Silverline SERIES

HIGH PURITY CORROSION RESISTANT STAINLESS STEEL SINGLE STAGE REGULATOR

DESIGN FEATURES

- · 316 Stainless steel filtered seat for added gas stream purity, and extended service life
- · Convoluted stainless steel diaphragm for precise control of
- · Metal to metal diaphragm seal for maximum leak integrity
- 316 stainless steel bar stock body
- Large 2 1/2" easy to read single scale gauges
- Captured vent port in bonnet (1/16" FNPT) allows for safe venting of hazardous gases
- Bonnet is threaded for front 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 corrosive, non-corrosive or toxic gases. For corrosive The specially designed and convoluted stainless steel diaphragm gives maximum accuracy and provides stable regulation of

applications, all parts in this regulator exposed to the flowing media are constructed of 316 PCTFE. delivery pressure. This regulator is capable of withstanding an

internal vacuum and available with diffusion resistant, packless diaphragm outlet valve to maintain system purity. A capturable 1/16" FNPT port in the bonnet is provided to vent hazardous gases in the event of a diaphragm failure.

NOTE: A Cross Purge Assembly must be used with this series of regulators to ensure effective purging of hazardous gas traces during cylinder changes.

SPECIFICATIONS

Maximum Inlet Pressure
Outlet Pressure Ranges 0-25, 0-50, 0-100,
0-250 PSIG
Temp. Operating Range40°F to +165°F
Ports (5)
Design Leak Rate (2 x 10-8 ccs Helium)
Flow Coefficient Cv 0.12
Flow Curve Flow Chart #8
Flow Curve Flow Chart #8 Inlet Decay Rate 0.75/100 PSIG

MATERIALS OF CONSTRUCTION

•	. 316 Stainless Steel, Bar Stock
Bonnet	 Nickel Plated Brass, Bar Stock
Seat	PCTFE
Seat Retainer	316 Stainless Steel
Diaphragm	Stainless Steel
Gauge	2-1/2" Stainless Steel
Filter	316 Stainless Steel
Valve Stem	316 Stainless Steel
Valve Spring	316 Stainless Steel
Outlet Valve	316 Stainless Steel



technology for maximum life and gas purity

P/N 310-70-24-00-00 SHOWN

Sure-Seat™

Opt	tion 1:		Option 2:		Option 3:		Option 4:		Option 5:
	Series &	Outlet Fittings		CGA Inlet Fittings		Accessories		Options	
Outlet	Pressure	00	1/4" FNPT	00	1/4" FNPT	00	None	00	None
310	25 PSIG	66	1/4" MPT Stainless Steel Needle	20	CGA SS 320	01	Panel Mount	01	Captured Vent
311	50 PSIG		Valve	21	CGA SS 326	_	Kit		Fitting 1/16" MPT x 1/8"
312	100 PSIG	67	1/4" MPT Stainless Steel Diaphragm Valve	22	CGA SS 330	02	Helium Leak Certification		Tube
313	250 PSIG	68	1/4" FPT Stainless Steel Needle	23	CGA SS 350	03	Panel Mount		
			Valve with 1/8" Tube Fitting	24	CGA SS 580		Kit and Certification		
		69	1/4" FPT Stainless Steel Diaphragm Valve with 1/8"	25	CGA SS 660		Cermitanion		
			Tube Fitting	30	CGA SS 240				
		70	1/4" FNPT Stainless Steel Diaphragm Valve	31	CGA SS 705				
	-			32	CGA SS 590				
		81	1/4" MPT x 1/8" Stainless Steel Tube Fitting						
		83	1/4" MPT x 1/4" Stainless Steel Tube Fitting						
		85	1/4" FPT Stainless Steel Diaphragm Valve with 1/4" Tube Fitting						

Ordering Information For 310 Series Regulators									
	Max.	Max.	Inlet Gauge		Delivery Gauge				
Product Number	Inlet Pressure PSIG	Outlet Pressure PSIG	Range PSIG	Graduations PSIG	Range PSIG	Graduations PSIG			
310	3500	25	0-4000	100	30° HG 0-30	1			
311	3500	50	0-4000	100	0-100	2			
312	3500	100	0-4000	100	0-200	5			
313	3500	250	0-4000	100	0-400	10			