PREMIER INDUSTRIES

# 3000 SERIES

**High Pressure, Piston Sensed**
Pressure Reducing Regulators



The high pressure Premier 3000 Series pressure reducing regulators are single stage, piston sensed, variable delivery, pressure reducing regulators, rated for inlet and outlet pressures up to 10000 PSIG (689.5 bar) and Cv 0.02, 0.06, 0.12, 0.2, or 0.30.

Premier 3000 Series regulators are used to regulate a broad range of non-corrosive and corrosive media (based on materials of construction). They are designed for increased serviceability and reliable operation with the integral 20 micron stainless steel valve cartridge filter. Premier 3000 Series regulators can be supplied with a wide range of inlet and outlet configurations for smooth integration into your desired application.

## FEATURES

- Self-venting with adjustable bonnet vent valve
- Non-venting and captured venting options available
- 20 micron sintered 316 stainless steel inlet filter
- Cv 0.02, 0.06, 0.12, 0.2, or 0.30
- Optional tamper resistant acorn nut
- Multiple mounting options (bracket/panel nuts/surface mount)
- Machined bar stock body, bonnet and piston eliminates porosity found in casting

**SOME APPLICATIONS WILL REQUIRE A CUSTOM SOLUTION.**
*CONTACT PREMIER INDUSTRIES TO REQUEST A MODIFICATION OR A CUSTOM DESIGN.*

# 3000 SERIES

**High Pressure, Piston Sensed**
Pressure Reducing Regulators

## SPECIFICATIONS

- **MAX. INLET PRESSURE (BRASS):**
  - 6000 PSIG *(413.7 BAR)*
- **MAX. INLET PRESSURE (316 SS):**
  - 10000 PSIG *(689.5 BAR)*
- **OUTLET PRESSURE RANGES:**
  *(DEPENDENT UPON CONFIGURATION. SEE TABLES ON PAGES 4, 5, AND 6)*
  - 0-200 PSIG *(0-13.8 BAR)*
  - 0-300 PSIG *(0-20.7 BAR)*
  - 0-400 PSIG *(0-27.6 BAR)*
  - 0-500 PSIG *(0-34.5 BAR)*
  - 0-800 PSIG *(0-55.2 BAR)*
  - 10-1000 PSIG *(0.69-68.9 BAR)*
  - 10-1500 PSIG *(0.69-103.4 BAR)*
  - 15-2500 PSIG *(1.0-172.4 BAR)*
  - 25-4000 PSIG *(1.7-275.8 BAR)*
  - 50-6000 PSIG *(3.4-413.7 BAR)*
  - 100-10000 PSIG *(6.9-689.5 BAR)*
- **FLOW (CV):** 0.02, 0.06, 0.12, 0.2, OR 0.30
  *DEPENDENT UPON CONFIGURATION SEE TABLES ON PAGES 4, 5, AND 6)*

## MATERIALS OF CONSTRUCTION

- **BODY OPTIONS:**
  - SAE 360 BRASS
  - 316 STAINLESS STEEL
- **BONNET OPTIONS:**
  - SAE 360 BRASS
  - 17-4 STAINLESS STEEL
  - 316 STAINLESS STEEL *(P/N: 30-10000 ONLY)*
- **WETTED, OTHER:**
  - 316 STAINLESS STEEL
  - 17-4 STAINLESS STEEL
- **SEAL OPTIONS:**
  - VITON-A®
  - BUNA-N
  - EPDM
  - FFKM
  - *OTHER COMPOUNDS AVAILABLE UPON REQUEST*
- **BACK-UP RINGS:** PTFE & PCTFE
- **LUBRICANT:** KRYTOX® GPL 206 *(STANDARD)*
  - KRYTOX® 240AC *(OPTIONAL)*
- **VALVE SEAT OPTIONS:**
  - VESPEL® *(10000 PSIG MAX INLET)*
  - PEEK® *(6000 PSIG MAX INLET)*
  - PCTFE *(3000 PSIG MAX INLET)*

  *(STANDARD 30-10212 SEAT: VESPEL®)*

## PORTING

- **INLET/OUTLET PORTING:**
  *(DEPENDENT UPON CONFIGURATION. SEE TABLES ON PAGES 4, 5, AND 6)*
- **OPTIONAL GAUGE PORTS:**
  - 1/4" FNPT *(STANDARD)*

