

Back Pressure Regulators

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GO Regulator PO Box 4866 • Spartanburg, SC 29305-4866 (864) 574-7966 www.goreg.com • sales-go@circor.com

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. We recommend that the regulators will be serviced every 5 Years after first installation.



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, 0.025, 0.03, 0.04, 0.06, and 0.3

Features & Benefits

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

Options

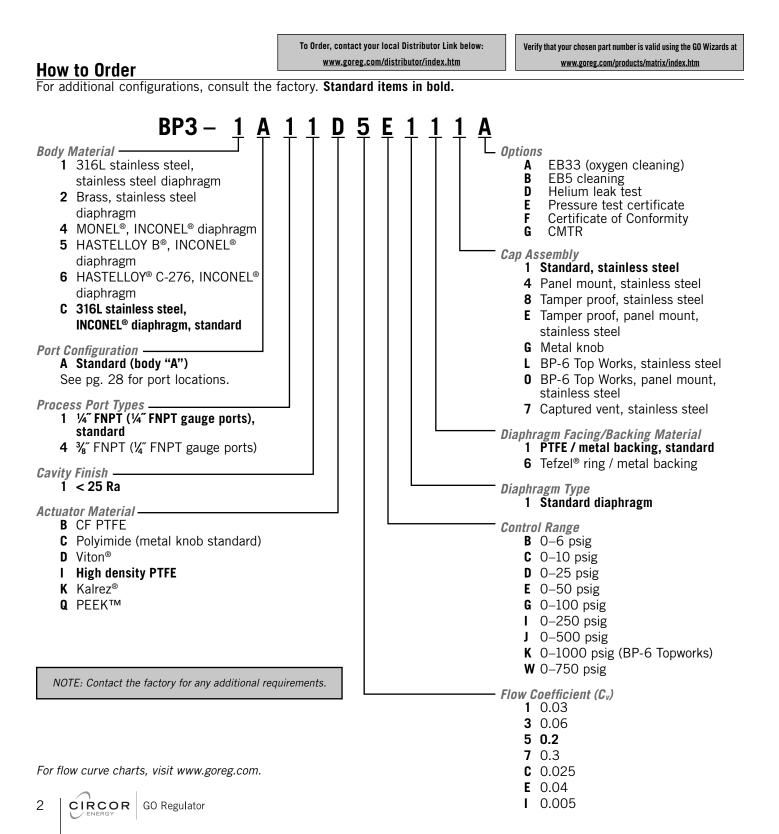
- Wetted materials of construction Brass, MONEL[®], HASTELLOY[®] C-276, Titanium
- Extra ports
- Panel mount (requires a 1³/₈" mounting hole)
- High purity connections
- Pressure gauges

Adjustable Back Pressure Regulators

Maximum Temperature and Control Pressures

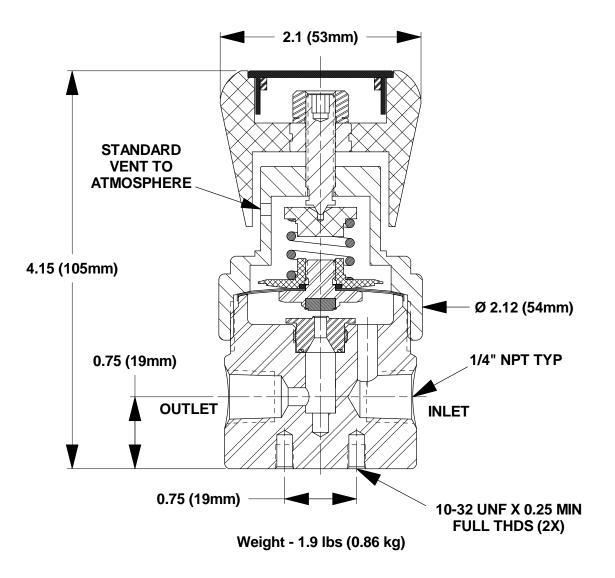
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	250 psig (1.71 MPa)
Kalrez®	300° F (148° C)	@	250 psig (1.72 MPa)
High Density PTFE	200° F (93° C)	@	500 psig (5.16 MPa)
Polyimide	500° F (260° C)	@	1000 psig (6.88 MPa)
PEEK™	500° F (260° C)	@	1000 psig (6.88 MPa)

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



Adjustable Back Pressure Regulators

Outline and Mounting Dimensions





GO Regulator



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 seat 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

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	1⁄4″ FNPT

Features & Benefits

- Gas or liquid service
- Sensing with PTFE lined INCONEL[®] diaphragm
- Metal to metal seat

