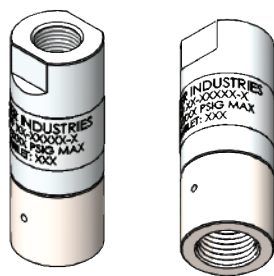


2701C SERIES

Piston Sensed, Gas Cartridge Compatible
Pressure Reducing Regulators



The Premier 2701C Series is a compact, single-stage, piston-sensed pressure reducing regulator designed for disposable gas cartridge applications. It provides dependable pressure control in a lightweight, cost-effective package, with an optional 3/16 in. hose barb outlet configuration for applications requiring flow adjustment.

Rated for inlet pressures up to 3000 PSIG (206.8 bar) and offering a maximum flow coefficient of $C_v = 0.005$, the 2701C is compatible with both compressed gas and liquefied gas cartridges. Typical applications include portable instrumentation, calibration equipment, analytical systems, and other portable devices requiring reliable pressure regulation from disposable gas sources.

FEATURES

- Specifically designed for use with disposable gas cartridges
- Robust stainless steel piercing tip
- 3000 PSIG max inlet pressure
- C_v : 0.005 max.
- Preset flow rates from 0.1 to 9 SLPM available with an optional 3/16 in. hose barb outlet
- Economical compact design
- Machined bar stock body, and bonnet eliminates porosity found in castings

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

2701C SERIES

Piston Sensed, Gas Cartridge Compatible
Pressure Reducing Regulators

SPECIFICATIONS

- **MAX INLET PRESSURE:**
 - 3000 PSIG (206.8 BAR)
- **OUTLET PRESSURE / RELIEF PRESSURE:**
 - 50 PSIG $\pm$ 15 PSIG / 3.45 BAR $\pm$ 1.03 BAR
 - 20 $\pm$ 10 PSIG
 - CONSULT FACTORY FOR OTHER OPTIONS
- **FLOW CAPACITY (C_v):** 0.005

MATERIALS OF CONSTRUCTION

- **BODY:**
 - 303 Stainless Steel
- **BONNET OPTIONS:**
 - Stainless Steel
 - Aluminum Clear Anodize
- **PISTON OPTIONS:**
 - Stainless Steel
 - SAE 360 Brass
- **PIERCING TIP:** 303 Stainless Steel
- **O-RING SEAL OPTIONS:**
 - Buna-N
 - Viton-A®
- **MAIN VALVE SEAT:** PTFE
- **OPTIONAL INLET GAUGE:**
 - Brass plug
 - Stainless Steel plug

PORTING

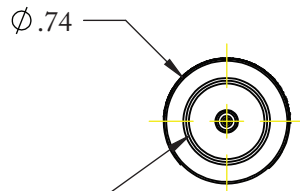
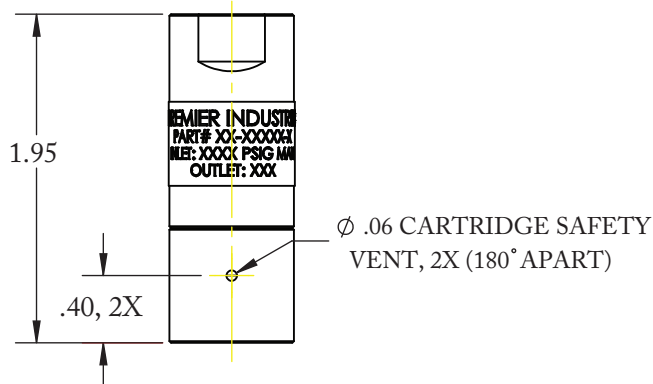
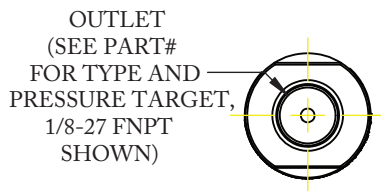
- **STANDARD INLET:**
 - **PIERCING TIP FOR:**
 - 1/2-20, 3/8-24, 5/8-18 threaded cartridges
- **OUTLET PORTING:**
 - 1/8 FNPT
 - 1/8 Tube Connection
 - 3/16 Hose Barb

OPTIONS

- Flow control available with 3/16 hose barb outlet
- Private label

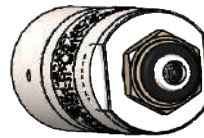
VITON-A® IS A REGISTERED TRADEMARK OF
E.I. DUPONT DE NEMOURS AND COMPANY

PART NUMBER: 50-13431-11-XX-1
SHOWN BELOW

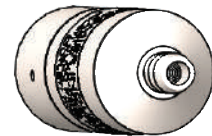


INLET, PIERCING ADAPTER FOR COMPRESSED
GAS OR LIQUIFIED GAS CARTRIDGES, 3000
PSIG MAX (SEE PART# FOR TYPE DETAIL, 1/2-20
UNF-2B SHOWN)

OTHER CONFIGURATION REFERENCE VIEWS:



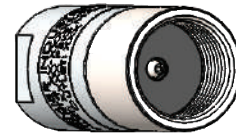
1/8 TUBE CONNECTION
OUTLET REF.



3/16 HOSE BARB WITH INTEGRATED
FLOW CONTROL NEEDLE VALVE

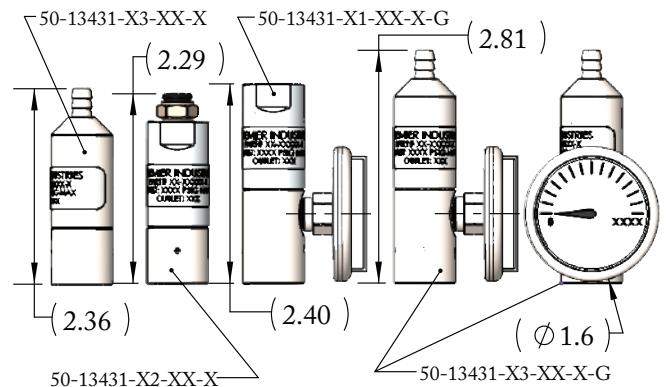


3/8-24 UNF-2B INLET REF.



5/8-18 UNF-2B INLET REF.

OTHER CONFIGURATION LENGTHS (1:2 SCALE)



PART #	-	1	2	3	4	5	-	6 . 7
50-13431	-						-	

1	REGULATOR INLET
1	1/2-20 PIERCING
2	3/8-24 PIERCING
3	5/8-18 PIERCING
2	REGULATOR OUTLET
1	1/8 FNPT
2	1/8 TUBE CONNECTION
3	3/16 HOSE BARB
3	WETTED MATERIAL
1	STAINLESS STEEL, ALUMINUM, SAE 360 BRASS
2	STAINLESS STEEL

4	O-RING MATERIAL
1	BUNA-N
2	VITON-A®
5	OUTLET PRESSURE
1	50 ± 15 PSIG
2	20 ± 10 PSIG
6 . 7	FLOW SETTING (FOR 3/16 HOSE BARB OUTLET OPTION)
X.X	SPECIFY FLOW SETTING IN SLPM, NITROGEN GAS (0.1-9 SLPM RANGE, 0.1 SLPM INCREMENTS, AVAIL. FOR 3/16 HOSE BARB OUTLET OPTION)