## OPTIONS

- GAUGES
- PRIVATE LABEL
- PANEL MOUNTING BRACKET:
  *P/N: 30-10059 (Ø2.15 PANEL CUT-OUT)*
- PANEL MOUNTING NUTS:
  *P/N: 30-10189 (Ø2.28 PANEL CUT-OUT)*
- TAMPER RESISTANT ACORN NUT
  *(P/N: 30-10000, OR 30-10212)*
- CAPTURED VENT PORT MODEL *(P/N: 30-10206)*

*VESPEL® AND VITON-A® ARE REGISTERED TRADEMARKS OF E.I.DUPONT DE NEMOURS AND COMPANY. PEEK® IS A REGISTERED TRADEMARK OF VICTREX PLC*

*KRYTOX® IS A REGISTERED TRADEMARK OF THE CHEMOURS COMPANY FC, LLC.*

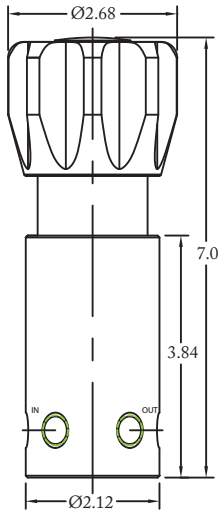
*CONTACT FACTORY FOR MATERIAL CERTIFICATIONS. FEES MAY APPLY.*

PREMIER INDUSTRIES

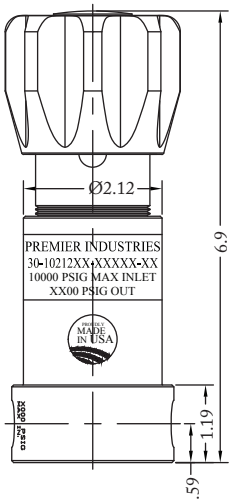
# 3000 SERIES

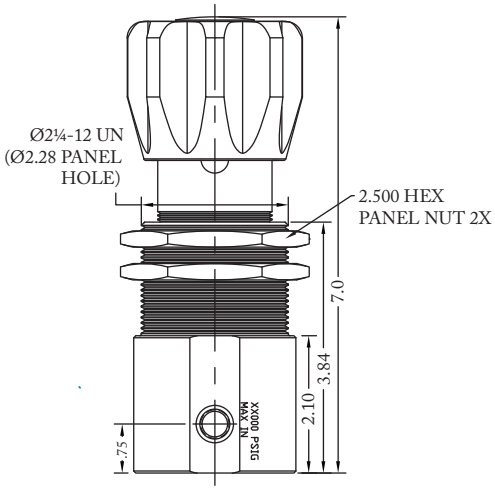
**High Pressure, Piston Sensed**
Pressure Reducing Regulators

## PART NUMBER: 30-10000

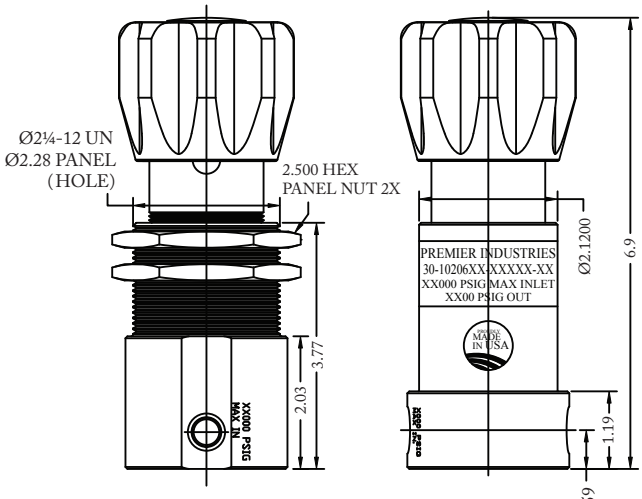


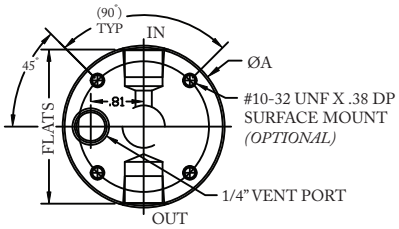

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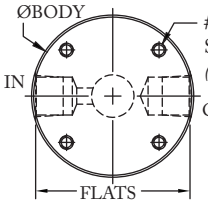