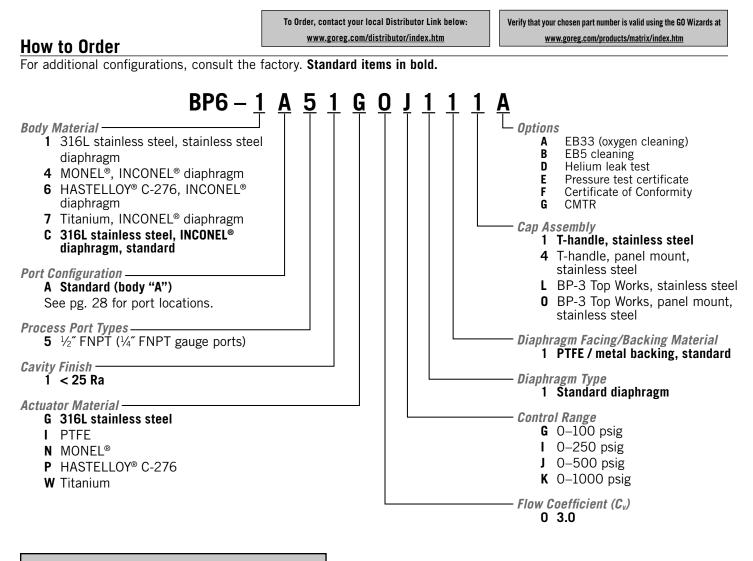
Options

- 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 @ PTFF 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)

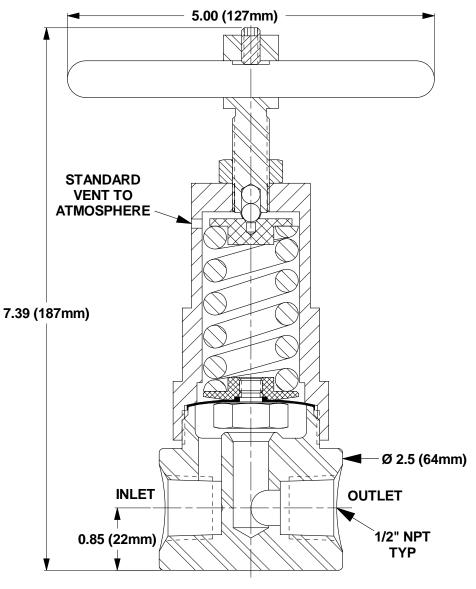


NOTE: Contact the factory for any additional requirements.

GO Regulator

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.



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Typical Applications

- Instrumentation systems
- Pilot plants
- Air compressors

Technical 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 (optional)
INLET & OUTLET Connections	¹ ⁄4″ FNPT

Features & Benefits

- Pressure control of large flows
- Standard INCONEL[®] diaphragm, PTFE faced

Options

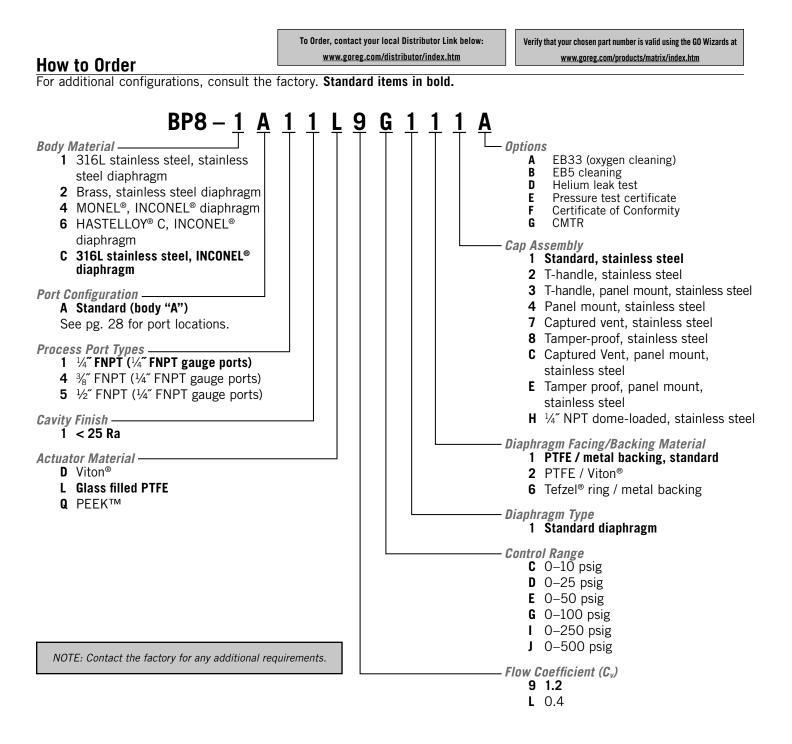
- Panel mounting
- Extra ports
- ¾″ FNPT, ½″ FNPT

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)
PEEK™	500° F (260° C)	@	500 psig (3.44 MPa)

