

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 0.06, 0.12, or 0.2.

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 15 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
- 15 micron sintered 316 stainless steel inlet filter
- Cv 0.06, 0.12, or 0.2
- 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.

SPECIFICATIONS

- **MAXIMUM INLET PRESSURE (brass):**
 - 6000 PSIG (413.7 bar)
- **MAXIMUM INLET PRESSURE (SS):**
 - 10000 PSIG (689.5 bar)
- **CONTROL PRESSURE RANGES:**
 - 5-300 PSIG (0.35-20.7 Bar)
 - 5-400 PSIG (0.35-27.6 Bar)
 - 5-500 PSIG (0.35-34.5 Bar)
 - 5-800 PSIG (0.35-55.2 Bar)
 - 5-1000 PSIG (0.35-68.9 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):** 0.06, 0.12, or 0.2

MATERIALS OF CONSTRUCTION

- **BODY OPTIONS:**
 - SAE 360 brass
 - 316 Stainless Steel
- **BONNET OPTIONS:**
 - SAE 360 brass
 - 17-4 Stainless Steel
 - 316 Stainless Steel
- **WETTED, OTHER:**
 - 316 Stainless Steel
 - 17-4 Stainless Steel
- **SEAL OPTIONS:**
 - Viton-A®
 - Buna-N
 - EPDM
 - Kalrez (Contact factory for Kalrez® pricing)
 - Other compounds available upon request
- **BACK-UP RINGS:** PTFE & PCTFE
- **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 PORTING:**
 - 1/4" FNPT (standard)
- **OUTLET PORTING:**
 - 1/4" FNPT (standard)

See the table on page 4 for other porting options (P/N 30-10212)

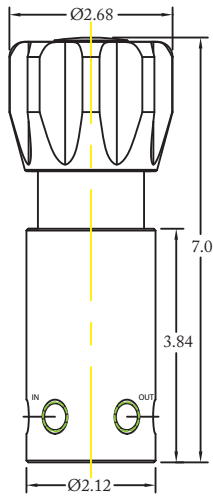
OPTIONS

- Gauges
- Private label
- Panel mounting bracket: P/N: 30-10059 (Ø2.15 panel hole)
- Panel mounting nuts: P/N: 30-10189 (Ø2.28 panel hole)
- Tamper resistant acorn nut (P/N: 30-10000, or 30-10212)
- Captured vent port model (P/N: 30-10206)

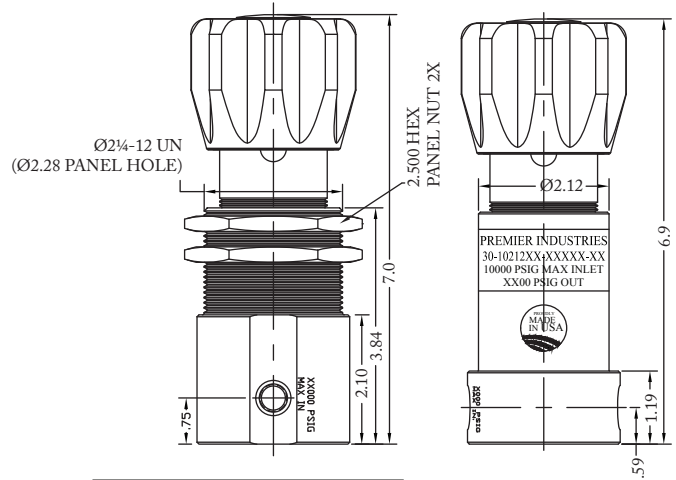
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Contact factory for material certifications. Fees may apply.

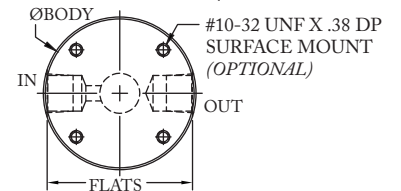
PART NUMBER: 30-10000



PART NUMBER: 30-10212



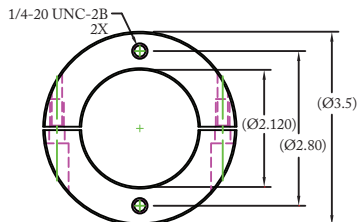
| PORT TYPE | ØBODY | FLATS |
|-------------------|-------|-------|
| NPT | Ø2.48 | — |
| 1/4" M.P. & H.P. | Ø2.48 | 2.36 |
| 1/4" SAE J1926 | Ø2.73 | 2.52 |
| 1/4" SAE AS5202 | Ø2.98 | 2.81 |
| 3/8" SAE | Ø2.98 | 2.81 |
| 3/8" M.P. & H.P. | Ø2.98 | 2.81 |
| 1/2" SAE | Ø3.23 | 2.98 |
| 9/16" M.P. & H.P.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








