IG Series High Purity Filter Housings

Features:

Smooth Flow
IR/Butt Fusion
Industrial Waste
High Flow Rates
Individual Filter Stop
Multi – Round Housings
Uniform Flow Distribution
Materials All Polypropylene
On-Stream life 30% increase
Vent, Drain & Gauge included
Permits Filter Cartridge Backwash



Innovative Solution

The Multi-Round Industrial Grade Housings are designed for flow rates up to 300 GPM (1,150 Liters per minute) and 125 psi, while handling the most stringent applications in an efficient manner. All facets of the design and manufacturing process of this product have been dedicated to interfacing with the heart of the systems the filter elements. Our design offers a unique sealing and alignment for the filter cartridges while spacing the cartridges to provide uniform flow, all necessary features to filter down to 0.01 micron absolute. The construction materials are PVDF, CPVC, HDPE and Polypropylene. The process, drain, and vent valve connections have been constructed utilizing the latest technology in welding (IR/Butt Fusion).

A retainer assembly is supplied which provides each cartridge with a stop that ensures the "O" Rings stay engaged even under back pressure, see Photo 1. This enables the user to interchange filter manufacturer's cartridges with complete confidence that they will seal properly.

This product is ideal when it's necessary to backwash the filter cartridges.

The filter chamber has been designed to provide a smooth flow path from the inlet to the outlet. This ensures that the flow velocity of the fluid is maximized while traveling through the chamber, thus keeping particles in suspension until they are filtered out. A sophisticated flow distribution model has been utilized ensuring the process fluid flows uniformly along the length of the filter elements. This feature increases the on-stream life of the filter elements as much as 30%.

Applications:

Bleach

DI Water

Rinse Tanks

Plating Baths

IPA Pre-Wetting

Wet Processing

Solar Processing

Bulk Chemical Filtration

Electro less Nickel Plating



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IG Series High Purity Filter Housing

1.0" Adjustment

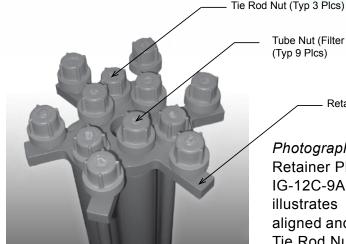


Photo 1- Retainer Plate Assembly (IG-12C-9A)

Tube Nut (Filter Stop) (Typ 9 Plcs)

Retainer Plate

Photograph 1 is an end view of the Retainer Plate Assembly for an IG-12C-9A tube bundle. Photo 1 illustrates how each filter can be aligned and locked in place using the Tie Rod Nut and the Tube Nut (Filter Stop) on the retainer plate. This fea-

ture allows the operator to easily secure each filter quickly and safely.

Photo 2 demonstrates 1.0" length adjustment available with each filter cartridge. Tie Rod

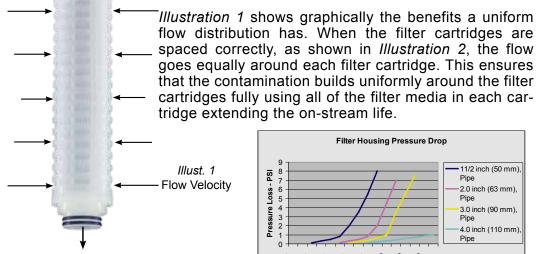
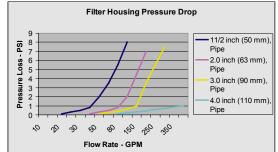


Chart 1 Filter Housing Pressure Drop



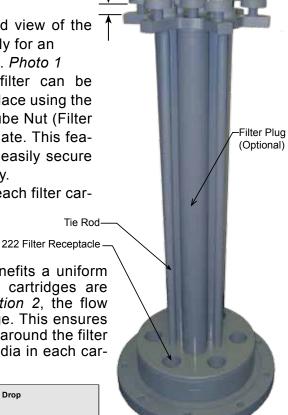


Photo 2-Tube Bundle Hardware (IG-12C-9A)

Illust. 2

IG SERIES SPECIFICATIONS TABLE

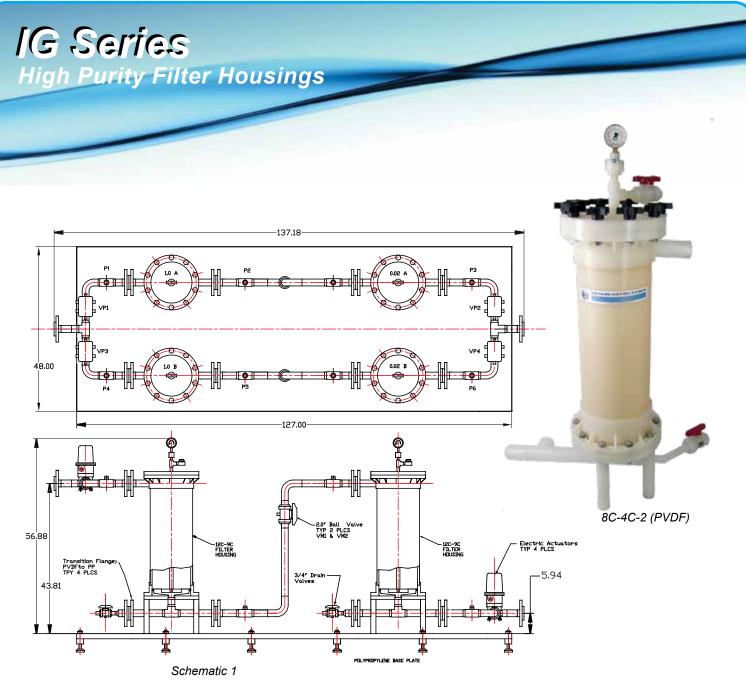
IO DENIES OF ESTITIONS TABLE								
Chamber Model	GPH Based on 70°F Water			Shipping Wt. lbs.				
8C-4-1	750 - 1200	4 - 10"	1.5"	34				
8C-4-2	1200 - 2400	4 - 20"	1.5"	46				
8C-4-3	2400 - 3600	4 - 30"	1.5"	58				
8C-4-4	3600 - 4800	4 - 40"	2.0"	70				
12C-9-1	1300 - 2700	9 - 10"	1.5"	72				
12C-9-2	2700 - 5400	9 - 20"	2.0"	92				
12C-9-3	5000 - 6500	9 - 30"	3.0"	112				
12C-9-4	6200 - 8640	9 - 40"	3.0"	132				
18C-19-2	3400 - 5700	19 - 10"	3.0"	200				
18C-19-3	6800 - 11,400	19 - 20"	3.0"	235				
18C-19-4	10,250 - 17,100	19 - 30"	4.0"	270				