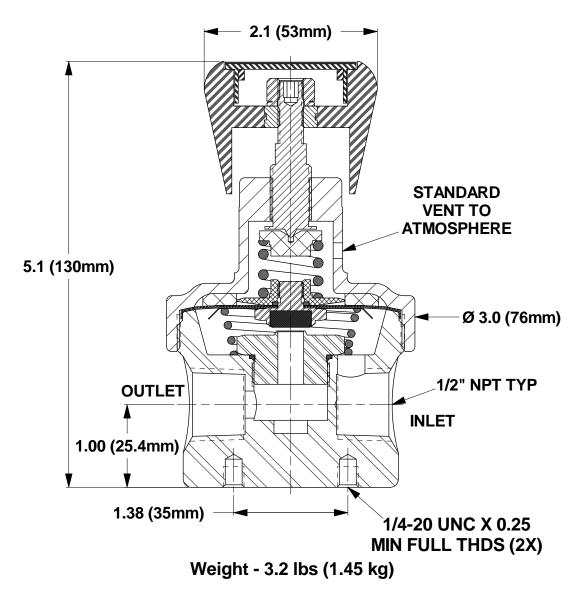
Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.



For flow curve charts, visit www.goreg.com.

High Flow Back Pressure Regulators

Outline and Mounting Dimensions





GO Regulator



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.



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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, 0.06, 0.3, 0.025, 0.04, 0.005, (optional)
INLET & OUTLET Connections	¹ ⁄4″ FNPT

Features & Benefits

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

Options

- PTFE / Viton[®] diaphragm
- Panel mounting
- Extra ports
- 3/8" FNPT, 1/2" FNPT

High Sensitivity Back Pressure Regulators

Maximum Temperature and Control Pressures

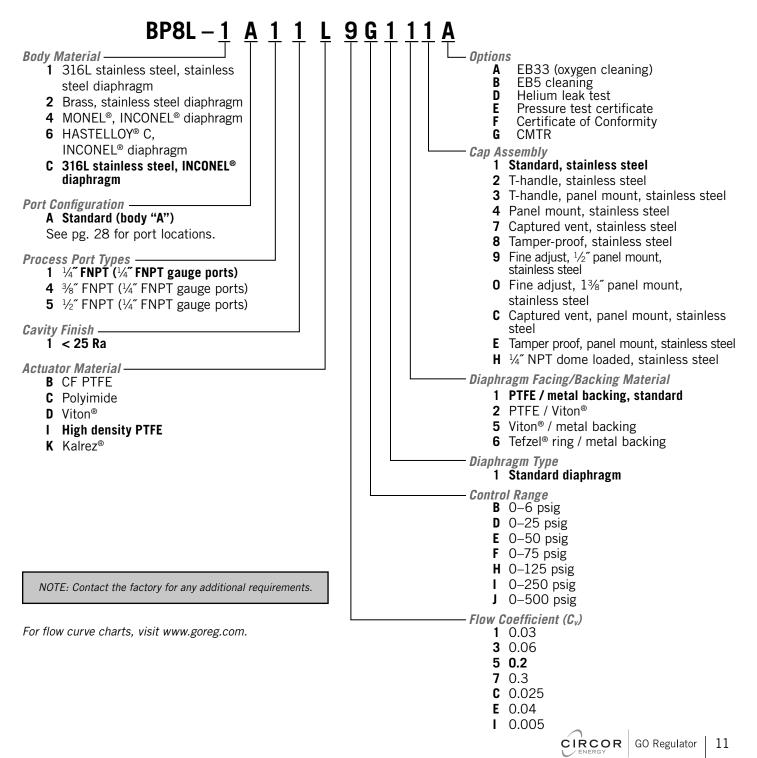
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	500 psig (3.44 MPa)
Kalrez®	300° F (148° C)	@	500 psig (3.44 MPa)
High density PTFE	200° F (93° C)	@	500 psig (3.44 MPa)
Polyimide	500° F (260° C)	@	500 psig (3.44 MPa)
PEEK™	500° F (260° C)	@	500 psig (3.44 MPa)

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

How to Order

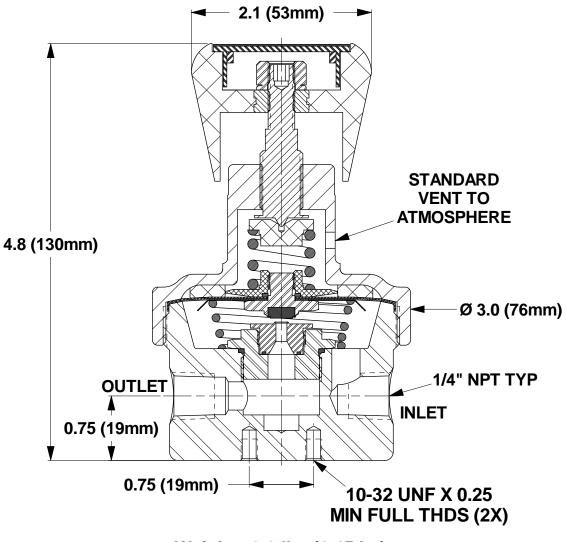
To Order, contact your local Distributor Link below: www.goreg.com/distributor/index.htm Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

