



# Back Pressure Regulators

Manual Adjusted and Dome-loaded

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back pressure regulators



### Circle Seal Controls

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## **For Your Safety**

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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 Atkomatic sales and service representative for information about additional sizes and special alloys.

## **SAFETY WARNING:**

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Circle Seal 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.

## PVRB Series

Ultra-sensitive Back Pressure Regulator  
Inlet & Outlet to 60 psig



### Features

- Low pressure control
- Full range capability
- Compatible with corrosive and non-corrosive gases & liquids
- Ultra-sensitive pressure regulator

### Applications

- Chromatography
- Process stream sampling
- Bubbling operations
- Medical instrumentation
- Research laboratories
- Instrument calibration

### Technical Data

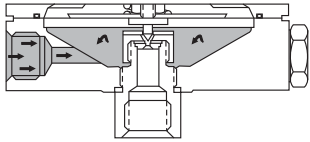
<b>Body Construction Material</b>	Polyvinyl chloride
<b>Spring Housing Materials</b>	<ul style="list-style-type: none"> <li>• PVRB2 &amp; PVRB3: Polyvinyl chloride</li> <li>• PVRB4 &amp; PVRB5: Aluminum alloy</li> </ul>
<b>Seat Material</b>	Kel-F®
<b>Diaphragm Material</b>	PTFE
<b>Adjustment Screw Material</b>	Delrin®
<b>Port Sizes</b>	¼" NPT female
<b>Pressure Ratings</b>	Maximum control pressure: 60 psig (4 BAR)
<b>Temperature Range</b>	0° F to +125° F (-18° C to +52° C)
<b>Flow Capacity</b>	Cv = 0.011 maximum Orifice diameter = 0.025"
<b>Weight</b>	PVRB2 & PVRB3: 14 oz PVRB4 & PVRB5: 1.5 lbs
<b>Leakage</b>	Bubble-tight
<b>Sensitivity</b>	Less than ½ psi

*Note: Proper filtration is recommended to prevent damage to sealing surfaces.*

back pressure regulators

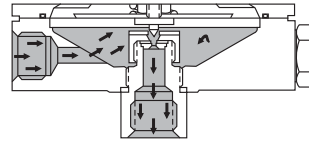
# PVRB Series

## How it Works



### Closed

With the unit spring load adjusted to the desired regulated "set" pressure, a dead-tight seal is affected against the applied upstream pressure.



### Regulating

When the upstream process pressure (applied on the diaphragm) increases, an opposing force is generated which, through the diaphragm plate, acts against the "set" spring load.

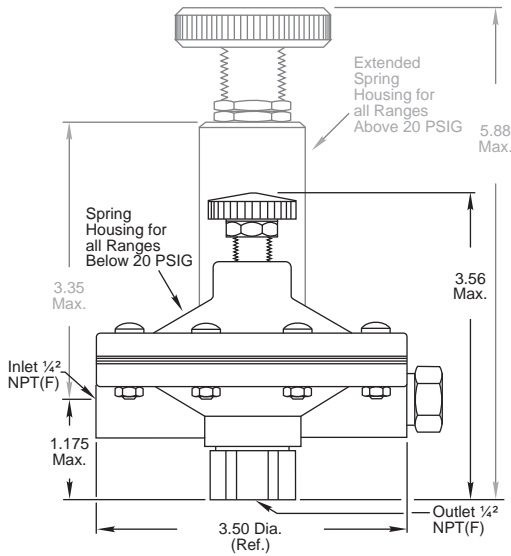
As the increasing upstream pressure level reaches the "set" pressure, the poppet is gradually lifted off its seat. A consequent decrease in upstream pressure is experienced when the flowing fluid is relieved to the downstream side of the process at a faster rate

than the upstream pressure can supply.

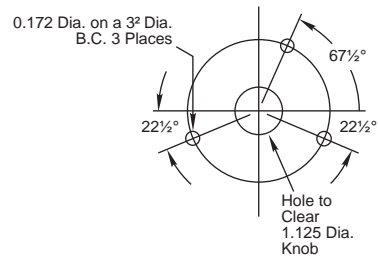
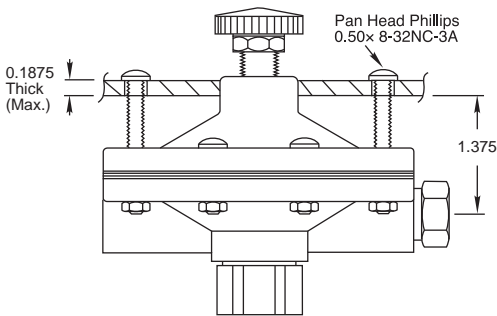
With decreasing upstream pressure, the spring force starts the poppet moving toward its closed position, thus maintaining the desired "set" pressure level within a narrow band.

When the upstream pressure has decreased to a level just below "crack", the adjusting spring load again creates a tight seal between the poppet and the sharp edge of the valve seat.

