

Featuring Coreless Element Technology

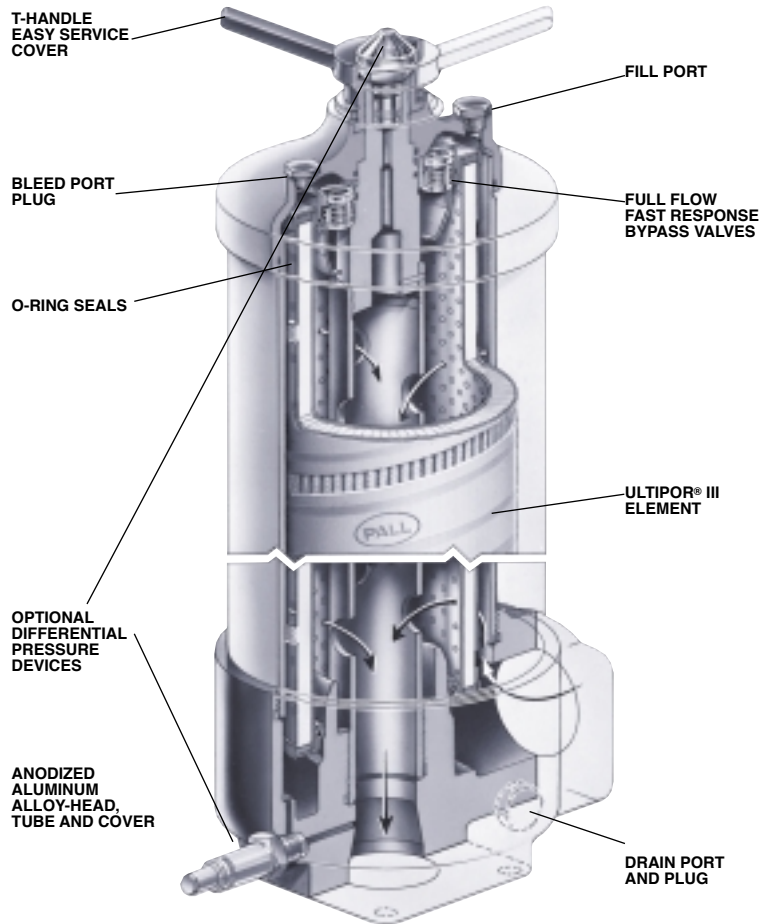
8300/04/10/14 Series Filter Assemblies

Flows to 300 gpm (1135 L/min)
Pressures to 400 psi (28 bar)
Port sizes 1½", 2 and 2½"

With Dual Manifold:
Flows to 600 gpm (2270 L/min)
Port Size 3"

Notes and Specifications

Maximum Acceptable Working Pressure:	400 psi (28 bar)
Fatigue Pressure Rating: (NFPA/T2.6.1-1974 category 2/90)	330 psi (23 bar)
Typical Burst Pressure:	2100 psi (145 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:	U length – 45 lbs. (20.5 kg) X length – 92 lbs. (42 kg)
Filter Element Collapse Pressure:	8300/04/14 – 150 psid (10 bar) 8310 – 100 psid (7 bar)
Caution:	120 psi (8 bar) maximum for 8300/04/14 Series. 80 psi (5.5 bar) maximum for 8310 Series non-bypass valve options (prevents possible filter element collapse).



Pressure Drop Information

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

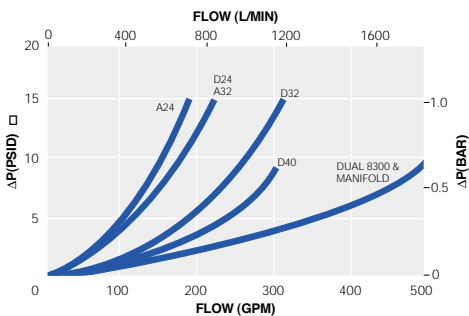
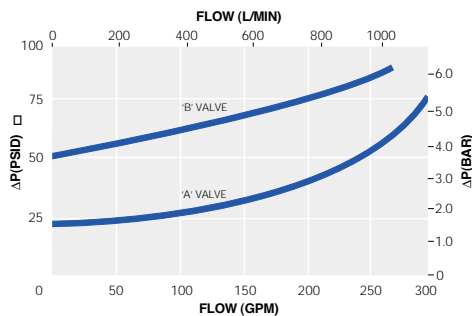


Figure 2. Bypass Valve Pressure Drop using fluid with 0.9 S.G. Bypass valve pressure drops are directly proportional to specific gravity.



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.

