

Cylinder Regulators

Index

IIIUEX	
Safety Warning	Inside Front Cover
CC2 Series	1
CYL-1 Series	3
CYL-2 Series	5
CYL-3 Series	7
CYL-20 Series	9
CYL-21 Series	11
COM-1 Series	13
COM-2B Series	15
COM-2P Series	17
Porting Configurati	ions 19
Disclaimers	Inside Back Cover





For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized GO Regulator sales and service representative for information about additional sizes and special alloys.

SAFETY WARNING:

GO Regulator products are designed for installation only by professional suitably qualified licensed system installers experienced in the applications and environments for which the products are intended. These products are intended for integration into a system. Where these products are to be used with flammable or hazardous media, precautions must be taken by the system designer and installer to ensure the safety of persons and property. Flammable or hazardous media pose risks associated with fire or explosion, as well as burning, poisoning or other injury or death to persons and/ or destruction of property. The system designer and installer must provide for the capture and control of such substances from any vents in the product(s). The system installer must not permit any leakage or uncontrolled escape of hazardous or flammable substances. The system operator must be trained to follow appropriate precautions and must inspect and maintain the system and its components including the product(s) and at regular intervals in accordance with timescales recommended by the supplier to prevent unacceptable wear or failure.

CC2 Series

Compact Two-stage Cylinder Pressure Regulator



The CC2 Series compact two-stage precision pressure regulator is well suited for instrumentation applications requiring a precise and stable delivery pressure. This regulator was originally designed to meet the needs of the instrumentation industry; however, it would also be very useful in many other applications that require a compact two-stage pressure regulator to supply a precise delivery pressure with fluctuating supply pressures.

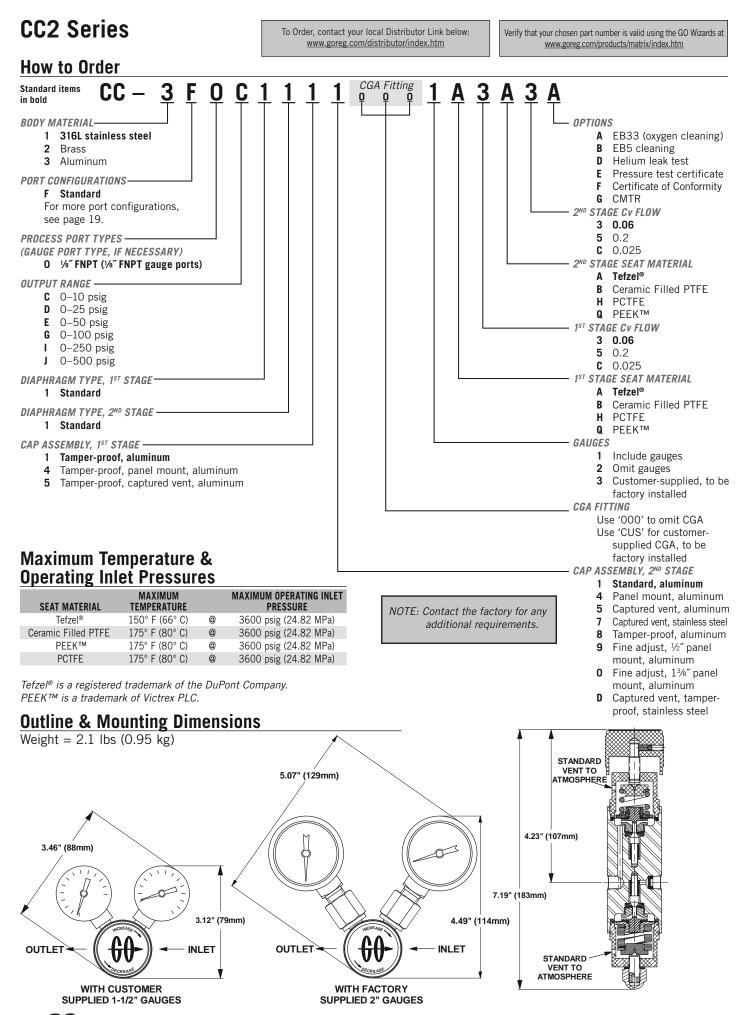
Another benefit of using the CC2 Series is that internally, it shares some of its design features and options with the time proven CPR-1 Series pressure regulator. These features and options allow the customer to essentially tailor this regulator to accommodate virtually any application requiring low to moderate flow rates. The unit will also be offered with inlet/outlet pressure gauges, CGA connections and relief valves.

The CC2 Series regulator is manufactured in 316L stainless steel as a standard option. Please consult GO Regulator for any optional materials of construction that might be required for toxic or corrosive process gas applications.

Features & Specifications

- Compact size
- Two-stage regulation
- Stainless steel diaphragm
- Gas or liquid service
- Low internal volumes
- Maximum inlet pressure up to 3600 psig
- Outlet pressure ranges: 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig, 0–250 psig and 0–500 psig
- Cv flow coefficients: 0.06, 0.025, 0.2
- Leak rate, bubble-tight
- Operating temperatures: -40° F to +175° F (-40° C to +80° C)
- Inlet/outlet connections: 1/8" FNPT

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GOREGULATOR, INC.

CYL-1 Series

Single Stage Brass Cylinder; Gas Pressure Reducing Regulator

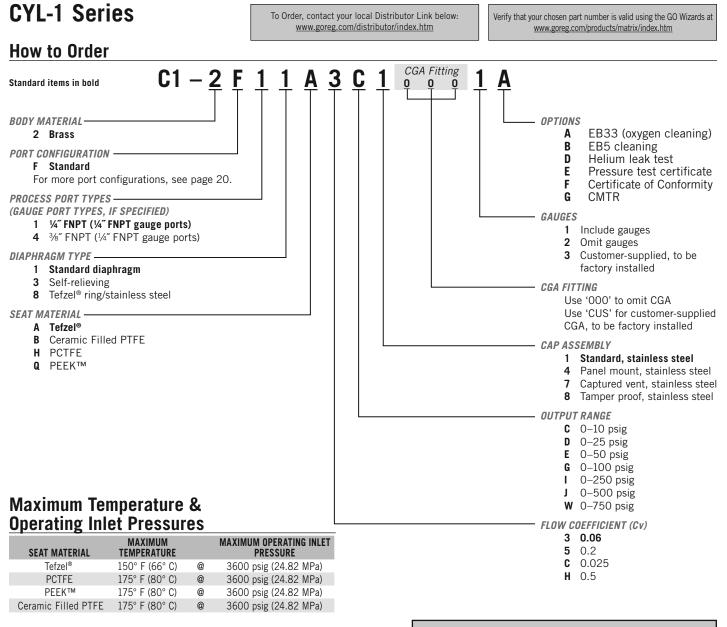


(Shown with optional outlet valve)

The CYL-1 Series is designed as a complete compact pressure control module. The basis of this unit is the economical PR-2 Series pressure control valve which is widely used in instrumentation sample systems as well as many other applications requiring maximum reliability. This regulator, when ordered with appropriate gauges and CGA inlet fitting, is designed for use as a compressed gas cylinder regulator for those applications where the corrosion resistance of stainless steel is not a requirement.

Features & Specifications

- CGA inlet fitting
- Integral inlet filter
- 2["] diameter brass gauges
- PTFE-lined stainless steel diaphragm
- Maximum inlet pressure: 3600 psig
- Outlet pressure ranges: 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig, 0–250, 0–500 and 0–750 psig
- Fluid media; non-corrosive gases
- Operating temperatures: -40° F to +175° F (-40° C to +80° C)
- Cv flow coefficients: 0.025, 0.06, 0.20 and 0.5

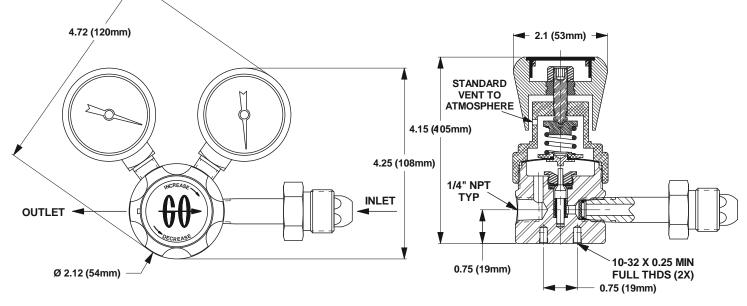


Outline & Mounting Dimensions

Weight = 1.9 lbs (0.86 kg)

NOTE: Contact the factory for any additional requirements.

Tefzel[®] is a registered trademark of the DuPont Company. PEEK™ is a trademark of Victrex PLC.





CYL-2 Series

Two-stage Brass Cylinder Gas Pressure Reducing Regulator



The CYL-2 Series is a precision two-stage regulator well suited for instrumentation applications requiring a precise and stable pressure source. This pressure regulator was developed to meet the needs of the instrumentation industry, but is also well suited for other applications requiring precision pressure supply.

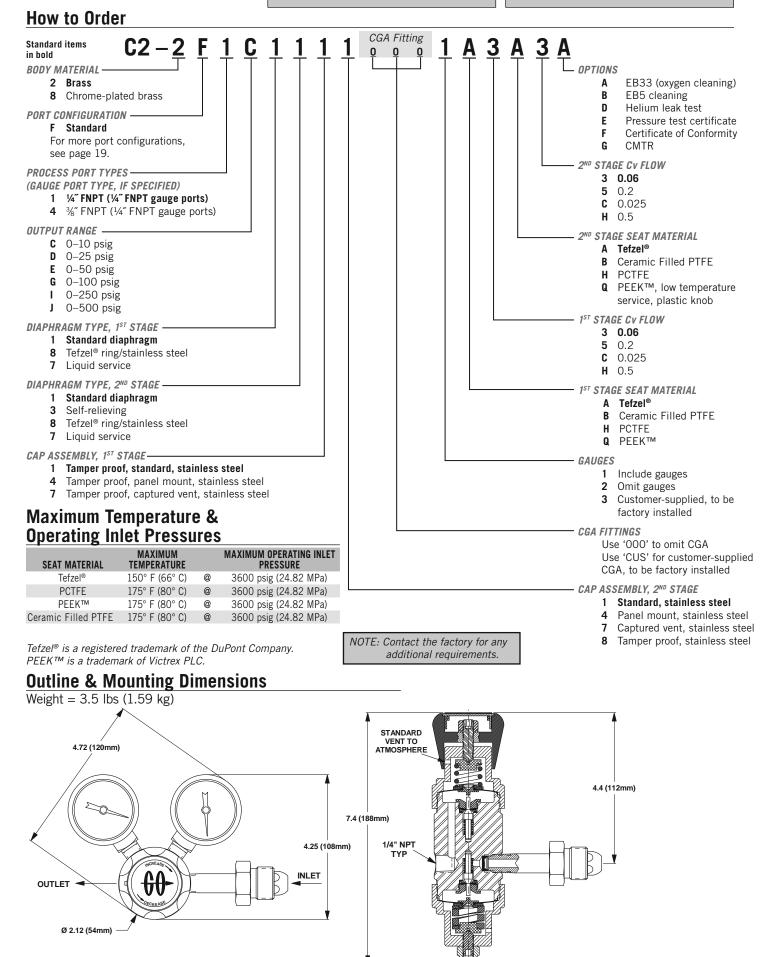
The development of this series provides the maximum flexibility that is available in any cylinder regulator.

Features & Specifications

- Brass construction
- 1st stage integral 20 micron filter and 2nd stage integral 40 micron filter
- PTFE-lined stainless steel diaphragm in both stages
- Tefzel[®] seats are standard
- 2["] diameter brass gauges
- CGA inlet fitting
- Stainless steel caps
- Optional relief valves and shut off valves
- Maximum inlet pressure: 3600 psig
- Outlet pressure ranges 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig, 0–250 psig and 0–500 psig
- Fluid media; non-corrosive gases
- Cv flow coefficients: 0.06, 0.025, 0.20, 0.50
- Operating temperatures: -40° F to +175° F (-40° C to +80° C)
- 1/4" FNPT inlet/outlet connections standard

CYL-2 Series

Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm



CYL-3 Series

High Pressure Economy Brass Cylinder Regulator

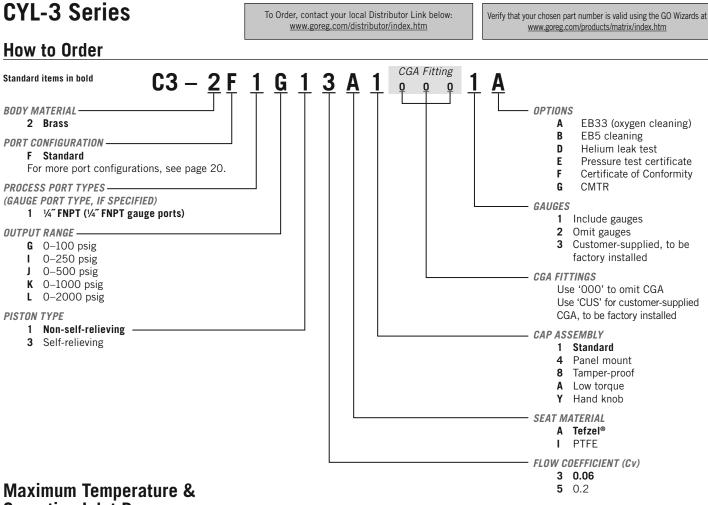


The CYL-3 Series is an economical brass high pressure regulator, designed to accept inlet pressures up to 3600 psig and deliver outlet pressures from 0–100 psig up to 0–2000 psig. This single-stage brass regulator is perfectly suited for cylinder usage with non-corrosive gases. Good regulation characteristics are provided by a carefully engineered piston sensor. Ease of outlet pressure adjustment is provided by the T-handle, which is offered as standard.

Features & Specifications

Inlet pressures up to 3600 psig

- Control pressures from 0–100 psig up to 0–2000 psig
- Brass (alloy 360) construction
- Stainless steel poppet
- 20 micron inlet filter
- Bubble-tight shutoff
- CGA connection with integral inlet filter
- 2" diameter brass gauges
- Cv flow coefficients: 0.06 (standard), 0.2 (optional)
- Better than 25 Ra finish in diaphragm cavity
- Optional relief valves and outlet shutoff valves



Operating Inlet Pressures

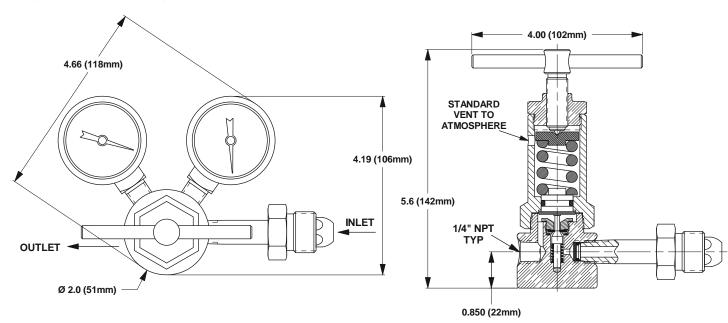
SEAT MATERIAL	MAXIMUM TEMPERATURE		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High density PTFE	150° F (66° C)	@	3600 psig (24.82 MPa)

NOTE: Contact the factory for any additional requirements.

