

# **Back Pressure Regulators**

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#### **GO Regulator**

# **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.



# T. E.T.

#### **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 <sub>V</sub> 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 Teflon® 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 1¾" mounting hole)
- · High purity connections
- · Pressure gauges

ORIFICE SIZES

0.095, 0.12, 0.24, and 0.3

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# Adjustable Back Pressure Regulators

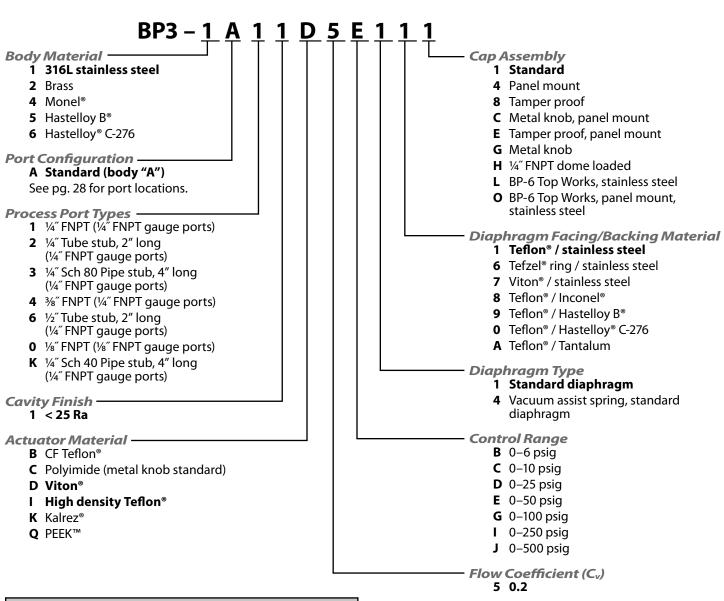
Maximum Temperature and Control Pressures

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 Teflon®	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.

#### **How to Order**

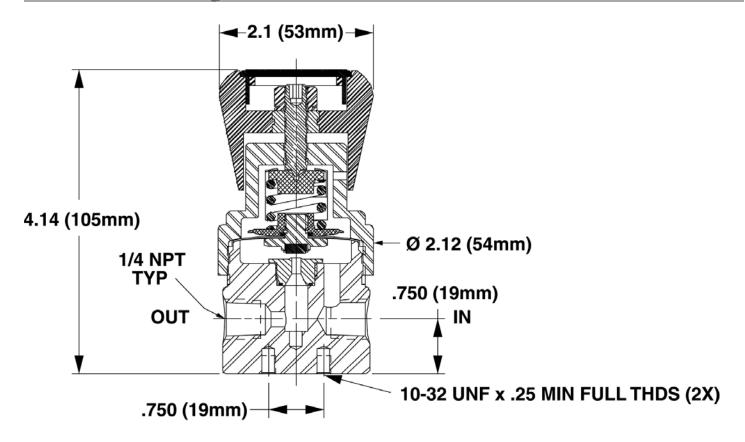
For additional configurations, consult the factory. Standard items in bold.



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.

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

# **Adjustable Back Pressure Regulators**



Weight - 1.9 lbs (0.86 kg)



# **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 Teflon®/stainless seat assembly is available.

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



# pressure

#### **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	½" FNPT

#### **Features & Benefits**

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

#### **Options**

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

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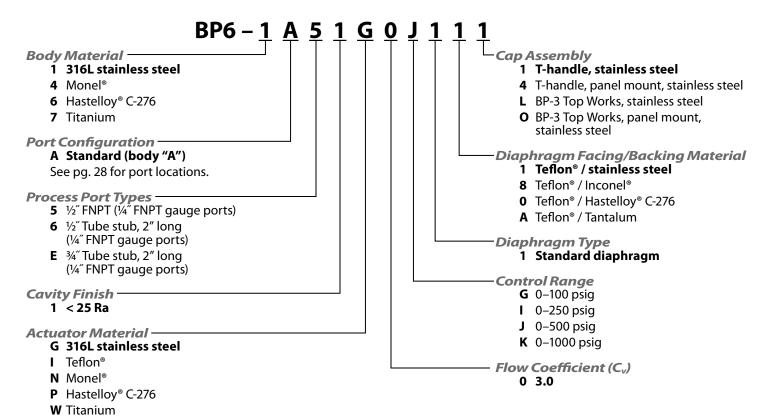
# **High Flow Back Pressure Regulators**