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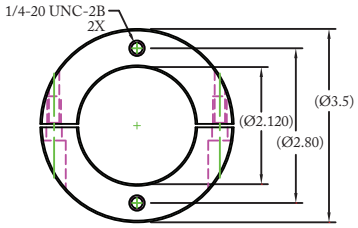




| PORT TYPE | ØBODY | FLATS |
|---|---|---|
| NPT | Ø2.48 | —— |
| 1/4" M.P. & H.P | Ø2.48 | 2.36 |
| 1/4" SAE J1926 | Ø2.73 | 2.52 |
| 1/4" SAE AS5202 | Ø2.98 | 2.81 |
| 3/8" SAE | Ø2.98 | 2.81 |
| 3/8" M.P. & H.P. | Ø2.98 | 2.81 |
| 1/2" SAE | Ø3.23 | 2.98 |
| 9/16" M.P. & H.P. | Ø3.23 | 3.00 |

## PART NUMBER: 30-10059

### OPTIONAL PANEL MOUNTING BRACKET

*(for Ø2.12 body or mounting bracket style regulator body)*



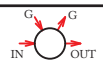
PREMIER INDUSTRIES

# 3000 SERIES

**High Pressure, Piston Sensed**
Pressure Reducing Regulators

| PART # | - | 1 | 2 | 3 | 4 | - | 5 6 | - | 7 | - | MODS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30-10000 | - | | | | | - | | - | | - | |

**SELF-VENTING**
*1/4" FNPT PORTS*

| 1 | BODY/BONNET MATERIALS *(MAX. INLET PRESSURE)* |
|---|---|
| 1 | SAE 360 BRASS BODY & BONNET *(6000 PSIG / 413.7 BAR)* |
| 2 | 316SS BODY, 17-4SS BONNET *(10000 PSIG / 689.5 BAR)* |
| 3 | 316SS BODY & BONNET *(10000 PSIG / 689.5 BAR)* |
| 4 | SAE 360 BRASS BODY & BONNET *(3000 PSIG / 206.8 BAR)* **RATED FOR SELECT CGA FITTINGS* |
| 5 | 316SS BODY, 17-4SS BONNET *(3000 PSIG / 206.8 BAR)* **RATED FOR SELECT CGA FITTINGS* |
| **2** | **PORTING CONFIGURATION** *(1/4 FNPT)* |
| A |   |
| C |   |
| D |   |
| E |   |
| L |   |
| S |   |

*10000 PSIG MAX INLET (STAINLESS STEEL)*
*6000 PSIG MAX INLET (BRASS)*
*THE END USER IS RESPONSIBLE TO ENSURE ADEQUATE FITTINGS ARE USED TO CONNECT REGULATOR TO PLUMBING.*

*VESPEL® AND VITON® ARE REGISTERED TRADEMARKS OF E.I.DUPONT DE NEMOURS AND COMPANY*
*PEEK® IS A REGISTERED TRADEMARK OF VICTREX PLC*
*CONTACT PREMIER FOR MATERIAL CERTIFICATIONS. FEES MAY APPLY.*

| 3 | OUTLET PRESSURE |
|---|---|
| B | 0-300 PSIG *(0-20.7 BAR)* |
| A | 0-400 PSIG *(0-27.6 BAR)* |
| 1 | 0-500 PSIG *(0-34.5 BAR)* |
| 0 | 0-800 PSIG *(0-55.2 BAR)* |
| 2 | 0-1000 PSIG *(0-68.9 BAR)* |
| 3 | 10-1500 PSIG *(0.69-103.4 BAR)* |
| 4 | 15-2500 PSIG *(1.0-172.4 BAR)* |
| 5 | 25-4000 PSIG *(1.7-275.8 BAR)* |
| 6 | 50-6000 PSIG *(3.4-413.7 BAR)* |
| 7 | 100-10000 PSIG *(6.9-689.5 BAR)* *(STAINLESS STEEL ONLY)* |
| **4** | **FLOW (CV)** |
| 0 | CV 0.06 |
| 1 | CV 0.12 |
| 2 | CV 0.20 |

| 5 6 | O-RINGS |
|---|---|
| 00 | BUNA-N |
| 02 | VITON-A® |
| 05 | EPDM |
| 11 | FFKM |
| 12 | NITRILE, LO-TEMP |
| | *CONTACT SALES FOR OTHER OPTIONS* |
| **7** | **VALVE SEAT** |
| 0 | VESPEL® *(10000 PSIG MAX INLET)* |
| 1 | PEEK® *(10000 PSIG MAX INLET)* |
| 2 | PCTFE *(3000 PSIG MAX INLET)* |

