

GOREGULATOR

DL-50

Dome Loaded Pressure Regulator

The DL-50 is a compact and robust design which employs a unique "Dual Piston" set up that enables the users to control pressures up to 6,000 psig with as little as 100 psig 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 of an anodized aluminum (316 stainless steel optional) dome unit. The inlet ring to the dome is freely rotating and captured by a high tensile snap ring. This feature allows easy positioning and alignment of the dome gas line within a customer's system while maintaining excellent leak integrity.

Features & Specifications Applications

- · Gas or liquid service
- 316L stainless steel construction; brass and Monel optional
- Better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- · Bubble tight shutoff
- Dome ratios 11.5:1, 20:1
- Inlet/outlet ports 1/4" FNPT (Standard)
- · Diaphragm type sensing
- · Remote dome loading
- C_v flow coefficients: 0.025, 0.06, 0.2
- Outlet pressures upto 2000 psig

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

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How to Order

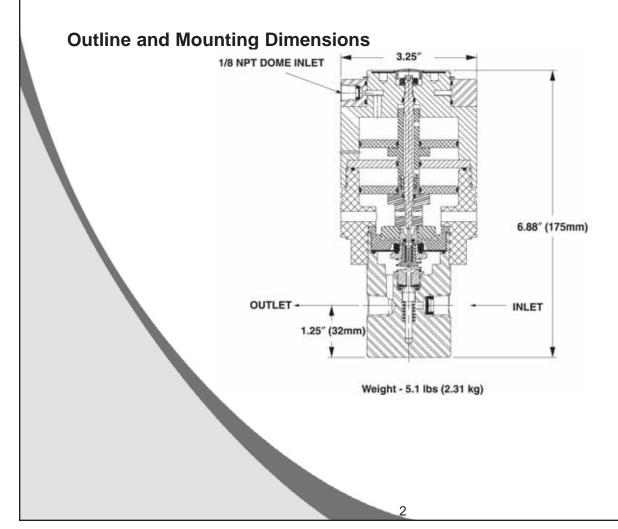
See page 3 for standard configurations. For additional configurations, consult factory. See page 4 for port locations.

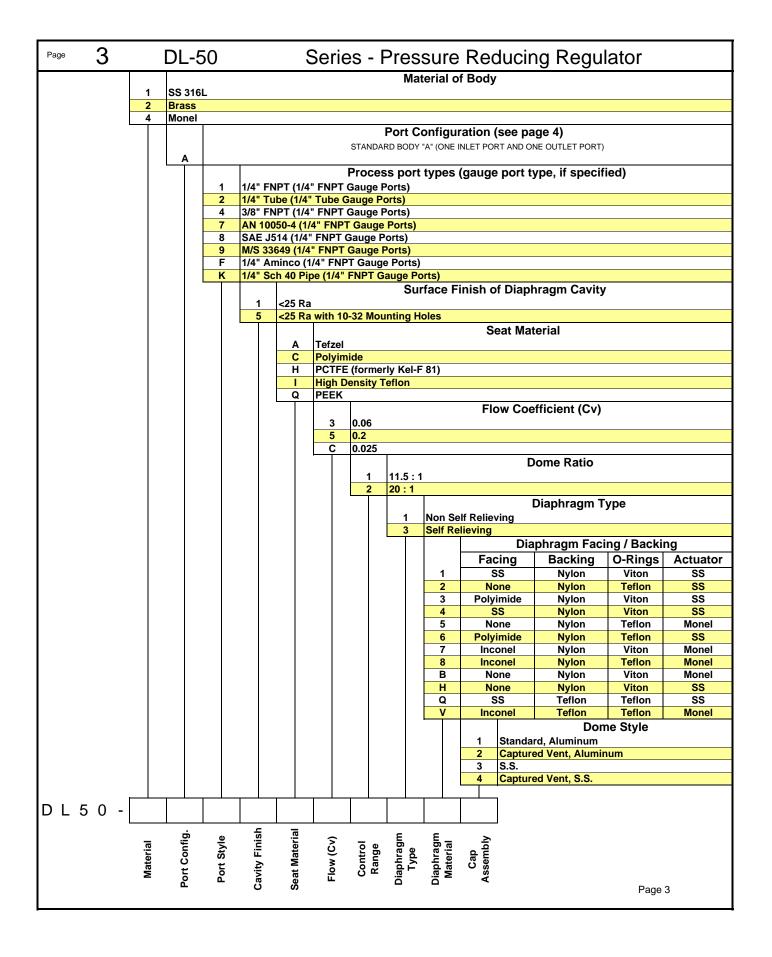
Maximum Temperature & Operating Inlet Pressures

Nylon Diaphragm Backing				
Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure	
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)	
High Density Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)	
PCTFE (Formerly Kel-F-81)	175° F (80° C)	@	6000 psig (41.37 MPa)	
Polyimide	175° F (80° C)	@	6000 psig (41.37 MPa)	
PEEK	175° F (80° C)	@	6000 psig (41.37 MPa)	

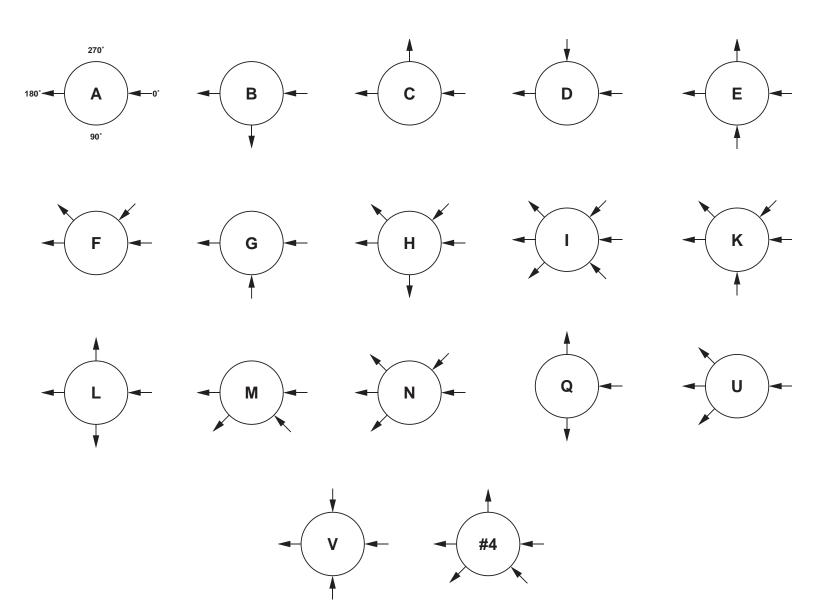
Teflon Diaphragm Backing				
Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure	
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)	
High Density Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)	
PCTFE (Formerly Kel-F-81)	175° F (80° C)	@	6000 psig (41.37 MPa)	
Polyimide	350° F (177° C)	@	6000 psig (41.37 MPa)	
PEEK	350° F (177° C)	@	6000 psig (41.37 MPa)	

Tefzel® and Teflon® are registered trademarks of Dupont.





SINGLE STAGE PRESSURE REDUCING & BACK PRESSURE PORTING CONFIGURATIONS



ARROW POINTING TOWARD BODY IS INLET ARROW POINTING AWAY FROM BODY IS OUTLET