**Maximum Temperature and Control Pressures** 

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Teflon®	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)

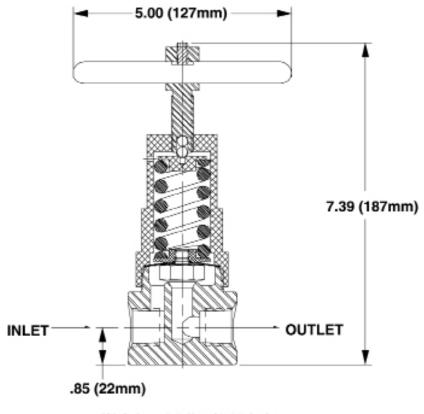
#### **How to Order**

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**



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 Teflon® / 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**

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 <sub>V</sub> 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, Teflon® faced

#### **Options**

- Panel mounting
- Extra ports
- 3%" FNPT, ½" FNPT, ¼" tube weld, ¼" pipe weld, ½" tube weld

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# **High Flow Back Pressure Regulators**

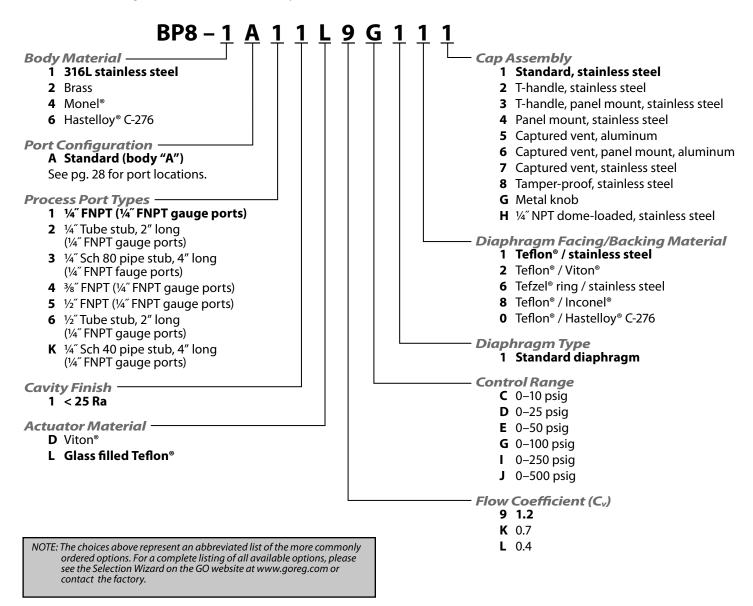
#### Maximum Temperature and Control Pressures

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

Temperatures in excess of  $175^{\circ}$  F ( $80^{\circ}$  C) require the use of a T-handle or the tamper proof option.

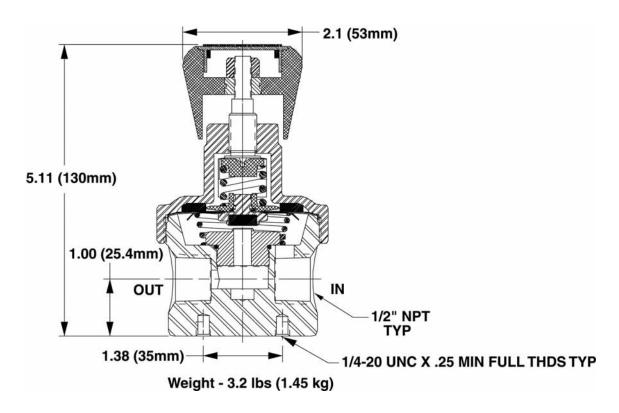
#### **How to Order**

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



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

# **High Flow Back Pressure Regulators**





# **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 <sub>V</sub> 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 Teflon® / Viton® diaphragm

