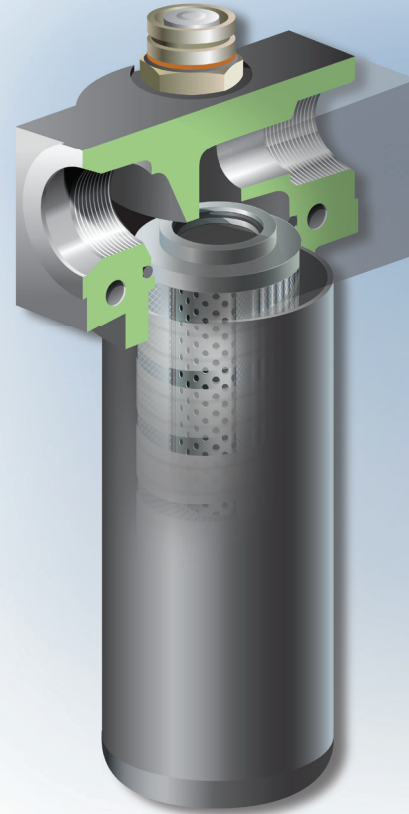
Housing Materials of Construction: Aluminum head and bowl

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.

9601 Series Element DP Factors (psid/gpm)

Length	HP	HT
4"	2.71	0.68
8"	1.35	0.34

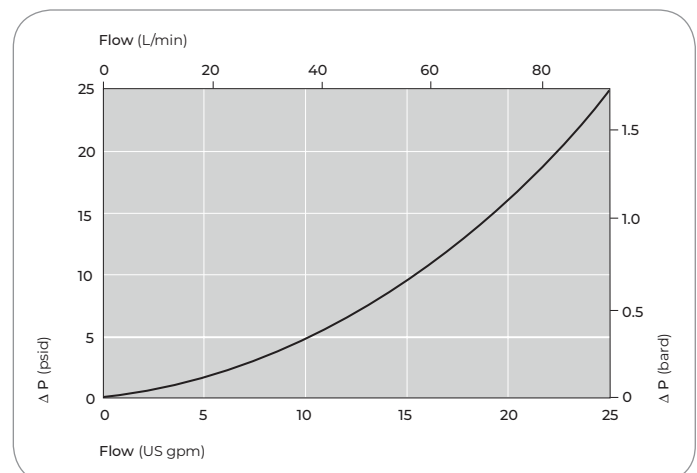


9021 Series Filter Housing

Pressure Drop Information

Housing pressure drop using fluid with 0.9 S.G.

Housing pressure drop is directly proportional to specific gravity.



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

HZ9021A12RW1	HZ9021C12SW1
HZ9021A12SW1	HZ9021K12RW1
HZ9021C12RW1	HZ9021K12SW1

Part Number (Description) Breakdown

HZ	Housing with fluorocarbon seals
9021	9021 series housing
A12	¾" SAE J514 straight thread port
C12	¾" BSP ISO 228 threads
K12	¾" Top Manifold Mount
R	4" nominal length
S	8" nominal length
W	Non-bypass
1	1 indicator warning device port

Section 2 Element P/N:

HC9021 F 1 2 Z

Table 1: Filter Performance Ratings

Code	$\beta_{x(c)} \geq 2000$ based on ISO 16889
HP	5
HT	15

Table 2: Length Options

Code	Description
4	4" nominal length
8	8" nominal length

Section 3

Differential Pressure Indicator P/N:

RC 3 Z 097 Z 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

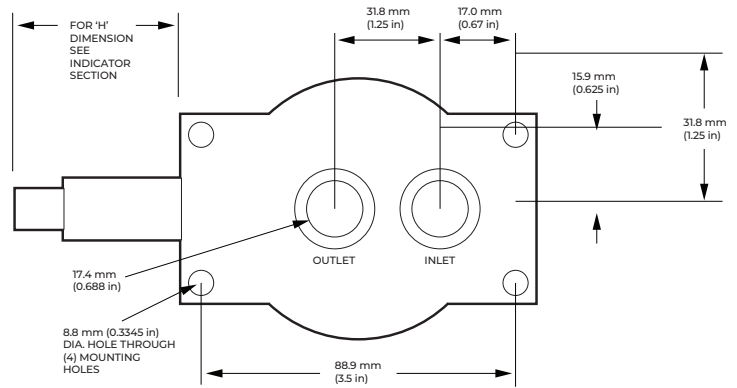
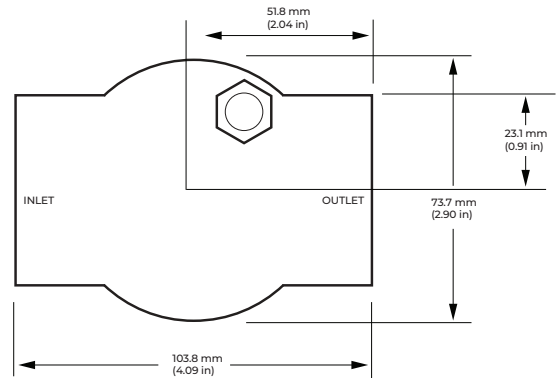
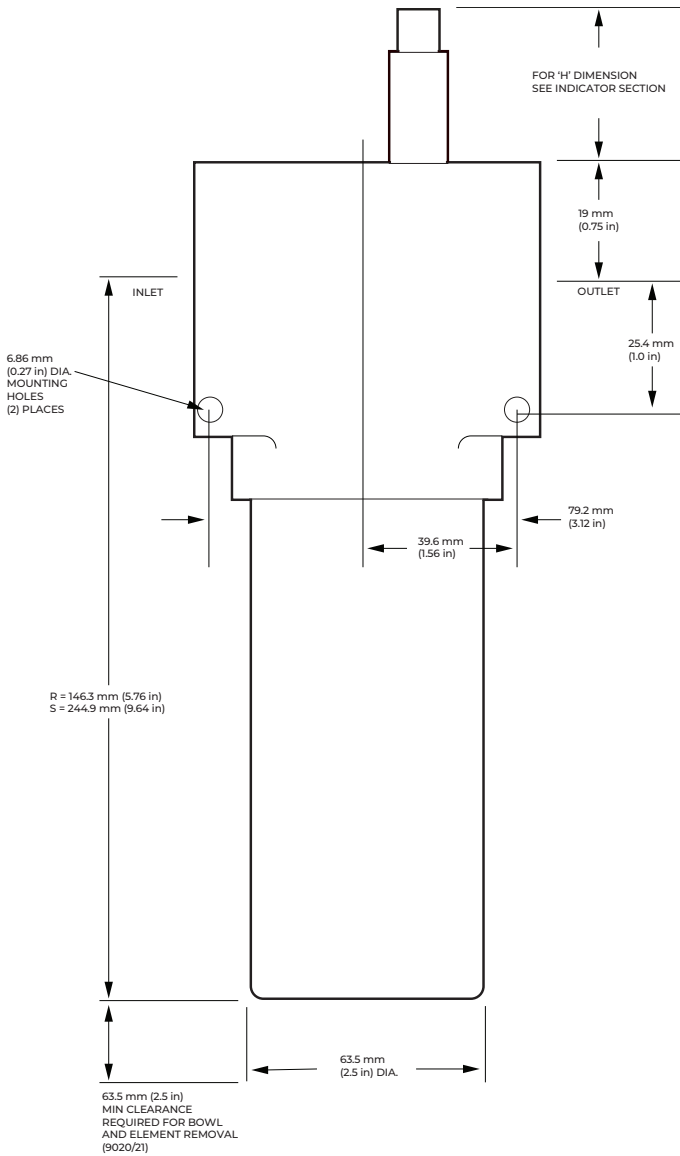
Table 3: Indicator Options (continued)

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



**TOP VIEW
'K' OPTION HEAD**

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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