## MODIFICATIONS

*SEPARATE MULTIPLE MODS WITH A DASH.*

| | |
|---|---|
| BLANK | NONE |
| ANT | ACORN NUT |
| AC | KRYTOX 240AC |
| G1 | GAUGES |
| HT | HIGH TEMP |
| NV | NON-VENTING |
| N | NACE MR0175 COMPLIANT |
| WA | WRENCH ADJUST |

PREMIER INDUSTRIES

# 3000 SERIES

**High Pressure, Piston Sensed**
Pressure Reducing Regulators

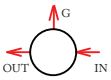
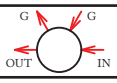
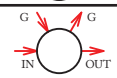
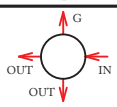
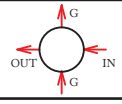
| PART # | 12 | - | 3 | 4 | 5 | 6 | 7 | - | 89 | - | MODS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30-10212 | | - | | | | | | - | | - | |

**SELF-VENTING**
*316 STAINLESS STEEL BODY*
*17-4 STAINLESS STEEL BONNET*
*VESPEL® VALVE SEAT*

| 12 | MOUNTING STYLE |
|---|---|
| MB | MOUNTING BRACKET STYLE BODY |
| PN | PANEL NUT STYLE BODY (PANEL NUTS INCLUDED) |

| 3 | OUTLET PRESSURE |
|---|---|
| C | 0-200 PSIG (0-13.8 BAR) |
| B | 0-300 PSIG (0-20.7 BAR) |
| A | 0-400 PSIG (0-27.6 BAR) |
| 1 | 5-500 PSIG (0.34-34.5 BAR) |
| 2 | 5-800 PSIG (0.34-55.2 BAR) |
| M | 10-1000 PSIG (0.69-68.9 BAR) |
| 3 | 10-1500 PSIG (0.69-103.4 BAR) |
| 4 | 15-2500 PSIG (1.03-172.4 BAR) |
| 5 | 25-4000 PSIG (1.7-275.8 BAR) |
| 6 | 50-6000 PSIG (3.4-413.7 BAR) |
| 7 | 100-10000 PSIG (6.9-689.5 BAR) STAINLESS STEEL ONLY |

| 4 | FLOW (Cv) |
|---|---|
| 0 | Cv 0.06 |
| 1 | Cv 0.12 |
| 2 | Cv 0.2 |
| 3 | Cv 0.3 |

| 5 | PORTING CONFIGURATION |
|---|---|
| A |  |
| C |  |
| D |  |
| E |  |
| L |  |
| S |  |

| 6 | PORT SIZE |
|---|---|
| 4 | 1/4” |
| 6 | 3/8” |
| 8 | 1/2”* |
| 9 | 9/16”** |

*1/2” PORTS NOT AVAILABLE IN MEDIUM/HIGH PRESSURE
**9/16” PORTS ONLY AVAILABLE IN MEDIUM/HIGH PRESSURE

| 7 | PORT TYPE *(IN/OUT)* |
|---|---|
| 1 | FNPT |
| 2 | SAE J1926 |
| 3 | SAE AS5202 |
| 4 | MEDIUM PRESSURE |
| 5 | HIGH PRESSURE |
| 7 | MS33649 |

**GAUGE PORTS:** 1/4” FNPT *(STANDARD)*

| 89 | O-RINGS |
|---|---|
| 00 | BUNA-N |
| 01 | AFLAS® |
| 02 | VITON-A® |
| 05 | EPDM |
| 11 | FFKM |
| 12 | NITRILE, LO-TEMP |
| 13 | NITRILE, XLO-TEMP |

## MODIFICATIONS

*Separate multiple mods with a dash.*

| | |
|---|---|
| BLANK | NONE |
| AC | KRYTOX 240AC LUBRICANT |
| ANT | ACORN NUT |
| B | SAE 360 BRASS BODY/BONNET *6000 PSIG MAX INLET* |
| C6 | 615 CLEAN, CGA-G4.1 (WETTED) |
| KS | PCTFE SEAT (Cv 0.06) |
| NV | NON-VENTING |
| NV-N | NON-VENTING, NACE MR0175 COMPLIANT |
| PK | PEEK® VALVE SEAT |
| PTU | PORT TYPE UNIFORM |
| SM | SURFACE MOUNT *PATTERN DEPENDENT ON PORT TYPE, SIZE, AND CONFIG. - **NOT AVAILABLE ON PANEL MOUNT STYLE BODIES.*** |
| TGF | PTFE 25% GLASS FILL SEAT |

**10000 PSIG MAX INLET (STAINLESS STEEL)**
**6000 PSIG MAX INLET (SAE 360 BRASS)**
THE END USER IS RESPONSIBLE TO ENSURE ADEQUATE FITTINGS ARE USED TO CONNECT REGULATOR TO PLUMBING.

