Specialty Gas Equipment



Ultra-High-Purity Two-Stage

Description: The Airgas® Ultra-High-Purity Two Stage Regulators are internally threadless pressure regulators 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 materials meet 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 is a high-pressure ultra-high-purity regulator.

Electronic Service

PRESSURE REGULATORS



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.

Specifications				
Max Rated Inlet Pressure	4,000 psig (276 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			

Metaviele			
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	Elglloy®		
Poppet Spring	Iconel®		
Carrier	Stainless Steel		
Back-up washer	316L Stainless Steel		
Back-up O-ring	FKM		

Ordering Information							
Product Number	Body Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Inlet Gauge Range (psig)	Outlet Gauge Range (psig)		
Y12-HP950A(CGA)	316L Stainless Steel	4,000	25	0-4,000	0-60		
Y12-HP950B(CGA)	316L Stainless Steel	4,000	60	0-4,000	0-100		
Y12-HP950D(CGA)	316L Stainless Steel	4,000	100	0-4,000	0-200		
Y12-HP950F(CGA)	316L Stainless Steel	4,000	250	0-4,000	0-400		