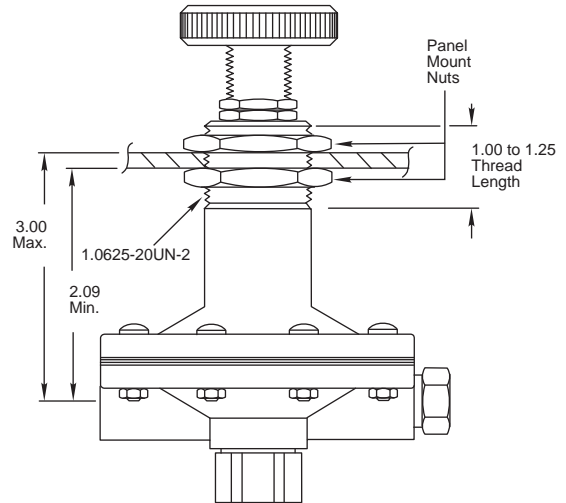
## Dimensions



### Panel Mounting for PVRB2 & PVRB3

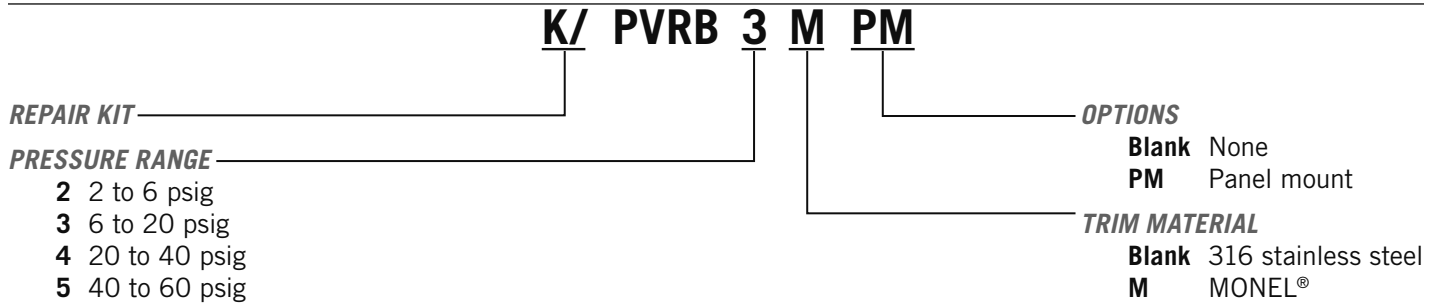


### Panel Mounting for PVRB4 & PVRB5



# PVRB Series

## How to Order



*Note: if this regulator is to be used in oxygen service, specify "GENERAL OXYGEN SERVICE" when ordering or furnish the factory a copy of the special requirements.*

Please consult your Circle Seal Controls distributor, representative, or the factory for information on special connections, operating pressures and temperature ranges.

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

## BP-3 Series\*

Adjustable Back Pressure Regulators



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, overpressures 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.

\* Replaces the BPR7A and BPR8A Series.

### Applications

- Analytical instrumentation
- Pilot plants
- Specialty gas systems
- Compressors
- Pump bypass
- Process vessel protection

### Features & Specifications

- Only 316L stainless steel and PTFE in flow stream
- 316L stainless steel construction
- Operating temperatures of -40° F to +500° F (-40° C to +260° C)
- Bubble-tight shutoff
- Gas or liquid service
- Adjustable pressure control ranges of 0-6 psig, 0-10 psig, 0-25 psig, 0-50 psig, 0-100 psig, 0-250 psig, 0-500 psig, 0-750 psig, and 0-1,000 psig
- Cv flow coefficient is 0.2

### Options

- Wetted materials of construction: brass, MONEL®, HASTELLOY®, titanium
- Extra ports
- Panel mount (requires a 1 $\frac{3}{8}$ " mounting hole)
- High purity connections (tube stubs, metal face seals, etc.)
- Pressure gauges
- Optional Cv's: 0.03, 0.05, 0.06, 0.12, 0.24, 0.3, 0.095, 0.025, 0.04, 0.005, and 0.01

back pressure regulators

# BP-3 Series

## How to Order

**BP3 - 1 A 1 1 I 5 G 1 1 1 C**

### BODY MATERIALS

- 1 316L stainless steel
- 2 Brass
- 4 MONEL®
- 5 HASTELLOY® B
- 6 HASTELLOY® C
- 7 Titanium

### PORT CONFIGURATION

- A Standard (one inlet & one outlet port)  
For more port configurations, see page 13.

