

320 SERIES



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

HIGH PURITY CORROSION RESISTANT STAINLESS STEEL TWO STAGE REGULATOR



Sure-Seat™
 technology for maximum life and gas purity

This high purity two stage regulator is designed for corrosive and non-corrosive gases requiring precise and stable delivery pressure control. These regulators provide constant pressure regardless of inlet pressure fluctuations. This stainless steel regulator offers high corrosion resistance and wetted parts of 316 Stainless Steel and Teflon® for high purity applications. This regulator features a unique metal diaphragm seal. Captured vent ports are provided for both stages to allow for venting of hazardous gases in the event of a diaphragm failure. This regulator is designed to withstand internal vacuums during purging operations.

DESIGN FEATURES

- 316 Stainless steel filtered seat for added gas stream purity, and extended service life
- Convuluted 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
- Front bonnet is threaded for front panel 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	0.05
Inlet Decay Rate	0.04/100 PSIG
Weight	5 lbs.

MATERIALS OF CONSTRUCTION

Body	316 Stainless Steel bar stock
Bonnet 1st Stage	Electroless Nickel Plated Brass
Bonnet 2nd Stage	Electroless Nickel Plated Brass
Seat	Teflon®
Seat Retainer	316 Stainless Steel
Diaphragm 1st Stage	Stainless Steel
Diaphragm 2nd Stage	Stainless Steel
Gauge	2-1/2" Stainless Steel
Filters (2)	316 Stainless Steel
Valve Stem	316 Stainless Steel
Valve Spring	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					
320 25 PSIG	00 1/4" FNPT	00 1/4" FNPT	00 None	00 1/4" None					
321 50 PSIG	66 1/4" MPT Stainless Steel Needle Valve	20 CGA SS 320	01 Panel Mount Kit	02 Captured vent fitting 1/16" MNPT x 1/8" tube					
322 100 PSIG	67 1/4" MPT Stainless Steel Diaphragm Valve	21 CGA SS 326	02 Helium Leak Certification						
323 250 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" MNPT x 1/4" Stainless Steel Tube Fitting	30 CGA SS 240							
	85 1/4" FPT x 1/4" 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 320 SERIES REGULATORS

Product Number	Max. Inlet Pressure PSIG	Max. Outlet Pressure PSIG	Inlet Gauge		Delivery Gauge	
			Range PSIG	Graduations PSIG	Range PSIG	Graduations PSIG
320	3000	25	0-3000	50	30" Hg 0-30	1
321	3000	50	0-3000	50	0-100	2
322	3000	100	0-3000	50	0-200	5
323	3000	250	0-3000	50	0-200	10



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