#### **Options**

• Teflon® / stainless steel diaphragm

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# **High Sensitivity Back Pressure Regulators**

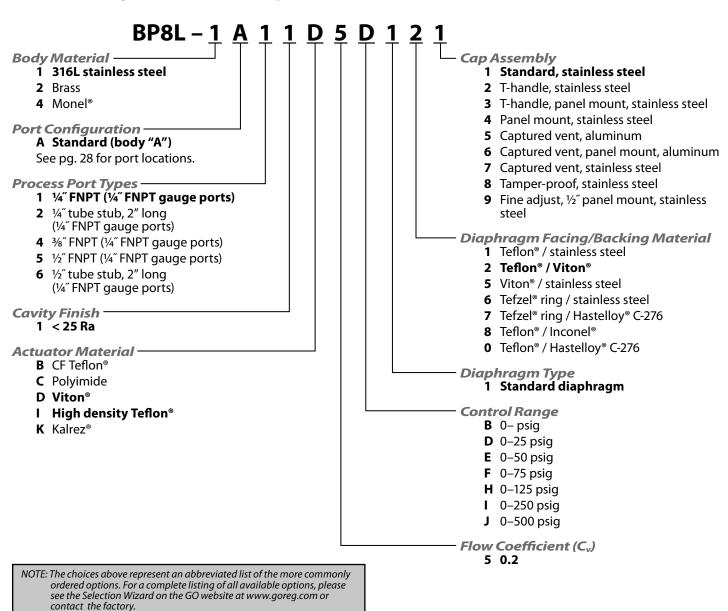
**Maximum Temperature and Control Pressures** 

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 Teflon®	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.

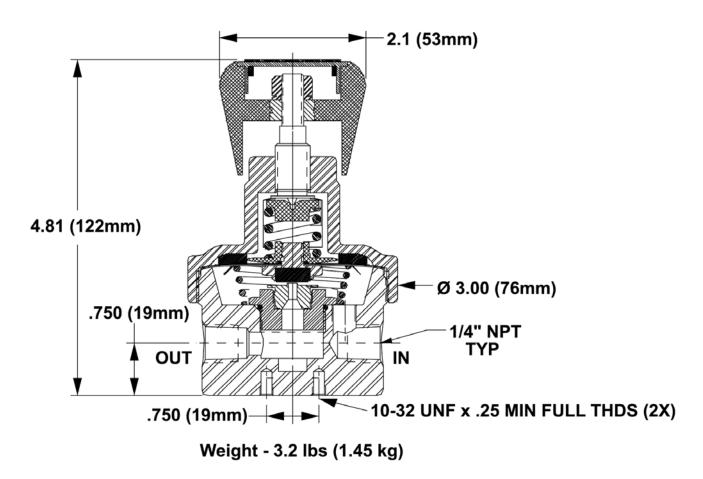
#### How to Order

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



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

# **High Sensitivity Back Pressure Regulators**





# **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.



#### **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 <sub>V</sub> 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	1/8" FNPT

#### **Features & Benefits**

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

#### **Options**

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Panel mount (requires a 13%" mounting hole) Extra ports Special welded connections Pressure gauges 405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303 Phone (864) 574-7966 Fax (864) 574-5608 www.goreg.com • sales@goreg.com