### PROCESS PORT TYPES

- 1 ¼" FNPT (¼" FNPT gauge ports) (standard)
- 2 ¼" tube (¼" tube gauge ports)
- 3 ¼" sch 80 pipe (¼" FNPT gauge ports)
- 4 ⅜" FNPT (¼" FNPT gauge ports)
- 6 ½" tube (¼" tube gauge ports)
- 0 ⅝" FNPT (⅝" FNPT gauge ports)
- A ¼" ISO 7-Rc taper internal (¼" FNPT gauge ports)
- B ¼" internal VCR (¼" tube gauge ports)
- K ¼" sch 40 pipe (¼" FNPT gauge ports)

### SURFACE FINISH/DIAPHRAGM CAVITY

- 1 < 25 Ra

### ACTUATOR MATERIALS

- B CF PTFE
- C Polyimide (metal knob is standard)
- D Viton®
- I High-density PTFE
- K Kalrez®
- Q PEEK™

### CAP ASSEMBLY

- 1 Standard
- 4 Panel mount
- 8 Tamper-proof
- F Tamper-proof, panel mount
- G Metal knob
- H ¼" FNPT dome-loaded
- L BP-6 top works, stainless steel
- O BP-6 top works, panel mount, stainless steel

### DIAPHRAGM FACING/BACKING MATERIAL

- 1 PTFE/stainless steel
- 6 Tefzel® ring/stainless steel
- 7 Viton®/stainless steel
- 8 PTFE/INCONEL®
- 9 PTFE/HASTELLOY® B
- O PTFE/HASTELLOY® C
- A PTFE/tantalum

### DIAPHRAGM TYPE

- 1 Standard diaphragm
- 4 Vacuum assist spring, standard diaphragm

### CONTROL RANGE

- B 0-6 psig
- C 0-10 psig
- D 0-25 psig
- E 0-50 psig
- G 0-100 psig
- I 0-250 psig
- J 0-500 psig\*
- W 0-750 psig\*
- K 0-1,000 psig\*†

### FLOW COEFFICIENT (CV)

- 1 0.03
- 2 0.05
- 3 0.06
- 4 0.12
- 5 0.2 (standard)
- 6 0.24
- 7 0.30
- A 0.095
- C 0.025
- E 0.04
- I 0.005
- J 0.01

\* Polyimide, PEEK™, or Kel-F® actuators are recommended for these pressure ranges.

† Must use BP-6 top works

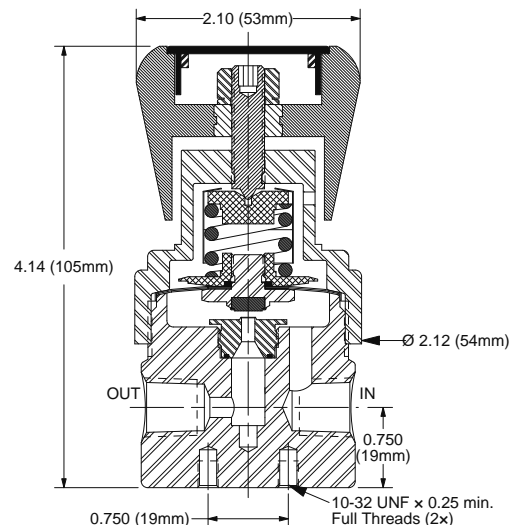
## Maximum Temperature & Control Pressures

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)
High-density PTFE	200° F (93° C)	@	500 psig (3.44 MPa)
Polyimide	500° F (260° C)	@	1,000 psig (6.89 MPa)
PEEK™	500° F (260° C)	@	1,000 psig (6.89 MPa)

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

## Outline & Mounting Dimensions

Weight = 1.9 lbs (0.86kg)



Tefzel® is a registered trademark of the DuPont Company.  
 Kalrez® and Viton® are registered trademarks of DuPont Dow Elastomers.  
 PEEK™ is a trademark of Victrex PLC.  
 INCONEL® and MONEL® are registered trademarks of Special Metals Corp.  
 HASTELLOY® is a registered trademark of Haynes International, Inc.  
 Kel-F® is a registered trademark of 3M Company.

## BP-60 Series\*

High Pressure Back Pressure Regulator



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.

\* Replaces the BPR9A Series.

### Applications

- Pilot plants
- Analytical instrumentation
- Compressors
- Pump bypass
- Pressure vessel protection
- Hydrostatic testing

### Features & Specifications

- Adjustable pressure control ranges of 0–500 psig, 0–1,000 psig and 0–2,000 psig
- 316L stainless steel or brass (alloy 360) body construction
- Designed for moderate flow applications with standard Cv flow coefficient of 0.04
- Diaphragm sensing with nylon, PTFE, or stainless steel diaphragm
- Operating temperatures of –40° F to +350° F (–40° C to +176° C)
- Bubble-tight shutoff
- Inlet/outlet connections ¼" FNPT

### Options

- Option Cv's available: 0.025, 0.005, 0.01
- Panel mounting
- ⅜" FNPT, AND10050–4, SAE J514 or MS33649 connections
- MONEL® and HASTELLOY® C body construction

### Maximum Temperature & Control Pressures

#### Nylon Diaphragm Backing

Seat Material	Maximum Temperature	@	Maximum Control Range
Tefzel®	175° F (80° C)	@	1,000 psig (6.89 MPa)
PTFE	175° F (80° C)	@	1,000 psig (6.89 MPa)
Polyimide	175° F (80° C)	@	2,000 psig (13.79 MPa)
PEEK™	175° F (80° C)	@	2,000 psig (13.79 MPa)

