



**HIGH PRESSURE
AIR LOADED
15000 PSIG**
Back Pressure Regulators



PREMIER INDUSTRIES

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Minneapolis, MN 55449
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MADE IN THE USA
Minneapolis, MN

DESCRIPTION

The high pressure, air loaded, Premier 3123AL Series back pressure regulators are single stage, piston sensed regulators, designed for inlet and outlet pressures up to 15000 PSIG (1034.21 bar) and Cv 0.06.

Premier 3123AL Series Regulators are designed for compatibility with electropneumatic controllers, enabling piloted pressure control from an inert gas at low pressures (100 psig / 6.89 bar max air load).

Premier 3123AL Series regulators are used to regulate a broad range of non-corrosive and corrosive media (based on materials of construction).

FEATURES

- Compatible with electro-pneumatic controllers
- 15000 PSIG (1034.21 bar) MAX
- Cv 0.06
- Economical pricing
- Machined bar stock body, bonnet and piston eliminates porosity found in castings



HIGH PRESSURE AIR LOADED 15000 PSIG Back Pressure Regulators



SPECIFICATIONS

- **MAX INLET PRESSURE:**
 - REGULATOR: 15000 PSIG / 1034.21 bar (*stainless steel*)
 - AIR ACTUATOR: 100 PSIG (6.89 bar)
- **CONTROL PRESSURE RANGES:**
 - 300-15000 PSIG (20.68 - 1034.21 bar)
 - Diameter: 0.312"
 - Area: 0.0765 in²
 - Ratio: 164/1**

** 4.0" diameter diaphragm
Diaphragm area: 12.5664 in²

- **FLOW (Cv):** 0.06
- **OPERATING TEMPERATURE:**
 - -15°F/-26°C to 165°F/74°C (BUNA-N)
 - -4°F/-20°C to 165°F/74°C (Viton®)
 - -65°F/-54°C to 165°F/74°C (EPDM)
 - 0°F/-17°C to 165°F/74°C (KALREZ®)
 - 15°F/-9°C to 165°F/74°C (ALFAS)
 - -50°F/-45°C to 165°F/74°C (Nitrile, Low-temp)

MATERIALS OF CONSTRUCTION

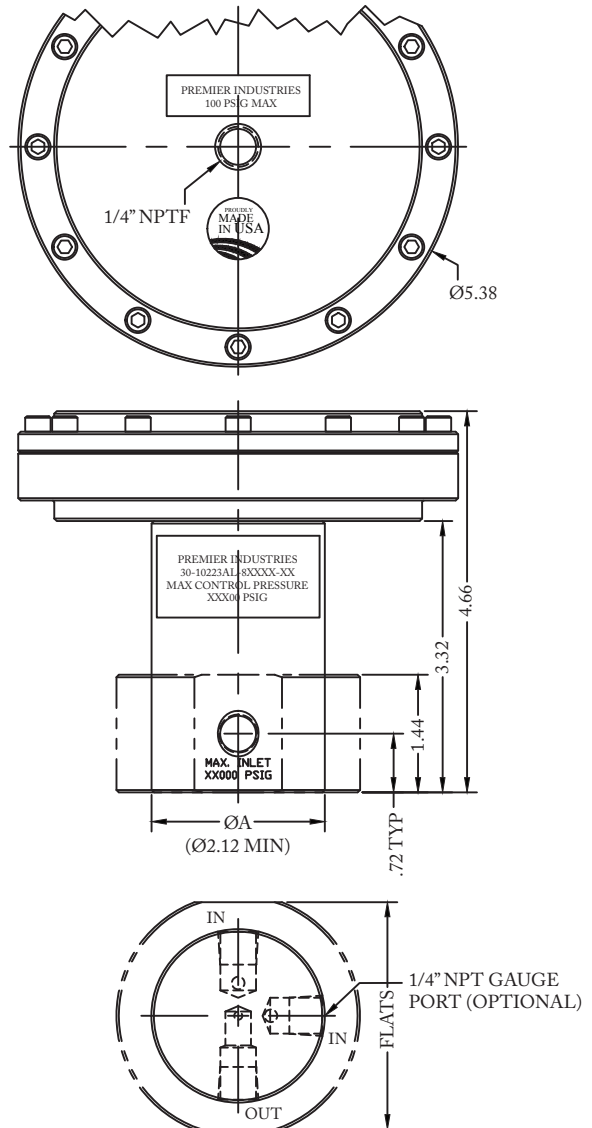
- **BODY OPTIONS :**
 - 316 Stainless Steel
- **HOUSING, AIR ACTUATOR:**
 - 6061-T6 Aluminum, Clear Anodized
- **DIAPHRAGM, AIR ACTUATOR:**
 - Neoprene, nylon reinforced
- **WETTED PARTS, OTHER:**
 - 316 Stainless Steel,
 - 17-4 Stainless Steel
 - PH15-7Mo Stainless Steel
- **O-RING SEALS:**
 - Buna-N
 - Aflas®
 - Viton®
 - EPDM
 - Kalrez®
 - Nitrile, low-temperature
- **BACK-UP RINGS:** PTFE, PCTFE
- **MAIN VALVE SEAT:**
 - Vespel®
 - 17-4 H900 Stainless Steel
 - 316 Stainless Steel
 - PEEK®

