

Low-Flow Two-Stage Models

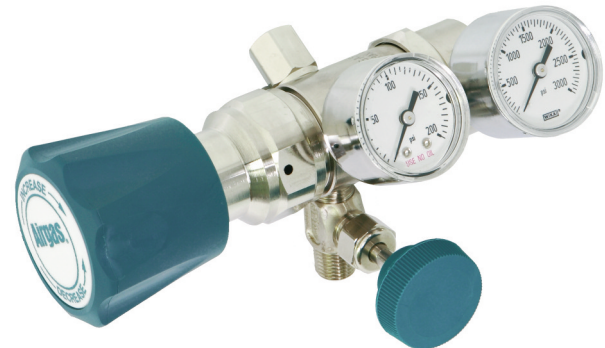
High-Purity

PRESSURE REGULATORS

Description: These two-stage regulators are specifically designed for low-flow, non-corrosive gas applications where precise delivery pressure is critical. They feature a brass piston sensor in the first stage, a stainless steel diaphragm in the second stage and a preset safety relief valve. A sintered brass filter protects internal parts.

These two-stage regulators are also ideal for medical diagnostic applications, such as blood gas analysis, where precise pressure control and low flow rates are required.

They are available with a CGA cylinder valve connection for use on large cylinders, or a 973 pin-indexed yoke connection for use with E medical cylinders.



Design Features

Convoluted Stainless Steel Diaphragms

provide superior leak integrity without contamination from a non-metallic liner or seal.

Low Internal Volume

allows rapid purging and stabilization of gas flow.

Low-Flow Design

provides precise pressure and flow control.

Small Size

enables fast, easy fit up.

Specifications	
Maximum Rated Inlet Pressure	3,000 psig
Outlet Pressure Ranges	0-10, 0-50, 0-100 psig
Flow Capacity	Cv=0.088
Ambient Operating Temperature	-20° F to +140° F
Designed Leak Rate	1 x10 ⁻⁴ ccs (helium)
Weight	3 lbs
Ports (4)	1/8" FNPT and 1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" MNPT
Decay Inlet Characteristic	0.026/100 psi

Materials	
Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PTFE and Viton-A®
Diaphragm	304 Stainless Steel
Gauges	1 1/2" Nickel-Plated Brass
Filter	Sintered Brass
Piston	Brass
Piston O-Ring	Viton-A®
Outlet Valve	Nickel-Plated Brass
Trim	Nickel-Plated Brass

Ordering Information							
Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Relief Valve Setting (psig)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y12-C144A(CGA)	Brass	3,000	10	10	350	0-3,000	0-15
Y12-C144B(CGA)	Brass	3,000	50	25	350	0-3,000	0-100
Y12-C144D(CGA)	Brass	3,000	100	50	350	0-3,000	0-160
*Y12-M350 (Medical)	Brass	3,000	50	25	350	0-3,000	0-100
*Y12-M500 (Medical)	Brass	3,000	50	25	350	0-3,000	0-100
*Y12-M973 (Medical)	Brass	3,000	50	25	350	0-3,000	0-100

*Not to be used for human consumption or ingestion.

Available Options		Additional Information: Compact size allows for easy fit-up and connection to process equipment.
Product Number	Description	
Y99-26120	1/4" FNPT x 1/4" Compression	
Y99-26140	1/4" FNPT x 1/8" Compression	