Tefzel[®] is a registered trademark of the DuPont Company.

Outline & Mounting Dimensions

Weight = 2.74 lbs (1.22 kg)





CYL-20 Series

Corrosion-resistant Two-stage Pressure Reducing Regulator



Precision pressure control is now possible with the CYL-20 Series regulator. This two-stage regulator, constructed of 316L stainless steel and PTFE, has less than 0.01 percent outlet pressure change with varying inlet pressures and is designed for use in gas calibration systems and semiconductor materials processing.

With materials of only 316L stainless steel, PTFE and Tefzel[®], this regulator is suitable for service in corrosive streams as well as non-corrosive streams with potential surface absorption problems. This regulator accepts inlet pressures up to 6000 psig and has bubble-tight shutoff. Operating temperature ranges may vary from -40° C up to $+260^{\circ}$ C and outlet pressure ranges of 0-10 psig up to 0-500 psig are easily adjustable by a fluted knob.

Features & Specifications

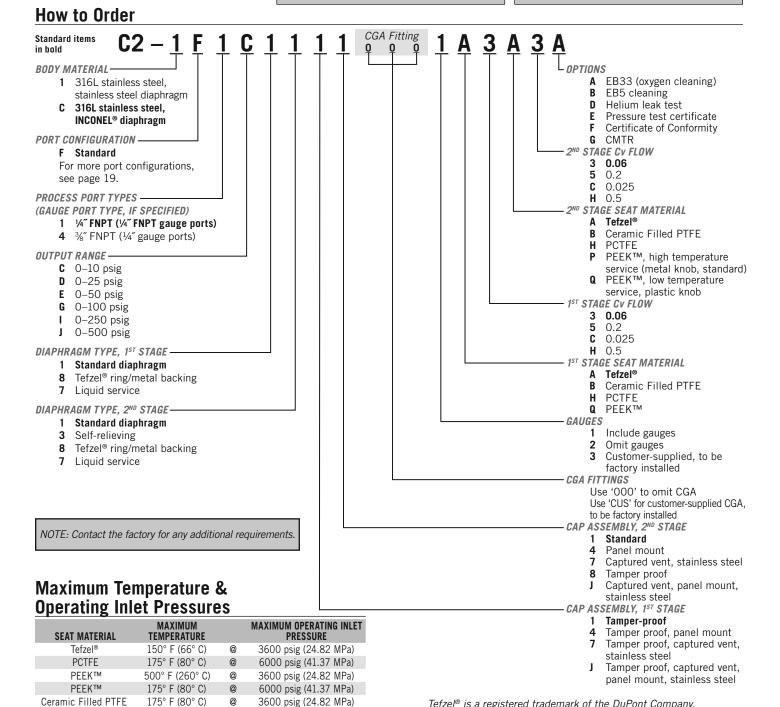
- 316L stainless steel, INCONEL[®], PTFE & Tefzel[®] in contact with operating media only
- Stainless steel caps & adjusting screws
- Bubble-tight shutoff
- CGA fitting for cylinder connection
- 2" diameter 316 stainless steel gauges
- Maximum inlet pressure: 6000 psig
- Outlet pressure ranges of 0–10 psig, , 0-25 psig 0–50 psig, 0–100 psig, 0–250 psig and 0–500 psig
- PTFE lined INCONEL[®] diaphragm standard
- Cv flow coefficients: 0.025, 0.06, 0.20, 0.50
- Operating temperatures of one line: -40° F to +500° F (-40° C to +260° C)
- Outlet pressure change is 0.01 psig per 100 psig of inlet decay

Options

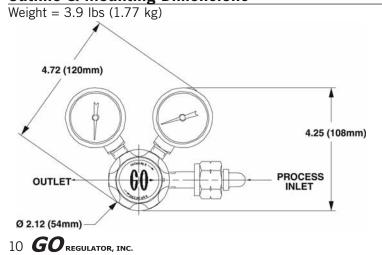
- Captured vent
- Shutoff valve
- 3⁄8″ FNPT



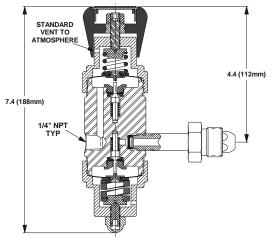
Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm



Outline & Mounting Dimensions



Tefzel[®] is a registered trademark of the DuPont Company. INCONEL[®] is a registered trademark of Special Metals Corporation. PEEKTM is a trademark of Victrex PLC.





CYL-21 Series

Corrosion-resistant Single Stage Cylinder Regulator



(Shown with optional outlet valve)

The CYL-21 Series is a compact cylinder regulator based on the time proven design of the PR-1 Series single-stage stainless steel line regulator and is suitable for most corrosive gas cylinder applications. While normally used for low and moderate flow service, optional high flow orifices are available.

The standard unit is equipped with CGA connector, integral inlet filter, inlet and outlet pressure gauges and may be ordered with extra inlet or outlet ports for inlet purging, outlet relief valves or other accessory items. When used in service with toxic or explosive gases, we recommend the installation of a captured vent option. This option is a true captured vent cap and not merely a standard cap with a vent port. It comes complete with a CGA fitting and 2["] diameter gauges.

Features & Specifications

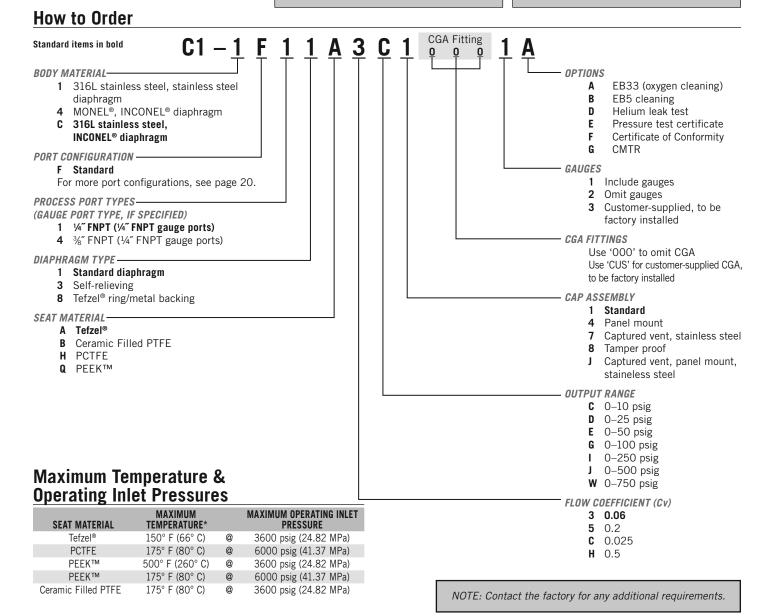
- 316L stainless steel construction (standard), MONEL[®] optional
- Inlet pressures up to 6000 psig
- 20 micron inlet filter
- Bubble-tight shutoff
- CGA inlet fitting
- 2["] diameter 316 stainless steel gauges
- Outlet pressure ranges 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig, 0–250 psig, 0–500 psig, and 0-750 psig
- Optional Cv flow coefficients: 0.025, 0.06, 0.20, 0.50

CYL-21 Series

To Order, contact your local Distributor Link below: www.goreg.com/distributor/index.htm Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

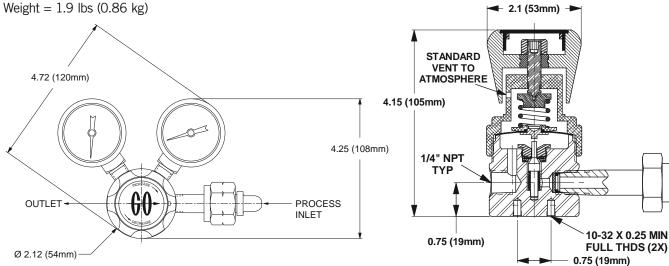
MONEL[®] is a registered trademark of Special Metals Corporation. Tefzel[®] is a registered trademark of the DuPont Company.

PEEK™ is a trademark of Victrex PLC.



* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper-proof option.

Outline & Mounting Dimensions





COM-1 Series

Crossover Manifold Regulator System



The COM-1 Series crossover manifold system consists of two PR-1-type stainless steel regulators (PR-2-type brass, optional) mounted on a panel-mounting-type bracket shown with optional gauges. The primary regulator, supplied with a tamper-proof nut, is set at an outlet operating pressure at least 15 psig higher than the secondary regulator (supplied with a standard adjusting knob). As the primary supply source depletes and the operating outlet pressure of the primary regulator falls below the preset operating pressure of the secondary regulator, the secondary regulator takes over. Once this occurs, the secondary regulator can be manually adjusted ½-turn clockwise, the secondary regulator is now the primary and the depleted supply source can be replaced.

Features & Specifications

- Inlet pressure to 6000 psig
- Outlet pressures range: 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig, 0–250 psig, or 0-500 psig
- Changeover pressures: 15–250 psig
- Cv flow coefficients: 0.025, 0.06, 0.2, 0.5
- All connections: 1/4" FNPT
- 20 micron inlet filter
- 316L stainless steel construction; Brass and MONEL[®] optional
- Seat materials of PCTFE, Tefzel[®], PEEK™
- Bubble-tight shutoff
- 2" diameter gauges (optional)
- Operating temperatures -40° F to +500° F (-40° C to +260° C)
- Bracket mounted for easy installation
- PTFE lined INCONEL[®] diaphragm standard

COM-1 Series

To Order, contact your local Distributor Link below: www.goreg.com/distributor/index.htm

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COM1 – 1

Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

How to Order

Standard items in bold

BODY MATERIAL

- 1 316L stainless steel, stainless steel diaphragm
- 2 Brass, stainless steel diaphragm
- 4
- MONEL®, INCONEL® diaphragm 316L stainless steel, INCONEL® diaphragm C

SEAT MATERIAL

- A Tefzel® B Ceramic Filled PTFE
- H PCTFE
- Q PEEK™

Maximum Temperature & **Operating Inlet Pressures**

SEAT MATERIAL	MAXIMUM TEMPERATURE		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK™	500° F (260° C)	@	3600 psig (24.82 MPa)
PEEK™	175° F (80° C)	@	6000 psig (41.37 MPa)
Ceramic Filled PTFE	175° F (80° C)	@	3600 psig (24.82 MPa)

Brass

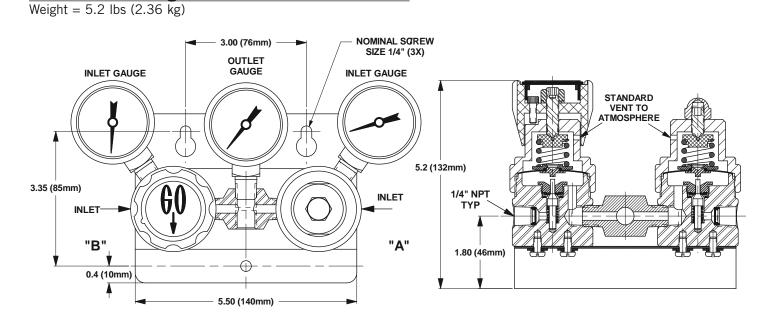
SEAT MATERIAL	MAXIMUM TEMPERATURE		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	175° F (80° C)	@	3600 psig (41.37 MPa)
PEEK™	175° F (80° C)	@	3600 psig (41.37 MPa)
Ceramic Filled PTFE	175° F (80° C)	@	3600 psig (24.82 MPa)

Outline & Mounting Dimensions

3 C A **OPTIONS** A EB33 (oxygen cleaning) **B** EB5 cleaning D Helium leak test Ε Pressure test certificate F Certificate of Conformity G CMTR GAUGES 1 Include gauges 2 Omit gauges 3 Customer-supplied, to be factory installed OUTPUT RANGE **C** 0-10 psig 0–25 psig D **E** 0–50 psig **G** 0–100 psig I 0-250 psig J 0-500 psig FLOW COEFFICIENT (Cv) 3 0.06 **5** 0.2 **C** 0.025 **H** 0.5

NOTE: Contact the factory for any additional requirements.

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14 **GO** REGULATOR, INC.

COM-2B Series

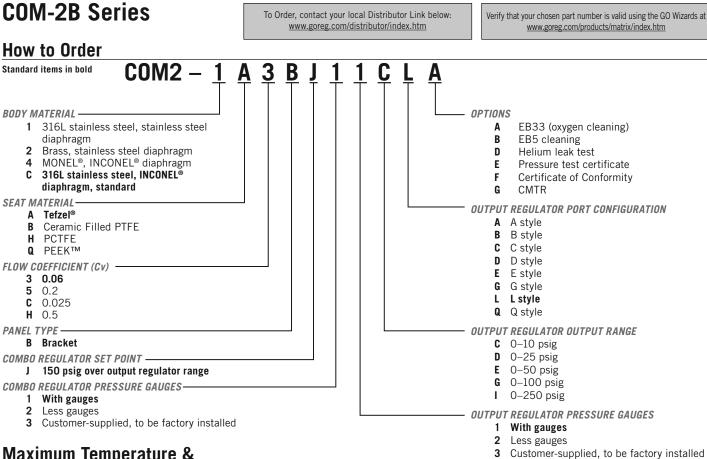
Crossover Manifold Regulator System



The COM-2B Series crossover manifold system uses two PR-1-type stainless steel regulators (PR-2-type brass, optional) built in a single body functioning as the changeover regulators with the common outlet port connected to a single line regulator to provide constant unchanging supply pressure unaffected by supply source depletion. All are mounted on a bracket complete with gauges. As the primary supply source depletes and the operating outlet pressure of the primary regulator falls below the preset changeover pressure of the secondary regulator, the secondary regulator takes over. Once this occurs, the primary regulator can be manually adjusted ¹/₈-turn counterclockwise, the secondary regulator is now the primary and the depleted supply source can be replaced.

Features & Specifications

- Bracket-mounted for easy installation
- Allows changing of cylinders during operation*
- Available in stainless steel, brass and MONEL[®]
- Steady outlet pressure during cylinder depletion
- 0.01% pressure control accuracy
- Inlet pressures to 6000 psig
- Outlet pressure ranges: 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig or 0–250 psig
- Changeover pressures: 15–250 psig
- Cv flow coefficients: 0.025, 0.06, 0.2, 0.5
- All connections: 1/4" FNPT
- 20 micron inlet filters
- 316L stainless steel construction
- PTFE-lined INCONEL[®] diaphragm, standard
- Operating temperatures: -40° F to +500° F (-40° C to +260° C)
- * Installation of shut off valves in each inlet port is recommended for complete isolation during change out of cylinders.



