

## 2860PDL SERIES

Dome Loaded, High Flow, Captured Venting  
Pressure Reducing Regulators



Premier 2860PDL Series regulators are captured venting, single stage regulators with a balanced stem for increased stability in delivery pressure / significantly reduced supply pressure effect. These piston sensed, high flow regulators are rated for inlet pressures up to 3000 PSIG (*206.84 bar*), and Cv 2.0. Premier 2860PDL Series regulators are used to regulate to a broad range of corrosive and non-corrosive media (based on materials of construction).

### FEATURES

- Captured venting
- Significantly reduced supply pressure effect / increased stability in outlet pressure
- High flow capacity (Cv): 2.0
- Piston sensed
- Variety of materials available
- 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 (206.8 bar)
- **MAXIMUM OUTLET PRESSURE:**
  - 1500 PSIG (103.4 bar)
- **MAXIMUM DOME LOAD:**
  - 1550 PSIG (106.9 bar)\*

*\*An additional 10–40 psig dome load is required to maintain 1:1 outlet:dome ratio*

- **FLOW (Cv):** 2.0

## MATERIALS OF CONSTRUCTION

- **BODY/BONNET/SENSOR OPTIONS:**
  - 6061-T6 Aluminum / Clear Anodized
  - 303 Stainless Steel
  - 316 Stainless Steel
  - SAE 360 Brass
- **MAIN VALVE SEAT:**
  - PCTFE
- **ELASTOMER SEALS:**
  - BUNA-N
  - Viton®
  - EPDM
  - Neoprene
  - Low temperature nitrile
- **MAIN VALVE PARTS:**
  - 300 Series Stainless Steel  
*(used in aluminum, brass, and 303 stainless steel body options)*
  - 316 Stainless Steel and Nitronic 60 wetted alloys  
*(used in 316 stainless steel body option)*

## PORTING

- **PROCESS/VENT PORTS:**
  - 1/2" FNPT
  - 1/4" SAE J1926
  - 1/2" SAE J1926
- **DOME:**
  - 1/4" FNPT
  - 1/4" SAE J1926
- **GAUGE PORTS:**
  - 1/4" FNPT

## OPTIONS

- Gauges
- Private Label
- Panel Mounting Nut

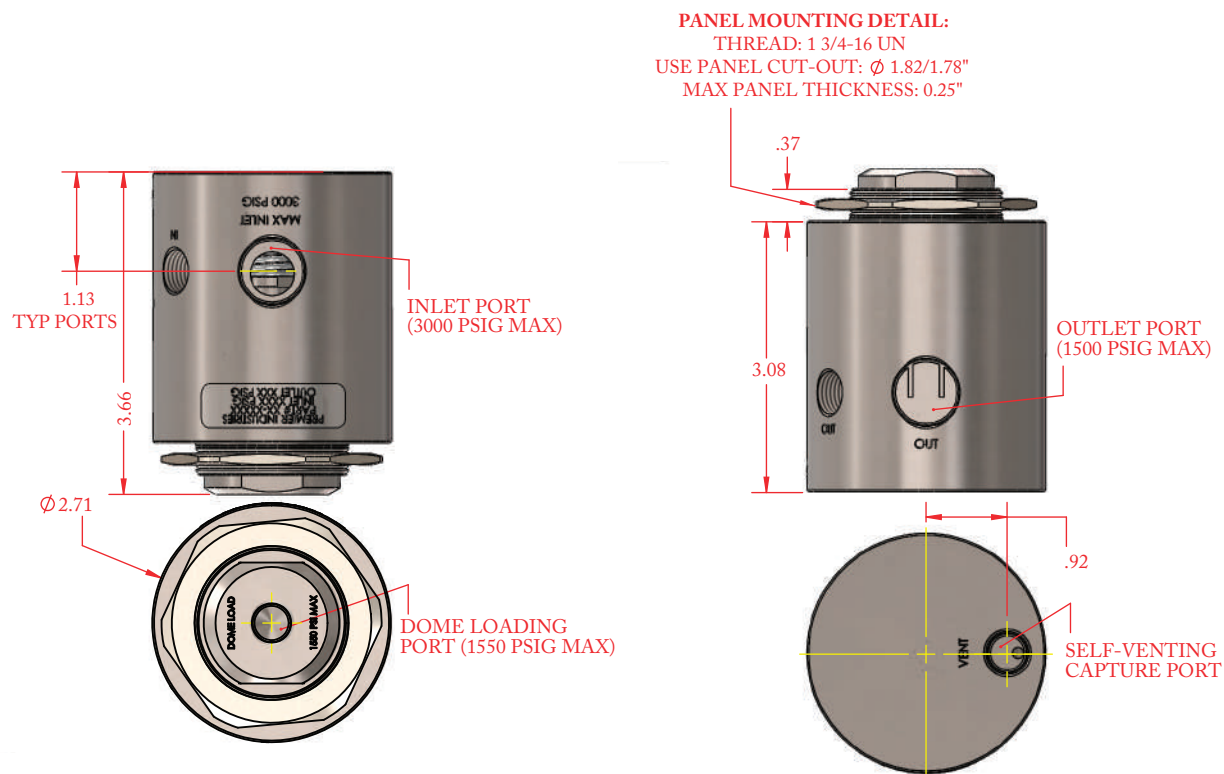
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*Contact factory for material certifications. Fees may apply.*

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PART NUMBER: 50-12732



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| PART #   | - | 1 | 2 | 3 | 4 | - | MODS |
|----------|---|---|---|---|---|---|------|
| 50-12732 | - |   |   |   |   | - |      |

| 1 | BODY/ BONNET/SENSOR MATERIAL                                                        |
|---|-------------------------------------------------------------------------------------|
| 1 | 6061-T6 Aluminum<br><i>Clear Anodized</i>                                           |
| 2 | 303 Stainless Steel                                                                 |
| 3 | 316 Stainless Steel<br><i>Clean per spec #515</i>                                   |
| 4 | SAE 360 Brass<br><i>Clean per spec #515</i>                                         |
| 2 | PORTING CONFIGURATION                                                               |
| 1 |  |
| 2 |  |
| 3 |  |
| 3 | SEAT MATERIAL                                                                       |
| 1 | PCTFE                                                                               |

| 4                                                                             | O-RING MATERIAL            |
|-------------------------------------------------------------------------------|----------------------------|
| 0                                                                             | Buna-N                     |
| 2                                                                             | Viton®                     |
| 5                                                                             | EPDM                       |
| 6                                                                             | Neoprene                   |
| L                                                                             | Low-temp nitrile           |
| MODIFICATIONS                                                                 |                            |
| Blank                                                                         | None                       |
| PN                                                                            | include panel mounting nut |
| H                                                                             | Hydrogen service*          |
| *H' HYDROGEN SERVICE MOD IS ONLY AVAILABLE ON BRASS AND 316 SST BODY OPTIONS. |                            |

Main valve components are 300 Series Stainless Steel for aluminum, brass, and 303 stainless steel body options and 316 Stainless Steel and Nitronic 60 wetted alloys for the 316 stainless steel body option

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