# **GO**REGULATOR

## **DL-50 Series**

**Dome-loaded Pressure Regulator** 

The DL-50 is a compact and robust design which employs a unique "Dual Piston" set up that enables the user to control pressure up to 6000 psig(414 bar) with as little as 100 psig(7 bar) of dome pressure. All of this is accomplished within the smallest envelope the industry has to offer.

The regulator portion of this unit was patterned after the time tested PR-50 Series, which is widely recognized as a benchmark of performance and quality. Offering the utmost in economy and safety, this unit is constructed from 316L stainless steel. A carefully engineered diaphragm/piston sensor unit offers good sensitivity and repeatability.

Completing this design is the addition steel optional) dome unit. The inlet captured by a high tensile snap ring. alignment of the dome gas line within excellent leak integrity.



of an anodized aluminum (316 stainless ring to the dome is freely rotating and This feature allows easy positioning and a customer's system while maintaining

## **Typical Applications**

- Pilot plant
- Off-shore oil and gas rigs
- Pneumatic test benches
- Component testing
- R & D systems
- High pressure booster systems

### **Technical Data**

CONSTRUCTION316L stainless steel construction (brass and Monel® optional)DOME RATIOS11.5 : 1, 20 : 1INLET/OUTLET PORTS¼″ FNPT (standard)OUTLET PRESSUREup to 2000 psig (138 bar)Cv COEFFICIENTS0.025, 0.06, 0.2					
INLET/OUTLET PORTS¼" FNPT (standard)OUTLET PRESSUREup to 2000 psig (138 bar)	CONSTRUCTION				
OUTLET PRESSURE up to 2000 psig (138 bar)	DOME RATIOS	11.5 : 1, 20 : 1			
	<b>INLET/OUTLET PORTS</b>	1/4" FNPT (standard)			
<b>Cv COEFFICIENTS</b> 0.025, 0.06, 0.2	OUTLET PRESSURE	up to 2000 psig (138 bar)			
	Cv COEFFICIENTS	0.025, 0.06, 0.2			

## Features & Benefits

- Gas or liquid service
- Better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble-tight shutoff
- Diaphragm type sensing
- Remote dome-loading

## GO Regulator

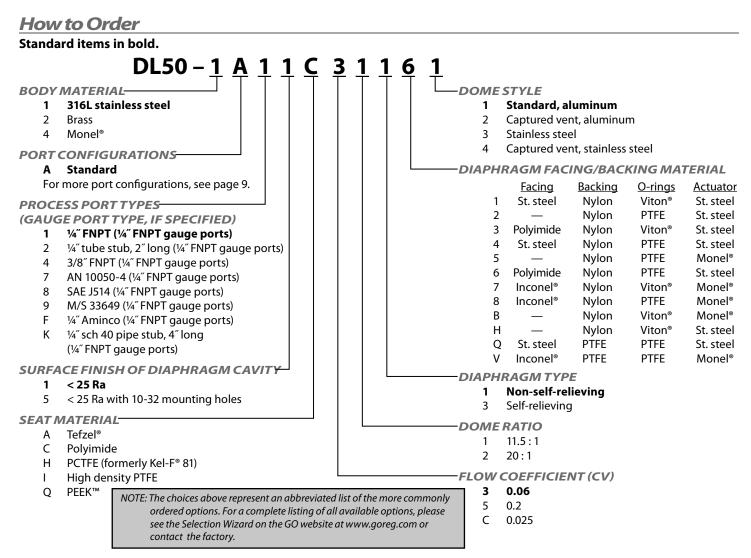
405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303 Phone (864) 574-7966 Fax (864) 574-5608 www.goreg.com • sales@goreg.com Pressure & Vacuum

AS AND LIQUID CONTROL TE

evel & Temperature Tube & Fittings HVACR

Custom Services

## **DL-50 Series**



# Maximum Temperature & Operating Inlet Pressures

#### Nylon Diaphragm Backing

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (248 bar)
High density PTFE	150° F (66° C)	@	3600 psig (248 bar)
PCTFE (formerly Kel-F®) 81	175° F (80° C)	@	6000 psig (414 bar)
Polyimide	175° F (80° C)	@	6000 psig (414 bar)
PEEK™	175° F (80° C)	@	6000 psig (414 bar)

#### **PTFE Diaphragm Backing**

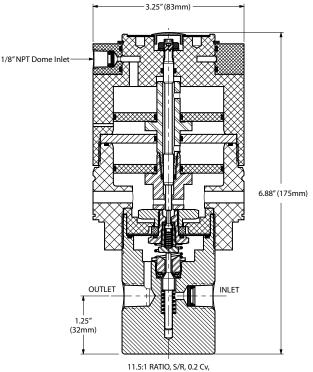
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (248 bar)
High density PTFE	150° F (66° C)	@	3600 psig (248 bar)
PCTFE (formerly Kel-F®) 81	175° F (80° C)	@	6000 psig (414 bar)
Polyimide	350° F (177° C)	@	6000 psig (414 bar)
PEEK™	350° F (177° C)	@	6000 psig (414 bar)

Monel® is a registered trademark of Special Metals Corporation. Tefzel® is a registered trademark of the DuPont Company. Kel-F® is a registered trademark of 3M Company. PEEK™ is a trademark of Victrex PLC. Viton® is a registered trademark of DuPont Dow Elastomers.

2 GO Regulator Dome-loaded Pressure Regulators

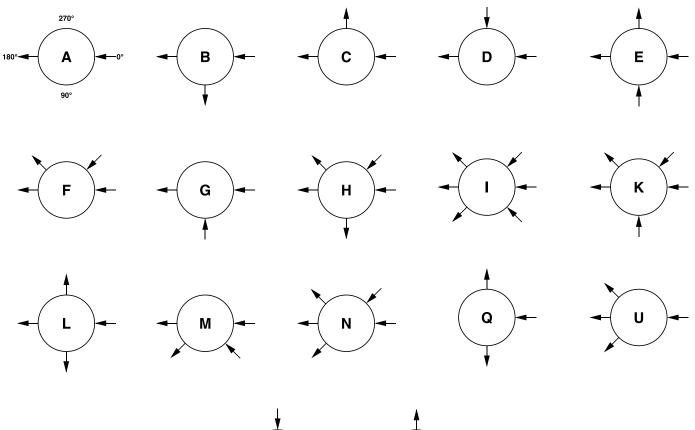
## **Outline and Mounting Dimensions**

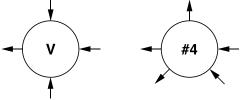
Weight = 5.1 lbs (2.31 kg)



11.5:1 RATIO, S/R, 0.2 Cv, STANDARD DOME MATERIAL

## Porting Configurations for Dome-loaded Pressure Regulators





LOCATION OF PORTS FROM TOP VIEW

