

**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.

We are excited to work with you.



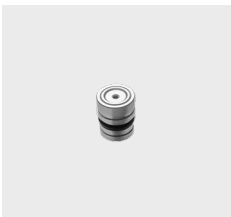
SINGLE STAGE PRESSURE REDUCING REGULATORS

2700 SERIES Fixed flow rotary valve	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> Fixed flow provides a precise and constant flow at the preset flow rate. Rotary shut off valve, with black anodized hand knob Variety of materials and configurations 	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"> Fixed flow provides a precise and constant flow at the preset flow rate. Trigger valve actuates flow (bump testing and calibration tests) and can be locked in the "on" position for continuous flow 	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"> Fixed flow provides a precise and constant flow at the preset flow rate. Push button shut off valve for easy operation 40 micron 316 stainless steel filter Wide variety of materials & configurations 	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"> Fixed flow provides a precise and constant flow at the preset flow rate. Slide valve 40 micron 316 stainless steel filter 	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"> Fixed flow provides a precise and constant flow at the preset flow rate. Solenoid outlet control 40 micron 316 stainless steel filter 	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"> Fixed flow provides a precise and constant flow at the preset flow rate. Small, compact, economical Rotary shut off valve is designed with a PTFE seat for easy shut off Variety of shut off options Flows are set with a unique integrated flow adjustment valve prior to shipment 	3000 psig / 206.84 bar 1/4" FNPT 1500 psig / 103.42 bar C10 500 psig / 34.47 bar 1/4" FNPT (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)
2700 SERIES Yoke style	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> Fixed flow provides a precise and constant flow at the preset flow rate. 	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"> Click stop, 12 position, variable flow settings Integral pressure relief valve Optional two stage design 	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"> Fixed flow provides a precise and constant flow at the preset flow rate. Extremely compact & light-weight 	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"> Compact size Designed to drop into a manifold housing, minimizing volume Single stage and two stage designs available 	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"> • Elgiloy® diaphragm reduces gas contamination and diffusion • Precise, stable delivery, even as the supply pressure decreases • Low internal volume promotes quick gas flow stabilization and purging • Integral inlet filter • Light-weight, compact design • Optional preset outlet pressure (tamper resistant acorn nut) 	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"> • Neoprene diaphragm • Precise, stable delivery, even as the supply pressure decreases • Low internal volume promotes quick gas flow stabilization and purging • Integral inlet filter • Light-weight, compact design • Optional preset outlet pressure (tamper resistant acorn nut) 	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"> • Precise delivery pressure and flow, even as the supply pressure decreases • 40 micron sintered 316 stainless steel integral inlet filter • Optional integrated shut off valve • Optional yoke style design 	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	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> 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 	3000 psig / 206.84 bar	3.0 LPM @ 3" H ₂ O	C10 integrated 1/4" FNPT (standard) 1/4 FNPT 1/8 FNPT ADAPTERS: CGA adapters C10 adapter	1/8" FNPT (Standard) ADAPTERS: 3/16" hose barb (standard) 1/8" hose barb 1/4" hose barb
4903 SERIES Miniature, demand flow	FEATURES	MAX INLET	FLOW	INLET	OUTLET
	<ul style="list-style-type: none"> 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 	3000 psig / 206.84 bar	3.0 LPM @ 3" H ₂ O	5/8-18 UNF (C10) CGA 600 (Contact factory for other options)	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 patent pending 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! These new, compact, low-cost Stable Set Pressure regulators

FEATURES

SIGNIFICANTLY REDUCE SUPPLY PRESSURE EFFECT.

COST LESS THAN TWO STAGE REGULATORS.

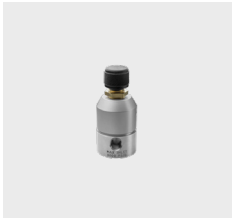



COMPACT DESIGNS TAKE UP LESS SPACE THAN TRADITIONAL TWO STAGE REGULATORS.

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"> Precise delivery pressure and flow, even as the supply pressure decreases Neoprene diaphragm allows for low droop in dynamic operation Adjusting knob with locking nut Compact and light-weight 	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"> Elastomer free design available Reduced contamination and outgassing with Elgiloy® diaphragm, stainless body, and stainless wetted parts Elgiloy® diaphragm is conducive to high cycle applications and wide temperature swings 	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"> Precise delivery pressure and flow, even as the supply pressure decreases Optional integral outlet pressure relief valve Choice of neoprene or stainless steel diaphragm Numerous material and porting options 	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"> Precise delivery pressure and flow, even as the supply pressure decreases Piston sensed Optional panel mounting nut Outlet pressures up to 2500 psig (172.37) 	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



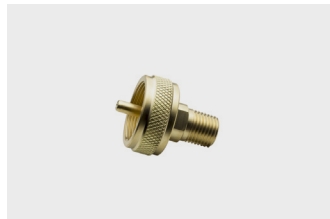
C10 (FEMALE) X 1/8 FNPT
50-10636-3



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



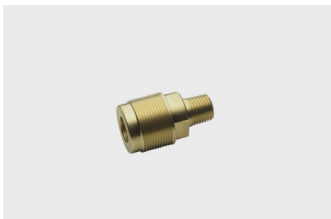
**CGA 600 (FEMALE) X
1/4 OR 1/8 MNPT**
50-10811



**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



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