#### PTFE Diaphragm Backing

Seat Material	Maximum Temperature	@	Maximum Control Range
Tefzel®	175° F (80° C)	@	2,000 psig (13.79 MPa)
PTFE	175° F (93° C)	@	2,000 psig (13.79 MPa)
Polyimide	350° F (176° C)	@	2,000 psig (13.79 MPa)
PEEK™	350° F (176° C)	@	2,000 psig (13.79 MPa)

pressure regulators



# BP-60 Series

## How to Order

**BP60 - 1 A 1 1 I 5 G 1 1 1 C**

### BODY MATERIALS

- 1 316L stainless steel
- 2 Brass
- 4 MONEL®
- 6 HASTELLOY® C

### PORT CONFIGURATION

- A Standard (one inlet & one outlet port)  
For more port configurations, see page 13.

### PROCESS PORT TYPES

- 1 ¼" FNPT (¼" FNPT gauge ports) (standard)
- 2 ¼" tube (¼" tube gauge ports)
- 4 ⅜" FNPT (¼" FNPT gauge ports)
- 7 AND10050-4 (¼" FNPT gauge ports)
- 8 SAE J514 (¼" FNPT gauge ports)
- 9 MS 33649 (¼" FNPT gauge ports)

### SURFACE FINISH/DIAPHRAGM CAVITY

- 1 < 25 Ra (standard)
- 5 < 25 Ra with 10-32 mounting holes

### ACTUATOR MATERIALS

- A Tefzel®
- B CF PTFE
- C Polyimide
- I PTFE
- Q PEEK™

### CAP ASSEMBLY

- 1 Standard, aluminum
- 4 Panel mount, aluminum
- 5 Captured vent, aluminum

### DIAPHRAGM FACING/BACKING MATERIAL

Facing	O-rings	Actuator
Nylon backing		
1 SS	Viton®	SS
2 —	PTFE	SS
7 INCONEL®	Viton®	MONEL®
8 INCONEL®	PTFE	MONEL®
0 HASTELLOY® C	PTFE	HASTELLOY® C
A HASTELLOY® C	Viton®	HASTELLOY® C
PTFE backing		
Q SS	PTFE	SS
S SS	PTFE/Kalrez®	SS (max. 450° F)
T SS	Kalrez®	SS (max. 570° F)
V INCONEL®	PTFE	MONEL®
W HASTELLOY® C	PTFE	HASTELLOY® C

### DIAPHRAGM TYPE

- 1 Standard

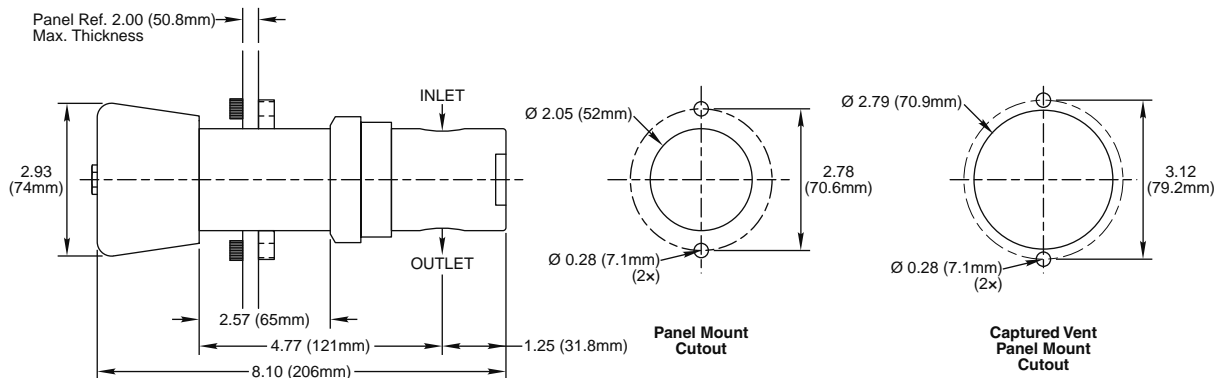
### CONTROL RANGE

- J 0-500 psig
- K 0-1,000 psig
- L 0-2,000 psig

### FLOW COEFFICIENT (CV)

- C 0.025
- E 0.04 (standard)
- I 0.005
- J 0.01
- G 0.09

## Outline & Mounting Dimensions



Tefzel® is a registered trademark of the DuPont Company.  
 Kalrez® and Viton® are registered trademarks of DuPont Dow Elastomers.  
 PEEK™ is a trademark of Victrex PLC.  
 INCONEL® and MONEL® are registered trademarks of Special Metals Corporation.  
 HASTELLOY® is a registered trademark of Haynes International, Inc.

