GO_{REGULATOR}, INC.

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 of a 316 stainless steel 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.



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Typical Applications

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

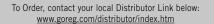
Technical Data

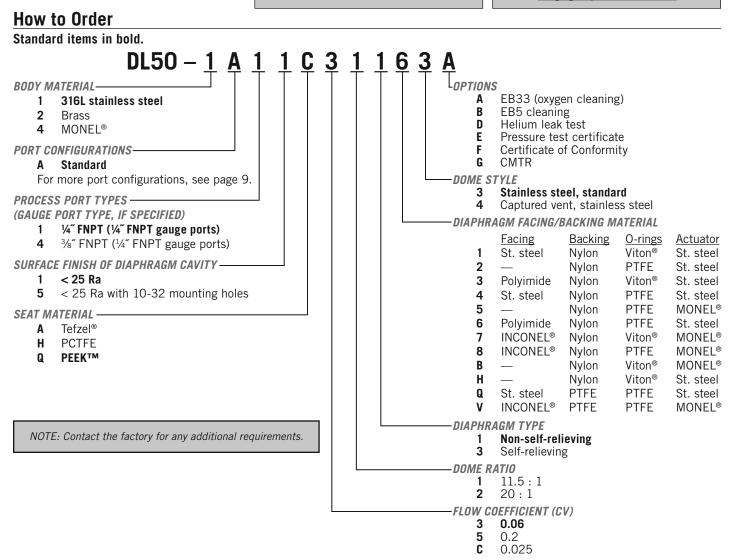
CONSTRUCTION	316L stainless steel construction (Brass and MONEL® optional)			
DOME RATIOS	11.5 : 1, 20 : 1			
INLET/OUTLET PORTS	¹ /4" FNPT (standard)			
OUTLET PRESSURE	up to 2000 psig (138 bar)			
Cv COEFFICIENTS	0.025, 0.06, 0.2			

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

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)
PCTFE	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)
PCTFE	175° F (80° 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.

Outline and Mounting Dimensions

Weight = 5.1 lbs (2.31kg)

