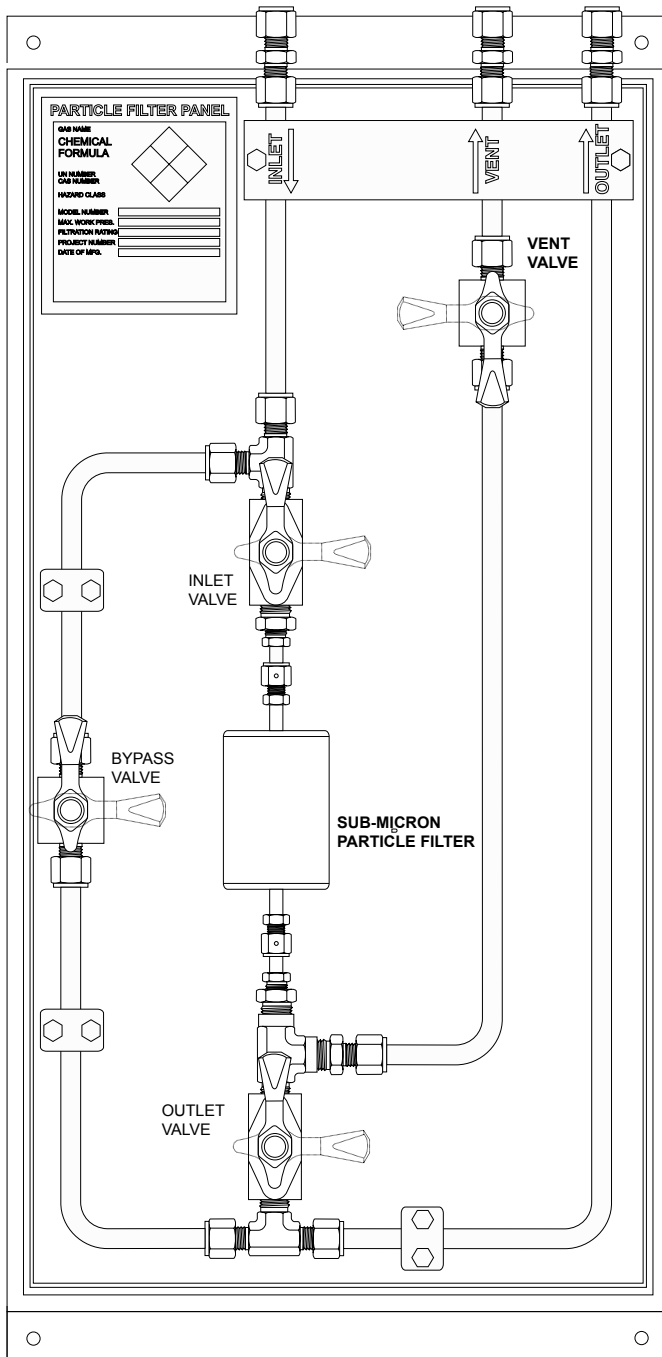


PFP250 Series

Sub-Micron Particle Filter Panels for ICP & ICP-MS Applications



Key Features

Convenient Valving Configuration
Allows Filter Replacements Without Interruption of the Gas Supply and Without the Introduction of Airborne Contaminants into the Pipeline When Putting the Filter Back In Service

Diffusion Resistant Diaphragm Valves Minimizes the Diffusion of Air Into the System, Thus Maintaining the Purity of the Gas

Extreme Level of Filtration
Filtration Rating: 0.003 micron at 99.9999999% Efficiency

High Flow
Maximum Flow: 300 lpm of Argon (648 scfh)