## BPR30 Series

Corrosion Resistant Back Pressure Regulator  
160 to 2,500 psig



pressure regulators

### Features

- Positive shutoff at zero flow
- Compatible with corrosive or non-corrosive media
- Full range capability
- Unique design prevents clogging
- Tee handle for fast & precise control

### Applications

- Compressors
- Pump bypass
- Hydrostatic testing
- Water descaling systems
- Pressure vessel protection
- Reverse osmosis systems

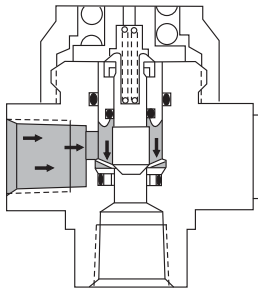
### Technical Data

<b>Body Construction Materials</b>	Brass or 316 stainless steel
<b>Seal Materials</b>	Ethylene propylene, Neoprene, PTFE or Viton®
<b>Seat Material</b>	Kel-F®
<b>Trim Material</b>	Stainless steel exposed to line fluids
<b>Port Sizes</b>	¼" or ½" NPT female
<b>Weight</b>	2.75 lbs
<b>Pressure Ratings</b>	160 to 2,500 psig (11 to 172 BAR)
<b>Temperature Range</b>	-65° F to +250° F (-54° C to +121° C)
<b>Flow Capacity</b>	Cv = 0.25

*Note: Proper filtration is recommended to prevent damage to sealing surfaces.*

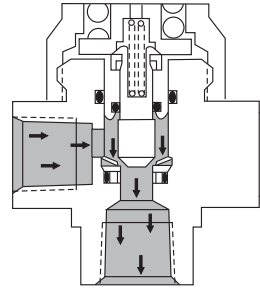
# BPR30 Series

## How it Works



### Closed

With the unit spring load adjusted to the desired regulated "set" pressure, a dead-tight seal is effected against the applied upstream pressure by the small seating spring contained within the poppet and spring retainer.



### Regulating

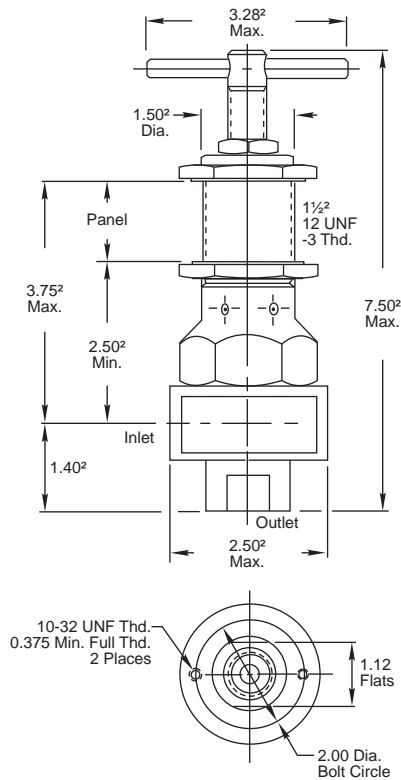
When the upstream process pressure (acting on the regulating piston) increases, an opposing force is generated which, through the regulating piston, acts against the "set" spring load.

As the increasing upstream pressure level reaches the "set" pressure, the poppet is gradually lifted off its seat. A consequent decrease in upstream pressure is experienced when the flowing fluid is relieved to the downstream side of the poppet at a faster rate than the upstream pressure can supply.

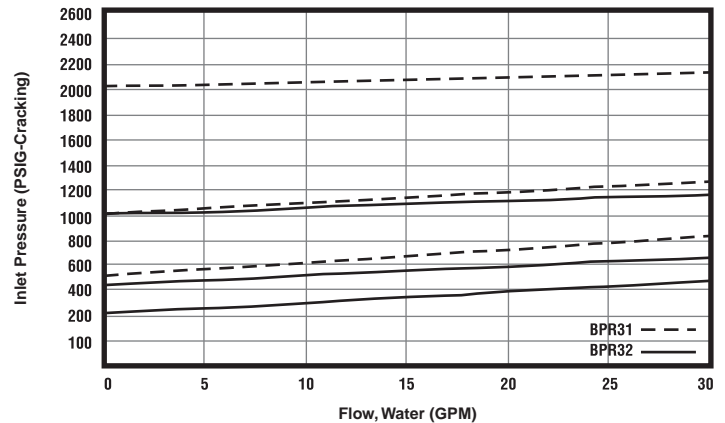
With decreasing upstream pressure, the spring force starts the poppet moving toward its closed position, thus maintaining the desired "set" pressure level within a narrow band.

When the upstream pressure has decreased to a level just below "crack", the spring-loaded poppet again creates a tight seal against the sharp edge of the valve seat.