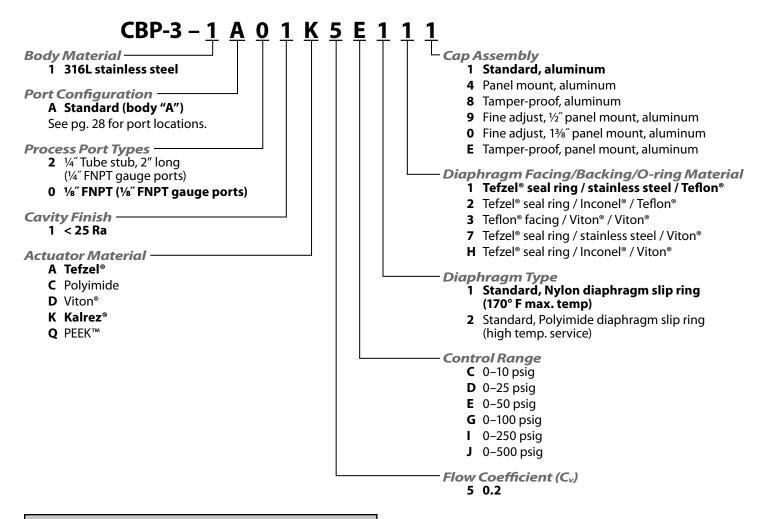
# **Compact Stainless Steel Back Pressure Regulators**

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	250 psig (1.72 MPa)
Kalrez®	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)

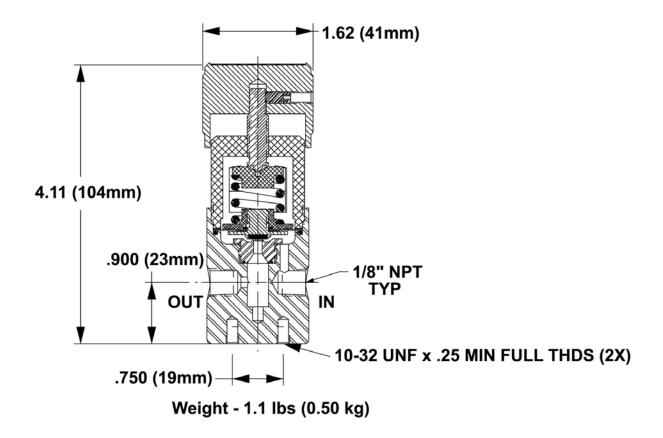
#### **How to Order**

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.

# **Compact Stainless Steel Back Pressure Regulators**





# **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 <sub>V</sub> COEFFICIENT	0.2

#### **Features & Benefits**

- Gas or liquid service
- Electro-polished body with better than 25 Ra finish in diaphragm cavity
- Bubble tight shutoff

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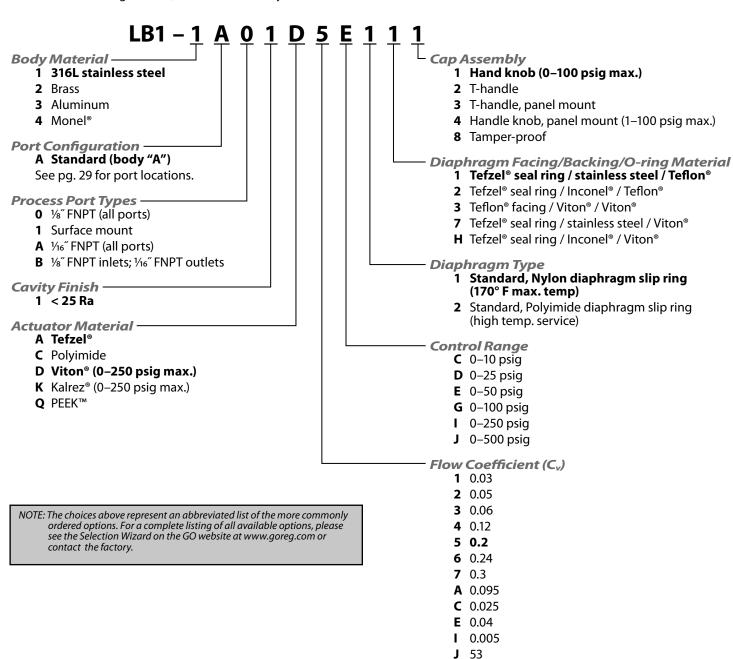
# **Ultra-miniature Back Pressure Regulators**

