

# 4754/4751 Series Duplex Filters



M&E4754/51EN

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 340 lpm (90 US gpm)
- Pressures to 450 bar (6500 psi)
- Port size: 1 ½"

## 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:**

10 bard (150 psid) –  
4754 series  
207 bard (3000 psid) –  
4751 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 glycol

**Bypass Valve Setting:**

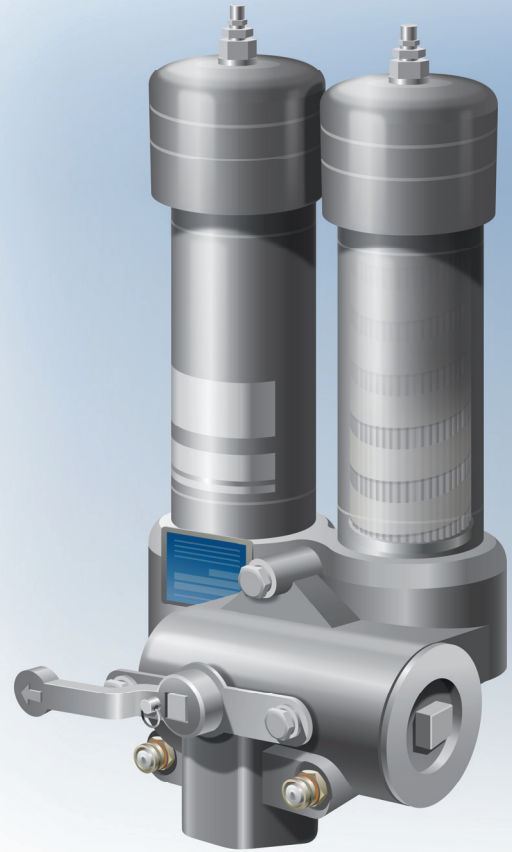
3.4 bard (50 psid) –  
4754 series  
Non-bypass – 4751 series

**Indicator Pressure Setting:**

2.4 bard (35 psid) –  
4740 series  
7 bard (100 psid) – 4751 series

**Housing Materials of Construction:**

Ductile iron head; steel bowl

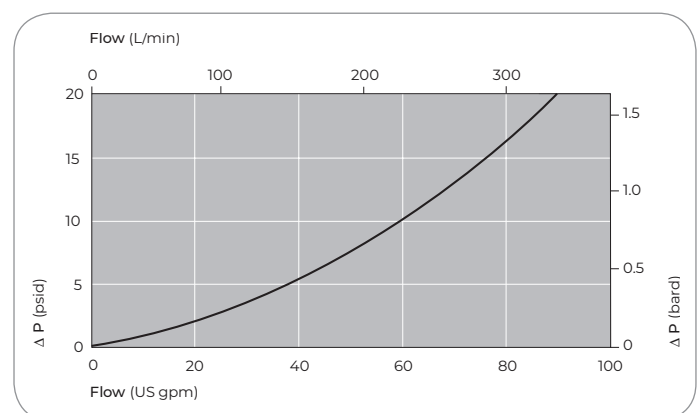


4754 series filter housing

## Pressure Drop Information

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

Housing pressure drop is directly proportional to specific gravity.



## 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.

### 4704 Series Element DP Factors (psid/gpm)

| Length | RZ   | RP   | RN   | RS   | RT   |
|--------|------|------|------|------|------|
| 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 |