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



High Sensitivity Back Pressure Regulators

Outline and Mounting Dimensions



Weight - 3.2 lbs (1.45 kg)



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

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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, 0.025, 0.03, 0.04, 0.06, 0.3 (optional)
INLET & OUTLET Connections	¹∕⊮″ FNPT

Features & Benefits

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

Options

- Panel mount (requires a 1³/₈" mounting hole)
- Extra ports
- Pressure gauges

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Compact Stainless Steel Back Pressure Regulators

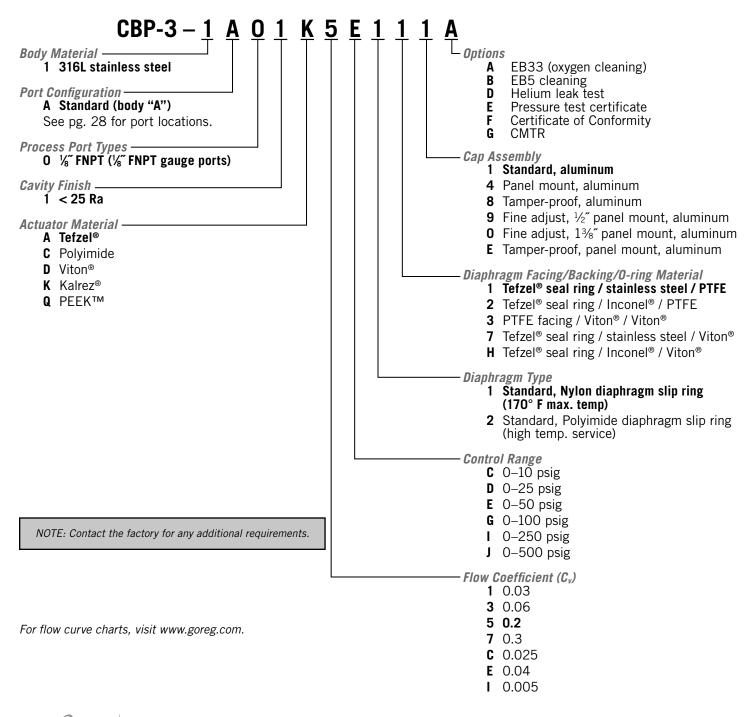
Maximum Temperature and Control Pressures

MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
250° F (121° C)	@	250 psig (1.72 MPa)
300° F (148° C)	@	250 psig (1.72 MPa)
175° F (80° C)	@	500 psig (3.44 MPa)
500° F (260° C)	@	500 psig (3.44 MPa)
500° F (260° C)	@	500 psig (3.44 MPa)
	250° F (121° C) 300° F (148° C) 175° F (80° C) 500° F (260° C)	250° F (121° C) @ 300° F (148° C) @ 175° F (80° C) @ 500° F (260° C) @

<u>How to Order</u>

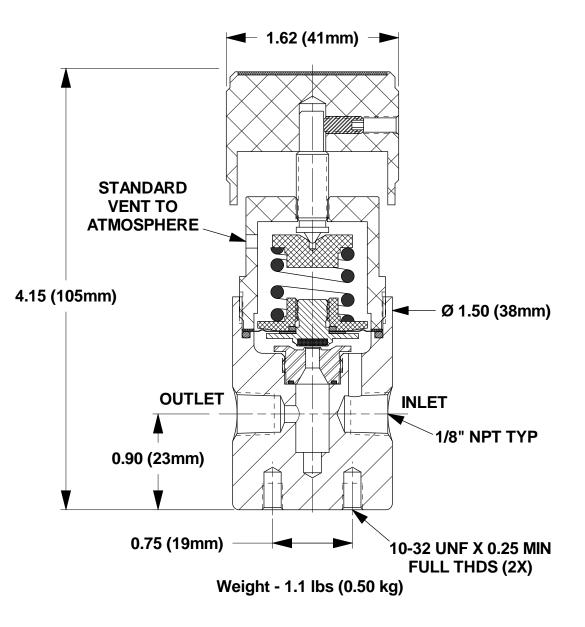
To Order, contact your local Distributor Link below: www.goreg.com/distributor/index.htm Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

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



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.