Brace

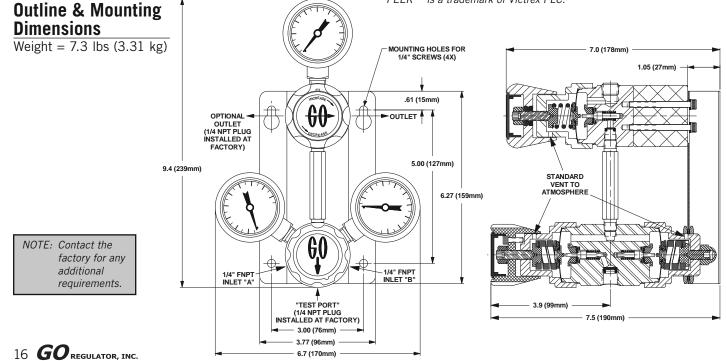
Maximum Temperature & Operating Inlet Pressures Stainless steel

SEAT MATERIAL	MAXIMUM TEMPERATURE*		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK™	500° F (260° C)	@	3600 psig (24.82 MPa)
PEEK™	175° F (80° C)	@	6000 psig (41.37 MPa)
Ceramic Filled PTFE	175° F (80° C)	@	3600 psig (41.37 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper-proof option.

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SEAT MATERIAL	MAXIMUM TEMPERATURE		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F® 81)	175° F (80° C)	@	3600 psig (41.37 MPa)
PEEK™	175° F (80° C)	@	3600 psig (41.37 MPa)
Ceramic Filled PTFE	175° F (80° C)	@	3600 psig (41.37 MPa)

 $MONEL^{\circ}$ is a registered trademark of Special Metals Corporation. Tefzel^{\circ} is a registered trademark of the tef Company. $PEEK^{TM}$ is a trademark of Victrex PLC.



COM-2P Series

Crossover Manifold Regulator System

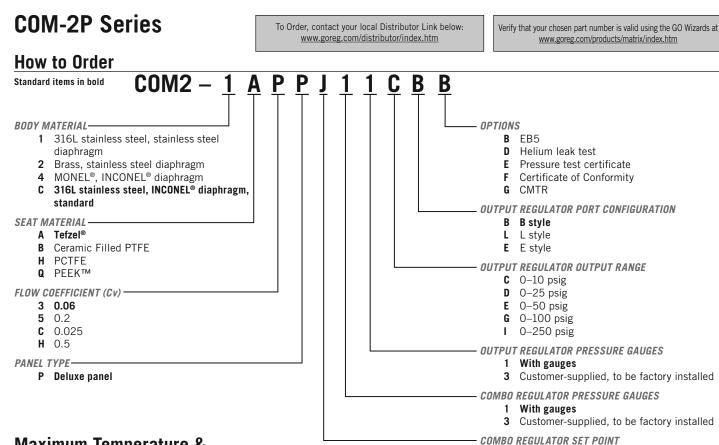


The COM-2P employs two discrete single stage PR-1-type regulators built into a single body. These regulators serve as the primary and secondary changeover regulators with the common outlet port connected to a single PR-1 Series regulator. This allows for the non-stop delivery of gas from bottles with only a 0.01% change in outlet pressure as the inlet pressure varies. The hardware comes mounted in an attractive 300 series stainless steel panel that is suitable for surface mounting near the bottles. Labels are permanently silk-screened on the face of the panel for easy identification of process ports and gauges. The unit comes complete with pressure gauges and shutoff valves. Suitable for gases and liquids.

Features & Specifications

- Complete panel system including gauges and vent valves for easy installation
- Allows changing of cylinders during operation*
- Available in both stainless steel and brass (other materials also available)
- Steady outlet pressure during cylinder depletion
- 0.01% pressure control accuracy
- Inlet pressures to 6000 psig
- Outlet pressure ranges 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig or 0–250 psig
- Changeover pressures: 15-250 psig
- Cv flow coefficients 0.025, 0.06, 0.2, 0.5
- All connections: 1/4" FNPT
- 20 micron sintered inlet filters
- PTFE-lined INCONEL[®] diaphragm, standard
- Operating temperatures: -40° F to +500° F
- (-40° C to +260° C)
- Installation of shut off valves in each inlet port is recommended for complete isolation during change out of cylinders.

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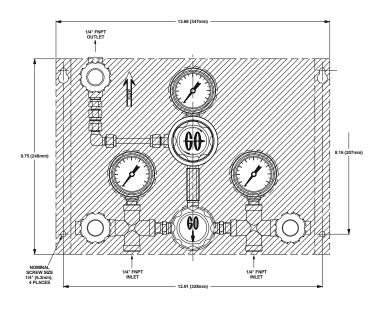
Maximum Temperature & Operating Inlet Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE*		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK™	500° F (260° C)	@	3600 psig (24.82 MPa)
PEEK™	175° F (80° C)	@	6000 psig (41.37 MPa)
Ceramic Filled PTFE	175° F (80° C)	@	3600 psig (41.37 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper-proof option.

Outline & Mounting Dimensions

Weight = 13.4 lbs (6.09 kg)

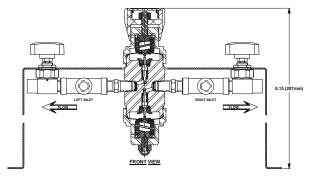


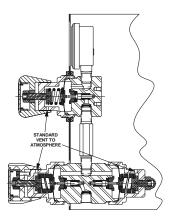
Tefzel[®] is a registered trademark of the DuPont Company. MONEL[®] is a registered trademark of Special Metals Corporation. PEEK[™] is a trademark of Victrex PLC. Brass

SEAT MATERIAL	MAXIMUM TEMPERATURE		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	175° F (80° C)	@	3600 psig (41.37 MPa)
PEEK™	175° F (80° C)	@	3600 psig (41.37 MPa)
Ceramic Filled PTFE	175° F (80° C)	@	3600 psig (41.37 MPa)

NOTE: Contact the factory for any additional requirements.

J 150 psig over output regulator range







Back Pressure Regulators

Index

IIIUCA	
Safety Warning	Inside Front Cover
BP-3 Series	1
BP-6 Series	4
BP-8 Series	7
BP-8LF Series	10
CBP-3 Series	13
LB-1 Series	16
SBPR Series	19
BP-60 Series	22
BP-66 Series	25
Porting Configurat	tions 28
Disclaimers	Inside Back Cover



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For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized GO Regulator sales and service representative for information about additional sizes and special alloys.

SAFETY WARNING:

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BP-3 Series

Adjustable Back Pressure Regulators

Introduction

The BP-3 Series is designed for either liquid or gas service in instrumentation systems. Similar in design to pressure reducing control regulators which regulate outlet pressures, back pressure regulators control the inlet pressure. The many features of this regulator, particularly its precise throttling action, make it ideal for this type of application. In low flow or closed systems, over-pressures often are released by pressure relief valves. This type of relief is on-off with no throttling control. In contrast to relief valves, the back pressure control regulator with its throttling action substantially improves system pressure regulation.



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Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Petrochemical industry
- Air compressors
- Research labs
- Pilot plants

Technical Data

CONSTRUCTION	316L stainless steel
ADJUSTABLE PRESSURE Control Ranges	0–6, 0–10, 0–25, 0–50, 0–100, 0–250, 0–500, 0–750 & 0–1000 psig
OPERATING TEMPERATURE	-40° F to +500° F (-40° C to +260° C)
C _V COEFFICIENT	0.2
OPTIONAL VARIOUS ORIFICE SIZES	0.005, 0.01, 0.025, 0.03, 0.04, 0.05, 0.06, 0.095, 0.12, 0.24, and 0.3

Features & Benefits

- Only 316L stainless steel and PTFE in flow stream
- Bubble tight shutoff
- Gas or liquid service

Options

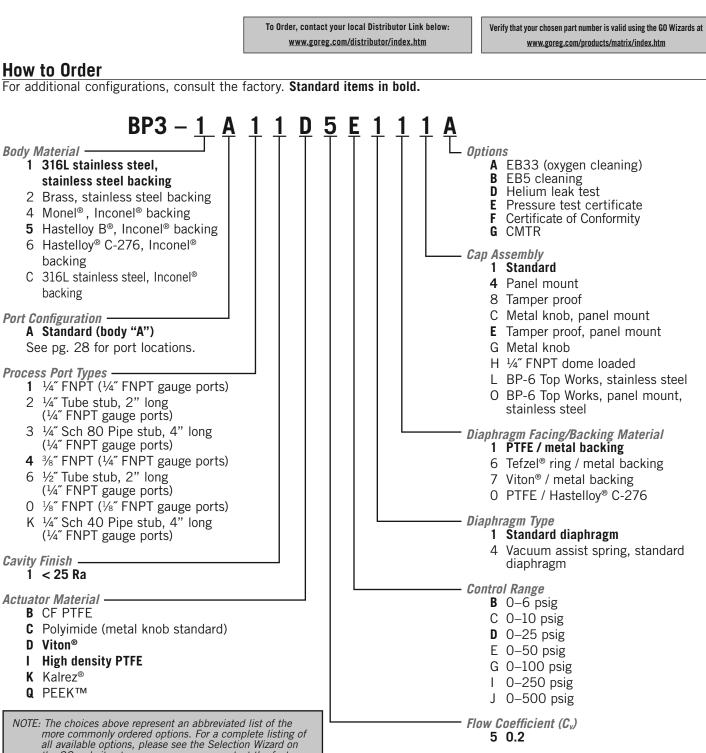
- Wetted materials of construction brass, Monel[®], Hastelloy[®] C-276, titanium
- Extra ports
- Panel mount (requires a 1³/₈" mounting hole)
- High purity connections
- Pressure gauges

Adjustable Back Pressure Regulators

Maximum Temperature and Control Pressures

MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
250° F (121° C)	@	250 psig (1.71 MPa)
300° F (148° C)	@	250 psig (1.72 MPa)
200° F (93° C)	@	500 psig (5.16 MPa)
500° F (260° C)	@	1000 psig (6.88 MPa)
500° F (260° C)	@	1000 psig (6.88 MPa)
	250° F (121° C) 300° F (148° C) 200° F (93° C) 500° F (260° C)	250° F (121° C) @ 300° F (148° C) @ 200° F (93° C) @ 500° F (260° C) @

Note: Temperatures in excess of 175° F (79° C) require the use of a metal knob or the tamper proof option.

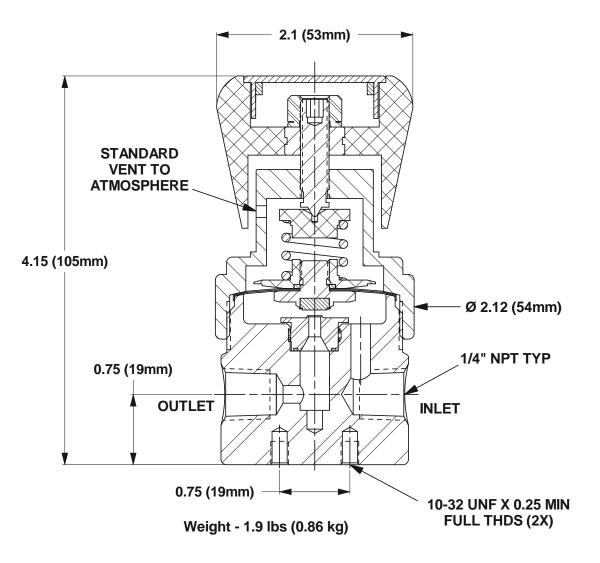


the GO website at www.goreg.com or contact the factory.

For flow curve charts, visit http://www.goreg.com.

Adjustable Back Pressure Regulators

Outline and Mounting Dimensions



BP-6 Series

High Flow Back Pressure Regulator

Introduction

The BP-6 Series was originally designed as a back pressure regulator for reverse osmosis water purification systems. It may also be easily used in pilot facilities and large instrumentation systems. The standard 316 stainless seat assembly, which was intended for long term usage in sea water, can also be useful in various chemical environments. While the stainless seat assembly does not offer tight shutoff, it is not normally required in high flow systems. If a more positive shutoff is required a PTFE/stainless seal assembly is available.

The BP-6 Series is normally provided in 316 stainless construction but other materials are available.



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Typical Applications

- Pilot plants
- Large instrumentation systems
- Reverse osmosis water purification systems

Technical Data

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CONSTRUCTION	316L stainless steel (standard), Monel®, Hastelloy® C-276, or titanium (optional)
ADJUSTABLE STANDARD Pressure Ranges	0–100, 0–250, 0–500 and 0–1000 psig
OPERATING Temperature	-40° F to +500° F (-40° C to +260° C)
Cv COEFFICIENT	3.0
INLET & OUTLET Connections	1⁄2″ FNPT

Features & Benefits

- Gas or liquid service
- Sensing with PTFE lined stainless diaphragm
- Metal to metal seat

Options

- Soft seat for bubble tight shutoff
- Panel mounting
- Extra ports
- Special welded connections
- Pressure gauges

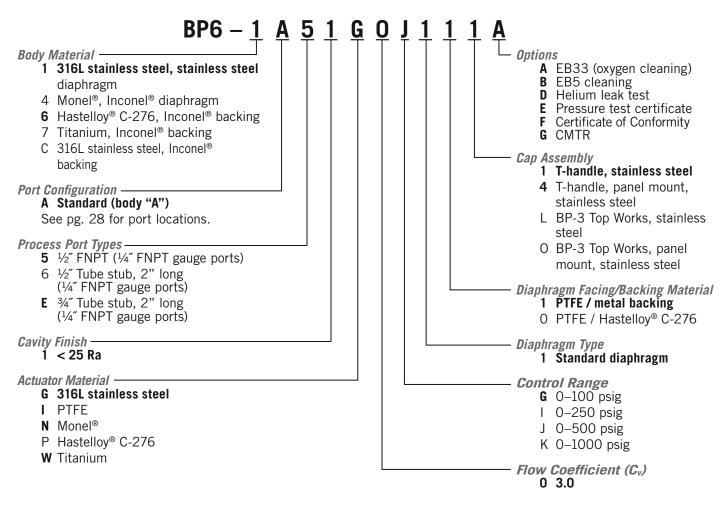
High Flow Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
PTFE	200° F (93° C)	@	1000 psig (6.88 MPa))
316L stainless steel	500° F (260° C)	@	1000 psig (6.88 MPa)
Monel®	500° F (260° C)	@	1000 psig (6.88 MPa)
Hastelloy [®] C-276	500° F (260° C)	@	1000 psig (6.88 MPa)
Titanium	500° F (260° C)	@	1000 psig (6.88 MPa)
To Order, contact your local Distributor	Link below: Verify that your ch	osen part nun	ber is valid using the GO Wizards at
www.goreg.com/distributor/index	<u>c.htm</u> <u>www.</u> g	oreg.com/pro	ducts/matrix/index.htm

How to Order

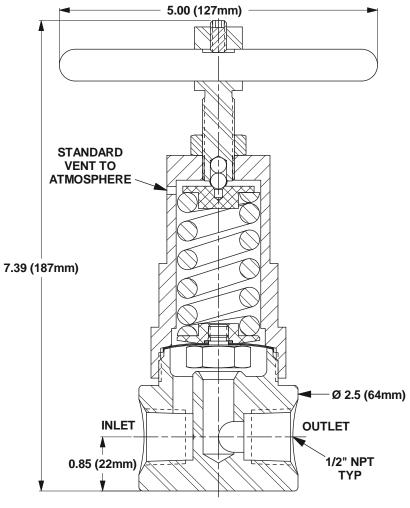
For additional configurations, consult the factory. Standard items in bold.



NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory.

High Flow Back Pressure Regulators

Outline and Mounting Dimensions



Weight - 4.3 lbs (1.95 kg)

BP-8 Series

High Flow Back Pressure Regulators

Introduction

This series is designed to control back pressure at low to moderate pressure ranges with relatively high flow. While designed primarily for instrumentation systems and similar to the PR-7, the BP-8 is also suitable for pilot plant, research and development activities. Special diaphragm and spring combinations give the user a selection of pressure ranges that are near atmospheric. The glass filled PTFE / stainless seat assembly gives tight shut off even at lower flows for most applications.

The 316 stainless steel body assembly provides service for most chemical environments and brass models are available for those applications not requiring that type of corrosion resistance. If special requirements demand other materials of construction, please contact the factory.



Typical Applications

- Instrumentation systems
- Pilot plants
- Air compressors

Technical Data

IECHINCAI Data	
CONSTRUCTION	316L stainless steel or brass (standard) Monel [®] or Hastelloy [®] C-276 (optional)
ADJUSTABLE STANDARD Pressure Ranges	0-10, 0-25, 0-50, 0-100, 0-250, and 0-500 psig
OPERATING Temperature	-40° F to +250° F (-40° C to +121° C)
C _v coefficient	1.2 (standard) 0.40 and 0.70 (optional)
INLET & OUTLET Connections	¹ /4″ FNPT

Features & Benefits

- Pressure control of large flows
- Standard stainless steel diaphragm, PTFE faced

Options

- Panel mounting
- Extra ports
- $\frac{3}{8}$ " FNPT, $\frac{1}{2}$ " FNPT, $\frac{1}{4}$ " tube weld, $\frac{1}{4}$ " pipe weld, $\frac{1}{2}$ " tube weld

High Flow Back Pressure Regulators

Maximum Temperature and Control Pressures

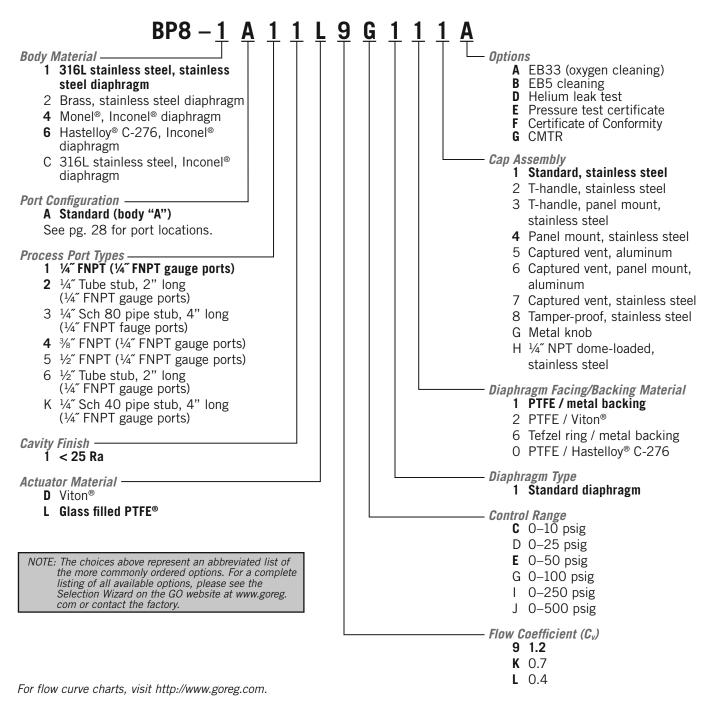
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	250 psig (1.72 MPa)
Glass filled PTFE	250° F (121° C)	@	500 psig (3.44 MPa)

Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.

To Order, contact your local Distributor Link below:	Verify that your chosen part number is valid using the GO Wizards at
www.goreg.com/distributor/index.htm	www.goreg.com/products/matrix/index.htm

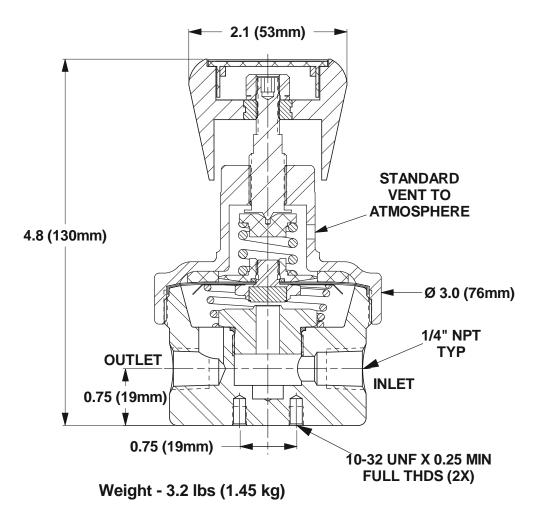
How to Order

For additional configurations, consult the factory. Standard items in bold.



High Flow Back Pressure Regulators

Outline and Mounting Dimensions



BP-8LF Series

High Sensitivity Back Pressure Regulators

Introduction

The BP-8LF Series back pressure regulator is designed to furnish precise low back pressure control in analytical instrumentation. With the combination of the large diaphragm sensing area of the BP-8 Series Regulator and the low flow seat assembly of the BP-3 Series pressure regulator, pressure control down to 10 inches of water is easily obtainable.



Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel (standard) Monel [®] or Hastelloy [®] C-276 (optional)
ADJUSTABLE STANDARD Pressure Ranges	0–6, 0–25, 0–50, 0–75, 0–125, 0–250 & 0–500 psig
OPERATING Temperature	-40° F to +500° F (-40° C to +260° C)
C _v coefficient	0.2 (standard) 0.03, 0.05, 0.06, 0.12, 0.24, 0.3, 0.095, 0.025, 0.04, 0.005, 0.01 (optional)
INLET & OUTLET Connections	¼″ FNPT

Features & Benefits

- Sensitive pressure control
- Low pressure adjustability
- Standard PTFE / Viton[®] diaphragm

Options

• PTFE / stainless steel diaphragm

High Sensitivity Back Pressure Regulators

Maximum Temperature and Control Pressures

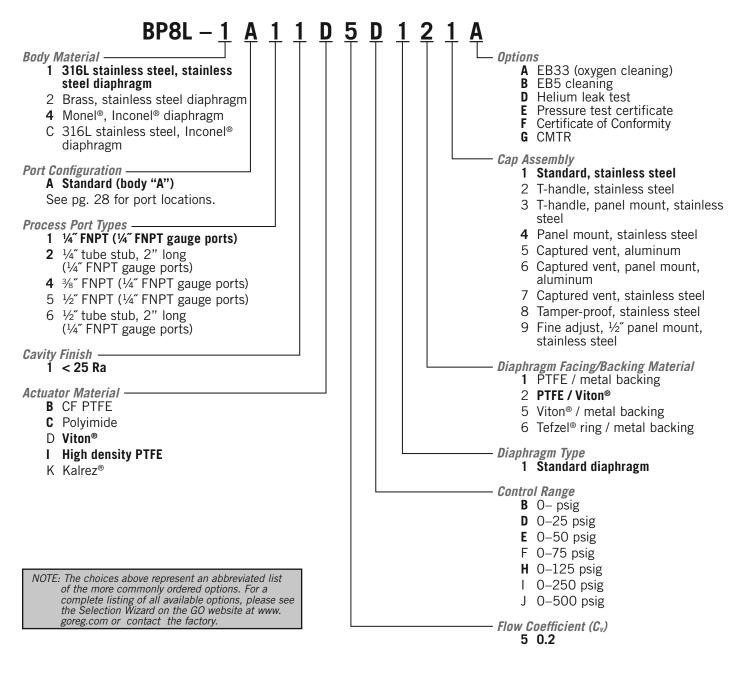
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	500 psig (5.16 MPa)
Kalrez®	300° F (148° C)	@	500 psig (5.16 MPa)
High density PTFE	200° F (93° C)	@	500 psig (5.16 MPa)
Polyimide	500° F (260° C)	@	500 psig (5.16 MPa)

Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.

To Order, contact your local Distributor Link below: www.goreg.com/distributor/index.htm Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

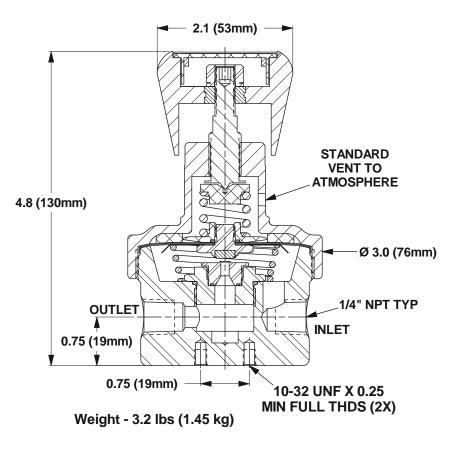
How to Order

For additional configurations, consult the factory. Standard items in bold.



High Sensitivity Back Pressure Regulators

Outline and Mounting Dimensions





CBP-3 Series

Compact Stainless Steel Back Pressure Regulators

Introduction

The CBP-3 Series is a compact back pressure regulator with some of the time proven features of the BP-3 Series and new features evolving the compact size. This regulator is designed to allow the construction of compact sophisticated analytical instrumentation where the optimum in back pressure control is required. Standard features allow service in many varied applications including corrosive fluids and with the optional features available, the user can tailor this regulator to virtually any application requiring small to moderate flow rates.



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Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Petrochemical industry
- Air compressors
- Research labs
- Pilot plants

Technical Data

CONSTRUCTION	316L stainless steel
ADJUSTABLE STANDARD Pressure Ranges	0-10, 0-25, 0-50, 0-100, 0-250 & 0-500 psig
OPERATING Temperature	-40° F to +500° F (-40° C to +260° C)
C _v coefficient	0.2 (standard) 0.005, 0.01, 0.025, 0.03, 0.04, 0.05, 0.06, 0.095, 0.12, 0.24, 0.3 (optional)
INLET & OUTLET Connections	⅓″ FNPT

Features & Benefits

- Gas or liquid service
- Bubble tight shutoff
- Compact size
- Tefzel[®] or Kalrez[®] in flow stream

Options

- Panel mount (requires a 1³/₆" mounting hole)
- Extra ports
- Special welded connections
- Pressure gauges

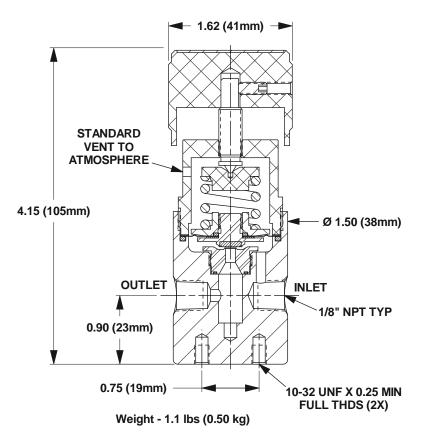
Compact Stainless Steel Back Pressure Regulators

Maximum Temperature and Control Pressures SEAT MATERIAL MAXIMUM TEMPERATURE MAXIMUM CONTROL RANGE @ Viton® 250° F (121° C) @ 250 psig (1.72 MPa) Kalrez® @ 250 psig (1.72 MPa) 300° F (148° C) Tefzel® 175° F (80° C) @ 500 psig (3.44 MPa) Polyimide 500° F (260° C) @ 500 psig (3.44 MPa) To Order, contact your local Distributor Link below: Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/distributor/index.htm www.goreg.com/products/matrix/index.htm How to Order For additional configurations, consult the factory. Standard items in bold. CBP-3 – <u>1 A O 1 K 5 E</u> Body Material -**Options** 1 316L stainless steel A EB33 (oxygen cleaning) **B** EB5 cleaning Port Configuration -D Helium leak test A Standard (body "A") Pressure test certificate E See pg. 28 for port locations. F. Certificate of Conformity G CMTR Process Port Types -Cap Assembly 2 1/4" Tube stub, 2" long 1 Standard, aluminum (¹/₄" FNPT gauge ports) 4 Panel mount, aluminum 0 1/8" FNPT (1/8" FNPT gauge ports) 8 Tamper-proof, aluminum **Cavity Finish** 9 Fine adjust, 1/2" panel mount, 1 < 25 Ra aluminum Fine adjust, 13%" panel mount, 0 Actuator Material aluminum A Tefzel® E Tamper-proof, panel mount, aluminum C Polyimide D Viton® Diaphragm Facing/Backing/O-ring Material K Kalrez® 1 Tefzel[®] seal ring / stainless steel / PTFE Q PEEK™ 2 Tefzel[®] seal ring / Inconel[®] / PTFE 3 PTFE facing / Viton[®] / Viton[®] 7 Tefzel[®] seal ring / stainless steel / Viton® H Tefzel® seal ring / Inconel® / Viton® Diaphragm Type 1 Standard, Nylon diaphragm slip ring (170° F max. temp) 2 Standard, Polyimide diaphragm slip ring (high temp. service) **Control Range C** 0–10 psig **D** 0–25 psig **E** 0–50 psig G 0-100 psig NOTE: The choices above represent an abbreviated list I 0−250 psig of the more commonly ordered options. For a J 0-500 psig complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory. Flow Coefficient (C_v) 5 0.2

For flow curve charts, visit http://www.goreg.com.

Compact Stainless Steel Back Pressure Regulators

Outline and Mounting Dimensions



LB-1 Series

Ultra-miniature Back Pressure Regulators

Introduction

The LB-1 is an ultra-miniature back pressure regulator that employs many of the same features found in the time-tested design of the CBP-3 & BP-3 Series back pressure regulators. Designed for surface, panel or manifold mounting, the LB-1 offers the utmost in versatility to the systems designer. It's low internal volume of less than 3cc makes the LB-1 the perfect choice for systems that require rapid purge cycles. Standard features permit using this regulator in a wide variety of services, including corrosive fluids. The LB-1 can be tailored to virtually any application by choosing the optional features. This regulator is designed to allow the construction of compact and sophisticated analytical instrumentation where the optimum in back pressure control is required and space is at a premium.



