



310/315 Series Filter Assemblies

Description

Featuring Coreless Element Technology

Flows to 1000 gpm (3785 lpm), 310 Series;

1500 gpm (5678 lpm), 315 Series

Pressures to 675 psig (46.5 bar)

ANSI Flange Connections

Specifications

Maximum Acceptable Working Pressure:

Class 150: 260 psig (18 bar);

Class 300: 675 psig (46.5 bar) at 200°F (93°C)

Temperature Range:

-20°F to 200°F (-29°C to 93°C);

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

Filter Element Collapse Pressure:

150 psid (10 bar)

Hydrostatic Test Pressure:

Class 150: 390 psig (26.9 bar)

Class 300: 1013 psig (69.8 bar)

Materials of Construction:

Carbon steel option: carbon steel housing, nozzles, and flanges; carbon steel transfer valve body with stainless steel 304L valve ball and stem on "D" duplex model

Finish:

Interior finish: coated with rust preventative

Exterior finish: one coat of zinc chromate

Permanent core assemblies: tin plated

Housings are designed, and built in accordance with ASME BPVC Section VIII Div. 1, including latest addenda.

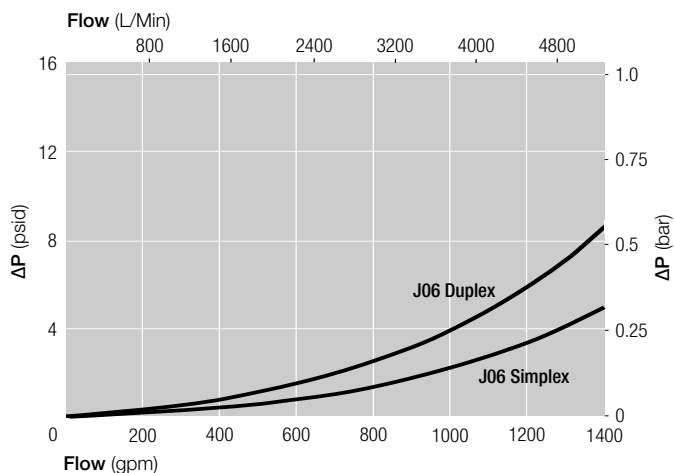


310/315 series filter assemblies

Figure 1. Housing Pressure Drop using fluid with 0.9 S.G.

Housing Pressure drop is directly proportional to specific gravity.

310 / 315 Series Housings



8904 Series 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
- Pressure drop of filter assembly = Housing pressure drop + filter element pressure drop

*8904 Series Element ΔP factor (psid/gpm)

Series	KZ (2.5 μ m)	KP (5 μ m)	KN (7 μ m)	KS (12 μ m)	KT (22 μ m)	KR (40 μ m)	KX (75 μ m)
310	0.0062	0.0029	0.0024	0.0018	0.0013	0.0010	0.0007
315	0.0041	0.0019	0.0016	0.0012	0.0009	0.0007	0.0005

*Factors listed above have been adjusted to represent the total number of elements per housing

8904 Series Element Pressure Drop Factor (psid/gpm)

Calculated clean element pressure drop should not exceed the values listed in the table for the selected bypass valve option

Bypass Option	'E' (5 psid)	'F' (12 psid)	'D' (18 psid)	'A' (25 psid)	'B' (50 psid)	'W' (non-bypass)
Max. Clean ΔP	1 psid	2 psid	3 psid	4 psid	8 psid	15% of max ΔP

Ordering Information

Assembly P/N:

H ☐ ☐ ☐ ☐ 06 ☐ X ☐ ☐ ☐

Table 1 Table 2 Table 3 Table 4 Table 5 Table 6 Table 7 Table 8

Table 1: Seal Options

Code	Seals
H	Buna
Z	Fluorocarbon

Table 2: Housing Options

Code	Port
310	10 elements
315	15 elements

Table 3: Housing Style Options

Code	Style
S	Simplex
D	Duplex

Table 4: Flange Pressure Rating

Code	Pressure Rating
J	150# Class
N	300# Class

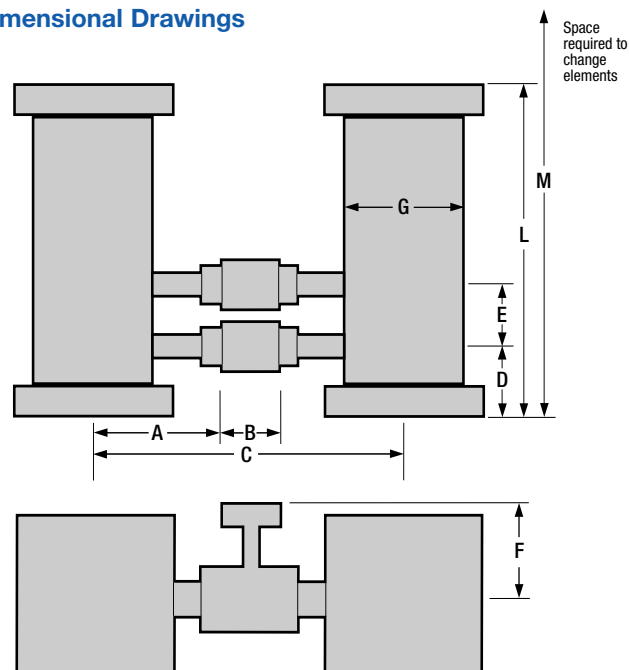
Table 5: Filter Element Options

Code	Beta $x(c) \geq 1000$
KZ	2.5
KP	5
KN	7
KS	12
KT	22
KR	40
KX	75

Table 6: Value Options

Code	Cracking Pressure (psid)
A	25
B	50
D	18
E	5
F	12
W	Non-bypass

Dimensional Drawings



Dimensions (310 Series)

Port Size	A Simplex Only	B Duplex Only	C Duplex Only	D	E	F Duplex Only	G	L	M
J06	16	11.81	44	8	23.62	8.46	18	81	123

Dimensions (315 Series)

Port Size	A Simplex Only	B Duplex Only	C Duplex Only	D	E	F Duplex Only	G	L	M
J06	18	11.81	48	8	23.62	8.46	24	81	123

Table 7: Differential Pressure Device Options*

Code	Description
O	No Indicator
B	Bleed plug and seal in place of indicator
V	Electrical / visual gauge

Table 8: Housing Features

Code	Description
YQ01	Swing bolt closure, hydraulic jack for cover lift
YN70	Contact factory




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