Specialty Gas Equipment



Ultra-High-Purity Line

Description: The Airgas® Ultra High-Purity Line Regulators are an internally threadless pressure regulator and are specifically designed for instrument/analyzer and semiconductor applications. This line regulator's unique carrier design disperses gas uniformly through the regulator to improve purging. The regulator 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 line regulator. It is used at the process point or inline.

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 (2.76 bar)		
Outlet Pressure Range	2-25, 3-60, 4-100, 5-250 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	3 - 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	0.1/100 psi		

Materials		
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	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Outlet Gauge Range (psig)		
Y11-HP980A	316L Stainless Steel	4,000	30	0-60		
Y11-HP980B	316L Stainless Steel	4,000	60	0-100		
Y11-HP980D	316L Stainless Steel	4,000	100	0-200		
Y11-HP980F	316L Stainless Steel	4,000	250	0-400		