



4740/41/44 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

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

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

Dry Weights:

S length– 114 lbs. (52 kg)

T length– 120 lbs. (55 kg)

U length– 131 lbs. (60 kg)

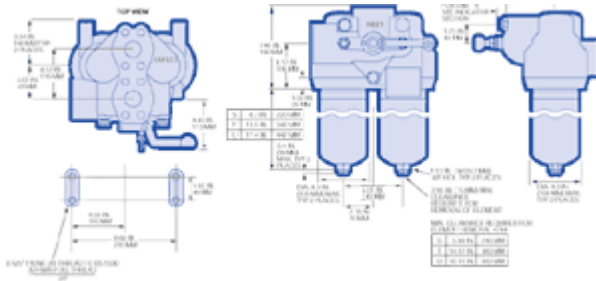
Filter Element Collapse Pressure:

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.

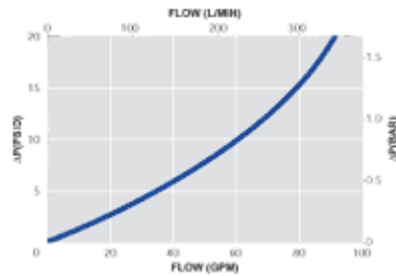
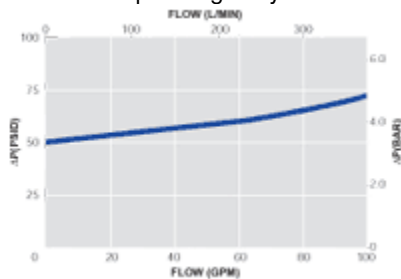


Figure 2. Bypass Valve Pressure Drop using fluid with 0.9 S.G.

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 ΔP 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 ΔP 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 474 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	$\beta_x \geq 200$	$\beta_{x(c)}=1000$
KZ	<1	2.5
KP	3	5
KN	6	7
KS	12	12
KT	25	22
DP*	3	5
DT*	17	15

* 4741 only.

TABLE 5: LENGTH OPTIONS*

Assembly Code	Element Code**
S	8
T	13
U	16

* Use code in second column for element part no.

** Nominal length in inches.

TABLE 6: BYPASS VALVE OPTIONS

Code	Description
B	50 psid-4740/44 only
W	Non-bypass-4741 only

TABLE 7: DIFFERENTIAL PRESSURE DEVICE OPTIONS

Code	Description
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'
- 3 'P' and 'S'

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.).

Contact Information

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