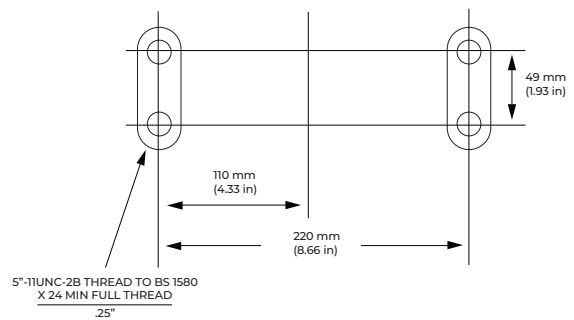
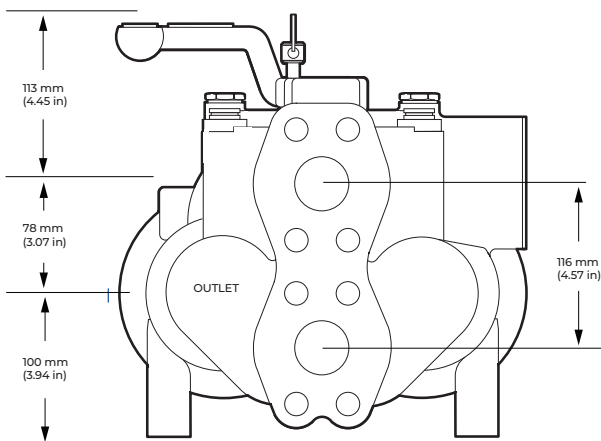
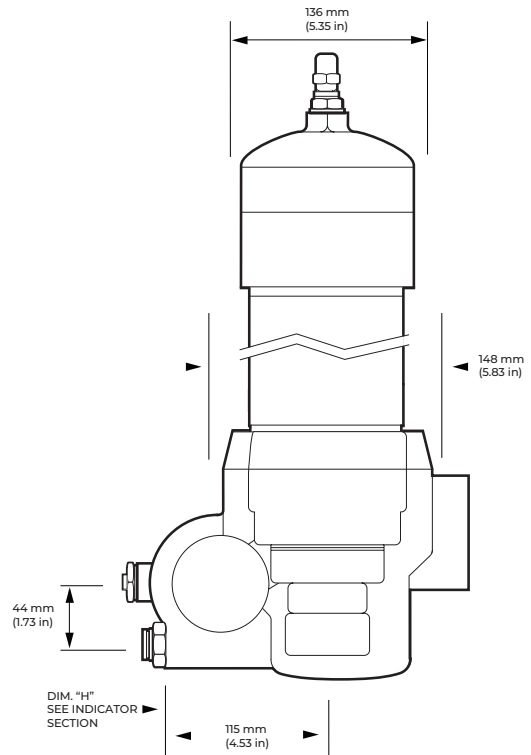
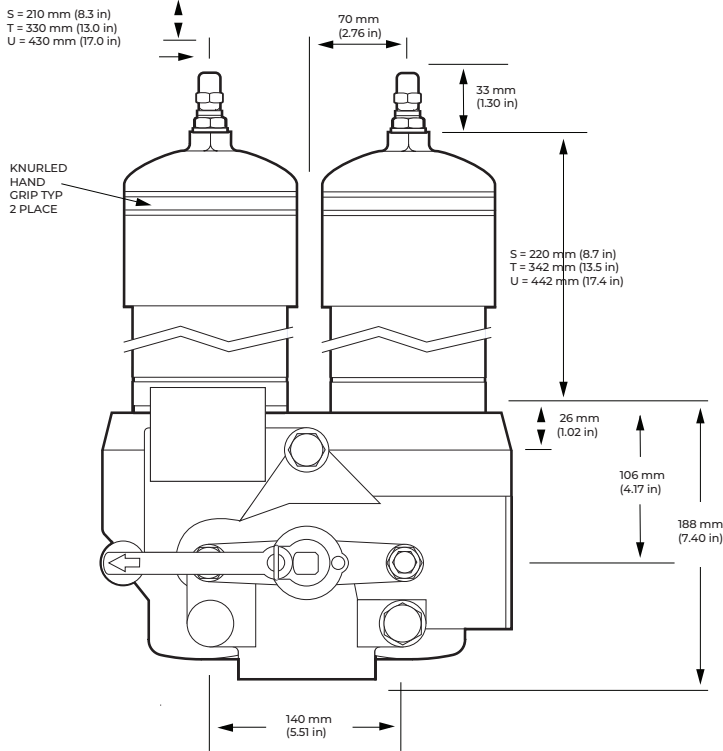
### 9601 Series Element DP Factors (psid/gpm)

| Length | HP   | HS   | HT   |
|--------|------|------|------|
| 8"     | 0.52 | 0.30 | 0.12 |
| 13"    | 0.32 | 0.18 | 0.08 |
| 16"    | 0.25 | 0.14 | 0.07 |

## Dimensional Drawings

MIN CLEARANCE REQUIRED FOR ELEMENT REMOVAL

S = 210 mm (8.3 in)  
T = 330 mm (13.0 in)  
U = 430 mm (17.0 in)



## 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

|              |              |
|--------------|--------------|
| HZ4754A24SB1 | HZ4751A24SW1 |
| HZ4754A24TB1 | HZ4751A24TW1 |
| HZ4754A24UB1 | HZ4751A24UW1 |
| HZ4754E24SB1 | HZ4751E24SW1 |
| HZ4754E24TB1 | HZ4751E24TW1 |
| HZ4754E24UB1 | HZ4751E24UW1 |

#### Part Number (Description) Breakdown

|      |   |
|------|---|
| HZ   | Housing with fluorocarbon seals   |
| 4754 | 4754 series housing   |
| 4751 | 4751 series housing (high collapse element)                                 |
| A24  | 1 1/2" SAE J54 straight thread port   |
| E24  | E24 = 1 1/2" Flange ports SAE J518C code 62 (414 bar/6000 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:

HC 1 F 2 3 Z

Table 1: Element Options

| Code | Description                            |
|------|--|
| 4704 | 10 bard (150 psid) – for 4754 series   |
| 9601 | 207 bard (3000 psid) – for 4751 series |

Table 2: 4704 Series Filter Performance Ratings

| Supralon Filter Grade | $\beta_{x(c)} \geq 2000$ based on ISO 16889 | ISO Code Rating per Stress-Resistance Test (80% $\Delta p$ )* |
|-----------------------|---|---|
| RZ                    | 3   | 06/04/00  |
| RP                    | 5   | 12/08/00  |
| RN                    | 7   | 14/09/04  |
| RS                    | 12  | 18/16/08  |
| RT                    | 22  | 19/17/12  |

\* based on 60 psid terminal pressure drop

Table 2: 9601 Series Filter Performance Ratings

| Code | $\beta_{x(c)} \geq 2000$ based on ISO 16889 |
|------|---|
| HP   | 5   |
| HS   | 12  |
| HT   | 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 4 Z 097 Z 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)) |

*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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