

610 Silverline SERIES

HIGH PURITY BRASS SINGLE STAGE REGULATORS

DESIGN FEATURES

- Filtered seat for added gas stream purity
- Stainless steel diaphragm
- Metal to metal body to diaphragm seal
- 2 1/2" single scale gauge
- 316 stainless steel filter
- Brass nickel plated bar stock body
- Capturable vent in bonnet (1/16" FNPT)
- Threaded bonnet for panel mounting
- Body is tapped for rear panel mounting



This single stage high purity regulator is designed to prevent contamination of high purity systems and provide accurate regulation of non-corrosive gases. The specially designed stainless steel diaphragm gives maximum accuracy and provides stable regulation of delivery pressure. This regulator is capable of withstanding an internal vacuum and is available with a diffusion resistant, packless diaphragm outlet valve to maintain system purity. A 1/16" FNPT port in the bonnet is provided to vent hazardous gases in the event of a diaphragm failure.

P/N 610-01-09-00-00 SHOWN

Sure-Seat™
technology for maximum
life and gas purity

610 - 01 - 09 - 00 - 00

SPECIFICATIONS

Maximum Inlet Pressure	3500 PSIG
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250, 0-500 PSIG
Temp. Operating Range	-40°F to +165°F
Ports (5)	1/4" FNPT
Design Leak Rate	(2 x 10-8 ccs Helium)
Flow Coefficient Cv	0.12
Flow Curve	Flow Chart #8
Inlet Decay Rate	.75/100 PSIG
Weight	3.32 lbs.

MATERIALS OF CONSTRUCTION

Body	Nickel Plated Brass, Bar Stock
Bonnet	Nickel Plated Brass, Bar Stock
Seat	PFA
Seat Retainer	Brass
Diaphragm	Stainless Steel
Gauge	2-1/2" Chrome Plated
Filters (2)	316 Stainless Steel/Brass
Valve Stem	316 Stainless Steel
Valve Spring	316 Stainless Steel
Outlet Valve	Nickel Plated Brass

Option 1:		Option 2:		Option 3:		Option 4:		Option 5:	
Model Series & Outlet Pressure	Outlet Fittings	CGA Inlet Fittings	Accessories	Options					
610 25 PSIG	00 1/4" FNPT	00 1/4" FNPT	00 None	00 1/4" None					
611 50 PSIG	01 1/4" FNPT Diaphragm Valve	02 CGA 320	01 Panel Mount Kit	01 Captured Vent Fitting 1/16" MPT x 1/8" Tube					
612 100 PSIG	02 1/4" FNPT Diaphragm Valve with 1/8" Tube Fitting	03 CGA 326	02 Helium Leak Certification						
613 250 PSIG	03 1/4" FNPT Diaphragm Valve with 1/4" Tube Fitting	05 CGA 346	03 Panel Mount Kit and Certification						
614 500 PSIG	20 1/4" MNPT Needle Valve	06 CGA 350							
	42 1/4" FNPT Needle Valve with 1/8" Tube Fitting	07 CGA 510							
	81 1/4" MPT x 1/8" Stainless Steel Tube Fitting	08 CGA 540							
	83 1/4" MPT x 1/4" Stainless Steel Tube Fitting	09 CGA 580							
		10 CGA 590							

Ordering Information For 610 Series Regulators

Product Number	Max. Inlet Pressure PSIG	Max. Outlet Pressure PSIG	Inlet Gauge		Delivery Gauge	
			Range PSIG	Graduations PSIG	Range PSIG	Graduations PSIG
610	3500	25	0-4000	100	30" HG 0-30	1
611	3500	50	0-4000	100	0-60	1
612	3500	100	0-4000	100	0-200	5
613	3500	250	0-4000	100	0-400	10
614	3500	500	0-4000	100	0-1000	20