#### **Maximum Temperature and Control Pressures**

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
	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

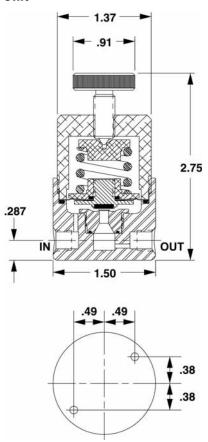
For additional configurations, consult the factory. Standard items in bold.



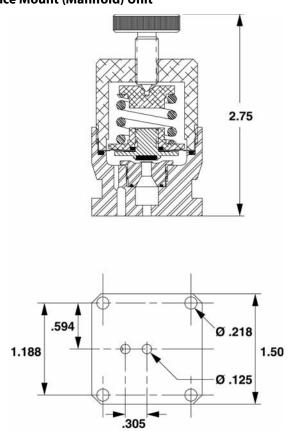
# **Ultra-miniature Back Pressure Regulators**

# **Outline and Mounting Dimensions**

#### **Stand Alone Unit**



#### Surface Mount (Manifold) Unit





# **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. H <sub>2</sub> O to 15.3 psig)
OPERATING TEMPERATURE	-40° F to +300° F (-40° C to +148° C)
C <sub>V</sub> 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 1%" mounting hole)
- Pressure gauges
- Optional welded connections
- Smaller orifice sizes available: 0.005, 0.03

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# **Subatmospheric Back Pressure Regulators**

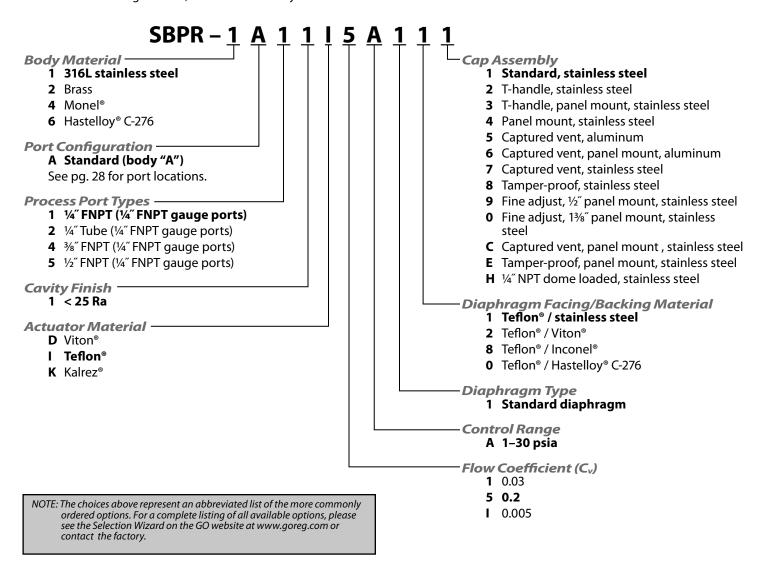
Maximum Temperature and Control Pressures

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.

