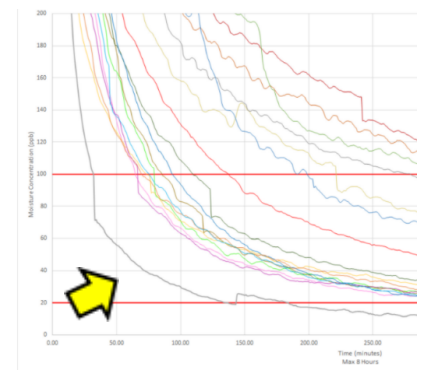


ALPHAGAZ Nano™ Regulators

Ultra-precision analytical regulators for argon, helium and nitrogen

This ALPHAGAZ Nano regulator has been scientifically proven to maintain gas purity better than other regulators. Low internal volume and reduced surface area allows for impurities to travel through the device and avoid build-up. The Nano series regulator is available in single and two-stage pressure controls with an internal volume of only 3.03 cc and 8.6 cc, respectively. Quality design and stainless steel construction does not permit introduction of outside contaminants, helping to ensure continual gas quality and accurate analytical measurement.

For additional confirmation, Airgas conducted an internal study that compared regulator design performance when introducing a known impurity gas stream, and measuring the time to purge the contaminant. As illustrated in the graph, the design of the Nano regulator performed better than several commercially available analytical regulators tested. ALPHAGAZ Nano regulators were able to completely purge within approximately 140 minutes—twice as fast as all other regulators included in the study. Its ability to allow impurities such as water and oxygen to pass through the internal mechanics of the regulator to ensure ultra-high purity performance makes it a simple choice for your important analytical work



Features

Low internal volume allows rapid purging

Metal diaphragms minimize diffusion of air into regulator and eliminates off gassing associated with elastomeric diaphragms to ensure gas purity

Vacuum purging of regulator is permitted

Lightweight and compact design

Materials of Construction

Body: 316 Stainless Steel

Diaphragm:

1st stage – 316L, 2nd stage - Elgiloy®

Seats: PCTFE

Seals: PTFE

Bonnet: Anodized black aluminum

Gauges: Stainless Steel

Specifications

Inlet Pressure: see chart below

Regulator Inlet Port: see chart below

Outlet Connection: see chart below

Operating Temperature: -40°F to 140°F

Flow Coefficient: Cv=0.06

Supply Pressure Effect:

0.4 psi per 100 psi

Gauge ports: 1/8 NPT Female

Gauge Size: 1.5" (41mm) face

Weight: 2.6 lbs.

ALPHAGAZ Nano Model Number	Gas Service	Maximum Inlet psi	Delivery Pressure Range		Inlet CGA	Outlet Connection
			psi	gauge (psi)		
Singles-stage						
Y11NANOAS580-AL	Nano He/Ar/N ₂	3000	1 – 30	0 – 60	580	¼ NPT Male
Y11NANOBS580-AL	Nano He/Ar/N ₂	3000	2 – 75	0 – 100	580	¼ NPT Male
Y11NANOCS580-AL	Nano He/Ar/N ₂	3000	4 – 150	0 – 200	580	¼ NPT Male
Two-stage						
Y12NANOAS580-AL	Nano He/Ar/N ₂	3000	1 – 30	0 – 60	580	¼ NPT Male
Y12NANOBS580-AL	Nano He/Ar/N ₂	3000	2 – 75	0 – 100	580	¼ NPT Male
Y12NANOCS580-AL	Nano He/Ar/N ₂	3000	4 – 150	0 – 200	580	¼ NPT Male

Contact us

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