8300 Series Element ΔP factor (psid/gpm)

Length	KZ	KP	KN	KS	KT
16"	0.078	0.034	0.028	0.021	0.014
39"	0.039	0.015	0.012	0.009	0.006

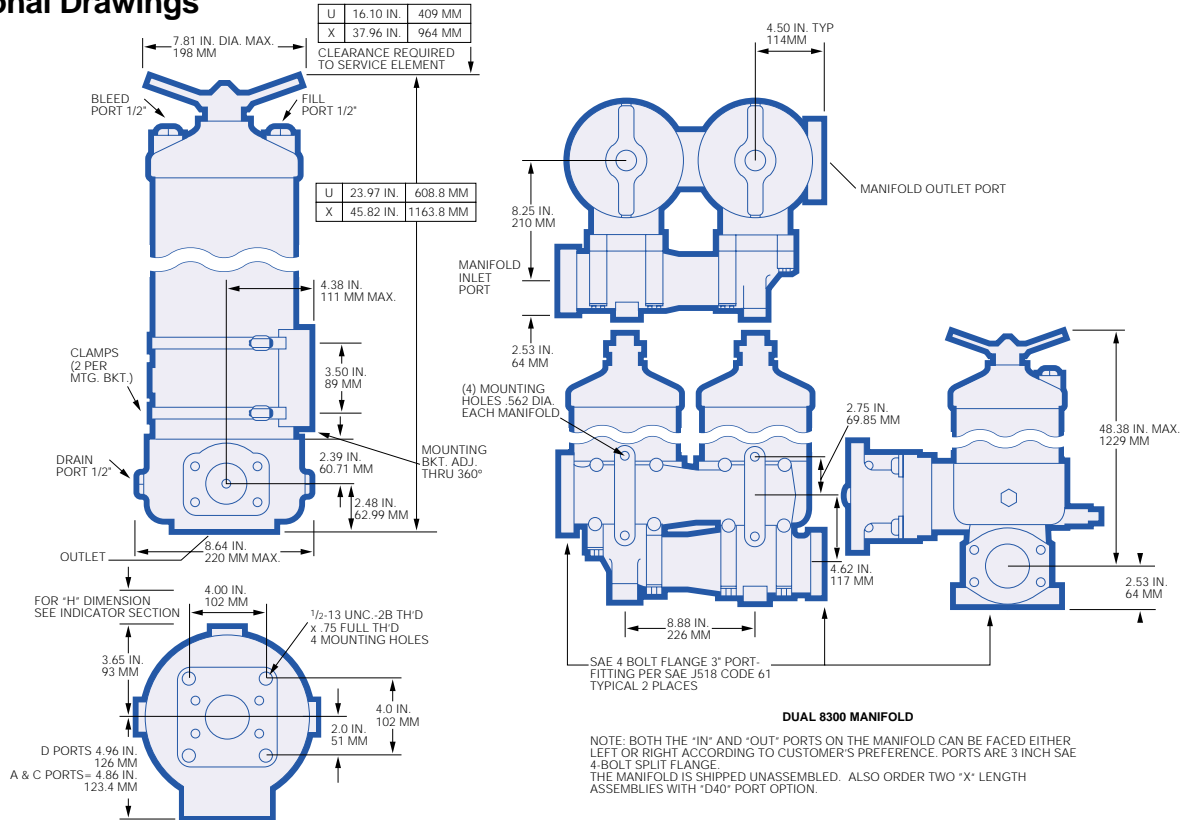
8304 Series Element ΔP factor (psid/gpm)

Length	KZ	KP	KN	KS	KT
16"	0.101	0.049	0.041	0.031	0.022
39"	0.038	0.018	0.015	0.012	0.008

8310/14 Series Element ΔP factor (psid/gpm)

Length	KZ	KP	KN	KS	KT
16"	0.089	0.047	0.040	0.031	0.022
39"	0.034	0.018	0.015	0.012	0.008

Dimensional Drawings



8300/04/10/14 SERIES
400 PSI/600 GPM

Ordering Information

Assembly P/N: **H** **83**

TABLE 1 TABLE 2 TABLE 3 TABLE 4 TABLE 5 TABLE 6 TABLE 7 TABLE 8 TABLE 9

Element P/N: **HC 83** **F**

TABLE 2 TABLE 5 TABLE 6 TABLE 1

Table 1. Seal Options

Code	Seals
H	Nitrile
Z	Fluorocarbon

Table 2. Element Options

Code	Option
00	Standard capacity
04	Coreless, standard capacity
10	High capacity
14	Coreless, high capacity

Table 3. Port Style Options

Code	Port Style
A	SAE J514 straight thread
D	Flange SAE J518c-code 61

Table 4. Port Size Options

Code	Size	Style Availability
24	1 1/2"	A,D
32	2"	A,D
40	2 1/2"	D

Table 5. Filter Element Options

Code	$\beta_{x \geq 200}$	$\beta_{x(e)=1000}$
KZ	<1	2.5
KP	3	5
KN	6	7
KS	12	12
KT	25	22

Table 6. Length Options*

Assembly Code	Element Code**
U	16
X	39

* Use code in second column for element part no.
 ** Nominal length in inches

Table 7. Bypass Valve Options

Code	Description
A	25 psid
B	50 psid
Y	Non bypass with 16 psid indicator
N	Non bypass with 35 psid indicator

Table 8. 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'

Table 9. Mounting Bracket Options

Code	Description
Omit	No bracket
1	1 bracket
2	2 brackets
3	3 brackets

DUAL MANIFOLD P/N: **H** **8300-SP2A3**
 TABLE 1

MOUNTING BRACKET P/N: **1129210**

Electrical indicators in base only. See page 140.