Protects ICPs and ICP-MSs from Particles Carried in the Argon Supply Pipeline

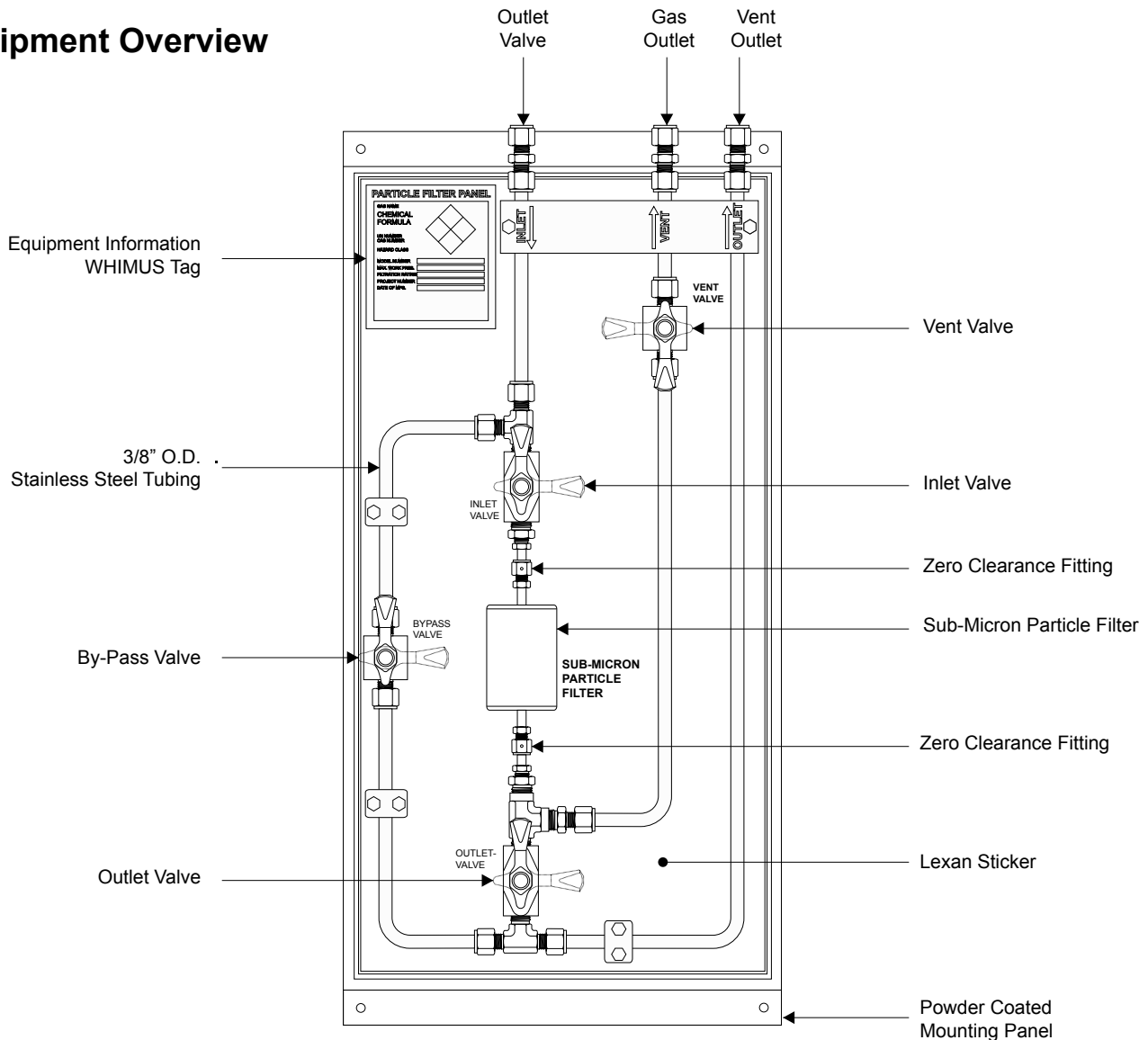
Sub-Micron Particle Filter Panels for ICP & ICP-MS Applications

Description

The PFP Series Sub-Micron Particle Filter Panels protect Inductively Coupled Plasma and Inductively Coupled Plasma Mass Spectrometers from particles carried in the argon supply pipeline. The in-line particle filters are specifically designed for applications where an extreme level of filtration is required. The four-valve configuration allows for filter replacements without interrupting the gas supply and without introducing airborne contaminants into the pipeline when putting the filters back into service.

Each complete panel is pre-purged and pressure tested with ultra high purity helium to insure integrity. The all metal construction of this equipment eliminates potential contamination from outgassing or diffusion (a phenomena commonly associated with plastics).

Equipment Overview



Sub-Micron Particle Filter Panels for ICP & ICP-MS Applications

Materials

Mounting Panel	Material: Steel - Paint: Powder Coated - Color: Light Gray
Valves	Body: Stainless Steel 316 Barstock- Diaphragm: Stainless Steel316- Seat: PCTFE
Tubing	Stainless Steel 316
Fittings	Stainless Steel316
Particle Filter	Body & Fittings: Stainless Steel 316 - Filter Medium: PTFE Teflon

Specifications

Gas	Refer to part number matrix
Maximum Inlet Pressure	250 psig
Inlet & Outlet Connections	3/8" Compression (SS)
Tube Diameter	3/8" Outside Diameter
Max. Working Temperature	+ 150°F

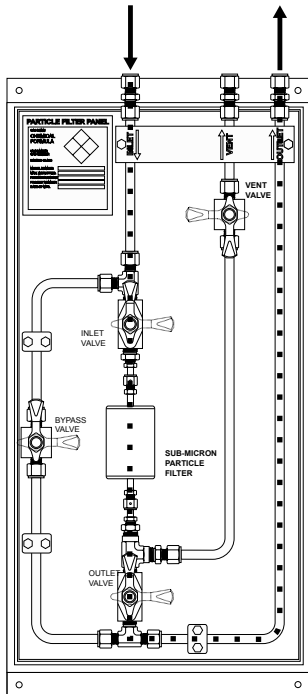
Filter Performance

Pressure Drop	1 psid at 140 slpm Air 2 psid at 195 slpm Air 4 psid at 275 slpm Air Maximum flow 300 slpm Air
Filtration Rating	0.003 micron at 99.9999999% efficiency
Effective Filtration Area	0.5ff

