



Natural Gas Pilot Valve Filter

City Gate Station Gas Prep Filter Line

Features

- 316L Stainless Steel Construction
- Pressure to 5,000 PSIG, Temperature to 600°F
- Compact Proven Design
- 3-Port Housings for Coalescing or Bypass Filtration

Applications

- Clean Pilot Supply
- City Gate Natural Gas Distribution
- Meter Skid Filter
- Prep Line Gas For Instrument Supply Use

Our model 122LB-PVF is ideal for high pressure compressed gas and pneumatic filtration. Although compact, the 122LB-PVF provides excellent high efficiency filtration in high pressure systems with low pressure drops. The 122LB-PVF comes complete with either a 20 micron sintered polyethylene filter element, model 122LB-PVF-PEL20 or with a 0.01 micron coalescing element, designated as 122LB-PVF-70CS. In each case, the flow direction is from inside to out so that liquids will be captured, coalesced, and then drained off the element's exterior wall into a large sump.

The polyethylene element should be used where particulate contamination is a concern, and/or large slugs of liquid are present. **The PEL20 (20 micron polyethylene) is a robust general purpose filter element.** If greater filtration efficiency is required, and the main concern is liquid aerosol contamination, then we recommend using the **12-76-70CS coalescing element which is rated at 0.01 microns against 95% efficiency.** While the grade 70CS provides greater efficiency, it actually has a lower pressure drop based upon its microfiber borosilicate construction.



- **Supply Gas Filter:** This filter will remove large amounts of moisture and particulate while still allowing a generous flow for Pilot Gas Applications. This housing is equipped with a 1/4" drain which allows the user to plug the drain or use an optional drain valve.
- **Analyzer Filter:** Point of Use filtration for critical application. The compact design/low internal volume allow a quick response time for sampling applications.
- **Bottled Gas Filter:** Rated for 5,000 PSIG this filter is suited for most bottled gas applications.
- **NACE Approved:** Complies with NACE MR-01-75.

By offering a higher pressure rating, a smaller footprint and a variety of elements with superior efficiencies the 122LB-PVF is an excellent upgrade to the Fisher 252 Series. Plus, the elements are completely interchangeable between the two assemblies. We also offer a 122LB-PVF with a 1/8" FNPT top head port which makes installation on some systems easier. This unit is designated as 122LBTP-PVF.

Housing Model	122LB-PVF-PEL20
Port Size (NPT)	1/4"
Drain Type (NPT)	1/4"
Maximum Pressure (psig)	5000
Internal Volume (cc)	58
Reservior / Sump Volume (cc)	15
Weight on Housing (lbs)	1.5
Principle Dimensions: (inches)	
Center Of Port To Head	0.39
Head diameter	1.42
Overall Length	5.98
Element Removal Clearance	3.35
Maximum Temp. (400°F)	
Standard Viton O-Ring	GV110
Filter Element Codes:	
Polyethylene Element (Standard - Included)	PEL-12-76-20
*Other Elements Available-View Drawing	
Drawing (Nylon Internals) **For More Detail & Options**	<u>122LB-PVF</u>

Ordering Information:

The 122LB-PVF series can be purchased with or without elements and includes a Viton O-ring:

- **122LB-PVF-PEL20 - Standard** (Includes PEL-12-76-20 – 20 Micron Polyethylene Element)
 - Replacement Element: PEL-12-76-20
- 122LB-PVF-70CS (Includes 12-76-70CS High Efficiency 0.01 Micron Coalescing Element)
 - Replacement Element: 12-76-70CS
- 122LB-PVF (No Element)

Optional Configurations:

- 122LBTP-PVF-PEL20 (Includes PEL-12-76-20 – 20 Micron Polyethylene Element) (with 1/8" Top Head Port)
 - Replacement Element: PEL-12-76-20
- 122LBTP-PVF-70CS (Includes 12-76-70CS High Efficiency Coalescing Element) (with 1/8" Top Head Port)
 - Replacement Element: 12-76-70CS
- 122LBTP-PVF (No Element) (with 1/8" Head Vent Port)

We recommend purchasing the SSDV-1/4 drain valve which allows drainage of the vessel with a simple turn of a knob.

316L STAINLESS STEEL PURGE VALVES

End Connection Type	Inlet Size	Dimensions		
		A	B	C
		Inches (mm)		Hex Size
SSDV-1/4"	1/4	1.81 (45.97)	0.56 (14.22)	5/8

Our stainless steel drain valves offer a simple and reliable method to either drain liquids from a filter housing or vent to reduce the pressure before servicing an element. The knurled knob allows finger tightening of the unit; no tools are required once installed.

A small orifice on the knurled knob allows captured liquids to drain effortlessly.

