

# 620 Silverline SERIES

## HIGH PURITY BRASS TWO STAGE REGULATORS

### DESIGN FEATURES

- Filtered seat for added gas stream purity
- Stainless steel diaphragm
- Metal to metal body to diaphragm seal
- 2 1/2" single scale gauge
- 316 stainless steel filter
- Brass nickel plated bar stock body
- Capturable vent in bonnet (1/16" FNPT)
- Threaded front and rear bonnet for panel mounting



This high purity two stage regulator is designed for non-corrosive gases requiring precise and stable delivery pressure control. These regulators provide constant outlet pressure regardless of inlet pressure fluctuations. This regulator features a unique, specially designed stainless steel diaphragm that gives maximum accuracy and provides stable regulation of delivery pressure. A nickel plated brass, diffusion resistant, packless diaphragm shut-off valve is available for flow control and to maintain system purity. Captured 1/16" FNPT vent ports are provided for both stages to allow for venting of hazardous gases in the event of a diaphragm failure. This regulator is capable of withstanding internal vacuums during purging operations.

P/N 620-01-09-00-00 SHOWN

**Sure-Seat™**  
technology for maximum  
life and gas purity

### 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 (4)	1/4" FNPT
Design Leak Rate	(2 x 10 <sup>-8</sup> ccs Helium)
Flow Coefficient Cv	0.10
Flow Curve	Flow Chart #9
Inlet Decay Rate	.02/100 PSIG
Weight	5.22 lbs.

### MATERIALS OF CONSTRUCTION

Body	Nickel Plated Brass, Bar Stock
Bonnet 1st Stage	Nickel Plated Brass, Bar Stock
Bonnet 2nd Stage	Nickel Plated Brass, Bar Stock
Seat	PFA
Seat Retainer	Brass
Diaphragm 1st Stage	Stainless Steel
Diaphragm 2nd Stage	Stainless Steel
Gauge	2-1/2" Chrome Plated
Filters	316 Stainless Steel/Brass
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					
620 25 PSIG	00 1/4" FNPT	00 1/4" FNPT	00 None	00 None					
621 50 PSIG	01 1/4" FNPT Diaphragm Valve	02 CGA 320	01 Panel Mount Kit	02 Captured Vent Fitting 1/16" MPT x 1/8" Tube (includes 2)					
622 100 PSIG	02 1/4" FNPT Diaphragm Valve with 1/8" Tube Fitting	03 CGA 326	02 Helium Leak Certification						
623 250 PSIG	03 1/4" FNPT Diaphragm Valve with 1/4" Tube Fitting	05 CGA 346	03 Panel Mount Kit and Certification						
	20 1/4" MNPT Needle Valve	06 CGA 350							
	42 1/4" FNPT Needle Valve with 1/8" Tube Fitting	07 CGA 510							
	81 1/4" MPT x 1/8" Stainless Steel Tube Fitting	08 CGA 540							
	83 1/4" MPT x 1/4" Stainless Steel Tube Fitting	09 CGA 580							
		10 CGA 590							

### Ordering Information For 620 Series Regulators

Product Number	Max. Inlet Pressure PSIG	Max. Outlet Pressure PSIG	Inlet Gauge		Delivery Gauge	
			Range PSIG	Graduations PSIG	Range PSIG	Graduations PSIG
620	3500	25	0-4000	100	30" HG 0-30	1
621	3500	50	0-4000	100	0-60	1
622	3500	100	0-4000	100	0-200	5
623	3500	250	0-4000	100	0-400	10