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Typical Applications

- Instrumentation systems requiring rapid purge cycles
- Systems with limited space availability
- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel, aluminum, brass, or Monel®
ADJUSTABLE STANDARD Pressure Ranges	0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
OPERATING Temperature	-40° F to +500° F (-40° C to +260° C)
C _v coefficient	0.2

Features & Benefits

- Gas or liquid service
- Bubble tight shutoff

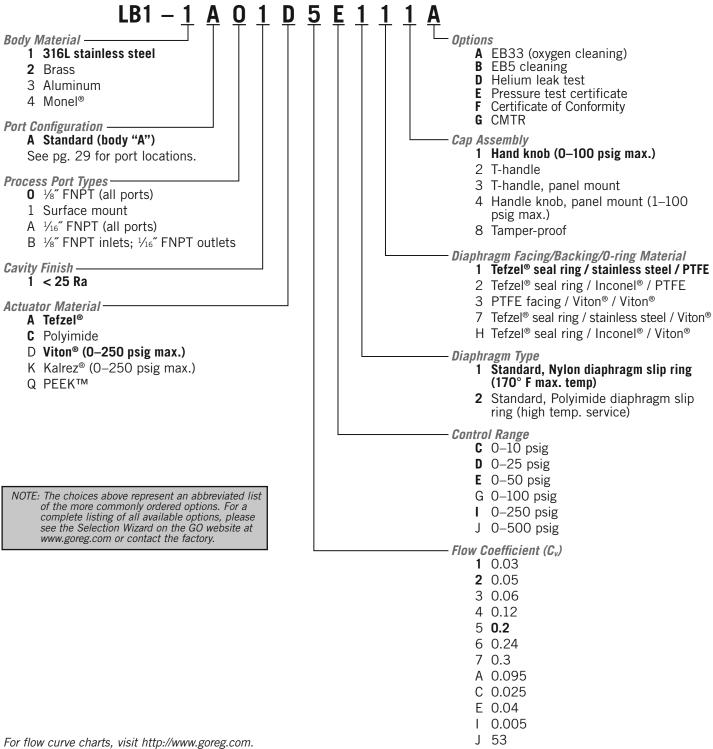
Ultra-miniature Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	250 psig (1.72 MPa)
Kalrez®	300° F (148° C)	@	250 psig (1.72 MPa)
Tefzel®	175° F (80° C)	@	500 psig (3.44 MPa)
Polyimide	500° F (260° C)	@	500 psig (3.44 MPa)
PEEK™	500° F (260° C)	@	500 psig (3.44 MPa)

How to Order

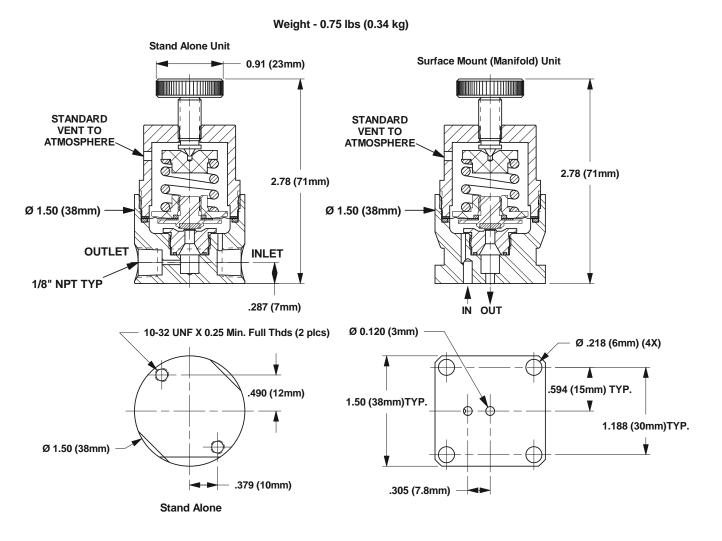
For additional configurations, consult the factory. Standard items in bold.





Ultra-miniature Back Pressure Regulators

Outline and Mounting Dimensions



SBPR Series

Subatmospheric Back Pressure Regulators

Introduction

The SBPR Series subatmospheric back pressure regulator is designed to provide precise upstream vacuum control. One example of this could be to introduce a sample gas at a positive pressure into a vacuum chamber. Downstream from this chamber would be the SBPR and a vacuum pump. The positive pressure will build up in the chamber causing the SBPR to open and allow the chamber to return to the vacuum desired. The SBPR will then close and the process will repeat. The large diameter diaphragm aided by a vacuum assist spring, provides the user with optimum sensitivity for subatmospheric pressure control.



Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel or brass (standard) Monel [®] and Hastelloy [®] C-276 (optional)
ADJUSTABLE PRESSURE Control Ranges	1–30 psia (–27.7 in. H20 to 15.3 psig)
OPERATING Temperature	-40° F to +300° F (-40° C to +148° C)
C _V COEFFICIENT	0.2
INLET/OUTLET Connections	¹ ⁄4" FNPT

Features & Benefits

- Subatmospheric or positive back pressure control
- Large diaphragm for sensitive pressure control

Options

- Extra ports
- Panel mount (requires a 1³/₈" mounting hole)
- Pressure gauges
- Optional welded connections
- Smaller orifice sizes available: 0.005, 0.03

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Subatmospheric Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	1–30 psia
Kalrez®	300° F (148° C)	@	1–30 psia
Teflon®	200° F (93° C)	@	1–30 psia

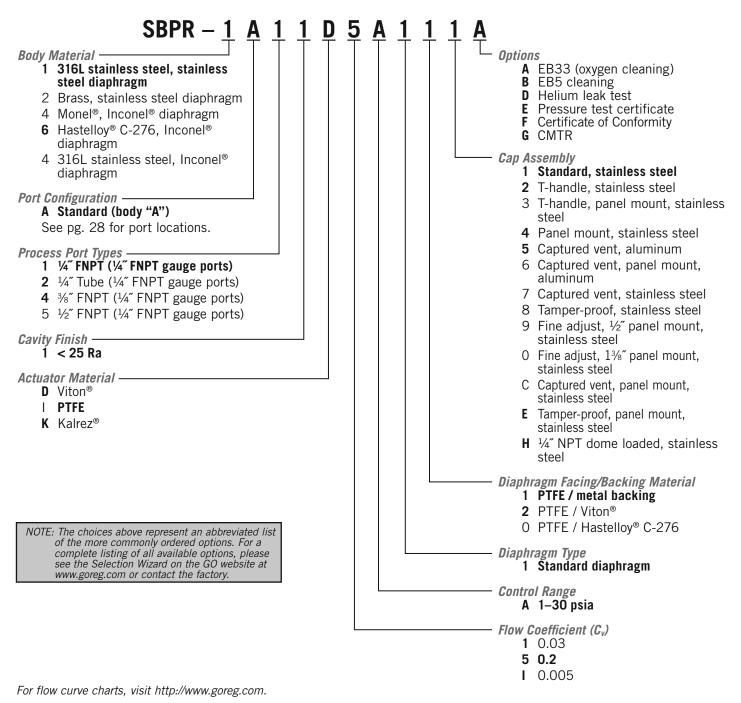
Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.

To Order, contact your local Distributor Link below:	
www.goreg.com/distributor/index.htm	

Verify that your chosen part number is valid using the GO Wizards at <u>www.goreg.com/products/matrix/index.htm</u>

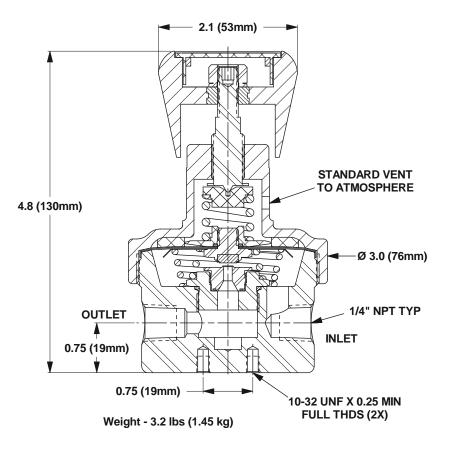
How to Order

For additional configurations, consult the factory. Standard items in bold.



Subatmospheric Back Pressure Regulators

Outline and Mounting Dimensions



BP-60 Series

High Pressure Back Pressure Regulators

Introduction

The BP-60 Series is the counterpart of the PR-50 pressure reducing series for systems that are higher in pressure and low to moderate flows. This regulator has a diaphragm for maximum sensitivity in providing relief at high pressures. The PTFE stainless seat assembly provides good shutoff in most applications. For economy purposes the cap assembly and knob are of aluminum construction as in the PR-50 companion unit. Good sensitivity and a wide selection of control ranges make this regulator an excellent selection in many research and pilot plant facilities.



Typical Applications

- Sampling Systems
- Pilot plants
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel or brass (alloy 360) Monel® and Hastelloy® C-276 (optional)
ADJUSTABLE PRESSURE Control Ranges	0-500, 0-1000 and 0-2000 psig
OPERATING Temperature	-40° F to +350° F (-40° C to +175° C)
C _V COEFFICIENT	0.04
INLET/OUTLET Connections	¹ ⁄4" FNPT

Features & Benefits

- Designed for moderate flow applications
- Diaphragm sensing with nylon, PTFE or stainless steel diaphragm
- Bubble tight shutoff

Options

- Various Cv's available 0.005, 0.01, 0.025, 0.09
 - Panel mounting
- ¾" FNPT, AN 10050-4, SAE J514 or MS 33649 connections

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High Pressure Back Pressure Regulators

Maximum Temperature and Control Pressures

Nylon Diaphragm Backing

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Tefzel®	175° F (80° C)	@	1000 psig (6.89 MPa)
PTFE	175° F (80° C)	@	1000 psig (6.89 MPa)
Polyimide	175° F (80° C)	@	2000 psig (13.76 MPa)
PEEK™	175° F (80° C)	@	2000 psig (13.76 MPa)

PTFE Diaphragm Backing

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Tefzel®	175° F (80° C)	@	2000 psig (13.76 MPa)
PTFE	175° F (80° C)	@	2000 psig (13.76 MPa)
Polyimide	350° F (176° C)	@	2000 psig (13.76 MPa)
PEEK™	350° F (176° C)	@	2000 psig (13.76 MPa)

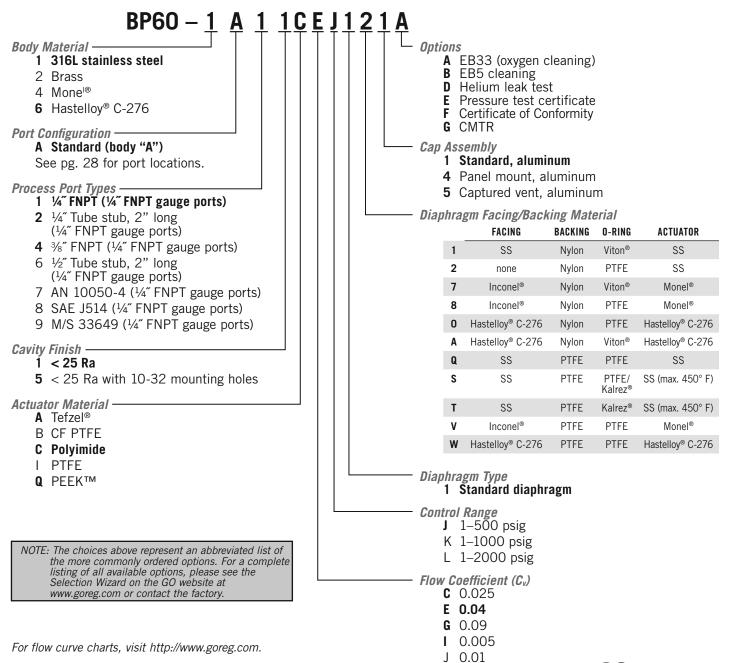
To Order, contact your local Distributor Link below: www.goreg.com/distributor/index.htm

Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

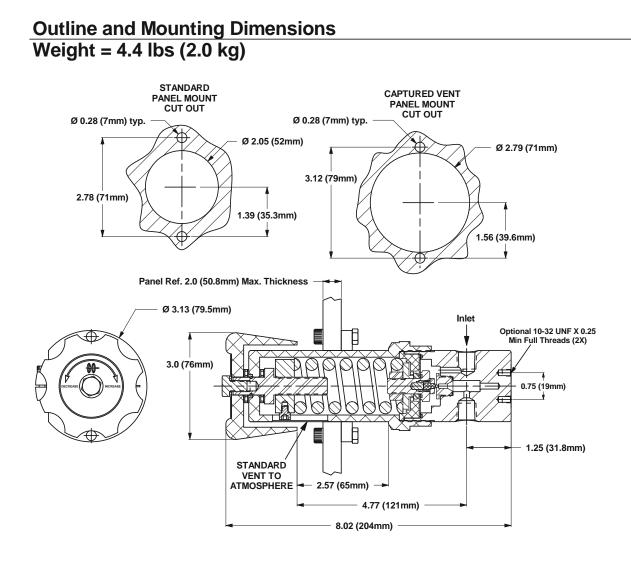
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How to Order

For additional configurations, consult the factory. Standard items in bold.



Outline and Mounting Dimensions





BP-66 Series

High Pressure Back Pressure Regulators (10,000 psig)

Introduction

The BP-66 Series is the counterpart of the PR-57 pressure reducing series for systems that are higher in pressure and low to moderate flows. This regulator has piston sensing to provide relief at high pressures. The Polyimide/stainless seat assembly provides good shutoff in most applications. For economy purposes the cap assembly and knob are of aluminum construction as in the PR-57 companion unit. Good sensitivity and a selection of control ranges make this regulator an excellent selection in many research and pilot plant facilities.



