

## 2500DLB SERIES

Dome Loaded, Bias Spring, Diaphragm Sensed  
Pressure Reducing Regulators



Premier 2500DLB Series dome loaded/bias spring, single stage, diaphragm sensed, pressure reducing regulators, are rated for inlet pressure up to 3000 PSIG (206.84 bar), load pressures up to 500 PSIG (34.47 bar), and Cv 0.08 or 0.20. 2500DLB Series regulators are elastomer free and designed for use in tracking applications.

### FEATURES

- Compatible with electro pneumatic controllers
- Elastomer free
- Designed for tracking applications
- 3000 PSIG (206.84 bar) max inlet pressure
- Cv 0.08 or 0.20
- Non-venting

**SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.**  
CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION  
OR A CUSTOM DESIGN.

## SPECIFICATIONS

- **MAXIMUM INLET PRESSURE:**
  - 3000 PSIG (206.84 bar)
- **MAXIMUM LOAD PRESSURE:**
  - 500 PSIG (34.47 bar)
- **PRESET SPRING BIAS:**
  - up to 150 PSIG (10.34 bar)
- **FLOW (Cv):** 0.08, or 0.20

## MATERIALS OF CONSTRUCTION

- **PROCESS WETTED MATERIAL OPTIONS:**
  - 316 Stainless Steel
  - 303 Stainless Steel
  - Monel 405® & Elgiloy®
  - SAE 360 Brass, Nickel Plated  
*(contact factory for pricing)*
- **DIAPHRAGM:**
  - 316 Stainless Steel
- **VALVE SEAT:**
  - PCTFE
- **SEALS:**
  - PTFE
- **OTHER WETTED MATERIALS (DOME SIDE):**
  - 303 Stainless Steel *(for 303 stainless steel process option)*
  - 316 Stainless Steel *(for 316 stainless steel & Monel Process options)*
  - SAE 360 Brass, Nickel Plated *(for SAE 360 Brass nickel plated option)*

## PORTING

- **INLET:**
  - 1/4" FNPT
- **OUTLET:**
  - 1/4" FNPT
- **LOAD PORT:**
  - 1/4" FNPT

## OPTIONS

- Private label
- Gauges

*Monel® is a registered trademark of Special Metals Corporation  
Elgiloy® is a registered trademark of Elgiloy Specialty Metals Division,  
Combined Metals of Chicago L.L.C*

# 2500DLB SERIES

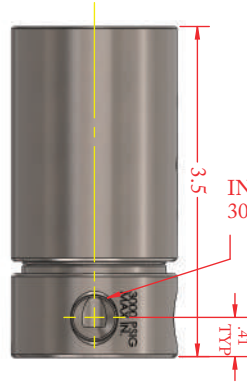
Dome Loaded, Bias Spring, Diaphragm Sensed  
Pressure Reducing Regulators

PART NUMBER 50-12473



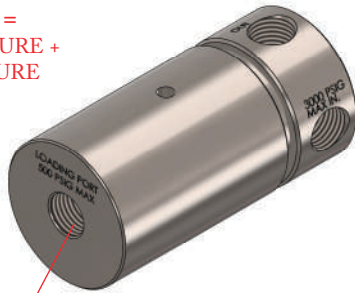
OUTLET PORTS: 1/4-18 FNPT

OUTLET PRESSURE =  
DOME LOAD PRESSURE +  
SPRING BIAS PRESSURE



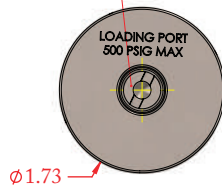
INLET: 1/4-18 FNPT  
3000 PSIG MAX

.41  
TYP



DOME LOADING PORT:  
1/4-18 FNPT, 500 PSIG MAX

SPRING BIAS ADJUSTMENT SCREW  
150 PSIG MAX SPRING BIAS



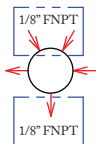


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PART #	-	1	2	3	-	XXX
50-12473	-				-	

1	PROCESS WETTED MATERIALS
1	316 Stainless Steel
2	303 Stainless Steel
3	Monel 405® & Elgiloy®
4	SAE 360 Brass, Nickel Plated <i>(contact factory for pricing)</i>
2	PORTING OPTIONS
1	'A' Porting, no gauges 
2	'C' Porting, no gauges 
3	'T' Porting, no gauges 
3	FLOW COEFFICIENT (Cv)
1	Cv 0.08 max
2	Cv 0.20 max

## XXX PRESET SPRING BIAS

\*\*Preset spring bias pressure at 3000 psig inlet pressure.  
Specify 0-150.  
Pressure units are psig.  
(EX: specify '30' for 30 psig spring bias pressure.)  
Preset spring bias pressure is field adjustable by qualified technicians only.

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*Contact factory for material certifications. Fees may apply.*