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.

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

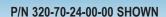
SPECIFICATIONS

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 0.10
Flow Curve Flow Chart #9
Inlet Decay Rate 0.04/100 PSIG
Weight 5 lbs.

MATERIALS OF CONSTRUCTION

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





Sure-Seat™ technology for maximum life and gas purity

Option 1:		Option 2:		Option 3:		Option 4:		Option 5:		
Model Series & Outlet Pressure		Outlet Fittings			CGA Inlet Fittings		Accessories		Options	
		00	1/4" FNPT	00	1/4" FNPT	00	None	00	None	
320	25 PSIG	66	1/4" MPT Stainless Steel Needle	20	CGA SS 320	01	Panel Mount	02	Captured Vent	
321	50 PSIG		Valve		CGA SS 326	乚	Kit		Fitting 1/16"	
322	100 PSIG	67	1/4" MPT Stainless Steel Diaphragm Valve	21 22	CGA SS 330	02	Helium Leak Certification		MPT x 1/8" Tube (indudes 2)	
323	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			
		69	1/4" FPT Stainless Steel Diaphragm Valve with 1/8" Tube Fitting	25	CGA SS 660		Certification			
				30	CGA SS 240					
		70	1/4" FNPT Stainless Steel Diaphragm Valve	31	CGA SS 705					
		01	1 0	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							

Ordering Information For 320 Series Regulators										
	Max.	Max.	Inlet (Gauge	Delivery Gauge					
Product Number	Inlet Pressure PSIG	Outlet Pressure PSIG	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				

1/4" FPT Stainless Steel Diaphragm Valve with 1/4" Tube Fitting