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
- Electro-polished body with better than 25 Ra finish in diaphragm cavity
- 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) 500° F (260° C) Polyimide @ 500 psig (3.44 MPa) PEEK™ 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. 5 LB1 1 0 E Bodv Material -**Options** 1 316L stainless steel EB33 (oxygen cleaning) A В EB5 cleaning 2 Brass D Helium leak test 3 Aluminum Pressure test certificate Ε 4 MONEL® Certificate of Conformity F G CMTR Port Configuration -Cap Assembly A Standard (body "A") 1 Hand knob (0–100 psig max.) See pg. 29 for port locations. **2** T-handle 3 T-handle, panel mount Process Port Types -0 ¹/₈" FNPT (all ports) **4** Handle knob, panel mount 1 Surface mount (0-100 psig max.) 8 Tamper-proof **A** $\frac{1}{16}$ FNPT (all ports) **B** ¹/₈" FNPT inlets; ¹/₁₆" FNPT outlets Diaphragm Facing/Backing/O-ring Material 1 Tefzel[®] seal ring / stainless steel / PTFE Cavity Finish 2 Tefzel[®] seal ring / INCONEL[®] / PTFE 1 < 25 Ra 3 PTFE facing / Viton[®] / Viton[®] **Actuator Material** 7 Tefzel® seal ring / stainless steel / A Tefzel® Viton® **C** Polyimide H Tefzel[®] seal ring / INCONEL[®] / Viton[®] **D** Viton[®] (0–250 psig max.) Diaphragm Type K Kalrez[®] (0–250 psig max.) 1 Standard, Nylon diaphragm slip ring Q PEEK™ (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 0-250 psig (requires T-handle or L Tamper proof) 0-500 psig (requires T-handle or NOTE: Contact the factory for any additional requirements. Tamper proof) Flow Coefficient (C_v) 1 0.03 **3** 0.06 5 0.2 **7** 0.3 C 0.025 **E** 0.04

For flow curve charts, visit www.goreg.com.

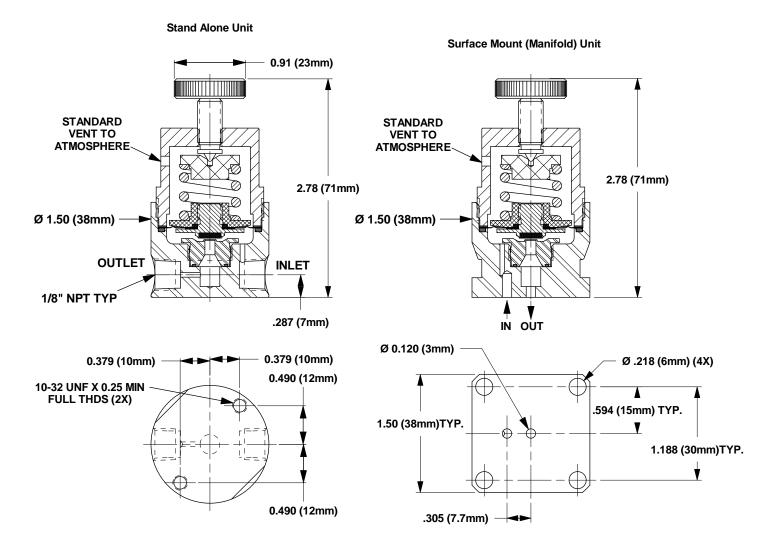
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Ultra-miniature Back Pressure Regulators

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.



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Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

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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

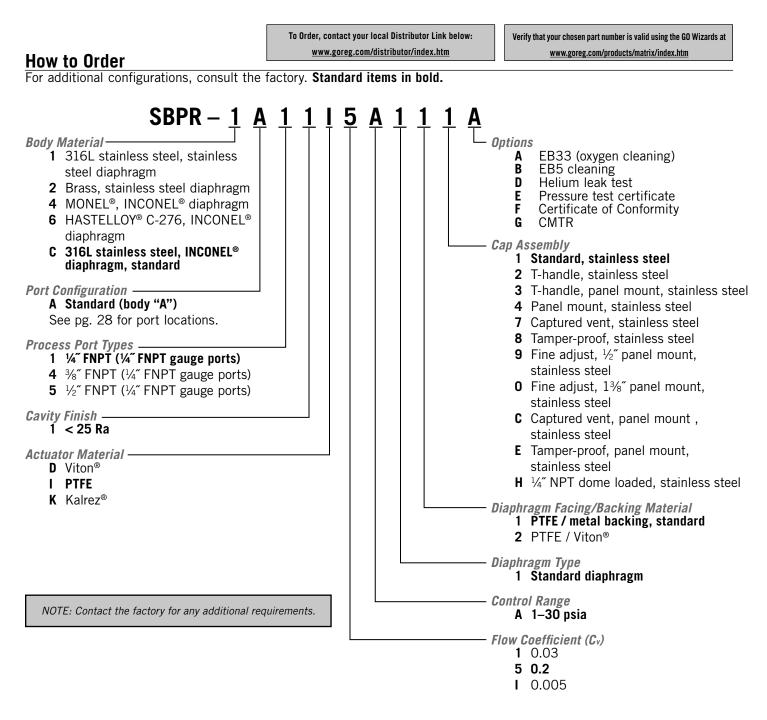
- Extra ports
- Panel mount (requires a 1³/₈" mounting hole)
 - Pressure gauges
- Smaller orifice sizes available: 0.005, 0.03

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
PTFE	200° F (93° C)	@	1–30 psia