PART NUMBER: 30-10059

OPTIONAL PANEL MOUNTING BRACKET

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



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

| 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) <i>*Rated for select CGA fittings</i> |
| 5 | 316SS Body, 17-4SS Bonnet (3000 PSIG / 206.8 Bar) <i>*Rated for select CGA fittings</i> |
| 2 | PORTING CONFIGURATION (1/4 FNPT) |
| C |  |
| S |  |
| E |  |
| D |  |
| A |  |

| 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 0.2 |

| 5 6 | O-RINGS |
|--|--|
| 00 | BUNA-N |
| 02 | VITON-A® |
| 05 | EPDM |
| 11 | KALREZ® <i>(Contact factory for pricing)</i> |
| 12 | NITRILE, LO-TEMP |
| <i>(Consult factory for other options)</i> | |
| 7 | VALVE SEAT |
| 0 | VESPEL® (10000 psig max inlet) |
| 1 | PEEK® (6000 psig max inlet) |
| 2 | PCTFE (3000 psig max inlet) <i>(Contact factory for pricing)</i> |
| MODIFICATIONS | |
| <i>Separate multiple mods with a dash.</i> | |
| Blank | None |
| G1 | Gauges |
| NV | Non-venting |
| ANT | Acorn nut |
| NV-N | Non-venting, NACE MR0175 compliant |

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.

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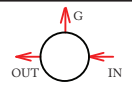
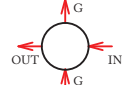
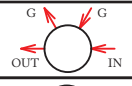
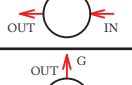

PEEK® is a registered trademark of Victrex PLC

Contact factory for material certifications. Fees may apply.

| PART # | 1 | 2 | - | 3 | 4 | 5 | 6 | 7 | - | 8 | 9 | - | MODS |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|------|
| 30-10212 | | | - | | | | | | - | | | - | |

Standard: 316 Stainless Steel body & 17-4 Stainless Steel Bonnet with a Vespel® valve seat

| 1 2 | MOUNTING STYLE |
|-----|---|
| MB | Mounting bracket Style body |
| PN | Panel nut style body (panel nuts included) |
| 3 | OUTLET PRESSURE |
| 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) |
| 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 0.2 |

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

| 8 9 | O-RINGS |
|--|---|
| 00 | BUNA-N |
| 01 | AFLAS® |
| 02 | VITON-A® |
| 05 | EPDM |
| 11 | KALREZ® <i>(Contact factory for pricing)</i> |
| 12 | NITRILE, LO-TEMP |
| MODIFICATIONS | |
| <i>Separate multiple mods with a dash.</i> | |
| BLANK | None |
| NV | Non-venting |
| B | SAE 360 Brass body & bonnet 6000 psig max |
| NV-N | Non-venting, NACE MR0175 compliant |
| ANT | Acorn nut |
| PTU | Port type uniform |
| SM | Surface mount <i>Pattern dependent on port type, size, & config. - not available on panel mount style bodies</i> |
| PK | PEEK® valve seat (60000 psig max inlet) |

10000 PSIG MAX INLET (SS)
6000 PSIG MAX INLET (brass)
The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing.

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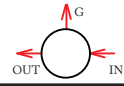
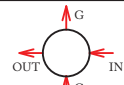
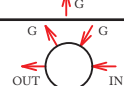

Contact factory for material certifications.
Fees may apply.

| PART # | 1 | 2 | - | 3 | 4 | 5 | 6 | 7 | - | 8 | 9 | - | MODS |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|------|
| 30-10206 | | | - | | | | | | - | | | - | |

CAPTURED VENTING

Standard: 316 stainless steel body and 17-4 stainless steel bonnet with a Vespel® valve seat

| 1 2 | MOUNTING STYLE |
|-----------|--|
| MB | Mounting bracket style body |
| PN | Panel nut style body <i>(panel nuts included)</i> |
| 3 | OUTLET PRESSURE |
| A | 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) <i>(stainless steel only)</i> |
| 8 | 20-3000 PSIG (1.38-206.84 Bar) |
| 4 | FLOW (Cv) |
| 0 | Cv 0.06 |
| 1 | Cv 0.12 |
| 2 | Cv 0.2 |

| 5 | PORTING CONFIGURATION |
|---|---|
| A |  |
| L |  |
| C |  |
| S |  |
| 6 | PORT SIZE |
| 4 | 1/4" |
| 6 | 3/8" |
| 8 | 1/2"* |
| 9 | 9/16"** |
| <p>*1/2" ports not available in medium & high pressure **9/16" ports only available in medium & high pressure</p> | |
| 7 | PORT TYPE (IN/OUT/VENT) |
| 1 | FNPT |
| 2 | SAE J1926 |
| 3 | SAE AS5202 |
| 4 | MEDIUM PRESSURE |
| <p>Gauge ports: 1/4" FNPT unless port type uniform (PTU) modifier is specified</p> | |

| 8 9 | O-RINGS |
|--|---|
| 00 | BUNA-N |
| 01 | AFLAS® |
| 02 | VITON-A® |
| 05 | EPDM |
| 11 | KALREZ® <i>(Contact factory for pricing)</i> |
| 12 | NITRILE, LO-TEMP |
| MODIFICATIONS | |
| <i>Separate multiple mods with a dash.</i> | |
| BLANK | None |
| B | SAE 360 Brass, body & bonnet 6000 psig max |
| N | NACE MR0175 compliant |
| ANT | Acorn nut |
| PTU | Port type uniform |
| SM | Surface mount <i>Pattern dependent on port type, size, & config. - not available on panel mount style bodies</i> |

10000 PSIG MAX INLET (SS)
6000 PSIG MAX INLET (brass)
The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing.

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