Typical Applications

- Pilot plants
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel (standard) Monel [®] and titanium (optional)
ADJUSTABLE PRESSURE Control Ranges	0-2000, 0-4000, 0-6000, 0-7500 and 0-10,000 psig
OPERATING Temperature	-40° F to +350° F (-40° C to +177° C)
C _v coefficient	0.04 (standard) 0.01 and 0.12 (optional)
INLET/OUTLET Connections	¼" FNPT (standard) AN 10050-4, SAE J514, MS 33649, or %" FNPT (optional)

Features & Benefits

- Spring-loaded piston sensor
- Gas and liquid service
- Viton[®] seals (other elastomers optional)

Options:

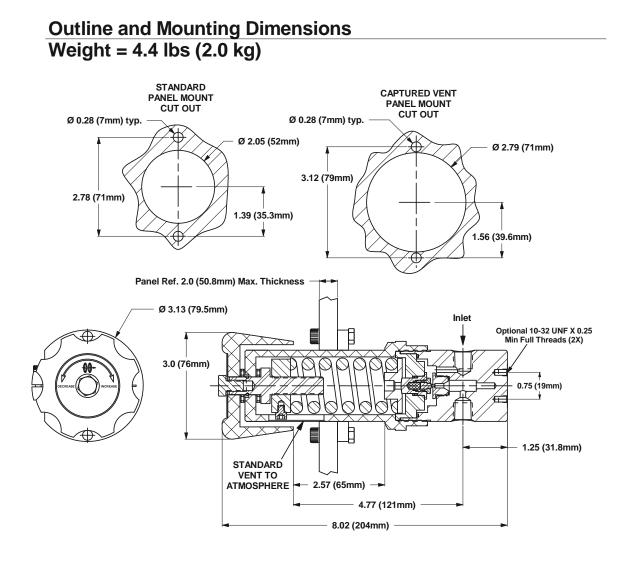
- Panel mounting
- Monel[®] and titanium body construction
 - Cv of 0.01 or 0.12
- AN 10050-4, SAE J514, MS 33649 or ³/₈" FNPT connections

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High Pressure Back Pressure Regulators (10,000 psig)

Maximum Temperatur	e and Control Pre	ssure	S
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Polyimide	350° F (177° C)	@	10,000 psig (68.8 MPa)
PEEK™	350° F (177° C)	@	10,000 psig (68.8 MPa)
To Order, contact your local Distributor www.goreg.com/distributor/inde			mber is valid using the GO Wizards at roducts/matrix/index.htm
For additional configurations	, consult the factory. Sta	andard i	items in bold.
BP Body Material 1 316L stainless steel 4 Monel® 7 Titanium Port Configuration A Standard (body "A") See pg. 28 for port locat Process Port Types 1 ¼″ FNPT (¼″ FNPT Gau 2 ¼″ Tube stub, 2" long (¼″ FNPT gauge ports 4 ¾″ FNPT gauge ports 4 ¾″ FNPT gauge ports 4 ¾″ FNPT gauge ports 7 AN 10050-4 (¼″ FNPT 8 SAE J514 (¼″ FNPT gau 9 M/S 33649 (¼″ FNPT 1 < 25 Ra 5 < 25 Ra with 10-32 references Actuator Material	ge Ports) auge ports) b T gauge ports) gauge ports) gauge ports)	<u>C</u>	E N 1 5 1 A Options A EB33 (oxygen cleaning) B EB5 cleaning D Helium leak test E Pressure test certificate F Certificate of Conformity G G CMTR Cap Assembly 1 Standard, aluminum 4 Panel mount, aluminum 5 Captured vent, panel mount, aluminum 6 Captured vent, stainless steel F Stainless steel Piston Material 5 5 Stainless steel with standard Viton® cavity o-ring 6 Stainless steel with optional PTFE cavity o-ring B Monel® S Titanium
C Polyimide Q PEEK™ NOTE: The choices above represe of the more commonly orde complete listing of all availa see the Selection Wizard or www.goreg.com or contact i	red options. For a able options, please a the GO website at		Piston Type 1 Standard Control Range L 0-2000 psig N 0-4000 psig O 0.0-6000 psig P 0-7500 psig Q 0-10,000 psig Flow Coefficient (C _v) 4 0.12 E 0.04 J 0.01

Outline and Mounting Dimensions





Dome Loaded Pressure Regulators

Index

IIIGOA	
Safety Warning	Inside Front Cover
DL-50	1
DL-56	3
DL-57	5
DL-59	7
Porting Configuration	ons 9
Disclaimers	Inside Back Cover



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For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized GO Regulator sales and service representative for information about additional sizes and special alloys.

SAFETY WARNING:

GO Regulator products are designed for installation only by professional suitably qualified licensed system installers experienced in the applications and environments for which the products are intended. These products are intended for integration into a system. Where these products are to be used with flammable or hazardous media, precautions must be taken by the system designer and installer to ensure the safety of persons and property. Flammable or hazardous media pose risks associated with fire or explosion, as well as burning, poisoning or other injury or death to persons and/ or destruction of property. The system designer and installer must provide for the capture and control of such substances from any vents in the product(s). The system installer must not permit any leakage or uncontrolled escape of hazardous or flammable substances. The system operator must be trained to follow appropriate precautions and must inspect and maintain the system and its components including the product(s) and at regular intervals in accordance with timescales recommended by the supplier to prevent unacceptable wear or failure.

DL-50 Series

Dome-loaded Pressure Regulator

The DL-50 is a compact and robust design which employs a unique "Dual Piston" set up that enables the user to control pressure up to 6000 psig (414 bar) with as little as 100 psig (7 bar) of dome pressure. All of this is accomplished within the smallest envelope the industry has to offer.

The regulator portion of this unit was patterned after the time tested PR-50 Series, which is widely recognized as a benchmark of performance and quality. Offering the utmost in economy and safety, this unit is constructed from 316L stainless steel. A carefully engineered diaphragm/piston sensor unit offers good sensitivity and repeatability.

Completing this design is the addition of a 316 stainless steel dome unit. The inlet ring to the dome is freely rotating and captured by a high tensile snap ring. This feature allows easy positioning and alignment of the dome gas line within a customer's system while maintaining excellent leak integrity.



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Typical Applications

- Pilot plant
- Off-shore oil and gas rigs
- Pneumatic test benches
- Component testing
- R & D systems
- High pressure booster systems

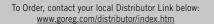
Technical Data

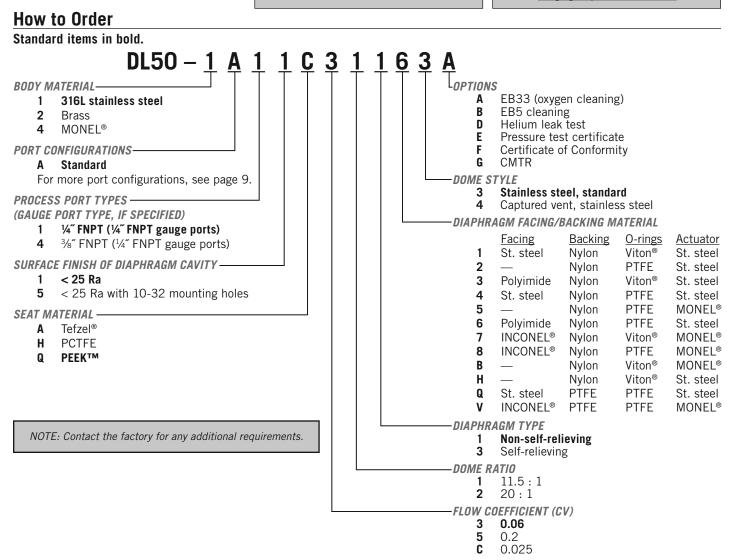
CONSTRUCTION	316L stainless steel construction (Brass and MONEL® optional)
DOME RATIOS	11.5 : 1, 20 : 1
INLET/OUTLET PORTS	¹ /4" FNPT (standard)
OUTLET PRESSURE	up to 2000 psig (138 bar)
Cv COEFFICIENTS	0.025, 0.06, 0.2

Features & Benefits

- Gas or liquid service
- Better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble-tight shutoff
- Diaphragm type sensing
- Remote dome-loading

DL-50 Series





Maximum Temperature & **Operating Inlet Pressures**

Nylon Diaphragm Backing

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (248 bar)
PCTFE	175° F (80° C)	@	6000 psig (414 bar)
PEEK™	175° F (80° C)	@	6000 psig (414 bar)

PTFE Diaphragm Backing

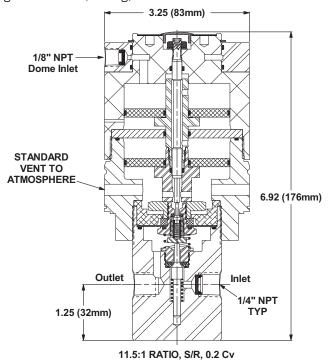
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (248 bar)
PCTFE	175° F (80° C)	@	6000 psig (414 bar)
PEEK™	350° F (177° C)	@	6000 psig (414 bar)

MONEL[®] is a registered trademark of Special Metals Corporation. Tefzel[®] is a registered trademark of the DuPont Company. Kel-F[®] is a registered trademark of 3M Company. PEEK™ is a trademark of Victrex PLC.

Viton[®] is a registered trademark of DuPont Dow Elastomers.

Outline and Mounting Dimensions

Weight = 5.1 lbs (2.31kg)



DL-56 Series

Dome-loaded Pressure Regulator

The DL-56 is a compact and robust design which employs a unique "Dual Piston" set up that enables the user to control pressure up to 6000 psig (414 bar) with as little as 40 psig (3 bar) of dome pressure. All of this is accomplished within the smallest envelope the industry has to offer.

The regulator portion of this unit was patterned after the time tested PR-56 Series, which is widely recognized as a benchmark of performance and quality. Offering the utmost in economy and safety, this unit is constructed from brass alloy 360. A carefully engineered all 316L stainless steel piston sensor unit offers good sensitivity and repeatability. An independent test was run and showed that the unit's ability to repeat to a set point and low operating hysteresis is unsurpassed through out the industry.

Completing this design is the addition of a 316 stainless steel dome unit. The inlet ring to the dome is freely rotating and captured by a high tensile snap ring. This feature allows easy positioning and alignment of the dome gas line within a customer's system while maintaining excellent leak integrity.



Typical Applications

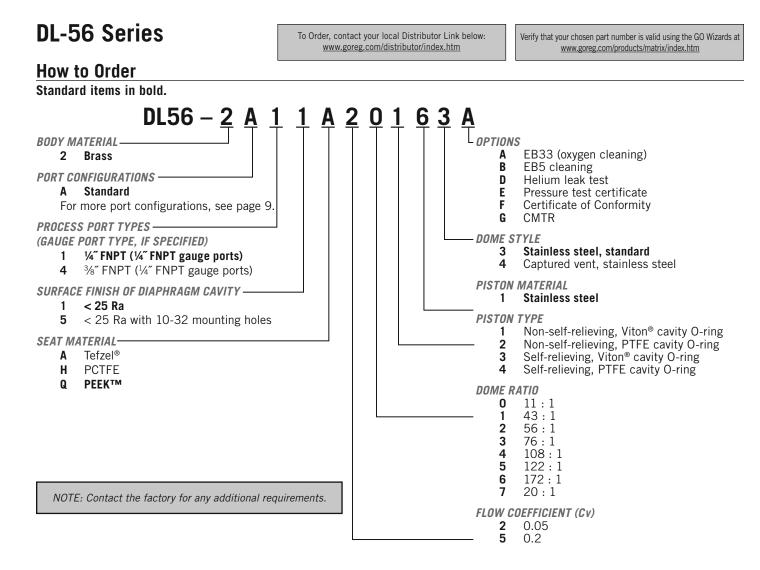
- Pilot plant
- Off-shore oil and gas rigs
- Pneumatic test benches
- Component testing
- R & D systems
- High pressure booster systems

Technical Data

CONSTRUCTION	Brass (alloy 360)
DOME RATIOS	11 : 1, 20 : 1, 43 : 1, 56 : 1, 76 : 1,
	108 : 1, 122 : 1 and 172 : 1
INLET/OUTLET PORTS	¹ /4" FNPT (standard)
OUTLET PRESSURES	up to 6000 psig (414 bar)
Cv COEFFICIENTS	0.05, 0.20

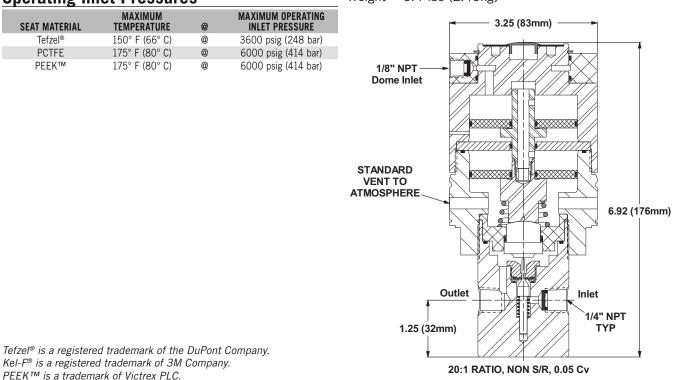
Features & Benefits

- Gas or liquid service
- Better than 25 Ra finish in diaphragm cavity
- Stainless steel piston sensor
- 20 micron inlet filter
- Bubble-tight shutoff
- Remote dome-loading



Maximum Temperature & Operating Inlet Pressures

Outline and Mounting Dimensions Weight = 5.4 lbs (2.45kg)



Viton[®] is a registered trademark of DuPont Dow Elastomers.

DL-57 Series

Dome-loaded Pressure Regulator

The DL-57 is a compact and robust design which employs a unique "Dual Piston" set up that enables the user to control pressure up to 10,000 psig (689 bar) with as little as 58 psig(4 bar) of dome pressure. All of this is accomplished within the smallest envelope the industry has to offer.

The regulator portion of this unit was patterned after the time tested PR-57 Series, which is widely recognized as a benchmark of performance and quality. Offering the utmost in safety and corrosion prevention, this unit is constructed from 316L stainless steel. A carefully engineered piston sensor unit offers good sensitivity and repeatability. An independent test was run and showed that the unit's ability to repeat to a set point and low operating hysteresis is unsurpassed through out the industry.

Completing this design is the addition of a 316 stainless steel dome unit. The inlet ring to the dome is freely rotating and captured by a high tensile snap ring. This feature allows easy positioning and alignment of the dome gas line within a customer's system while maintaining excellent leak integrity.