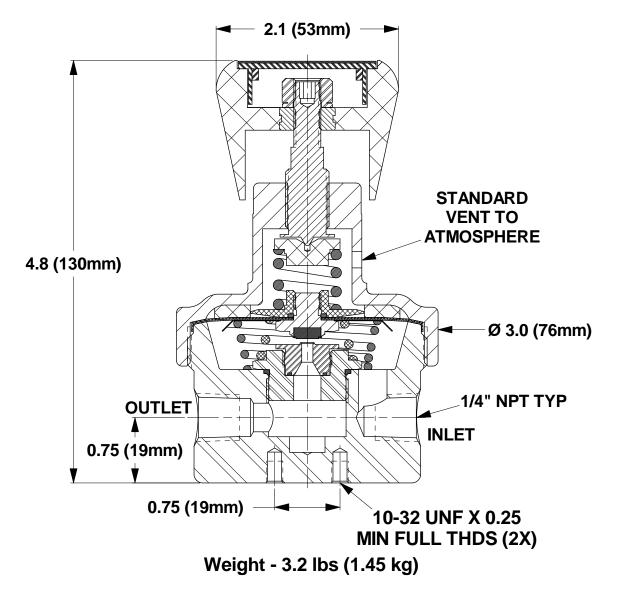
Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.



For flow curve charts, visit www.goreg.com.

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.



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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 other Cv's available 0.005, 0.01, 0.025, 0.09
- Panel mounting
- 3/8" FNPT connections

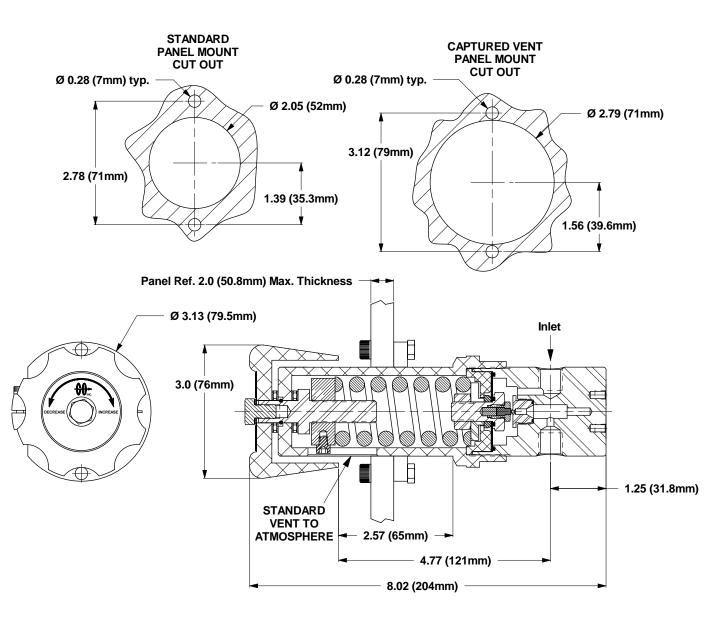
High Pressure Back Pressure Regulators

Maximum Temperature and Control Pressures

/lon Diaphragn SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL	RANGE	SEAT MATER	hragm Backing RIAL MAXIMUM TEI		@ MAXIM	UM CONTROL RANG
Tefzel®	175° F (80° C)	@	1000 psig (6.89		Tefzel®	175° F (psig (13.76 MPa)
PTFE					PTFE				
	175° F (80° C)	@	1000 psig (6.89			175° F (psig (13.76 MPa)
Polyimide	175° F (80° C)	@	2000 psig (13.76		Polyimide		•		psig (13.76 MPa)
PEEK™	175° F (80° C)	@	2000 psig (13.76		PEEK™) psig (13.76 MPa)
CF PTFE	175° F (80° C)	@	1000 psig (6.89		CF PTFE	. 175° F (i	80°C)	@ 1000) psig (6.89 MPa)
ow to Orde			<u>www.g</u>	oreg.com/dist	l Distributor Link ributor/index.htm			en part number is val eg.com/products/ma	lid using the GO Wizards atrix/index.htm
or additional c	onfigurations, cons	sult th	e factory. Stan	dard iten	ns in bold.				
avity Finish 1 4 3% FNPT 4 3% FNPT 4 3% FNPT 1 < 25 Ra 5 < 25 Ra 5 < 25 Ra Ctuator Materia A Tefzel® B CF PTFE	inless steel LOY® C-276 on (body "A") for port locations. pes (¼" FNPT gauge po (¼" FNPT gauge po (¼" FNPT gauge po with 10-32 mount al	ports)		<u>5 A 1 -</u>		tions A EB33 (ox B EB5 clea D Helium le F Certificat G CMTR D Assembly 1 Standard, a 4 Panel mou 5 Captured v 6 Captured v 7 Captured v 7 Captured v 7 Captured v 8 Captured v 9 Assembly 1 Standard, a 4 Panel mou 5 Captured v 7 Captured v 8 Captured v 9 None Polymide SS	aluminun eak test e of Con aluminun nt, alum rent, alum rent, par rent, stai rent, stai	tificate formity ninum minum nel mount, a inless steel inless steel	aluminum ACTUATOR SS SS SS SS SS
C Polyimide	e				5	None	Nylon	PTFE	MONEL®
Q PEEK™					6	Polymide	Nylon	PTFE	SS
Q I LER					7	INCONEL®	Nylon	Viton®	MONEL®
					8	INCONEL®	Nylon	PTFE	MONEL [®]
					0	HASTELLOY® C-276	Nylon	PTFE	HASTELLOY® C-2
					Α	HASTELLOY® C-276	Nylon	Viton®	HASTELLOY® C-2
					В	None	Nylon	Viton®	MONEL®
					н	None	Nylon	Viton®	SS
					Q	SS	PTFE	PTFE	SS
NOTE: Contact	the factory for any add	itional	requirements		S	SS	PTFE	PTFE/Kalrez®	SS (max. 450°
			- qui chiontor		Т	SS	PTFE	Kalrez®	SS (max. 570° l
					V	INCONEL®	PTFE	PTFE	MONEL®
r flow curve ch	arts, visit www.goreg	g.com.			W	HASTELLOY® C-276	PTFE	PTFE	HASTELLOY® C-2
						phragm Type 1 Standard d htrol Range J 0–500 psi	• •	n	
						K 0–1000 ps L 0–2000 ps	sig sig		
					——— Flo	w Coefficient (I C 0.025 E 0.04 G 0.09 I 0.005 J 0.01	_		GO Regulator

