



DOME LOADED HIGH FLOW, PISTON SENSED *Pressure Reducing Regulators*



PREMIER INDUSTRIES

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Minneapolis, MN 55449
763-786-4020



MADE IN THE USA
Minneapolis, MN

DESCRIPTION

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



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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

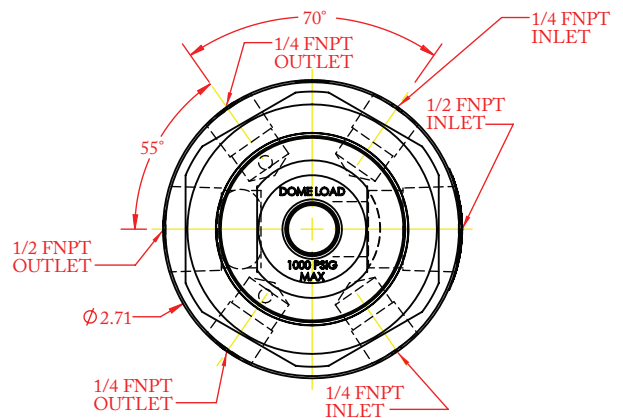
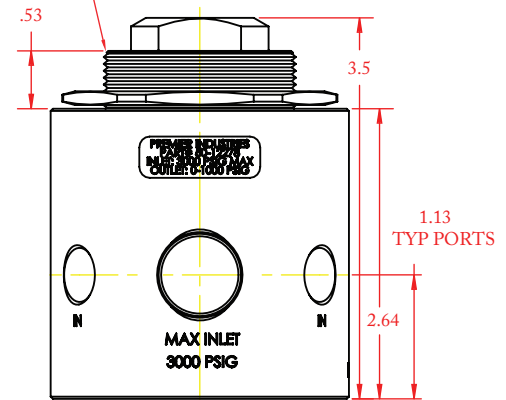
OPTIONS

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

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 6061-T6 Aluminum / Clear Anodized
 - 316 Stainless Steel
 - SAE 360 Brass / Nickel Plated
- **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

PANEL MOUNTING DETAIL:
 THREAD: 1 3/4-16 UN
 USE PANEL CUT-OUT: ϕ 1.82/1.78"



(Part number 50-12278-3XX11A0 shown above)

PORTING

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

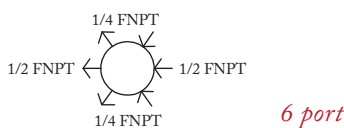
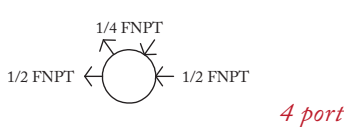
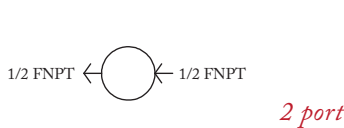
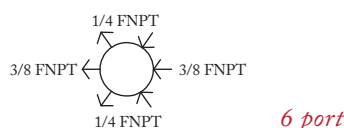
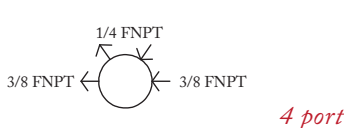
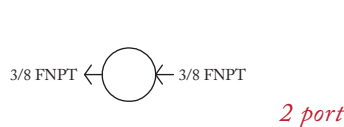


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PART #	-	1	2	3	4	5	6	7
50-12278	-							

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>
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	

7	MOUNTING HOLES
0	None

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 PEEK® is a registered trademark of Victrex PLC
 Contact factory for material certifications. Fees may apply.