

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 3600 PSIG (249.2 BAR), and Cv 1.0 or 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): 1.0 or 2.0
- Piston sensed
- 1:1 dome load (1000 PSIG / 68.95 BAR MAX)
- 3600 PSIG / 249.2 BAR 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:**
 - 3600 PSIG / 248.2 BAR (316 SS)
 - 3600 PSIG / 248.2 BAR (ALUMINUM CLEAR ANODIZED)
 - 3000 PSIG / 206.8 BAR (SAE 360 BRASS)
- **DOMELoad:**
 - 1:1, 1000 PSIG (68.95 bar) max
- **FLOW (Cv):** 1.0 or 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
- **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

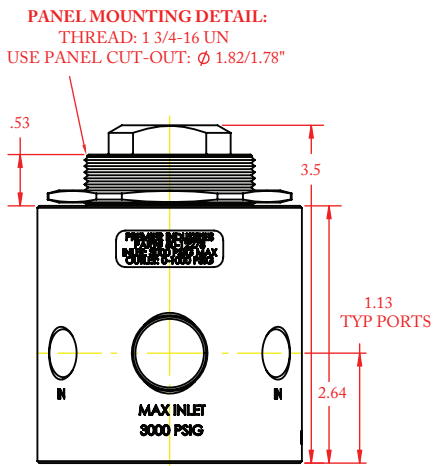
- Panel Mounting Nut(s) (1 or 2) P/N 50-11803
- Gauges & mounting holes (contact Premier)
- Private Label

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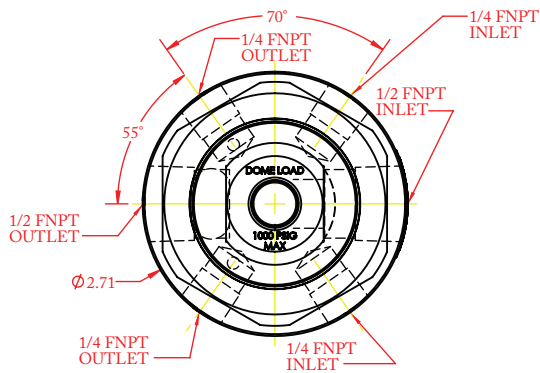
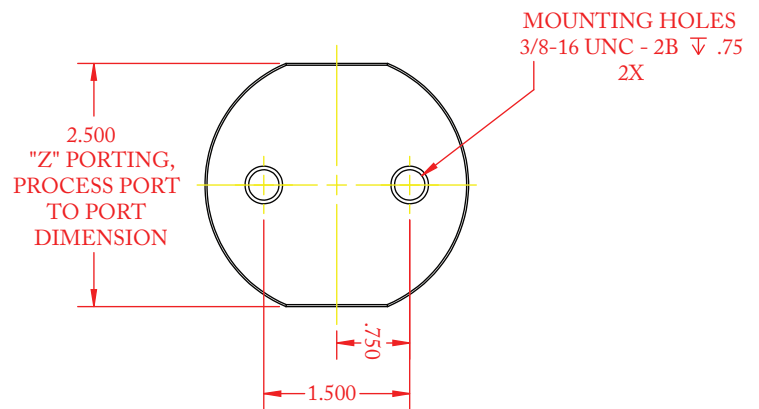
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Contact factory for material certifications. Fees may apply.

PART NUMBER: 50-12278-3XX11A0
SHOWN BELOW



OPTIONAL MOUNTING HOLE AND "Z" PORTING REFERENCE VIEW



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

Cv 2.0 STANDARD

1	BODY & BONNET MATERIAL
1	6061-T6 ALUMINUM <i>CLEAR ANODIZE</i> (3600 PSIG / 248.2 BAR)
2	316 STAINLESS STEEL (3600 PSIG / 248.2 BAR)
3	SAE 360 BRASS, <i>NICKEL PLATED</i> (3000 PSIG / 206.8 BAR) <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	 1/4 FNPT 1/2 FNPT 1/4 FNPT 1/2 FNPT 1/4 FNPT 1/2 FNPT 6 PORT
B	 1/4 FNPT 1/2 FNPT 1/4 FNPT 1/2 FNPT 4 PORT
C	 1/2 FNPT 1/2 FNPT 2 PORT
D	 1/4 FNPT 3/8 FNPT 1/4 FNPT 3/8 FNPT 1/4 FNPT 3/8 FNPT 6 PORT
E	 1/4 FNPT 3/8 FNPT 1/4 FNPT 3/8 FNPT 4 PORT
F	 3/8 FNPT 3/8 FNPT 2 PORT
G	 1/4 FNPT 3/4 FNPT 1/4 FNPT 3/4 FNPT 4 PORT
H	 1/4 FNPT 3/4 FNPT 1/4 FNPT 3/4 FNPT 4 PORT
I	 1/4 FNPT 1/2 FNPT 1/4 FNPT 1/2 FNPT 4 PORT
J	 1/4 FNPT 1/2 FNPT 1/4 FNPT 1/2 FNPT 4 PORT
K	 3/4 FNPT 3/4 FNPT 2 PORT
Z	 1/2 J1926 1/2 J1926 2 PORT

7	MOUNTING HOLES
0	NONE
1	SURFACE MOUNT (SEE PG 3 FOR DETAILS)
MODIFICATIONS	
BLANK	NONE
L	Cv 1.0

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VICTREX PLC

CONTACT FACTORY FOR MATERIAL
CERTIFICATIONS. FEES MAY APPLY.