High Pressure Back Pressure Regulators

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, 0.12 and 0.005 (optional)
INLET/OUTLET Connections	¼" FNPT (standard) ¾" 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, 0.12 or 0.005
- ¾" FNPT connections

High Pressure Back Pressure Regulators (10,000 psig)

Maximum Temperature and Control Pressures

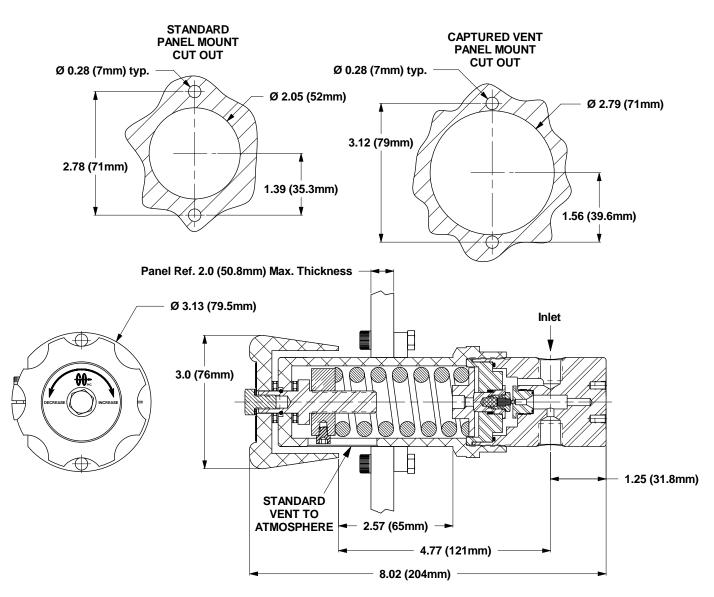
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Polyimide	350° F (177° C)	@	10,000 psig (68.8 MPa)
PEEK™	350° F (177° C)	@	10,000 psig (68.8 MPa)

To Order, contact your local Distributor 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. **BP66** – 1 C Α 1 1 Ε Ν 5 1 Body Material -**Options** 1 316L stainless steel В EB5 cleaning Helium leak test D 4 MONEL® Pressure test certificate Certificate of Conformity Ε 7 Titanium F G CMTR Port Configuration -A Standard (body "A") Cap Assembly See pg. 28 for port locations. 1 Standard, aluminum **4** Panel mount, aluminum Process Port Types-**5** Captured vent, aluminum 1 1/4" FNPT (1/4" FNPT Gauge Ports) 6 Captured vent, panel mount, 4 ³/₈" FNPT (¹/₄" FNPT gauge ports) aluminum Cavity Finish -7 Captured vent, stainless steel 1 < 25 Ra F Stainless steel 5 < 25 Ra with 10-32 mounting holes **Piston Material** 5 Stainless steel with standard Actuator Material -**C** Polyimide Viton[®] cavity 0-ring Q PEEK™ 6 Stainless steel with optional PTFE cavity O-ring **B** MONEL® S Titanium Piston Type 1 Standard **Control Range** L 0-2000 psig **N** 0-4000 psig **0** 0–6000 psig **P** 0–7500 psig NOTE: Contact the factory for any additional requirements. **Q** 0–10,000 psig Flow Coefficient (C_v) **4** 0.12 E 0.04 **I** 0.005 J 0.01

For flow curve charts, visit www.goreg.com.

