



DOME LOADED BIAS SPRING DIAPHRAGM SENSED *Pressure Reducing Regulators*



PREMIER INDUSTRIES

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Minneapolis, MN 55449
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MADE IN THE USA
Minneapolis, MN

DESCRIPTION

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



**DOME LOADED
BIAS SPRING
DIAPHRAGM SENSED**
Pressure Reducing Regulators



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

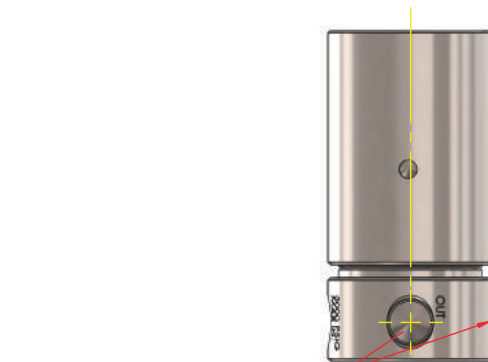
- **PROCESS WETTED MATERIAL OPTIONS:**
 - 316 Stainless Steel
 - 303 Stainless Steel
 - Monel 405® & Elgiloy®
 - SAE 360 Brass, Nickel Plated
- **DIAPHRAGM:**
 - 316 Stainless Steel
- **VALVE SEAT:**
 - PCTFE
- **SEALS:**
 - PTFE
- **OTHER WETTED MATERIALS (DOME SIDE):**
 - 303 Stainless Steel (for 303 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

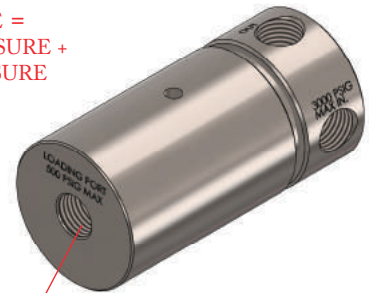
OPTIONS

- Private label
- Gauges



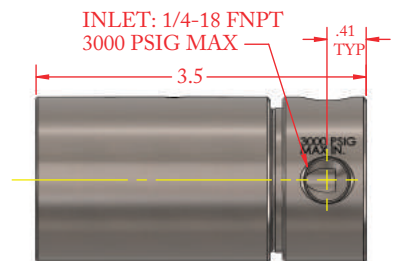
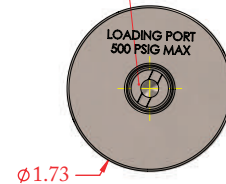
OUTLET PORTS: 1/4-18 FNPT

OUTLET PRESSURE =
DOME LOAD PRESSURE +
SPRING BIAS PRESSURE



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

SPRING BIAS ADJUSTMENT SCREW
150 PSIG MAX SPRING BIAS





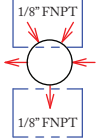
(Part Number: 50-12473 shown above)



**DOME LOADED
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Pressure Reducing Regulators



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
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
<p>**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.</p>	

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

Contact factory for material certifications. Fees may apply.