Valve Configurations

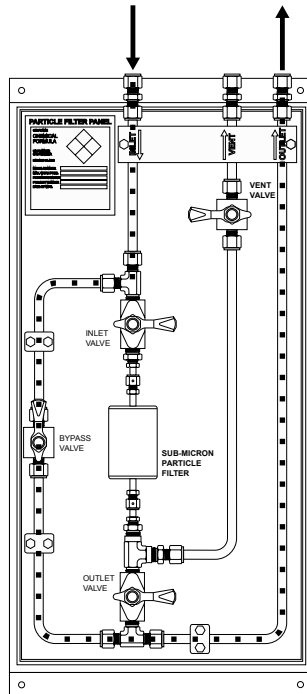
NORMAL CONFIGURATION

Both Inlet & Outlet valves are opened. The gas is purified by the filter. Both Vent & By-Pass valves are closed.



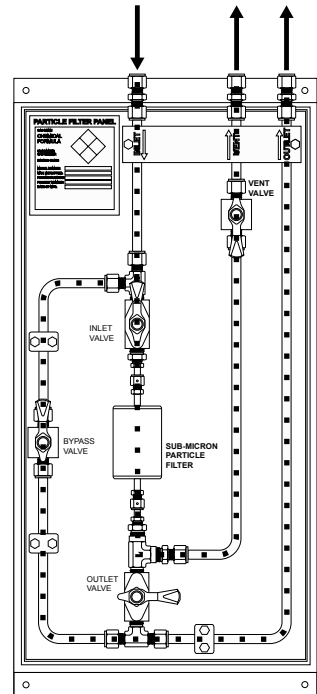
CHANGEOUT CONFIGURATION

The By-Pass valve is opened while all of the other valves are closed. The process is being supplied with un-purified gas while the filter is being replaced.



VENT CONFIGURATION

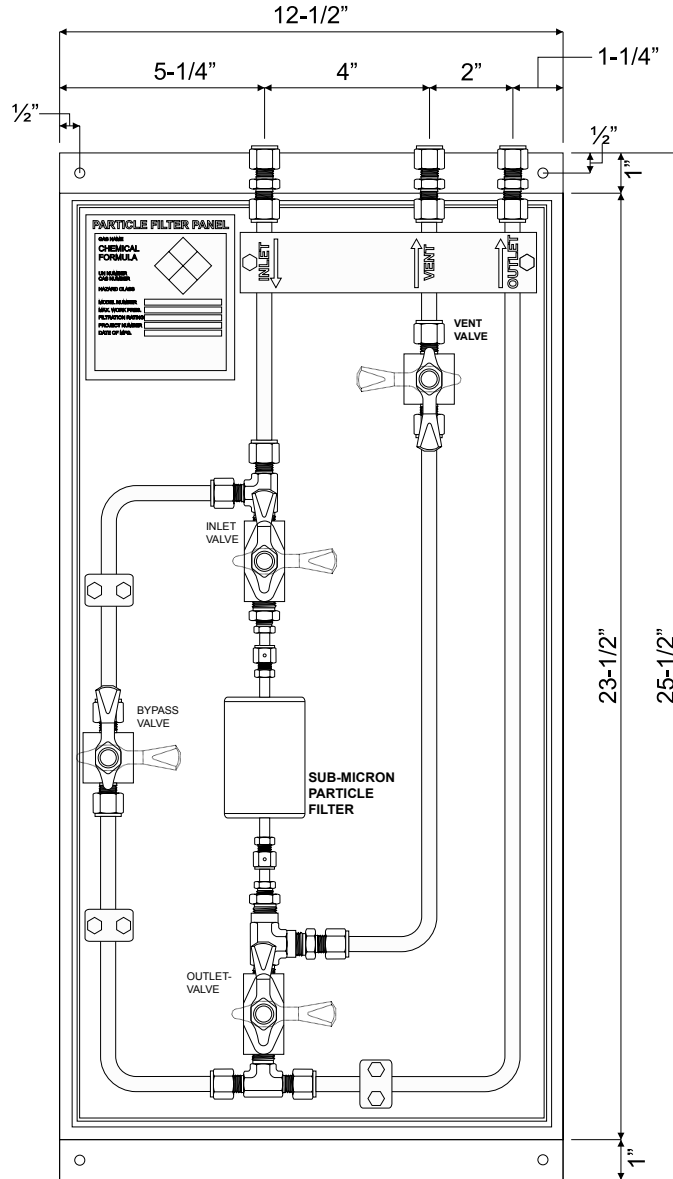
All valves are opened with the exception of the Outlet valve. Airborne contaminants are being vented outside of the system while the process is being supplied by un-purified gas through the By-Pass valve.



Sub-Micron Particle Filter Panels for ICP & ICP-MS Applications

Dimensions

TOTAL PANEL DEPTH IS 6" WITH FILTER



Ordering Information

PFP -

Gas	Inscribe
Air-compressed	CGA 346
Argon	CGA 580
Helium	CGA 580
Hydrogen	CGA 350
Nitrogen	CGA 580
Other gas: provide CGA no.	