

320 Silverline SERIES

HIGH PURITY CORROSION RESISTANT STAINLESS STEEL TWO 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 pressure
- 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
- Front and rear bonnet are threaded for front panel mounting



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 delivery pressure regardless of inlet pressure fluctuations. This stainless steel regulator offers high corrosion resistance and wetted parts of 316 Stainless Steel and PCTFE for high purity applications. This regulator also 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.

P/N 320-70-24-00-00 SHOWN

Sure-Seal™
technology for maximum
life and gas purity

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

320 - 70 - 24 - 00 - 00

SPECIFICATIONS

Maximum Inlet Pressure 3500 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
 Design Leak Rate (2 x 10-8 ccs Helium)
 Flow Coefficient Cv 0.10
 Flow Curve Flow Chart #9
 Inlet Decay Rate 0.04/100 PSIG
 Weight 5 lbs.

MATERIALS OF CONSTRUCTION

Body 316 Stainless Steel, Bar Stock
 Bonnet 1st Stage Nickel Plated Brass, Bar Stock
 Bonnet 2nd Stage Nickel Plated Brass, Bar Stock
 Seat PCTFE
 Seat Retainer 316 Stainless Steel
 Diaphragm 1st Stage Stainless Steel
 Diaphragm 2nd Stage Stainless Steel
 Gauge 2-1/2" Stainless Steel
 Filters 316 Stainless Steel
 Valve Stem 316 Stainless Steel
 Valve Spring 316 Stainless Steel

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 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" MPT x 1/8" Tube (includes 2)					
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" 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							

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	3500	25	0-4000	100	30" HG 0-30	1
321	3500	50	0-4000	100	0-100	2
322	3500	100	0-4000	100	0-200	5
323	3500	250	0-4000	100	0-400	10