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PREMIER INDUSTRIES

# 3000 SERIES

**High Pressure, Piston Sensed**
Pressure Reducing Regulators

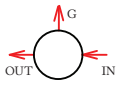
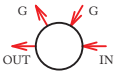
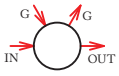
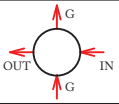
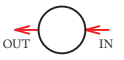
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|---|---|---|---|---|---|---|---|---|---|---|---|
| 30-10206 | | - | | | | | | - | | - | |

**CAPTURED VENTING**
*316 STAINLESS STEEL BODY*
*17-4 STAINLESS STEEL BONNET*
*VESPEL® VALVE SEAT*

| 12 | MOUNTING STYLE |
|---|---|
| MB | MOUNTING BRACKET STYLE |
| PN | PANEL NUT STYLE *(PANEL NUTS INCLUDED)* |

| 3 | OUTLET PRESSURE |
|---|---|
| 0 | 0-200 PSIG (0-13.79 BAR) |
| 1 | 5-500 PSIG (0.34-34.5 BAR) |
| 2 | 5-800 PSIG (0.34-55.2 BAR) |
| 3 | 10-1500 PSIG (0.69-103.4 BAR) |
| 4 | 15-2500 PSIG (1.0-172.4 BAR) |
| 5 | 25-4000 PSIG (1.7-275.8 BAR) |
| 6 | 50-6000 PSIG (3.4-413.7 BAR) |
| 7 | 100-10000 PSIG (6.9-689.5 BAR) (STAINLESS STEEL ONLY) |
| 8 | 20-3000 PSIG (1.38-206.84 BAR) |

| 4 | FLOW (Cv) |
|---|---|
| B | Cv 0.02 |
| 0 | Cv 0.06 |
| 1 | Cv 0.12 |
| 2 | Cv 0.2 |
| 3 | Cv 0.3 |

| 5 | PORTING CONFIGURATION |
|---|---|
| A |   |
| C |   |
| D |   |
| L |   |
| S |   |

| 6 | PORT SIZE |
|---|---|
| 4 | 1/4” |
| 6 | 3/8” |
| 8 | 1/2”* |
| 9 | 9/16”** |

*1/2” PORTS NOT AVAILABLE IN MEDIUM/HIGH PRESSURE
**9/16” PORTS ONLY AVAILABLE IN MEDIUM/HIGH PRESSURE

| 7 | PORT TYPE *(IN/OUT/VENT)* |
|---|---|
| 1 | FNPT |
| 2 | SAE J1926 |
| 3 | SAE AS5202 |
| 4 | MEDIUM PRESSURE |

**GAUGE PORTS:** 1/4” FNPT UNLESS PORT TYPE UNIFORM (PTU) MODIFIER IS SPECIFIED

**VENT PORTS:** 1/4” INLET/OUTLET PORT TYPE

| 89 | O-RINGS |
|---|---|
| 00 | BUNA-N |
| 01 | AFLAS® |
| 02 | VITON-A® |
| 05 | EPDM |
| 11 | FFKM |
| 12 | NITRILE, LO-TEMP |

**MODIFICATIONS**
*Separate multiple mods with a dash.*

| | |
|---|---|
| BLANK | NONE |
| AC | KRYTOX 240AC LUBRICANT |
| ANT | ACORN NUT |
| B | SAE 360 BRASS BODY/BONNET *6000 PSIG MAX INLET* |
| N | NON-VENTING, NACE MR0175 COMPLIANT |
| NV | NON-VENTING |
| PK | PEEK VALVE SEAT |
| PTU | PORT TYPE UNIFORM |
| SM | SURFACE MOUNT PATTERN DEPENDENT ON PORT TYPE, SIZE, AND CONFIGURATION **NOT AVAILABLE ON PANEL MOUNT STYLE BODIES** |
| G1 | GAUGES |

**10000 PSIG MAX INLET (STAINLESS STEEL)**
**6000 PSIG MAX INLET (SAE 360 BRASS)**
THE END USER IS RESPONSIBLE TO ENSURE ADEQUATE FITTINGS ARE USED TO CONNECT REGULATOR TO PLUMBING.

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