

**CALIBRATION GAS,  
INDUSTRIAL HYGIENE, &  
BREATH ALCOHOL MARKETS**

**AMERICAN MADE.  
INNOVATIVE.  
RELIABLE.  
ECONOMICAL.  
PREMIER.**

# CALIBRATION GAS, INDUSTRIAL HYGIENE, & BREATH ALCOHOL MARKETS

You should expect the same accuracy and consistency from the regulators you choose, as you do from the calibration gases you buy. Whether calibrating toxic gas monitors or breath alcohol devices, you want to have confidence in the equipment you are using. Here at Premier Industries, we manufacture and test all our equipment to meet rigid specifications while keeping in mind the specific needs and expectations of our customers.

We offer a wide range of regulators designed specifically for the calibration gas, industrial hygiene, and breath alcohol markets. Our regulators are offered with a variety of materials (with varying weight, strength, degrees of corrosion resistance etc.), flow capacities, and inlet/outlet pressure ranges.

With the flexibility of optional port alignments, port sizes/types, relief and shut off valves etc, Premier regulators provide maximum versatility and compatibility for your unique product application.

Not all systems are the same. "Off the shelf" products may not be acceptable for many applications.

If you do not see a standard Premier model that suits your needs, please contact us; we would be happy to help you with a custom design or modification.

Give us a call at 763.786.4020 or e-mail us at [sales@premierind.us](mailto:sales@premierind.us).

We are excited to work with you.

# SINGLE STAGE PRESSURE REDUCING REGULATORS

2700 SERIES Fixed flow rotary valve	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Rotary shut off valve, with black anodized hand knob</li> <li>Variety of materials and configurations</li> </ul>	1000 psig / 68.9 bar	Fixed, 0.25-9.0 LPM	5/8-18 UNF (C10)  CGA 600  (Contact factory for other options)	3/16" hose barb  (Contact factory for other options)
2700 SERIES Fixed flow trigger valve	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Trigger valve actuates flow (bump testing and calibration tests) and can be locked in the "on" position for continuous flow</li> </ul>	1000 psig / 68.9 bar	Fixed, 0.25-2.5 LPM	5/8-18 UNF (C10)  CGA 600  (Contact factory for other options)	OD tube with 0.03 orifice
2700 SERIES Fixed flow push button	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Push button shut off valve for easy operation</li> <li>40 micron 316 stainless steel filter</li> <li>Wide variety of materials &amp; configurations</li> </ul>	1000 psig / 68.9 bar	Fixed, 1.5 LPM  ± 0.5 LPM	5/8-18 UNF (C10)  (Contact factory for other options)	1/8" hose barb
2700 SERIES Fixed flow slide valve	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Slide valve</li> <li>40 micron 316 stainless steel filter</li> </ul>	1000 psig / 68.9 bar	Fixed, 0.1-6.0 LPM	5/8-18 UNF (C10)  CGA 600	1/8" hose barb  3/16" hose barb

# SINGLE STAGE PRESSURE REDUCING REGULATORS

2700 SERIES Fixed flow, solenoid	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Solenoid outlet control</li> <li>40 micron 316 stainless steel filter</li> </ul>	1000 psig / 68.9 bar	Fixed, 0.3, 0.7, 0.8 LPM  ± 0.1 LPM	5/8-18 UNF (C10)	1/8" FNPT with 3/16" hose barb  (Contact factory for other options)
2701 SERIES Miniature, Fixed flow	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Small, compact, economical</li> <li>Rotary shut off valve is designed with a PTFE seat for easy shut off</li> <li>Variety of shut off options</li> <li>Flows are set with a unique integrated flow adjustment valve prior to shipment</li> </ul>	3000 psig / 206.84 bar <b>1/4" FNPT</b>  1500 psig / 103.42 bar <b>C10</b>  500 psig / 34.47 bar <b>1/4" FNPT</b>  (dependent upon configuration)	Fixed, 0.1-4.0 LPM	5/8-18 UNF (C10)  1/4" FNPT  1/8" FNPT  Compatible CGA connections available upon request  (Contact factory for other options)	3/16" hose barb  1/4" hose barb  1/8", 1/4" FNPT  1/8", 1/4" MNPT  (Contact factory for other options)
2700E SERIES Economical, Fixed Flow	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Small, compact, economical</li> </ul>	1500 psig / 103.42 bar	Fixed, 0.25-9.0 LPM	5/8-18 UNF (C10)	3/16" hose barb
2700 SERIES Yoke style	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> </ul>	3000 psig / 206.84 bar  (dependent upon configuration)	Preset at 2.0 LPM @ 1800 psig inlet	CGA 930/pin indexed	1/8" FNPT

