



**4750/51/54 Series Filter Assemblies**

### Description

Featuring Coreless Element Technology

**Flows to 90 gpm (340 L/min)**

**Pressures to 6500 psi (450 bar)**

**Port sizes: 1-1/2"**

### Specifications

### Features

- Low Torque Handle
- Commuter Valve
- Optional Differential Pressure Devices
- Bleed Valves
- O-Ring Seals
- Ultipor® III Element
- Open Center Transfer Valve 3-Way Ball Type

### Maximum Acceptable Working Pressure:

6500 psi (450 bar)

### Fatigue Pressure Rating:

5800 psi (400 bar) with stainless steel indicator

### Typical Burst Pressure:

23,200 psi (1600 bar)

### Temperature Range:

Nitrile seals -45°F to 225°F (-43°C to 107°C)

Fluorocarbon seals -20°F to 250°F (-29°C to 120°C)

140°F (60°C) maximum in HWCF or water-glycol fluids

### Filter Element Collapse Pressure:

9600– 290 psid (20 bar)

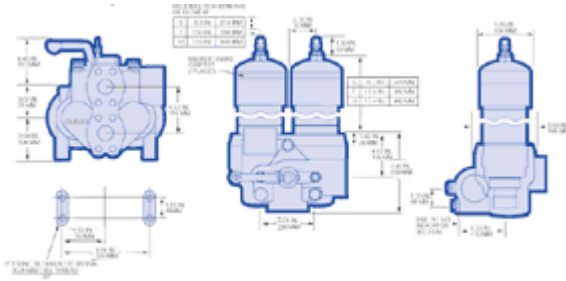
9601– 3000 psid (207 bar)

4704– 150 psid (10 bar)

### Materials:

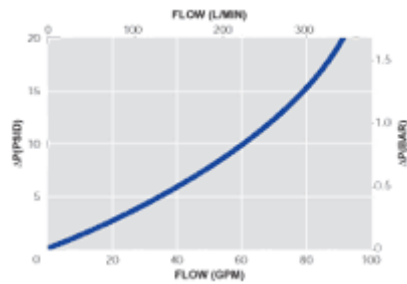
- Ductile iron head
- Forged steel bowls

## Dimensional Drawings

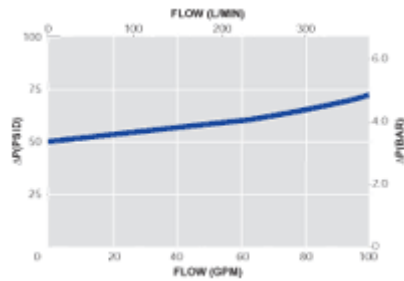


## Performance

**Figure 1. Housing Pressure Drop using fluid with 0.9 S.G.**  
Housing Pressure drop is directly proportional to specific gravity.



**Figure 2. Bypass Valve Pressure Drop using fluid with 0.9 S.G.**  
Bypass valve pressure drops are directly proportional to specific gravity.



## Element Pressure Drop Factor.

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

### 9600/4704 Series Element $\Delta P$ factor (psid/gpm)

Length	KZ	KP	KN	KS	KT
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  $\Delta P$  factor (psid/gpm)**

Length	DP	DT
8"	0.52	0.12
13"	0.32	0.08
16"	0.25	0.07

**Ordering Information**

**Assembly P/N:** H  475   24

Table1      Table2 Table3      Table4 Table5 Table6 Table7

**Element P/N:** HC  F

Table2      Table4 Table5 Table1

**Note:** Choose from the options in the following tables to compile the specific Product Number.

**TABLE 1: SEAL OPTIONS**

Code	Seals
H	Nitrile
Z	Fluorocarbon

**TABLE 2: ELEMENT OPTIONS**

Assembly Code	Element Code	Rating
0	9600	290 psid (standard)
1	9601	3000 psid (high collapse)
4	4704	150 psid (coreless)

**TABLE 3: PORT OPTIONS**

Code	Port Style
A	SAE J514 straight thread
D*	Flange SAE J518c-Code 61
E	Flange SAE J518c-Code 62

\*D ports rated at 3000 psi (207 bar).

**TABLE 4: FILTER ELEMENT OPTIONS**

Code	$\beta_x \geq 200$	$\beta_{x(c)}=1000$
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KZ	<1	2.5
KP	3	5
KN	6	7
KS	12	12
KT	25	22
DP*	3	5
DT*	17	15

\* 4751 only.

**TABLE 5: LENGTH OPTIONS\***

<b>Assembly Code</b>	<b>Element Code**</b>
S	8
T	13
U	16

\* Use code in second column for element part no.

\*\* Nominal length in inches.

**TABLE 6: BYPASS VALVE OPTIONS**

<b>Code</b>	<b>Description</b>
B	50 psid-4750/54 only
W	Non-bypass-4751 only

**TABLE 7: DIFFERENTIAL PRESSURE DEVICE OPTIONS**

<b>Code</b>	<b>Description</b>
P	Visual indicator with thermal lockout
D	Visual indicator with no thermal lockout
L	Electrical switch (SPDT) with 6" leads
T	Electrical switch with DIN connector
M	'T' type switch with matching wiring cap
S	Electrical switch with MS receptacle
V	Combined visual/electrical with DIN connector
B	Plug in place of indicator
2	'P' and 'L'

**Note: Above indicators fatigue rated at 3000 psi. For cyclic pressure above 3000 psi, stainless steel indicators are necessary. Designate with an 'H' in model code (e.g., PH, DH, etc.).**

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### Contact Information

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