Typical Applications

- Pilot plant
- Off-shore oil and gas rigs
- Pneumatic test benches
- Component testing
- R & D systems
- High pressure booster systems

Technical Data

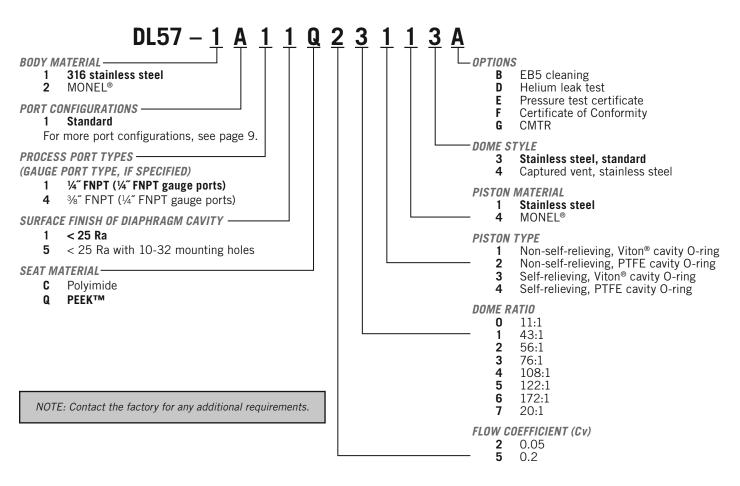
316L stainless steel construction (MONEL [®] optional)
11:1, 20:1, 43:1, 56:1, 76:1, 108:1, 122:1, and 172:1
¹ /4" FNPT (standard)
up to 10,000 psig (689 bar)
0.05, 0.20

Features & Specifications

- · Gas or liquid service
- Better than 25 Ra finish in diaphragm cavity
- Stainless steel piston sensor
- 20 micron inlet filter
- Bubble-tight shutoff
- Remote dome-loading

DL-57 Series

How to Order

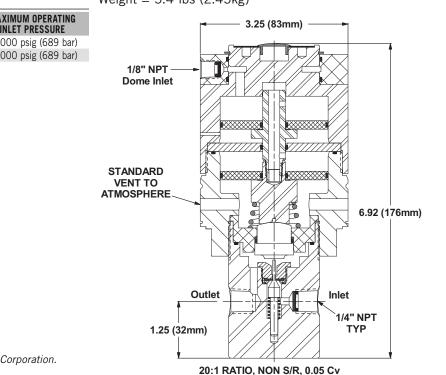


Maximum Temperature & Operating Inlet Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
Polyimide	150° F (66° C)	@	10,000 psig (689 bar)
PEEK™	150° F (66° C)	@	10,000 psig (689 bar)

Outline and Mounting Dimensions

Weight = 5.4 lbs (2.45kg)



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6

DL-59 Series

Dome-loaded Pressure Regulator

Responding to the needs of the industry for a simple, safe and effective way to remotely load high pressure regulators, GO Regulator designed and developed a line of low profile dome loading units.

This compact and robust design employs a unique "Dual Piston" set up which enables the user to control pressure up to 4000 psig (276 bar) with as little as 36 psig (2 bar) of dome pressure. All of this is accomplished within the smallest envelope the industry has to offer!

The regulator portion of this unit was patterned after the time tested PR-59 Series, which is widely recognized as a benchmark of performance and quality. Offering the utmost in safety and corrosion prevention, this unit is constructed from 316L stainless steel. A carefully engineered piston sensor unit offers good sensitivity and repeatability. This is coupled with the large Cv of the PR-59 of 1.20.

Completing this design is the addition of a 316 stainless steel dome unit. The inlet ring to the dome is freely rotating and captured by a high tensile snap ring. This feature allows easy positioning and alignment of the dome gas line within a customer's system while maintaining excellent leak integrity.



)ressure ulato

Typical Applications

- Pilot plant
- Pneumatic high flow test benches
- Bulk gas delivery
- R & D systems

Technical Data

CONSTRUCTION	316L stainless steel construction (Brass and MONEL [®] optional)
DOME RATIOS	11:1, 20:1, 43:1, 56:1, 76:1, 108:1, 122:1, and 172:1
OUTLET PRESSURES	up to 4000 psig (276 bar)
Cv COEFFICIENTS	1.2 (standard)

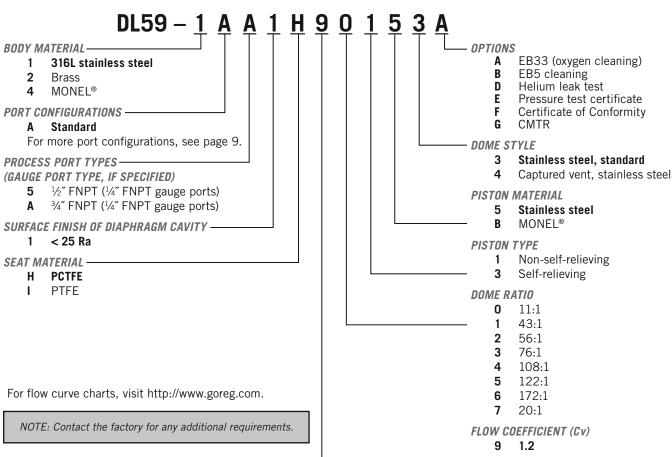
Features & Benefits

- Gas or liquid service
- Better than 25 Ra finish in diaphragm cavity
- Stainless steel piston sensor
- 20 micron inlet filter
- Bubble-tight shutoff

DL-59 Series

How to Order

Standard items in bold.

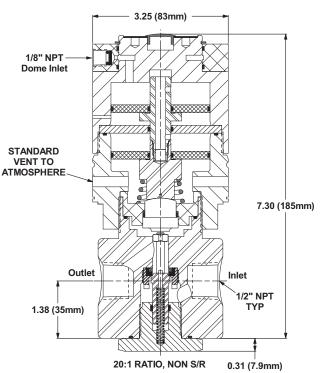


Maximum Temperature & Operating Inlet Pressures

MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE	Ľ
175° F (80° C)	@	4000 psig (276 bar)	
150° F (66° C)	@	1000 psig (69 bar)	
	TEMPERATURE 175° F (80° C)	TEMPERATURE @ 175° F (80° C) @	TEMPERATURE @ INLET PRESSURE 175° F (80° C) @ 4000 psig (276 bar)

Outline and Mounting Dimensions

Weight = 8.4 lbs (3.8kg)



MONEL® is a registered trademark of Special Metals Corporation. Kel-F® is a registered trademark of 3M Company.

Filters

Index

Safety Warning F-4 Series Line Filter F-6K Series Line Filter Disclaimers

Inside Front Cover 1 3 Inside Back Cover







For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized GO Regulator sales and service representative for information about additional sizes and special alloys.

SAFETY WARNING:

GO Regulator products are designed for installation only by professional suitably qualified licensed system installers experienced in the applications and environments for which the products are intended. These products are intended for integration into a system. Where these products are to be used with flammable or hazardous media, precautions must be taken by the system designer and installer to ensure the safety of persons and property. Flammable or hazardous media pose risks associated with fire or explosion, as well as burning, poisoning or other injury or death to persons and/ or destruction of property. The system designer and installer must provide for the capture and control of such substances from any vents in the product(s). The system installer must not permit any leakage or uncontrolled escape of hazardous or flammable substances. The system operator must be trained to follow appropriate precautions and must inspect and maintain the system and its components including the product(s) and at regular intervals in accordance with timescales recommended by the supplier to prevent unacceptable wear or failure.





This filter is designed to be used as a standard in-line filter or it may easily be threaded into a pressure regulator or valve body for inlet protection. If desired, we will install this filter for you into any of our standard pressure control products prior to shipment.

For your special requirements, this filter can be custom manufactured from almost any machinable alloy. Let us know your requirement.

Features & Specifications

- Compact size
- Economical design
- Easily changed filter elements
- Stainless steel body (316 series) with PTFE seals
- Nominal micron (µ) ratings of filtration available: 10µ sintered 316 stainless steel 20µ sintered 316 stainless steel 50µ sintered 316 stainless steel 70µ sintered 316 stainless steel 100µ 316 stainless steel mesh 200µ 316 stainless steel mesh 300µ 316 stainless steel mesh
- Pressures up to 6,000 psig (41.37 MPa)
- filters

F-4 Series In-line Filter

How to Order

Part No. 102120-10 Standard filter with 10 micron nominal filtration

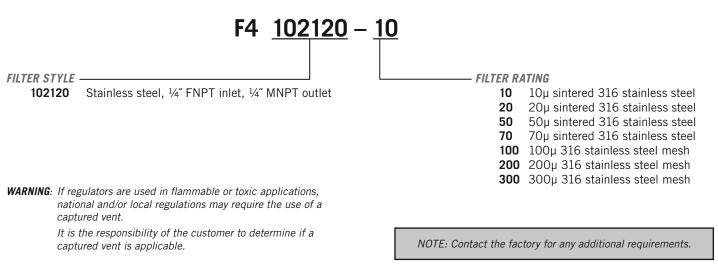
70µ nominal filtration

100µ nominal filtration

 150μ nominal filtration 200μ nominal filtration

300µ nominal filtration

If other than the standard 10 micron (μ) filtration is desired, specify by the use of a dash number. For example: **102120-20** for 20 micron sintered 316 stainless steel filtration or **102120-200** for 200 micron stainless steel mesh filtration.



Maximum Temperature & Operating Inlet Pressures

Outline Dimensions Maximum Temperature 1/4" FNPT **Operating Inlet Pressure** 6,000 psig (41.37 MPa) 450° F (232° C) @ FLOW 1.63" (41.4mm) **Repair Kit Information** 1/4" MNPT Part Number Description 1.00" (25mm) 100089 Screen filter kit (specify porosity) HEX G100089-10 10µ nominal filtration G100089-20 20µ nominal filtration G100089-50 50µ nominal filtration

G100089-70

G100089-100

G100089-150

G100089-200 G100089-300

GO_{REGULATOR}, INC. F-6K In-line or Bypass Filter



The F-6K in-line or bypass filter has been designed with bar stock construction to provide reliable and economical filtration of streams having pressures up to 6,000 psig (41.37 MPa) at 70° F (20° C).

Materials of construction (standard) are 316 stainless steel and PTFE for maximum service capability at economical prices. If a greater level of corrosion protection is required, this unit can be made (option) from MONEL[®] or HASTELLOY[®] C-276. The sintered 316 stainless steel filter element, with filtration ranges between 2 and 55 microns (μ), can be easily changed without removing the filter from the line. Standard connections are ¹/₄" FNPT. The optional bypass port is standard as ¹/₈" FNPT.

Features & Specifications

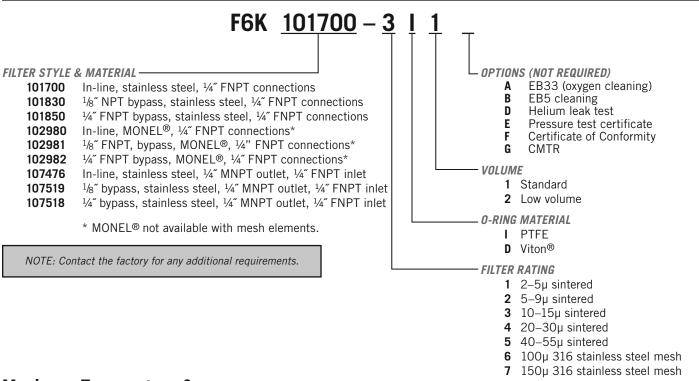
Nominal ratings of filtration available: 2–5µ sintered 5–9µ sintered 10–15µ sintered 20–30µ sintered 40–55µ sintered 100µ 316 stainless steel mesh 150µ 316 stainless steel mesh
Available with optional bypass

filters

F-6K In-line or Bypass Filter To Order, contact your local Distributor Link below:

www.goreg.com/distributor/index.htm

How to Order



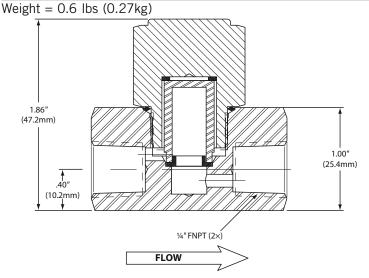
Maximum Temperature & **Operating Inlet Pressures**

Seal Material	Maximum Temperature	@	Operating Inlet Pressure
Viton®	70° F (20° C)	@	6,000 psig (41.37 MPa)
VILOII©	175 ° F (80° C)	@	3,600 psig (24.82 MPa)
PTFF	70° F (20° C)	@	6,000 psig (41.37 MPa)
PIFE	150° F (66° C)	@	3,600 psig (24.82 MPa)

WARNING: If regulators are used in flammable or toxic applications, national and/or local regulations may require the use of a captured vent.

> It is the responsibility of the customer to determine if a captured vent is applicable.

Outline Dimensions



Repair Kit Information

Stainless Steel	
Part Number	Description
101705	In-line 2–5µ range
101706	In-line 5–9µ range
101707	In-line 10–15µ range
101708	In-line 20–30µ range
101709	In-line 40–50µ range
101855	In-line 100µ mesh element
101833	Bypass 2–5µ range
101832	Bypass 5–9µ range
101834	Bypass 10–15µ range
101835	Bypass 20–30µ range
101836	Bypass 40–55µ range

MONEL[®] is a registered trademark of Special Metals Corporation. HASTELLOY® C-276 is a registered trademark of Haynes International, Inc. Viton[®] is a registered trademark of DuPont Dow Elastomers

MONEL®	
Part Number	Description
103861	In-line 2–5µ range
103862	In-line 5–9µ range
103863	In-line 10–15µ range
103864	In-line 20–30µ range
103865	In-line 40–50µ range
103866	Bypass 2–5µ range
103867	Bypass 5–9µ range
103868	Bypass 10–15µ range
103869	Bypass 20–30µ range
103870	Bypass 40–55µ range



Diaphragm Valves

Index

Safety Warning	Inside Front Cover
2-way Diaphragm Valves	1
Pneumatic Actuated Valves	4
DV1 Series-	
How to Order Matrix	7
Disclaimers	Inside Back Cover





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For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. When selecting products, the total system design must be considered to ensure safe, trouble-free performance. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

Contact your authorized GO Regulator sales and service representative for information about additional sizes and special alloys.

SAFETY WARNING:

GO Regulator products are designed for installation only by professional suitably qualified licensed system installers experienced in the applications and environments for which the products are intended. These products are intended for integration into a system. Where these products are to be used with flammable or hazardous media, precautions must be taken by the system designer and installer to ensure the safety of persons and property. Flammable or hazardous media pose risks associated with fire or explosion, as well as burning, poisoning or other injury or death to persons and/ or destruction of property. The system designer and installer must provide for the capture and control of such substances from any vents in the product(s). The system installer must not permit any leakage or uncontrolled escape of hazardous or flammable substances. The system operator must be trained to follow appropriate precautions and must inspect and maintain the system and its components including the product(s) and at regular intervals in accordance with timescales recommended by the supplier to prevent unacceptable wear or failure.

DV1 Series

2-Way Diaphragm Valves

The DV1 Series Diaphragm Valves are totally free of springs, bellows, packing, o-rings and lubricants in the process wetted area. Metal-to-metal seals to atmosphere ensure that there is no transport of undesirable elements into the flow stream, and no escaping of process material into the atmosphere. Elgiloy[®] diaphragms ensure the utmost in corrosion resistance and extend overall valve life.