# SINGLE STAGE PRESSURE REDUCING REGULATORS

2900 SERIES Adjustable flow	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Click stop, 12 position, variable flow settings</li> <li>Integral pressure relief valve</li> <li>Optional two stage design</li> </ul>	3500 psig / 241.3 bar  (dependent upon configuration)	Adjustable 0.3, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 5.0, 6.0, 7.0, 8.0 SLM  (11 optional flow settings)	5/8-18 UNF (C10)  1/8" FNPT  1/4" FNPT  ADAPTERS: CGA adapters C10 adapter	1/8" FNPT  3/16" hose barb  1/4" hose barb
2780 SERIES Micro, Fixed flow	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Fixed flow provides a precise and constant flow at the preset flow rate.</li> <li>Extremely compact &amp; light-weight</li> </ul>	1000 psig / 68.9 bar  (dependent upon configuration)	Fixed, 0.25 - 7.0 LPM  (dependent upon configuration)	C10 (5/8-18 UNF)  CGA 600  #10-32 UNF (Female)	3/16" hose barb  #10-32 UNF (Female)
2790 SERIES Micro, manifold	FEATURES	MAX INLET	FLOW	INLET	
	<ul style="list-style-type: none"> <li>Compact size</li> <li>Designed to drop into a manifold housing, minimizing volume</li> <li>Single stage and two stage designs available</li> </ul>	3000 psig / 206.84 bar  1500 psig / 103.42 bar  (dependent upon configuration)	Cv 0.0025	#8-56 UN	

# TWO STAGE PRESSURE REDUCING REGULATORS

4300S SERIES Two stage	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>• Elgiloy® diaphragm reduces gas contamination and diffusion</li> <li>• Precise, stable delivery, even as the supply pressure decreases</li> <li>• Low internal volume promotes quick gas flow stabilization and purging</li> <li>• Integral inlet filter</li> <li>• Light-weight, compact design</li> <li>• Optional preset outlet pressure (tamper resistant acorn nut)</li> </ul>	3000 psig / 206.84 bar  dependent upon configuration	Cv: 0.04	1/4" FNPT (standard)  5/8-18 UNF (C10)  ADAPTERS: CGA adapters	1/8" FNPT (Standard)  ADAPTERS: 3/16" hose barb 1/8" hose barb 1/4" hose barb
4300N SERIES Two stage	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>• Neoprene diaphragm</li> <li>• Precise, stable delivery, even as the supply pressure decreases</li> <li>• Low internal volume promotes quick gas flow stabilization and purging</li> <li>• Integral inlet filter</li> <li>• Light-weight, compact design</li> <li>• Optional preset outlet pressure (tamper resistant acorn nut)</li> </ul>	3000 psig / 206.84 bar  dependent upon configuration	Cv: 0.04	1/4 FNPT (standard)  5/8-18 UNF (C10)  ADAPTERS: CGA adapters	1/8" FNPT (Standard)  ADAPTERS: 3/16" hose barb 1/8" hose barb 1/4" hose barb
4700 SERIES Two stage, fixed flow	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>• Precise delivery pressure and flow, even as the supply pressure decreases</li> <li>• 40 micron sintered 316 stainless steel integral inlet filter</li> <li>• Optional integrated shut off valve</li> <li>• Optional yoke style design</li> </ul>	3000 psig / 206.84 bar  dependent upon configuration	Factory adjustable preset (fixed) flow settings	5/8-18 UNF (C10)  1/4" FNPT  1/8" FNPT	1/4" hose barb 3/16" hose barb 1/8" MNPT 1/4" FNPT

# DEMAND FLOW REGULATORS

## 4902 SERIES

Demand flow



- Saves calibration gas by only transferring as much gas as demanded by the instrument and shutting off when not in use (no on/off valve needed)
- Unique high flow capability allows multiple analyzers on a single docking station
- Integral relief valve
- 40 micron stainless steel inlet filter

MAX INLET

3000 psig /  
206.84 bar

FLOW

3.0 LPM  
@ 3" H<sub>2</sub>O

INLET

C10 integrated  
1/4" FNPT  
(standard)

1/4 FNPT

1/8 FNPT

ADAPTERS:  
CGA adapters  
C10 adapter

OUTLET

1/8" FNPT  
(Standard)

ADAPTERS:

3/16" hose barb  
(standard)

1/8" hose barb

1/4" hose barb

## 4903 SERIES

Miniature, demand flow



- Compact design
- Saves calibration gas by only transferring as much gas as demanded by the instrument and shutting off when not in use (no on/off valve needed)
- Integral relief valve
- Eliminates the need for sample bags, flow meters, or special operator training

MAX INLET

3000 psig /  
206.84 bar

FLOW

3.0 LPM  
@ 3" H<sub>2</sub>O

INLET

5/8-18 UNF  
(C10)

CGA 600

(Contact factory  
for other options)

OUTLET

1/4" hose barb

3/16" hose barb

# **STABLE SET PRESSURE REGULATORS**

## **A NEW SOLUTION TO REDUCE SUPPLY PRESSURE EFFECT**

Traditional solutions to reduce supply pressure effect require the use of bulky, expensive two stage regulators, or two single stage regulators in series. Premier Industries Stable Set Pressure regulators are offered in a variety of materials, pressure ranges, porting & mounting configurations, and sizes.