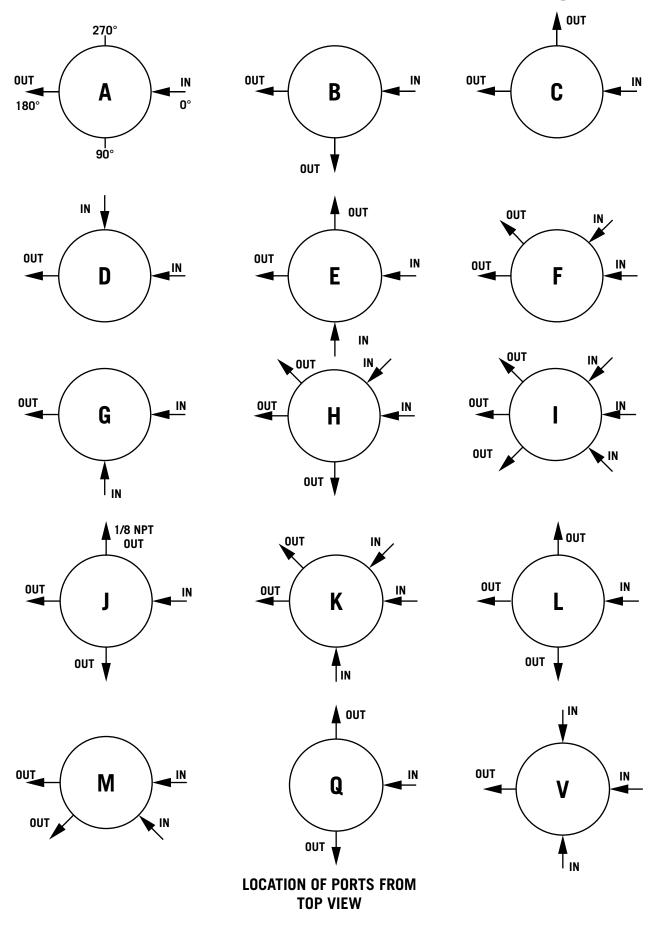
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Outline and Mounting Dimensions



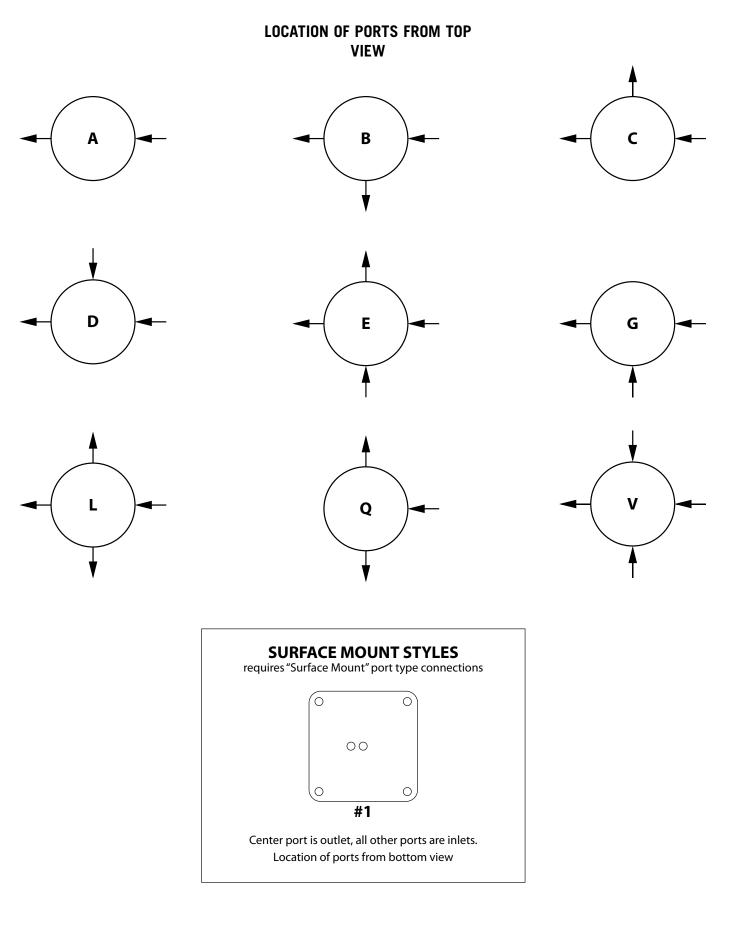
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Port Locations (Back Pressure Regulators)



Porting Options for LB-1 Back Pressure Valve

Arrow pointing toward body is inlet, arrow pointing away from body is outlet.



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Notes		

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Cl is a global manufacturer that specializes in developing highly engineered, technically superior small bore instrumentation solutions that consistently deliver benchmark performance, quality & safety for general-to-severe service liquid & gas flow applications.

We specialize in small bore instrumentation products up to 2" that deliver benchmark performance quality & safety; provide the broadest array of superior alloy offerings in the market; decades of proven success in a wide range of industries; a roster of "who's who" customers & projects globally; original "Best Solution" engineering & designs; and are focused on continuous improvement in all aspects of our business.

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