

2800PDL SERIES

Dome Loaded, High Flow, Piston Sensed
Pressure Reducing Regulators



Premier 2800PDL Series regulators are single stage, high flow, piston sensed regulators with a balanced stem for increased delivery pressure stability. These piston sensed, high flow regulators feature inlet pressures up to 3000 PSIG (206.84 bar), and Cv 2.0. Premier 2800PDL Series regulators feature a 1:1 dome load and max control pressure of 1000 PSIG (68.95 bar). They are used to regulate to a broad range of corrosive and non-corrosive media (*based on materials of construction*).

FEATURES

- Significantly reduced supply pressure effect / increased stability in outlet pressure
- High flow capacity (Cv): 2.0
- Piston sensed
- 1:1 dome load (1000 PSIG / 68.95 bar MAX)
- 3000 PSIG max inlet
- Variety of materials available
- Non-venting
- Machined bar stock body eliminates porosity found in castings
- Very competitive pricing

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 CONTROL PRESSURE:**
 - 1000 PSIG (68.95 bar)
- **DOME LOAD:**
 - 1:1, 1000 PSIG (68.95 bar) max
- **FLOW (Cv):** 2.0

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 6061-T6 Aluminum / Clear Anodized
 - 316 Stainless Steel
 - SAE 360 Brass / Nickel Plated*
 - *Contact factory for pricing*
- **BONNET:**
 - 6061-T6 Aluminum / Clear Anodized
 - 316 Stainless Steel
 - SAE 360 Brass / Nickel Plated
- **PISTON:**
 - 303 Stainless Steel
 - 316 Stainless Steel
- **MAIN VALVE SEAT:**
 - PCTFE
 - PEEK®
- **ELASTOMER SEALS:**
 - Nitrile
 - Viton®
 - EPDM
- **MAIN VALVE PARTS:**
 - 300 series stainless steel
(used in aluminum and brass body options)
 - 316 stainless steel & nitronic 60
(used in 316 stainless steel body option)
- **OPTIONAL PANEL MOUNTING NUT:**
(non-wetted)
 - 6061-T6 Aluminum/Nickel Plated

PORTING

- **INLET OPTIONS:**
 - 1/2" FNPT
 - 3/8" FNPT
 - 3/4" FNPT
- **OUTLET:**
 - 1/2" FNPT
 - 3/8" FNPT
 - 3/4" FNPT
- **GAUGES:**
 - 1/4-18 FNPT

OPTIONS

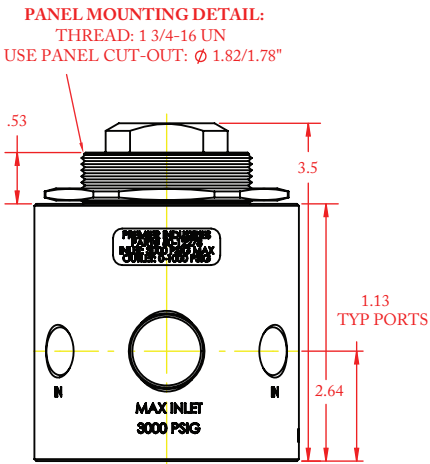
- Panel Mounting Nut(s) (1 or 2) P/N 50-11803
- Gauges & mounting holes (contact Premier)
- Private Label

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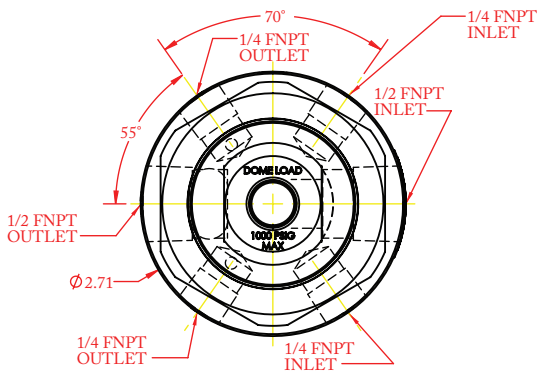
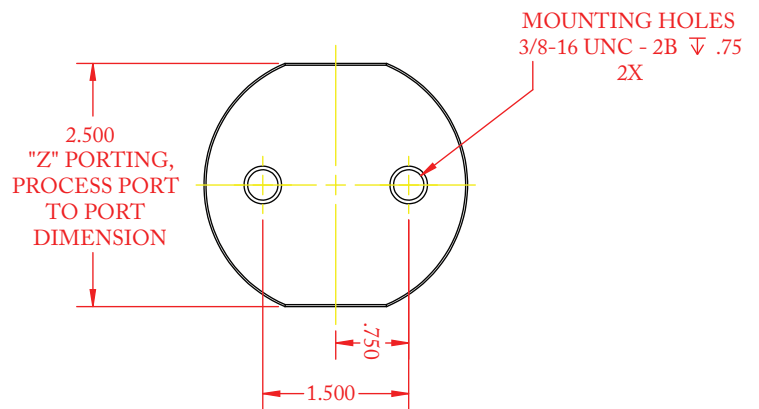
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Contact factory for material certifications. Fees may apply.

PART NUMBER: 50-12278-3XX11A0
SHOWN BELOW

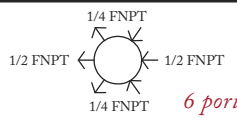
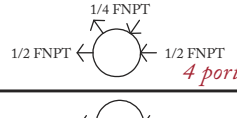
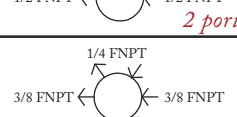
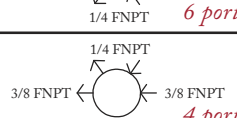
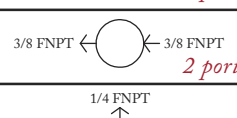
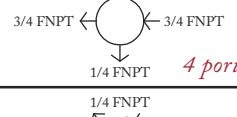
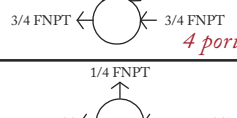
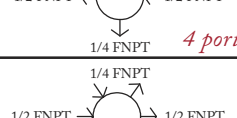
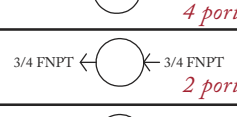
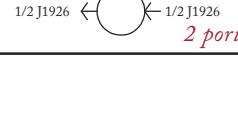




OPTIONAL MOUNTING HOLE AND "Z" PORTING REFERENCE VIEW



PART #	-	1	2	3	4	5	6	7	-	MODS
50-12278	-								-	

1	BODY & BONNET MATERIAL & FINISH
1	6061-T6 Aluminum <i>Clear Anodize</i>
2	316 Stainless Steel <i>Clean per spec #515</i>
3	SAE 360 Brass, <i>Nickel Plated</i> <i>Contact factory for pricing</i>
2	ELASTOMER SEALS
1	Nitrile
2	Viton®
3	EPDM
3	SEAT MATERIAL
1	PCTFE
4	GAUGES
0	None
5	OPTIONAL PANEL MOUNTING NUT(S)
0	None
1	1 mounting nut
2	2 mounting nuts

6	PORTING CONFIGURATION
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
Z	

7	MOUNTING HOLES
0	None
1	Surface mount <i>(See pg 3 for details)</i>
MODIFICATIONS	
BLANK	None
H	Hydrogen gas use <i>(316 SS body/bonnet option only)</i>

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