Pressure regulators reduce supply pressure effect without the added weight or expense; near two stage performance in a single stage!

## **FEATURES**

SIGNIFICANTLY REDUCE SUPPLY PRESSURE EFFECT.

COST LESS THAN TWO STAGE REGULATORS.

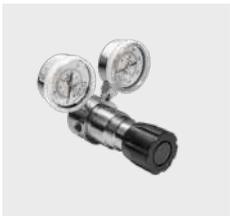
COMPACT DESIGNS TAKE UP LESS SPACE THAN TRADITIONAL TWO STAGE REGULATORS.

REDUCE THE NEED FOR CONSTANT ADJUSTMENTS

INCREASED FLOW CAPACITY RELATIVE TO A COMPARABLE TWO STAGE REGULATOR.

STABLE PRE-SET FLOW AS SUPPLY PRESSURE DROPS.

# STABLE SET PRESSURE REGULATORS

2310N SERIES	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Precise delivery pressure and flow, even as the supply pressure decreases</li> <li>Neoprene diaphragm allows for low droop in dynamic operation</li> <li>Adjusting knob with locking nut</li> <li>Compact and light-weight</li> </ul>	3000 psig / 206.84 bar	Cv 0.025	1/8" FNPT	1/8" FNPT
2310S SERIES	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Elastomer free design available</li> <li>Reduced contamination and outgassing with Elgiloy® diaphragm, stainless body, and stainless wetted parts</li> <li>Elgiloy® diaphragm is conducive to high cycle applications and wide temperature swings</li> </ul>	3000 psig / 206.84 bar	Cv 0.02	1/8" FNPT	1/8" FNPT
2510 SERIES	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Precise delivery pressure and flow, even as the supply pressure decreases</li> <li>Optional integral outlet pressure relief valve</li> <li>Choice of neoprene or stainless steel diaphragm</li> <li>Numerous material and porting options</li> </ul>	3500 psig / 241.3 bar	Cv: 0.2	1/8" FNPT 1/4" FNPT	1/8" FNPT 1/4" FNPT
2610 SERIES	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> <li>Precise delivery pressure and flow, even as the supply pressure decreases</li> <li>Piston sensed</li> <li>Optional panel mounting nut</li> <li>Outlet pressures up to 2500 psig (172.37)</li> </ul>	3500 psig / 241.3 bar	Cv: 0.2	1/4" FNPT 3/8" FNPT	1/4" FNPT 3/8" FNPT

# ACCESSORIES

## SAMPLING CYLINDERS

### FEATURES

### PART NUMBERS



- Seamless 316 stainless steel cylinders
- Consistant wall thickness and internal volume
- 316 stainless steel inlet and outlet valves
- Optional pressure relief devices
- Optional SilcoNert® coating

P/N: 70-00220

## CYLINDER HOLDERS

### FEATURES

### PART NUMBERS



- Premier Adjustable Cylinder Holders provide a safe and stable place for the storage of your gas cylinders. Portable, safe, and reliable for gas cylinders from 2 7/8" to 3 1/2"

P/N: 70-00124

## DEVALVING TOOLS

### FEATURES

### PART NUMBERS



- C10 and CGA 600 connections available
- 303 stainless steel construction

P/N: 50-10777-1  
C10

P/N: 50-10777-2  
CGA 600

# ADAPTERS

**C10 (MALE) X 1/4 MNPT**  
50-12602



**C10 (MALE) X 1/4 FNPT**  
50-11419



**C10 (MALE) X 1/8 MNPT**  
50-12602



**C10 (MALE) X TUBE STUB**  
50-11319



**C10 (FEMALE) X 1/8 FNPT**  
50-10636-3



**C10 (FEMALE) X 1/4 FNPT**  
50-10636



**CGA 600 (FEMALE) X  
1/4 OR 1/8 MNPT**  
50-10811



**CGA 600 (FEMALE) X  
C10 (FEMALE)**  
50-11999



**CGA 600 (MALE) X  
1/4 MNPT**  
50-10930



**1-20 UNF (MALE) X  
1/2 FNPT**  
50-11374



**C10 (MALE) X 1/4 FNPT**  
50-11212



**RELIEF VALVE COUPLER**  
70-00210



**SHUT OFF VALVE - 1/4  
MNPT INLET X  
C10 (MALE) OUTLET**  
50-11317



**TRIGGER VALVE ASSEMBLY**  
50-12476



**PIERCING ADAPTERS**  
50-12080, 50-12076



**Disclaimer:** Information in this brochure is for reference only and subject to change. Premier Industries makes no warranties regarding accuracy or suitability. Users are responsible for ensuring product compatibility, proper installation, and compliance with regulations. Premier Industries is not liable for damages resulting from use or reliance on this information. For updated specifications, visit our website at [www.premierind.us](http://www.premierind.us) or contact us at [sales@premierind.us](mailto:sales@premierind.us).



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