Typical Applications	Features & Benefits	
Analytical Instrumentation	 2-way on/off control 	
Petrochemical	Metal-to-metal seals to atmosphere to prevent	
Pharmaceutical	leakage	
Chemical	Wide variety of materials for virtually all applications	
	• No dynamic O-rings, springs, or lubricant in wetted	
	flow path to eliminate sample contamination	
	 Very low internal volume (0.16 cc)* 	
	 Manual ¼-plus turn or pneumatic actuation 	
	 Pressures from vacuum (50 torr) to 3600 psig 	
	(248 bar)**	
	 40µ sintered stainless steel air inlet filter extends 	
	life of pneumatic actuator	
	 Internal volume in machined passages of the valve body between mounting surface and sealing diaphragm(s). 	
	** Valves cleaned for oxygen service are limited to 3000 psig	

(207 bar).

Manual ¹/4-plus Turn Valves



Technical Data				
BODY	316L stainless steel, MONEL [®] and HASTELLOY [®] C-276			
SEATS	PCTFE and PEEK™			
DIAPHRAGMS	Elgiloy [®] AMS 5876			
ORIFICE SIZE	0.110" (2.8 mm)			
FLOW CAPACITY	0.17 Cv			
VALVE INTERNAL VOLUME*	0.16 cc			
LEAKAGE	1×10^{-9} cc/sec helium (inboard)			

* Internal volume in machined passages of the valve body between mounting surface and sealing diaphragm(s).

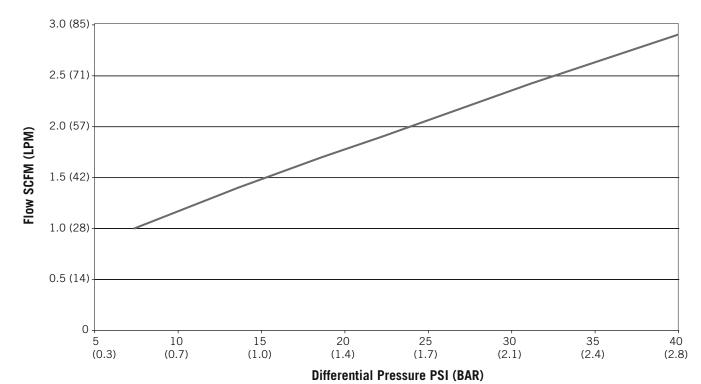
Operating Pressures

OPERATING PRESSURE*	Vacuum (50 torr) to 3600 psig (248 bar)
PROOF PRESSURE	7200 psig
BURST PRESSURE	14,400 psig (497 barg)

* Valves cleaned for oxygen service are limited to 3000 psig (207 bar).

Operating Temperatures

SEAT MATERIAL	1/4-PLUS TURN TEMPERATURE
PCTFE	-40° F to +212° F (-40° C to +100° C)
PEEK™	-40° F to +400° F (-40° C to +204 ° C)



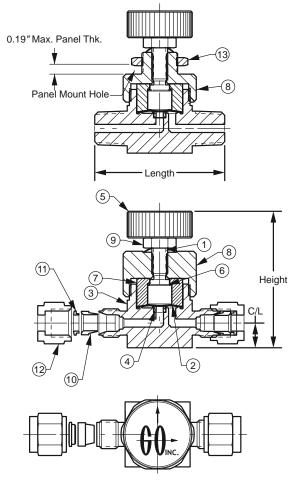
Pressure vs. Flow Curve

Materials of Construction

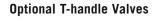
#	PART	MATERIALS
1	Stem	17-4PH stainless steel, condition H900
2	Diaphragm*	Elgiloy®AMS 5876
3	Body*	316L stainless steel, MONEL [®] , HASTELLOY [®] C-276
4	Seat*	PCTFE, PEEK™
5	Handle	316 stainless steel
6	Thrust plug	Brass
7	Diaphragm retainer	316 stainless steel
8	Bonnet	316L stainless steel, MONEL [®] , HASTELLOY [®] C-276
9	Handle nut	18-8 stainless steel
10	Front ferrule*	316L stainless steel, MONEL [®] , HASTELLOY [®] C-276
11	Rear ferrule	316L stainless steel, MONEL [®] , HASTELLOY [®] C-276
12	Nut	316L stainless steel, MONEL [®] , HASTELLOY [®] C-276
13	Panel-mount nut	316L stainless steel, MONEL [®] , HASTELLOY [®] C-276

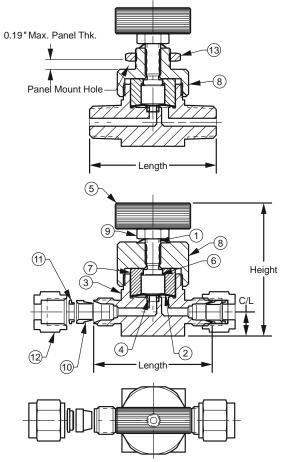
*Wetted components





Top view





Top view

Dimensions

Manual ¹/₄-plus Turn Valves

END CONNECTION	LENGTH	HEIGHT	HANDLE RADIUS	C/L CENTER LINE	PANEL MOUNT HOLE	PANEL MOUNT THICK
1/4" MNPT	2.00″	2.44″	0.90″	0.38″	0.57″	0.19″
1/4" FNPT	2.00″	2.44″	0.90″	0.38″	0.57″	0.19″
‰″ GYROLOK [®]	1.71″	2.44″	0.90″	0.38″	0.57″	0.19″
1/4" GYROLOK®	1.87″	2.44″	0.90″	0.38″	0.57″	0.19″
1/4" NPT extended	3.15″	2.44″	0.90″	0.38″	0.57″	0.19″
6mm GYROLOK [®]	47.5mm	61.98mm	22.86mm	9.65mm	14.48mm	4.83mm
8mm GYROLOK®	47.5mm	61.98mm	22.86mm	9.65mm	14.48mm	4.83mm

Pneumatic Actuated Valves



Technical Data				
BODY	316L stainless steel, MONEL [®] and HASTELLOY [®] C-276			
SEATS PCTFE, PEEK TM				
DIAPHRAGMS	Elgiloy®AMS 5876			
ORIFICE SIZE	0.110" (2.8 mm)			
FLOW CAPACITY	0.17 Cv			
VALVE INTERNAL VOLUME*	0.16 cc			
LEAKAGE	1×10^{-9} cc/sec helium (inboard)			

* Internal volume in machined passages of the valve body between mounting surface and sealing diaphragm(s).

Operating Pressures Ratings

	SMALL DIAMETER	MEDIUM DIAMETER	LARGE DIAMETER
VALVE WORKING PRESSURE*	Vacuum (50 torr) to	Vacuum (50 torr) to	Vacuum (50 torr) to
	500 psig	800 psig	3600 psig
VALVE PROOF PRESSURE	1000 psig	1600 psig	7200 psig
VALVE BURST PRESSURE	2000 psig	3600 psig	14,400 psig

* Valves cleaned for oxygen service are limited to 3000 psig (207 bar).

Operating Temperatures

SEAT MATERIAL	14-PLUS TURN TEMPERATURE
PCTFE	-40° F to +212° F (-40° C to +100° C)
PEEK™	-40° F to +400° F (-40° C to +204 ° C)

Air Actuation Pressure Requirements

psig nominal

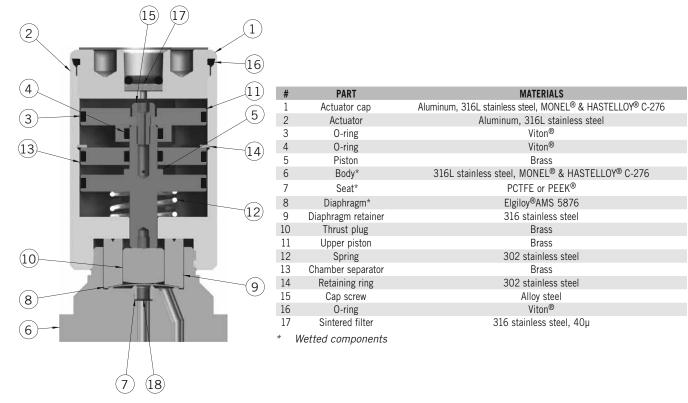
PRESSURE	SMALL DIAMETER	MEDIUM DIAMETER	LARGE DIAMETER
Valve Operating Pressure	Vacuum (50 torr) to 500 psig	Vacuum (50 torr) to 800 psig	Vacuum (50 torr) to 3600 psig
	(Inlet)	(Inlet)	(Inlet)
Actuation Pressure Normally Closed	40 psig (3 bar) (0–250 psig process pressure) 40 psig (3 bar) (251–500 psig process pressure)	40 psig (3 bar) (0–250 psig process pressure) 40 psig (3 bar) (251–500 psig process pressure) 40 psig (3 bar) (501–800 psig process pressure)	50 psig (0–3600 psig process pressure)
Actuation Pressure	40 psig (3 bar)	40 psig (3 bar)	50 psig
Normally Open	(500 psig process pressure)	(800 psig process pressure)	(0–3600 psig process pressure)

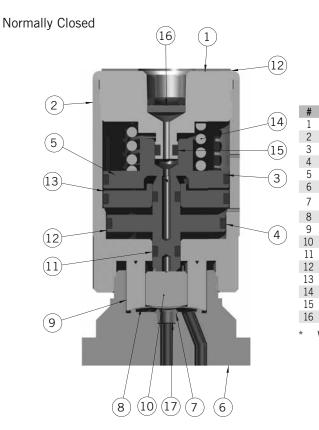
Note: Actuation/Pressure Curves available on the web at www.goreg.com

Dimensions & Materials of Construction

Dimensions are in inches (millimeters) for reference only and are subject to change.

Normally Open





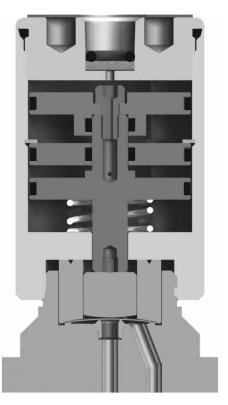
PART	MATERIALS
Actuator cap	Aluminum, 316L stainless steel, MONEL [®] & HASTELLOY [®] C-276
Actuator	Aluminum, 316L stainless steel
O-rings	Viton®
O-rings	Viton®
Upper piston	Brass
Body*	316L stainless steel, MONEL [®] & HASTELLOY [®] C-276
Seat*	PCTFE (formerly Kel-F [®]) or PEEK™
Diaphragm*	Elgiloy®AMS 5876
Diaphragm retainer	316 stainless steel
Thrust plug	Brass
O-ring	Viton®
Lower piston	Brass
Chamber separator	Brass
Spring	302 stainless steel
O-ring	Viton®
Sintered filter	316 stainless steel, 40µ

Dimensions

Pneumatic Small Diameter Actuator

END CONNECTION	LENGTH	HEIGHT	ACTUATOR DIAMETER	C/L CENTER LINE
1/4" MNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
1/4" FNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
[™] GYROLOK [®]	1.71" (4.3 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
1/4" GYROLOK®	1.87" (4.8 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
1/4" NPT extended	3.15" (8.0 cm)	2.75" (7.0 cm)	1.31" (3.3 cm)	0.38" (1.0 cm)
6mm GYROLOK®	47.5mm	69.85mm	33.27mm	9.65mm
8mm GYROLOK®	47.5mm	69.85mm	33.27mm	9.65mm

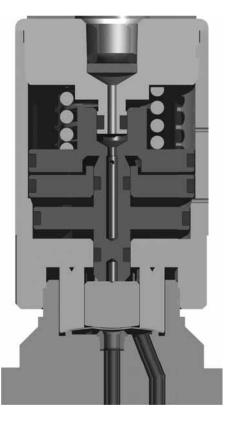
Normally Open



Pneumatic Medium Diameter Actuator

END CONNECTION	LENGTH	HEIGHT	ACTUATOR DIAMETER	C/L CENTER LINE
1/4" MNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
1/4" FNPT	2.00" (5.1 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
₩″ GYROLOK [®]	1.71" (4.3 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
1/4" GYROLOK®	1.87" (4.8 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
1/4" NPT extended	3.15" (8.0 cm)	2.75" (7.0 cm)	1.56" (4.0 cm)	0.38" (1.0 cm)
6mm GYROLOK®	47.5mm	69.85mm	39.62mm	9.65mm
8mm GYROLOK®	47.5mm	69.85mm	39.62mm	9.65mm

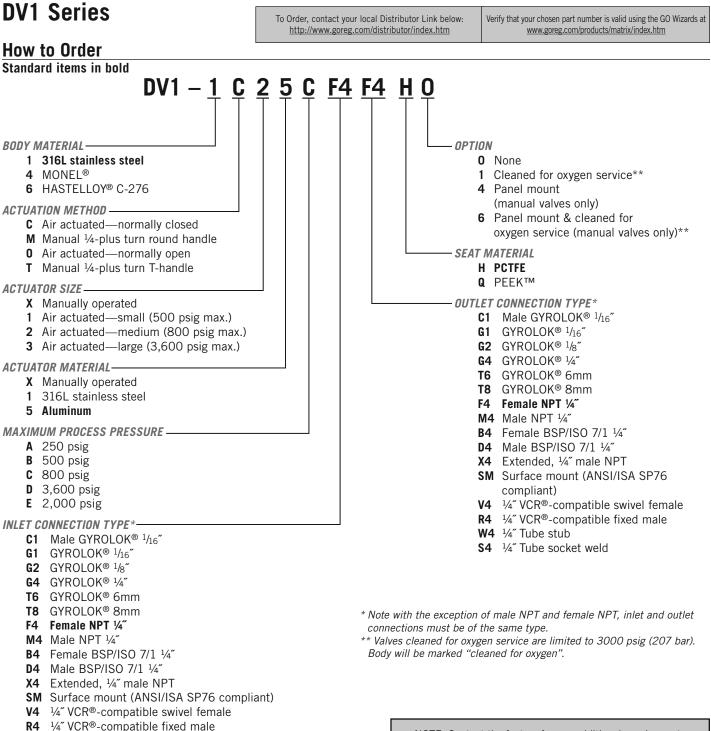
Normally Closed



Pneumatic Large Diameter Actuator

END CONNECTION	LENGTH	HEIGHT	ACTUATOR DIAMETER	C/L CENTER LINE
1/4″ MNPT	2.00" (5.1 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
1/4" FNPT	2.00" (5.1 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
½″ GYROLOK®	1.71" (4.3 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
1/4" GYROLOK®	1.87" (4.8 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
1/4" NPT extended	3.15" (8.0 cm)	3.25" (8.3 cm)	2.36" (6.0 cm)	0.38" (1.0 cm)
6mm GYROLOK®	47.5mm	82.55mm	59.94mm	9.65mm
8mm GYROLOK®	47.5mm	82.55mm	59.94mm	9.65mm

6 **GO** REGULATOR, INC.



- **W4** ¹/₄" Tube stub
- **\$4** ¹/₄" Tube socket weld

NOTE: Contact the factory for any additional requirements.

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