

High-Purity Pressure Regulators (continued)



**Product Numbers:
F7220002011 &
F7220003003**

F7220 Two-Stage Stainless Steel Model

The F7220 series two-stage, high-purity regulators is designed for corrosive analytical and process applications requiring precise, stable, delivery pressure control. The two-stage design yields a delivery pressure change of less than 0.04/100 psi inlet change.

Convoluted stainless steel diaphragms provide excellent regulating characteristics and allow for internal purging. The metal-to-metal diaphragm seal prevents contamination by eliminating the need for a soft seal and provides a leak-rate design of less than 2×10^{-8} ccs helium. This minimizes cleanup time in purging and yields lower residual contaminant levels.

A diaphragm packless outlet valve with a 1/4" compression-tube fitting is provided for flow control and to maintain system purity. Captured bonnet ports with optional vent adaptors are standard on both stages and allow for the venting of hazardous gases in the event of diaphragm failure. These regulators are ultrasonically cleaned for the most demanding high-purity service.

Features

- **Stainless Steel Diaphragms**
Provides superior leak integrity
- **Bonnet Vent Ports**
Allow venting of hazardous gases
- **Standard Threaded Bonnet**
Permits panel mounting.
- **Diaphragm Packless Valve**
Promotes system purity.

(continued)

High-Purity Pressure Regulators 51.0

High-Purity Pressure Regulators (continued)

F7220 Series

Specifications

Maximum Rated Inlet Pressure	3,500 PSIG
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250 PSIG
Flow Capacity	Cv=0.05
Ambient Operating Temperature	-40° F to +165° F
Designed Leak Rate	2 x 10 ⁻⁸ ccs (helium)
Weight	4 lbs
Ports (4)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" Swagelok®
Decay Inlet Characteristic	0.04/100 PSI

Materials

Body	316 Stainless Steel
Bonnet	Nickel-Plated Brass
Seat	Teflon®
Diaphragm	316 Stainless Steel
Gauges	2" Stainless Steel
Filter	316 Stainless Steel
Outlet Valve	316 Stainless Steel
Trim	316 Stainless Steel

Ordering Information

Product Number	Material	Max Inlet Press. (PSIG)	Max Outlet Press. (PSIG)	Capacity (scfh @ Max Del. Press.)	Inlet Gauge Range (PSIG)	Delivery Gauge Range (PSIG)	Inlet CGA
F7220002011	316 SS	3,000	50	270	0-3,000	30"0-50	350
F7220003003	316 SS	3,000	100	380	0-3,000	30"-0-200	580

Note: Refer to flow curve chart 4434curv-notext in Technical Data Section