## Dimensions & Flow Curves

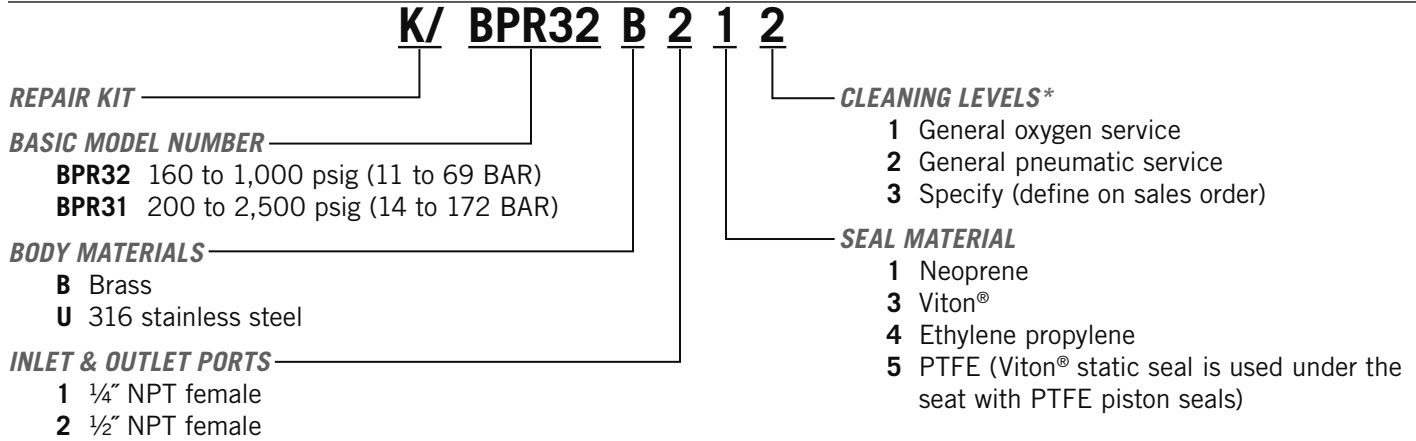


### BPR30 Flow Chart



# BPR30 Series

## How to Order



*These units are not intended for applications where the exhaust connection will see buildup of downstream pressure. If this regulator is to be used in oxygen service, Vespel® SP-21 seat and Viton® seal are used and specify "General Oxygen Service" when ordering. Temperature range: -20° F to +250° F.*

*Viton® static seal is used under the seat with PTFE piston seals.*

Please consult your Circle Seal Controls distributor, representative, or the factory for information on special connections, operating pressures and temperature ranges.

*Viton® is a registered trademark of DuPont Dow Elastomers.  
Kel-F® is a registered trademark of 3M Company.*

## BP-66 Series\*

High Pressure Back Pressure Regulator (10,000 psig)



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 steel 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.

\* Replaces the BPR1xA Series.

### Features & Specifications

- 316L stainless steel construction
- Adjustable pressure control ranges of 0–2,000 psig, 0–4,000 psig, 0–6,000 psig, 0–7,500 psig, and 0–10,000 psig
- Spring-loaded piston sensor
- Gas and liquid service
- Cv flow coefficient: 0.04
- Operating temperature of –40° F to +350° F (–40° C to +176° C)
- ¼" FNPT connections standard

### Applications

- Pilot plants
- Analytical instrumentation
- Compressors
- Pump bypass
- Pressure vessel protection
- Hydrostatic testing

### Options

- MONEL® and titanium body construction
- Optional Cv's: 0.01 and 0.12
- Panel mounting
- AND10050–4, SAE J514, MS 33649, or ⅜" FNPT connections

back pressure regulators

# BP-66 Series

## How to Order

**BP66 - 1 A 1 1 C E L 1 5 1 C**

### BODY MATERIALS

- 1 316L stainless steel
- 4 MONEL®
- 7 Titanium

### PORT CONFIGURATION

- A Standard (one inlet & one outlet port)
- For more port configurations, see page 13.

### PROCESS PORT TYPES

- 1 1/4" FNPT (1/4" FNPT gauge ports)
- 2 1/4" tube (1/4" tube gauge ports)
- 4 3/8" FNPT (1/4" FNPT gauge ports)
- 6 1/2" tube (1/4" tube gauge ports)
- 7 AND10050-4 (1/4" FNPT gauge ports)
- 8 SAE J514 (1/4" FNPT gauge ports)
- 9 MS 33649 (1/4" FNPT gauge ports)

### SURFACE FINISH/DIAPHRAGM CAVITY

- 1 < 25 Ra (standard)
- 5 < 25 Ra with 10-32 mounting holes

### ACTUATOR MATERIALS

- C Polyimide
- Q PEEK™

### CAP ASSEMBLY

- 1 Standard, aluminum
- 4 Panel mount, aluminum
- 5 Captured vent, aluminum
- 6 Captured vent, panel mount, aluminum
- 7 Captured vent, stainless steel
- F Stainless steel

