

# GO REGULATOR



***The Logical Choice  
for Safety and Reliability***



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## Products and Services

For over 45 years, GO Regulator has been a leading designer and manufacturer of standardized and specialty single/two stage pressure regulators, back pressure regulators, heated vaporizing pressure regulators, diaphragm valves, and filters for the Analytical Instrumentation, Petrochemical, Oil & Gas, and Specialty Gas markets. Today GO continues to offer a versatile line of time proven products designed to fulfill a wide range of typical and not so typical gas and liquid application requirements. In several series, a standard 316L body material is used to facilitate a variety of threaded/ welded connections, with optional materials of Brass, Monel®, Hastelloy® C-276, or Titanium construction being offered. In addition, a variety of seat materials, orifice sizes and pressure control ranges offer the user a wide spectrum of capabilities. The “customer focused” philosophy, supported by experienced people enables GO Regulator to persevere in providing viable product solutions to the challenging applications of today at competitive prices.



### Pressure Reducing Regulators

The PR series is used to reduce high inlet pressures to the desired lower outlet pressures as required by the application. Variations include high flow, high pressure, high sensitivity, sub-atmospheric, and compact/miniature models.

- 316L SS, Brass, and Aluminum (Monel, Titanium, Hastelloy optional)
- Inlet Pressures up to 10,000 PSIG
- Control Pressures from 1-30 PSIA to 10,000 PSIG
- Cv's from .004 to 1.2
- Max temperatures up to 500°F (650°F and 1000°F optional)
- Internal volume from less than 3cc's

## Back Pressure Regulators

The BP series back pressure regulators are used to control upstream or back pressure. In low flow or closed systems, over-pressures are often accommodated by pressure relief valves. This type of relief is traditionally on-off with little to no throttling control. In contrast to relief valves, the back pressure regulator with its throttling action substantially improves system pressure regulation. Variations include high flow, high pressure, high sensitivity, sub-atmospheric, and compact/miniature models.

- 316L SS, Brass, and Aluminum (Monel, Titanium, Hastelloy optional)
- Control Pressures from 1-30 PSIA to 10,000 PSIG
- Cv's from .005 to 3.0
- Max temperatures up to 500°F
- Internal volume from less than 3cc's



## Cylinder Pressure Regulators

The CYL series provides for single or dual stage pressure control to accommodate a wide variety of specialty gas/cylinder bottle applications. This product can be ordered with the appropriate pressure gauges and CGA inlet fitting as required by the application.

- 316L SS, Brass, and Aluminum (Monel optional)
- Inlet Pressures up to 6,000 PSIG
- Control Pressures from 10 to 2000 PSIG
- Cv's from .025 to 0.5
- Max temperatures up to 500°F



## Change Over Manifold Systems

The COM series change over products are designed to provide an uninterrupted supply of media via individual primary and backup supply sources. These systems incorporate a changeover pressure regulator, a final outlet pressure regulator as well as the appropriate gauges and fittings required to package them into turn-key assemblies.



## Heated Vaporizing Pressure Regulators and Systems

The GO line of heated pressure regulators was designed to introduce heat and elevate the temperature of a sample during the sample conditioning phases of sample analysis. Essentially they are used to preheat/vaporize liquids, and/or prevent sample stream condensation prior to gas analysis. Both electric (120 or 240 VAC) and steam versions are available. The modular pressure control and heat exchanger assemblies are designed for easy maintenance. The unique spiral wrapped heat exchange element provides up to 100 square inches of heat transfer area. Variations include single stage, dual stage, miniature, and turn-key insulated LNG box configurations.

- 316L SS, (monel, Hastelloy optional)
- Inlet Pressures up to 6,000 PSIG
- Control Pressures from 10 to 1000 PSIG
- Electrically and Steam Heated.
- CV's from .025 CV to .2CV
- 110VAC and 240VAC,
- Temperature Control ranges from 55°F to 380°F
- Heater wattages from 40W to 250W
- Max temperatures to 380°F



### Delivering Value by Focusing on the Process

At GO Regulator, instrumentation is our core business. Through our years of experience, we know that precise flow control is a complex thing, not a commodity. Selecting, applying, and validating instrumentation products can become a confusing and difficult task for those involved. You want to spend your time and attention focusing on your core business and optimize your resources, not become an instrumentation expert. Our approach is to focus on the whole process in order to satisfy all your individual stakeholders (safety, finance, purchasing, inventory control, installation technician, engineer, and instrumentation specialist) requirements.

***Ask your local distributor how we can deliver value to your organization.***

## Specialty and Complimentary GO Products

### DV1 Valves Series

The DV1 Series Diaphragm Valves are totally free of springs, bellows, packing, o-rings and lubricants in the process wetted area. Metal-to-metal diaphragm seals to atmosphere ensure that there is no adsorption of undesirable elements into the flow stream. Elgiloy® diaphragms insure the utmost in corrosion resistance and life span. These valves are available in manual or pneumatic actuation.



### Dome-loaded Regulators

Much like the PR series, the DL series is used to reduce high inlet pressures to the desired lower outlet pressures as required by the application. The dome loading feature allows the set pressure to be controlled via low pressure pilot air and/or a customer supplied I/P controller.

CV's from .05CV to 1.2 CV  
Dome Ratio's from 11:1 to 172:1  
Outlet Pressures from 500PSIG to 10000 PSIG  
Max temperatures to 350°F  
Back Pressure configurations - optional

### High Purity Products

The Ultra High Purity Series meets the stringent quality requirements and rigid performance standards of the semiconductor industry.

- 316L SS (Hastelloy optional)
- Inlet Pressures up to 6,000 PSIG
- Standard connections: ¼" to ½" VCR
- Cv's from 0.025 to 0.5
- Outlet Pressures from 10 to 500 PSIG
- Max temperatures to 500°F

### Filters

#### F-4 Line Filters

Compact filter of 316 SS construction rated up to 6000 psig operating pressures. Available filtration porosities are 10-300 microns.



#### F6-K Line Filters

A 316 SS high pressure tee type filter also available in bypass configuration. Operating pressures up to 6000 psig at 70° F. Available filtration porosities are from 2-150 microns.

#### Cyclone Filter

A bypass filter designed for efficient service and long life in analyzer sampling systems. Standard 316L model rated up to 3600 psig at 70° F. Available filtration porosities are from 0.20 up to 15 microns.



# CIRCOR

Instrumentation Technologies

## Our Company

CIRCOR Instrumentation Technologies (CIT) is the logical choice for fluid control solutions. We provide the lowest cost of ownership, offering the best in class reliability and availability of our products. We have global coverage, delivering value in the form of local, flexible service to meet our customer's needs. CIT is a product group specializing in instrumentation with orifice sizes typically up to 2".



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