

PRESSURE REGULATORS

Electronic Service



Design Features

32 Ra Internal Surface Finish

Unique Patented Compression Member

loads the seal to the body without requiring a threaded nozzle or additional seal to atmosphere.

Meets NACE Standard MR0175

Captured Bonnet

allows for safety venting.

Ultra-High-Purity Single-Stage

Description: The Airgas® Model 900 Ultra-High-Purity Single-Stage Regulators are internally threadless pressure regulator specifically designed for instrument/analyzer and semiconductor applications. This regulator's unique carrier design disperses gas uniformly through the regulator to improve purging. The seat material meets the requirements for corrosive and inert gases.

These regulators are all orbitally welded with high-purity face seal connections and have a 32 Ra internal surface finish. Optional 10 Ra electropolished.

Instrument applications include gas management systems in petrochemical/refineries and process analyzer systems. Semiconductor applications include general-purpose gas management (air, condensed dry air (CDA), and plant nitrogen).

This regulator is a high-pressure ultra-high-purity regulator.

Specifications

Max Rated Inlet Pressure	4,000 psig (2.76 bar)
Outlet Pressure Range	1-30, 2-60, 3-100, 10-250 psig
Cv	0.06
Ambient Operating Temperature	-40° F to 150° F (-38° C to 65° C)
Designed Leak Rate	2 x 10 ⁻⁸ scc/sec (helium)
Weight	1.5 lbs (0.7 kg)
Ports	1/4" Face Seal
Inlet	1/4" Female Face Seal
Outlet	1/4" Male Face Seal
Gauge Ports	1/4" Male Face Seal
Gauge Size	2" diameter
Supply Pressure Effect	0.6/100 psi

Materials

Body	316L Stainless Steel
Bonnet	Nickel Plated Brass
Seat	PCTFE
Diaphragm	Hastelloy C-22®
Gauges	2" Female Face Seal
Filter	None
Seals	PTFE
Poppet	Elgloy®
Poppet Spring	Iconel®
Carrier	Stainless Steel
Back-up washer	316L Stainless Steel
Back-up O-ring	KFM

Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Inlet Gauge Range (psig)	Outlet Gauge Range (psig)
Y11-HP900A(CGA)	316L Stainless Steel	4,000	30	0-4,000	0-60
Y11-HP900B(CGA)	316L Stainless Steel	4,000	60	0-4,000	0-100
Y11-HP900D(CGA)	316L Stainless Steel	4,000	100	0-4,000	0-200
Y11-HP900F(CGA)	316L Stainless Steel	4,000	250	0-4,000	0-400