

High-Purity Pressure Regulators (continued)



**Product Numbers:
F7140002011 &
F7140003003**

F7140 Brass Two-Stage Model

The F7140 series of two-stage, high-purity regulators is designed for non-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 when purging and yields lower residual contaminant levels.

A diaphragm packless outlet valve with a 1/4" Swagelok® 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

- **Convoluted Stainless Steel Diaphragms**
Provides superior leak integrity without contamination from non-metallic liner or seal
- **Bonnet Vent Ports**
Permits venting of hazardous gases
- **Standard Threaded Bonnet**
Permits panel mounting.
- **Diaphragm Packless Valve**
Promotes system purity.

(continued)

High-Purity Pressure Regulators 47.0

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F7140 Series

Specifications

Maximum Rated Inlet Pressure	3,500 PSIG
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250 PSIG
Flow Capacity	Cv=0.050
Ambient Operating Temperature	-40° F to +165° F
Designed Leak Rate	2 x 10 ⁻⁸ ccs (helium)
Weight	4 lbs
Ports (5)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" Swagelok®
Decay Inlet Characteristic	0.04/100 PSI

Materials

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

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
F7140002011	Brass	3,000	50	270	0-4,000	30"-0-60	350
F7140003003	Brass	3,000	100	380	0-4,000	30"-0-200	580

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