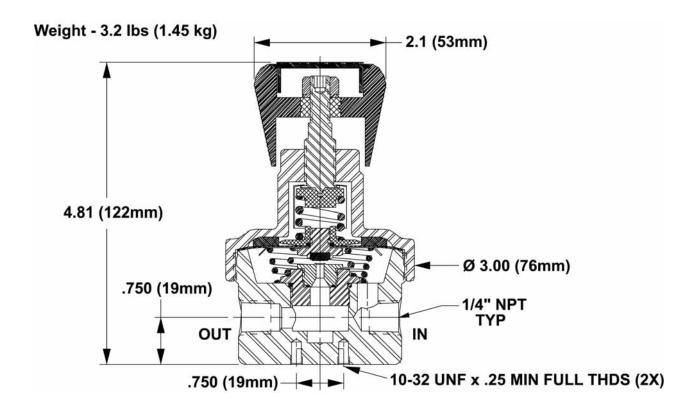
#### **How to Order**

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



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

# **Subatmospheric Back Pressure Regulators**





# **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 Teflon® 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 <sub>V</sub> COEFFICIENT	0.04
INLET/OUTLET CONNECTIONS	1/4" FNPT

#### **Features & Benefits**

- Designed for moderate flow applications
- Diaphragm sensing with nylon, Teflon® 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**

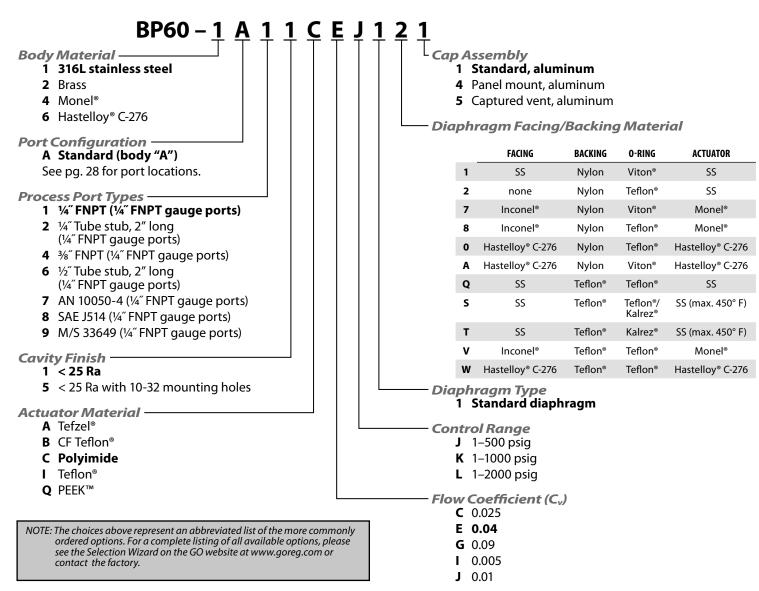
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Tefzel®	175° F (80° C)	@	1000 psig (6.89 MPa)
Teflon®	175° F (80° C)	@	1000 psig (6.89 MPa)
Polyimide	175° F (80° C)	@	2000 psig (13.76 MPa)
PEEK™	175° F (80° C)	@	2000 psig (13.76 MPa)

#### **Teflon® Diaphragm Backing**

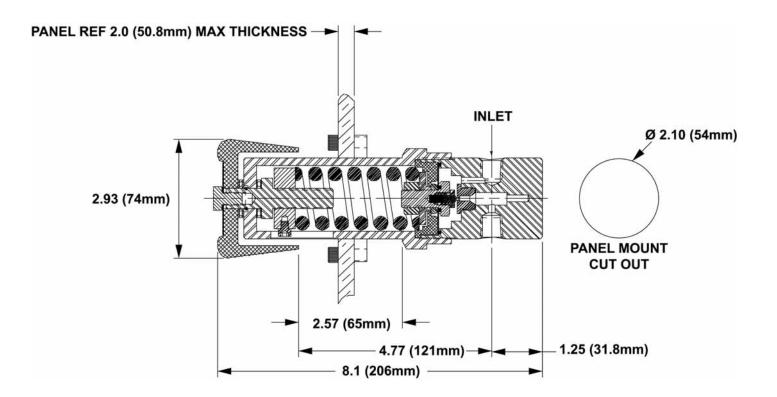
SEAT MATERIAL	MAXIMUM TEMPERATURE @		MAXIMUM CONTROL RANGE
Tefzel®	175° F (80° C)	@	2000 psig (13.76 MPa)
Teflon®	175° F (80° C)	@	2000 psig (13.76 MPa)
Polyimide	350° F (176° C)	@	2000 psig (13.76 MPa)
PEEK™	350° F (176° C)	@	2000 psig (13.76 MPa)

