



DIAPHRAGM SENSED GAS CARTRIDGE COMPATIBLE *Pressure Reducing Regulators*

2310C SERIES

PREMIER INDUSTRIES

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Minneapolis, MN 55449
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MADE IN THE USA

Minneapolis, MN

DESCRIPTION

The 2310C Series regulators are compact, single stage, diaphragm sensed regulators, designed for use with disposable gas cartridges. The 2310C Series features a 303 stainless steel piercing tip, integrated relief valve, and a selection of adapters for various threaded and unthreaded disposable gas cartridges. These regulators are designed to control pressures up to 3000 PSIG (206.8 bar), with a flow capacity (Cv) of 0.025. The 2310C is lightweight, economical, and reliable for all your disposable gas cylinder needs.

The Premier 2310C Series pressure reducing regulators are part of a new family of Stable Set Pressure (SSP) regulators at Premier Industries that feature a significantly reduced supply pressure effect. The result: stable delivery pressure as the compressed gas source drains.

FEATURES

- Reduced supply pressure effect when compared with typical single stage regulators
- Specifically designed for use with disposable gas cartridges
- Robust stainless steel piercing tip
- Integrated relief valve
- Compact size
- Very competitive pricing
- Machined bar stock body, and bonnet eliminates porosity found in castings
- Adjusting knob with locking-nut

*The Premier 2310C Series pressure reducing regulator's design is remarkably flexible.
Contact Premier Industries for a custom 2310C Series regulator to meet your exact needs.*



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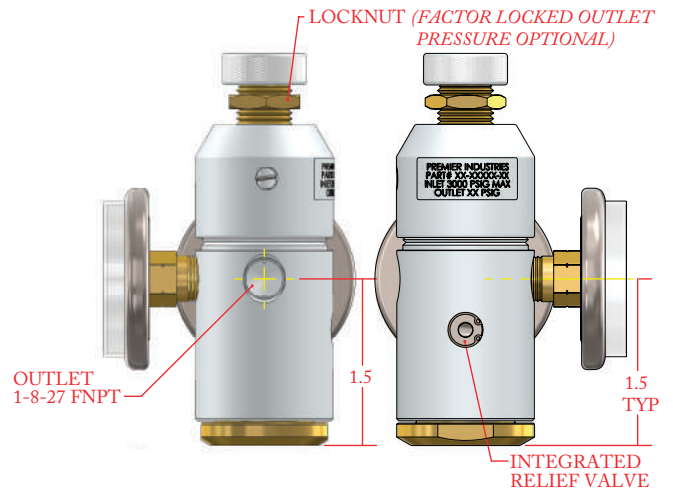
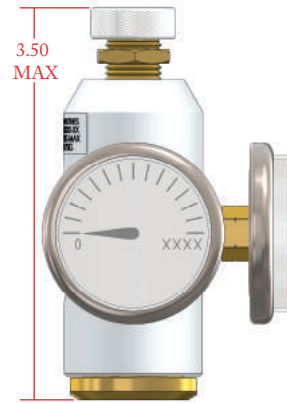


SPECIFICATIONS

- **MAX INLET PRESSURE:** 3000 PSIG (206.8 bar)
- **OUTLET PRESSURE / RELIEF PRESSURE:**
 - 0 - 15 PSIG (0-1.03 bar) / 40 PSIG (2.76 bar)
 - 0 - 30 PSIG (0-2.07 bar) / 60 PSIG (4.14 bar)
 - 0 - 60 PSIG (0-4.14 bar) / 90 PSIG (6.21 bar)
 - Consult factory for other options
- **FLOW CAPACITY (Cv):** 0.025

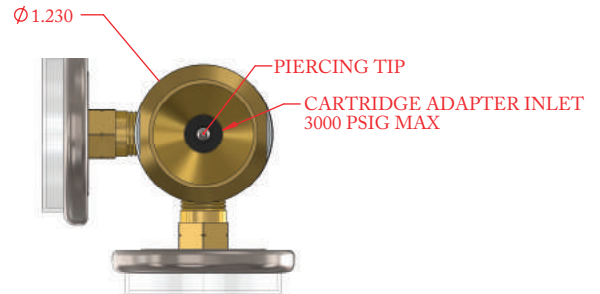
MATERIALS OF CONSTRUCTION

- **BODY & BONNET OPTIONS:**
 - 6061-T6 Aluminum, Clear Anodize
 - SAE 360 Brass, Bright Dip
 - Consult factory for other options
- **PIERCING TIP:** 303 Stainless Steel
- **DIAPHRAGM & O-RING MATERIAL:**
 - Neoprene
 - Viton-A®
 - Consult factory for other options
- **VALVE SEAT:** PFA
(other options available off the shelf)
- **SEAL BACKUP:**
 - PTFE
- **INLET CARTRIDGE ADAPTER:**
 - SAE 360 Brass, Bright Dip
 - 3/8-24 FNPT
 - 7/16-20 FNPT
 - 1/2-20 FNPT
 - 5/8-18 FNPT



PORTING (3 and 4 port options)

- **STANDARD INLET:**
 - **PIERCING TIP FOR:**
 - 3/8-24, 7/16-20, 1/2-20, 5/8-18 threaded cartridges
 - 16g CO₂ unthreaded cartridges
- **OUTLET PORTING:**
 - 1/8-27 FNPT



OPTIONS

- Inlet Gauge (Standard)
(brass socket, stainless steel case)
- Preset outlet pressure with tamper resistant acorn nut *(covering the adjusting screw)* P/N: 50-12179
- Anodized colors for aluminum bodies and bonnets
- Private label

(Part number shown above: 50-12305 - Standard design)



**DIAPHRAGM SENSED
GAS CARTRIDGE COMPATIBLE**
Pressure Reducing Regulators



| PART # | - | 1 | 2 | 3 | 4 | 5 | - | 6 | 7 |
|----------|---|---|---|---|---|---|---|---|---|
| 50-12305 | - | | | | | | - | | |

| 1 | BODY & BONNET MATERIAL & FINISH |
|---|--|
| 1 | 6061-T6 Aluminum <i>Clear Anodize</i> |
| 2 | SAE 360 Brass <i>Bright Dip</i> |
| 2 | INLET CARTRIDGE ADAPTER |
| 1 | 3/8-24 FNPT |
| 2 | 7/16-20 FNPT |
| 3 | 1/2-20 FNPT |
| 4 | 5/8-18 FNPT |
| 3 | OUTLET PRESSURE / RELIEF PRESSURE |
| 1 | 0 - 15 PSIG (0-1.03 bar) / 40 PSIG (2.76 bar) |
| 2 | 0 - 30 PSIG (0-2.07 bar) / 60 PSIG (4.14 bar) |
| 3 | 0 - 60 PSIG (0-4.14 bar) / 90 PSIG (6.21 bar) |

| 4 | DIAPHRAGM & O-RING MATERIAL |
|-------|---|
| 1 | Neoprene |
| 2 | Viton-A® |
| 5 | GAUGES |
| 1 | Inlet gauge (no outlet gauge port) |
| 2 | Inlet & outlet gauge |
| 3 | None (inlet port plugged, no outlet gauge port) |
| 4 | Outlet gauge (inlet port plugged) |
| 6 7 | FACTORY LOCKED OUTLET PRESSURE |
| Blank | loose / unlocked |
| XX | Locked at XX psig outlet pressure. (e.g. 40 is locked at 40 psig out) |