### PISTON MATERIAL

- 5 Stainless steel
- B MONEL®
- S Titanium

### PISTON TYPE

- 1 Standard

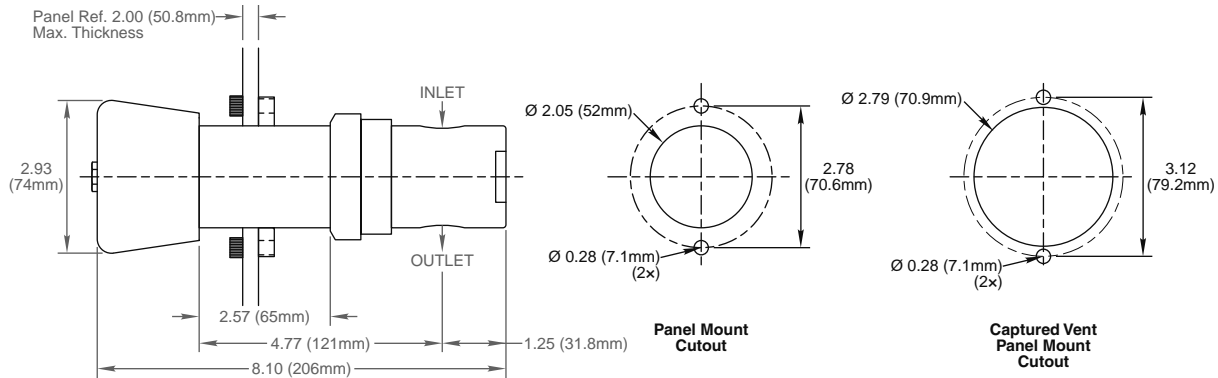
### CONTROL RANGE

- L 0-2,000 psig
- N 0-4,000 psig
- O 0-6,000 psig
- P 0-7,500 psig
- Q 0-10,000 psig

### FLOW COEFFICIENT (CV)

- 4 0.12
- E 0.04
- J 0.01

## Outline & Mounting Dimensions



## Maximum Temperature & Control Pressures

Seat Material	Maximum Temperature	@	Maximum Control Range
Polyimide	350° F (176° C)	@	10,000 psig (68.9 MPa)
PEEK™	350° F (176° C)	@	10,000 psig (68.9 MPa)

PEEK™ is a trademark of Victrex PLC.

MONEL® is a registered trademark of Special Metals Corporation.

## BPR21 Series

High Flow Dome-loaded Back Pressure Regulator  
25–6,000 psig



### Features

- Extremely reliable
- High flow capacity
- Remote control capability
- Large diaphragm provides accuracy & sensitivity
- Compatible with most liquids & gases

### Applications

- System bypass valve
- Pressure vessel protection
- Chemical/petroleum plants
- Industrial controls
- Pumps or compressors
- Heat exchangers

### Technical Data

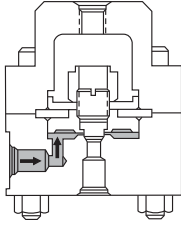
<b>Body Construction Materials</b>	Brass or 316 stainless steel
<b>Seat Materials</b>	HASTELLOY® C, Kel-F®, KYNAR®, Nylatron®, Polyimide, stainless steel, or Vespel® SP-21
<b>Port Sizes</b>	¼" NPT female, ⅜" NPT female, AND10050-4 or AND10050-6
<b>Pressure Ratings</b>	Brass: 25 to 3,500 psig (1.7 to 241 BAR) Stainless steel: 25 to 6,000 psig (1.7 to 414 BAR)
<b>Temperature Range</b>	-65° F to +400° F (-54° C to +204° C)
<b>Flow Capacity</b>	Cv = 0.90 Orifice diameter = 0.23"

*Note: Proper filtration is recommended to prevent damage to sealing surfaces.*

back pressure regulators

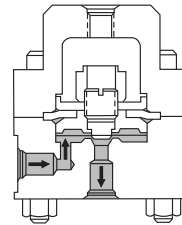
# BPR 21 Series

## How it Works



### Closed

With a pressure regulator connected to the dome port and the dome pressure adjusted slightly above the desired regulated "set" pressure, a bubble-tight seal is effected against the applied upstream pressure.



### Regulating

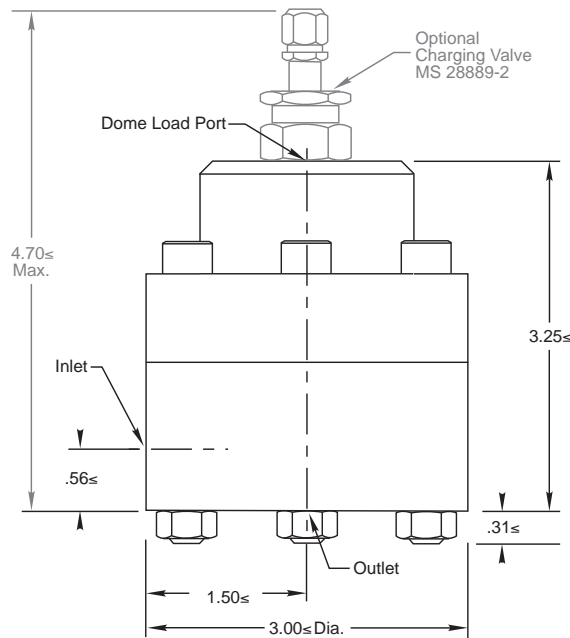
When the upstream process pressure (applied to the inlet side of the diaphragm) increases, an opposing force is generated which acts on the diaphragm and attached poppet against the "set" pressure load in the dome.

