

310 SERIES



Distributed By:
Med-Tech Gases, Inc.
 1-800-FINE-GAS (346-3427)
 www.medtechgases.com

HIGH PURITY CORROSION RESISTANT STAINLESS STEEL SINGLE STAGE REGULATOR



Sure-Seat™
 technology for maximum life and gas purity

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 applications, all parts in this regulator exposed to the flowing media are constructed of 316 Stainless Steel and Teflon®. The specially designed and convoluted stainless steel diaphragm gives maximum accuracy and provides stable regulation of 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 1/16" FNPT port in the bonnet is provided to vent hazardous gases in the event of a diaphragm failure.

DESIGN FEATURES

- 316 Stainless steel filtered seat for added gas stream purity, and extended service life
- Convoluted stainless steel diaphragm for precise control of pressure
- Metal to metal diaphragm seal for maximum leak integrity
- Large 2 - 1/2" easy to read single scale gauges
- Bonnet is threaded for front panel mounting
- Body is tapped for rear bracket mounting
- 316 stainless steel bar stock body
- Captured vent port in bonnet (1/16" FNPT) allows for safe venting of hazardous gases

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	3000 PSIG
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250 PSIG
Temp. Operating Range	-40°F to +165°F
Ports (5)	1/4" FNPT
Outlet	1/4" MNPT
Outlet Valve	1/4" Stainless steel diaphragm valve
Design Leak Rate	(2 x 10 ⁻⁸ ccs Helium)
Flow Coefficient Cv	0.06
Inlet Decay Rate	0.75/100 PSIG
Weight	3.32 lbs.

MATERIALS OF CONSTRUCTION

Body	316 Stainless Steel bar stock
Bonnet	Electroless Nickel Plated Brass
Seat	Teflon®
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

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OPTION 1:		OPTION 2:		OPTION 3:		OPTION 4:		OPTION 5:	
MODEL SERIES & OUTLET PRESSURE	OUTLET FITTINGS	CGA INLET FITTINGS	ACCESSORIES	OPTIONS					
310 25 PSIG	00 1/4" FNPT	00 1/4" FNPT	00 None	00 1/4" FNPT					
311 50 PSIG	66 1/4" MPT Stainless Steel Needle Valve	20 CGA SS 320	01 Panel Mount Kit	01 Captured vent fitting 1/16" MPT x 1/8" tube					
312 100 PSIG	67 1/4" MPT Stainless Steel Diaphragm Valve	21 CGA SS 326	02 Helium Leak Certification						
313 250 PSIG	68 1/4" FPT Stainless Steel Needle Valve with 1/8" tube fitting	22 CGA SS 330	03 Panel Mount Kit and Certification						
	69 1/4" FPT Stainless Steel Diaphragm Valve with 1/8" tube fitting	23 CGA SS 350							
	70 1/4" FNPT Stainless Steel Diaphragm Valve	24 CGA SS 580							
	81 1/4" MPT x 1/8" Stainless Steel tube fitting	25 CGA SS 660							
	83 1/4" MPT x 1/4" Stainless Steel tube fitting	30 CGA SS 240							
	85 1/4" FPT Stainless Steel Diaphragm Valve with 1/4" tube fitting	31 CGA SS 705							
		32 CGA SS 590							
		33 CGA SS 540							

To order additional inlet/outlet and accessories options which are available and sold separately; please see page 38-39 of this catalog.

ORDERING INFORMATION FOR 310 SERIES REGULATORS

Product Number	Max. Inlet Pressure PSIG	Max. Outlet Pressure PSIG	Inlet Gauge		Delivery Gauge	
			Range PSIG	Graduations PSIG	Range PSIG	Graduations PSIG
310	3000	25	0-3000	50	30° Hg-0-30	1
311	3000	50	0-3000	50	0-100	2
312	3000	100	0-3000	50	0-200	5
313	3000	250	0-3000	50	0-200	10



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