#### **How to Order**

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



# **High Pressure Back Pressure Regulators**



# **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.



# pressure regule

#### **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 <sub>V</sub> COEFFICIENT	0.04 (standard) 0.01 and 0.12 (optional)
INLET/OUTLET CONNECTIONS	1/4" FNPT (standard) AN 10050-4, SAE J514, MS 33649, or 3/4" 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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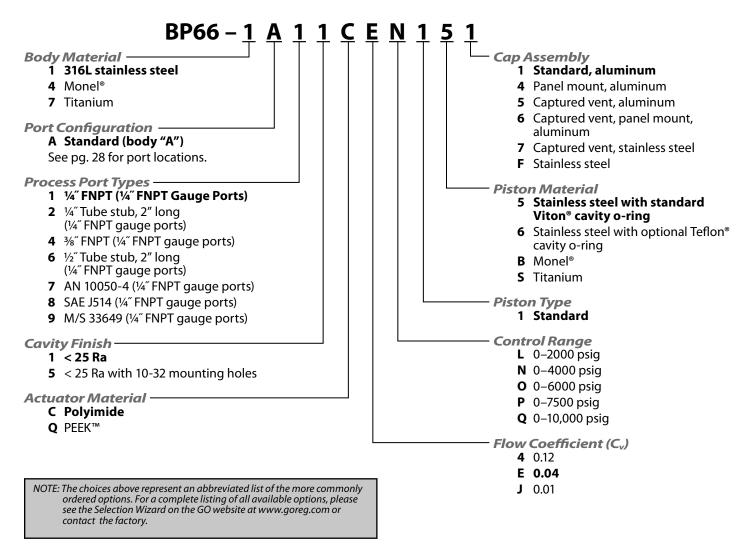
# **High Pressure Back Pressure Regulators (10,000 psig)**

#### Maximum Temperature and Control Pressures

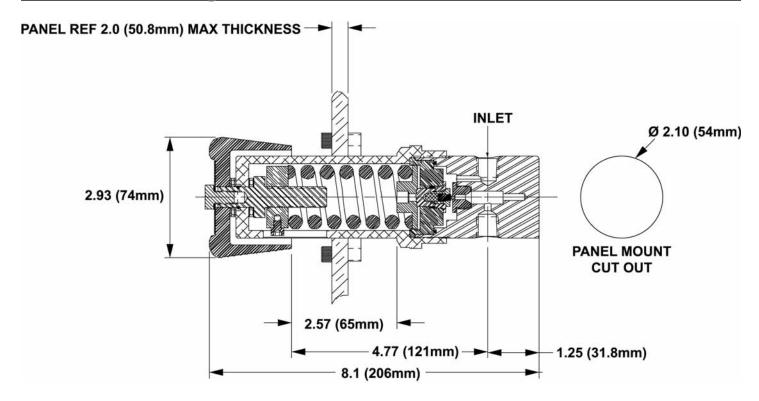
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Polyimide	350° F (177° C)	@	10,000 psig (68.8 MPa)
PEEK™	350° F (177° C)	@	10,000 psig (68.8 MPa)