The inlet and outlet connections for 8C, 12C and 18C filter chambers come standard with ANSI flanges. To determine pressure drop, first obtain the correct pipe size from

End View of Filter Bundle the IG Series Specifications Table and the *Model No*. Then use that information to get the

pressure drop from Chart 1.

Other factory flange arrangements, process control valves, control panel and skid mounted arrangements are available upon request.



Automatic Pre & Final Duplex Filtration System

All series IG Filter Housings are specifically designed to accommodate cartridge tolerances of +/-0.75 in length to ensure proper interface with all existing filter manufacturer's cartridges available in the market. Although the major manufacturers of cartridges offer many styles and codes, at least one style will fit the IG chamber, Consult factory for verification. The process, drain and vent valve connections have been constructed utilizing the latest technology in welding (IR/Butt Fusion).

IFP's staff engineers are leaders in their respective fields, each having published in industry recognized magazines, presented technical papers and hold numerous patents. Our engineering staff is friendly and willing to solve problems that others have abandoned. We offer complete filtration systems, an example of an advanced system would have multiple IG Series Filter Vessels arranged in parallel with pre and final filtration, ancillary piping, automated valves, computerized controlls with variable functions of time and pressure, see Schematic 1.

Contact us for additional information regarding advance capabilities and features.

IG Series High Purity Filter Housings

Specifications:

Housing Type: Multi -Round Material: CPVC, PVDF, HDPE or Polypropylene

Max Temperature: 260°F (125°C), PVDF Vent Valve: ½" Ball Valve, Trunnion

Max Temperature: 180°F (82°C), CPVC Pressure Gauge: Oil Filled with Gauge Guard

Max Temperature: 130°F (55°C), Polypropylene **Max Pressure (PSI):** 125 PSI (8.8Kg/Cm2) @ 70°F, All Materials

Max Temperature: 150°F (65°C), HDPE Seals: Viton Standard, EPR, Buna-N or Silicon Available

Flanges: ANSI Standard, JIS or DIN Available Drain Valve: 3/4" or 1.0" Ball Valve, Trunnion

IG SERIES DIMENSIONS

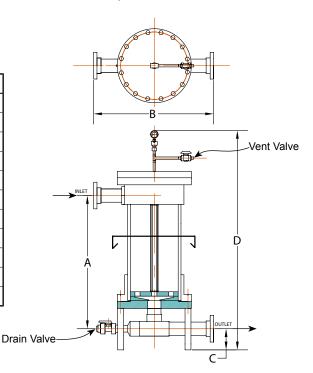
Vent Valve: 1/2" Ball Valve, Trunnion

Cartridge Type: 222/226 "O" Ring or DOE

Max Cartridge Dia. (in): 2.75 (69.9 mm)

15 521(125 211121(5)5)(5)									
PART#	"A"	"B"	"C"	"D"					
8C-4-1	25"	25"		55-1/4"					
8C-4-2	35"	25"		65-1/4"					
8C-4-3	45"	25"		75-1/4"					
8C-4-4	55"	25"		85-1/4"					
12C-9-1	25"	30"		56-1/4"					
12C-9-2	35"	30"	7.14"	66-1/4"					
12C-9-3	45"	30"		76-1/4"					
12C-9-4	55"	30"		86-1/4"					
18C-19-2	35"	40"		66-1/4"					
18C-19-3	45"	40"		76-1/4"					
18C-19-4	55"	40"		86-1/4"					

All dimensions are in inches, 1.0 inch = 25.4mm



NOMENCLATURE

PART NUMBER EXAMPLE: IG-8C-4A-2-1-V

		Chamber Series	No. of Cartridges		Cartridge Length	Cartridge Fitting	Seal
IG	4 = 4" Dia	C - Filter	1 = 1	A=CPVC	1 = 10"	1 = 222	V = Viton
	8 = 8" Dia		4 = 4	B=Polypropylene	2 = 20"	2 = 226	B = Buna N
	12=12" Dia		9 = 9	C=PVDF	3 = 30"	3 = DOE	E = EPR
	18=18" Dia		19 =19*	D=HDPE	4 = 40"		S = Silicon

*NOTE: The 19 element unit is not available in PVDF







