

2310C SERIES

Diaphragm Sensed, Gas Cartridge Compatible
Pressure Reducing Regulators



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 ($\dot{C}_v$) 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

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

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
 - 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
 - 3/8-24 UNF
 - 7/16-20 UNF
 - 1/2-20 UNF
 - 5/8-18 UNF

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

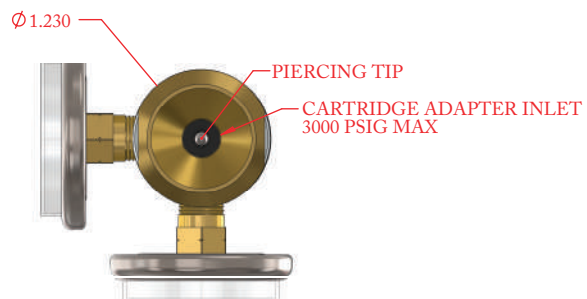
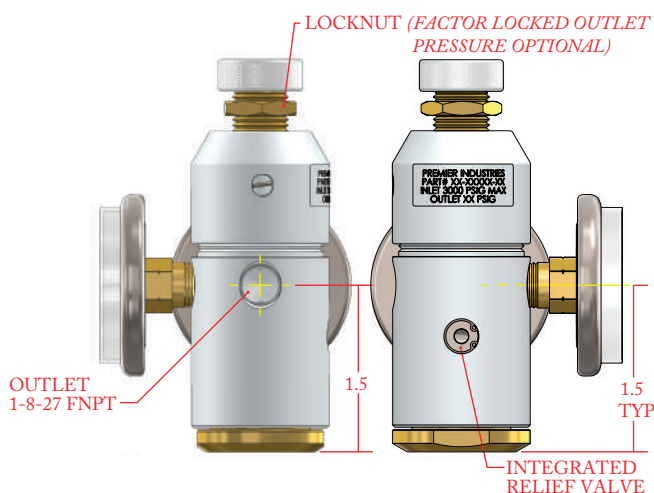
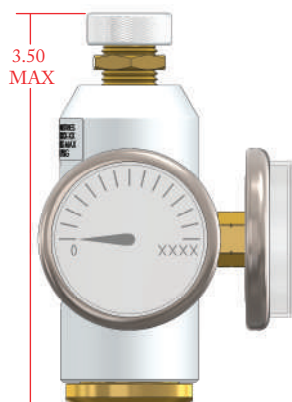
- Inlet Gauge (Standard)
(brass socket, stainless steel case)
- Preset outlet pressure with tamper resistant acorn nut (covering the adjusting screw) P/N: 50-12179
- Anodized colors for aluminum bodies and bonnets
- Private label

Viton-A® is a registered trademark of E.I. duPont de Nemours and Company

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PART NUMBER 50-12305 | *standard design*



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
2	INLET CARTRIDGE ADAPTER
1	3/8-24 UNF
2	7/16-20 UNF
3	1/2-20 UNF
4	5/8-18 UNF
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
X X	Locked at XX psig outlet pressure. (e.g. 40 is locked at 40 psig out)