#### How to Order

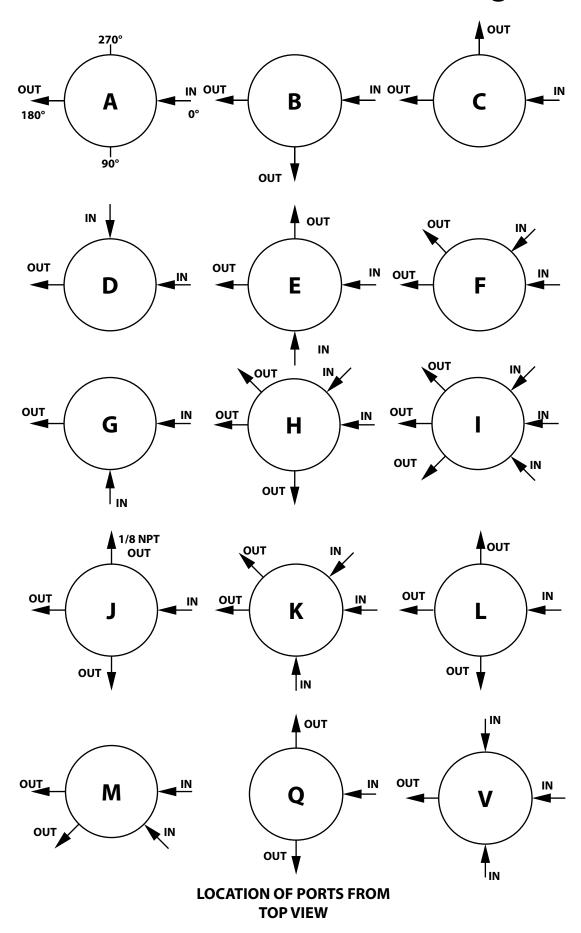
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# **High Pressure Back Pressure Regulators (10,000 psig)**

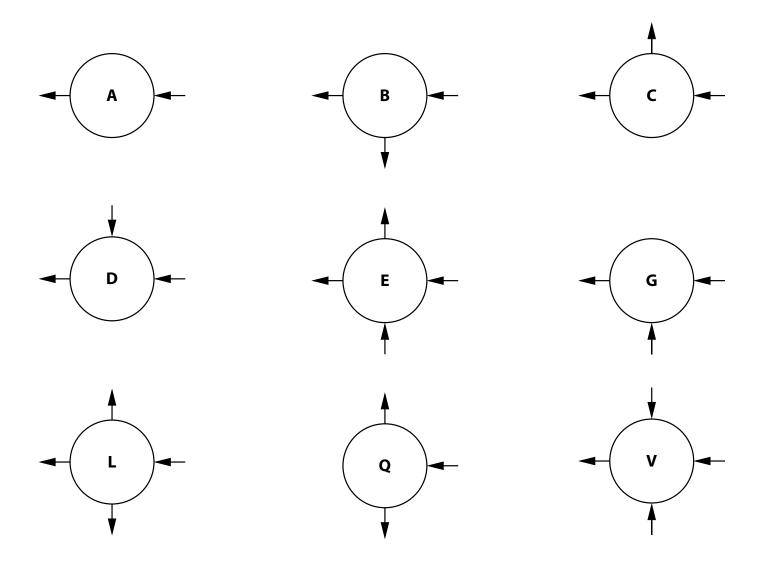


# **Port Locations (Back Pressure Regulators)**



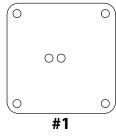
# **Porting Options for LB-1 Back Pressure Valve**

Arrow pointing toward body is inlet, arrow pointing away from body is outlet. Location of ports from top view



#### **SURFACE MOUNT STYLES**

requires "Surface Mount" port type connections



Center port is outlet, all other ports are inlets.

Location of ports from bottom view

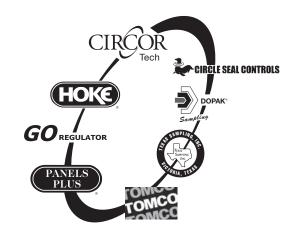
#### For Your Safety

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. 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.

Notes			
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Notes





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CIT markets primarily to the petrochemical, refining, power generation, food and beverage, semiconductor, and pharmaceutical industries, and to OEM's. CIT separates itself from the competition by offering highly engineered components manufactured to exacting standards and a variety of custom options.