PORTING

- **INLET PORTING:**
 - 1/4" FNPT, medium pressure, high pressure
 - 3/8" FNPT, medium pressure, high pressure
 - 9/16" medium pressure
- **OUTLET PORTING:**
 - 1/4" FNPT, medium pressure, high pressure
 - 3/8" FNPT, medium pressure, high pressure
 - 9/16" medium pressure

OPTIONS

- Gauges
- Private label
- Panel mounting bracket: P/N: 30-10059



BODY DIMENSIONS

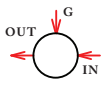
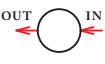
| PORT TYPE | ØA | FLATS |
|---------------|-------|-------|
| 1/4 & 3/8 NPT | Ø2.12 | — |
| 1/4" M.P. | Ø2.12 | 1.98 |
| 1/4" H.P. | Ø2.12 | 1.98 |
| 3/8" M.P. | Ø2.48 | 2.36 |
| 3/8" H.P. | Ø2.98 | 2.78 |
| 9/16" M.P. | Ø2.98 | 2.78 |



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| SERIES | - | 1 | 2 | 3 | 4 | 5 | - | 6 7 |
|------------|---|---|---|---|---|---|---|-----|
| 30-10223AL | - | | | | | | - | |

| 1 | OUTLET PRESSURE |
|--|---|
| 8 | 300-15000 PSIG <i>Diameter: 0.312"</i> 20.68-1034.21 Bar <i>Area: 0.0765 in²</i> (stainless steel only) <i>Ratio: 164/1 **</i> |
| <i>** 4.0" diameter diaphragm Diaphragm area: 12.5664 in²</i> | |
| 2 | PORTING CONFIGURATION |
| H |  |
| S |  |
| 3 | PORT SIZE |
| 4 | 1/4" |
| 6 | 3/8" |
| 9 | 9/16" (Only available in medium pressure) |

| 4 | PORT TYPE <i>(1/4" FNPT gauge port)</i> |
|---|--|
| 1 | FNPT |
| 4 | Medium Pressure |
| 5 | High Pressure |
| 5 | VALVE SEAT |
| 0 | Vespel® |
| 1 | 17-4 H900 Stainless Steel |
| 2 | 316 Stainless Steel |
| 3 | PEEK® |

| 6 7 | O-RINGS |
|-----|-------------------|
| 00 | BUNA-N |
| 01 | AFLAS® |
| 02 | VITON® |
| 05 | EPDM |
| 11 | KALREZ® |
| 12 | Nitrile, Low-temp |

15000 PSIG MAX INLET

The end user is responsible to ensure adequate fittings are used to connect regulator to plumbing.

Kalrez® Vespel® & Viton® are registered trademarks of E.I. duPont de Nemours and Company

AFLAS® is a registered trademark of the Asahi Glass Co., Ltd. PEEK® is a registered trademark of Victrex PLC

Contact factory for material certifications. Fees may apply.