

Economy Corrosive Environment Two Stage Regulator

Description: This economically priced two stage regulator is designed for analytical applications where the regulator is located in corrosive environments but uses none corrosive gases. The regulator has a stainless steel diaphragm for high purity applications; the needle valve is built into the body to shorten the gas path.

These regulators also have a check valve CGA that prevents contaminants from entering the gas stream during cylinder change out.

The regulator has liquid filled gauges to protect the gauge movement from corrosive environments damaging this movement. The bonnets are a resin material to prevent discoloration from the environment as well. This regulator will last a long time in these environments and prevent common failures as seen on other regulator commonly used in corrosive environments.

Analytical Regulators

TWO STAGE CORROSIVE ENVIRONMENTS



Design Features

Check Valve CGA

Prevents air and contaminants from entering the process stream during cylinder change out

Liquid filled gauges

prevent the environment from causing gauge failure

Resin bonnets and nickel plated brass body

protects the appearance

Stainless steel diaphragm

eliminates off gassing associated with elastomeric diaphragms

Needle valve

is built into the body to shorten gas path

Materials

Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PTFE
Diaphragm	316 Stainless Steel
Gauges	2 1/2" Nickel-Plated Brass
Filter	316 Stainless Steel and Bronze
Valve Stem	316 Stainless Steel
Valve Spring	316 Stainless Steel
Outlet Valve	Needle valve in body
Trim	Nickel-Plated Brass

Specifications

Maximum Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250 psig
Flow Capacity	Cv=0.13
Ambient Operating Temperature	-40° F to +165° F
Designed Leak Rate	Bubble-Tight (helium)
Weight	5 lbs
Ports (4)	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" MNPT
Decay Inlet Characteristic	0.23/100 psi

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-DW215A(CGA)	Brass	3500	25	250	85	0-4,000	30" Hg-0-30
Y12-DW215B(CGA)	Brass	3500	50	450	150	0-4,000	0-60
Y12-DW215D(CGA)	Brass	3500	100	900	150	0-4,000	0-200
Y12-DW215F(CGA)	Brass	3500	250	1500	350	0-4,000	0-400