As the increasing upstream pressure level reaches the "set" pressure, the poppet is gradually lifted off its seat. A consequent decrease in upstream pressure is experienced when the flowing fluid is relieved to the downstream side of the poppet at a faster rate than the upstream pressure can supply.

With decreasing upstream pressure, the pressure-loaded dome starts moving the poppet toward its closed position, thus maintaining the desired "set" pressure level within a narrow band.

When the upstream pressure has decreased to a level just below "crack" the generated forces from the pressure-loaded dome again create a tight seal between the poppet and the sharp edge of the valve seat.

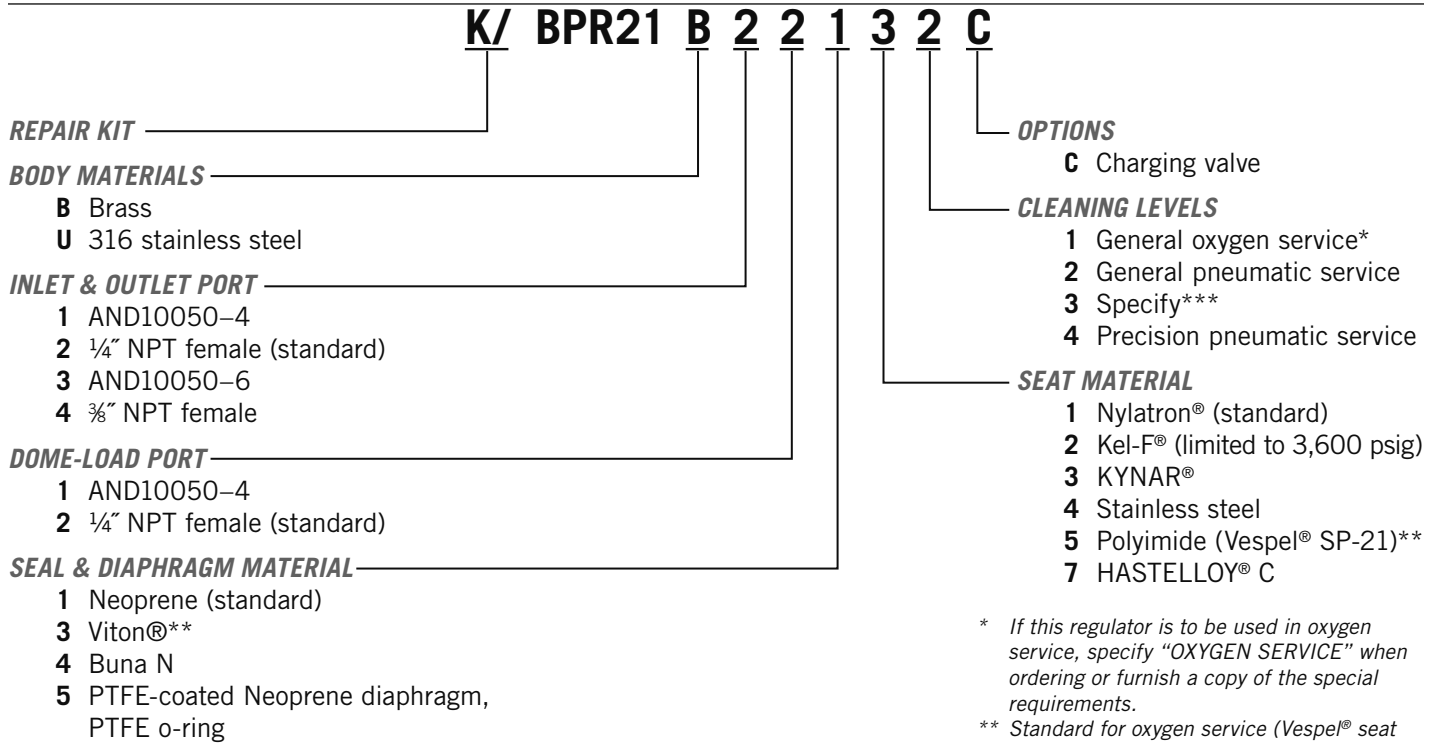
## Dimensions





# BPR 21 Series

## How to Order



\* If this regulator is to be used in oxygen service, specify "OXYGEN SERVICE" when ordering or furnish a copy of the special requirements.

\*\* Standard for oxygen service (VespeI® seat and Viton® seal & diaphragm). Temperature range: -20° F to +250° F

\*\*\*List requirements or furnish the factory a copy of the requirements or specifications

Performance characteristics: Repeatability of cracking (set) pressure: ±2%

Crack pressure to full flow: 110% of set pressure

Reseat pressure: within 2% of set pressure above 400 psig.

CAUTION: These units are not intended for applications where the exhaust connection will see a buildup of downstream pressure.

Please consult your Circle Seal Controls distributor, representative, or the factory for information on special connections, operating pressures and temperature ranges.

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# Circle Seal Controls

The Small Bore Instrumentation Specialists



The Circle Seal Controls Brand is just one product offering manufactured and supplied by CIRCOR International (NYSE:CIR).

CIRCOR 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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