

## 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 steel seat assembly, which was intended for long term usage in sea water, can also be useful in various chemical environments. While the stainless steel 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 steel seat assembly is available.

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



### 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 PTFE lined stainless diaphragm
- Metal to metal seat

### Options

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

### GO Regulator

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pressure regulators

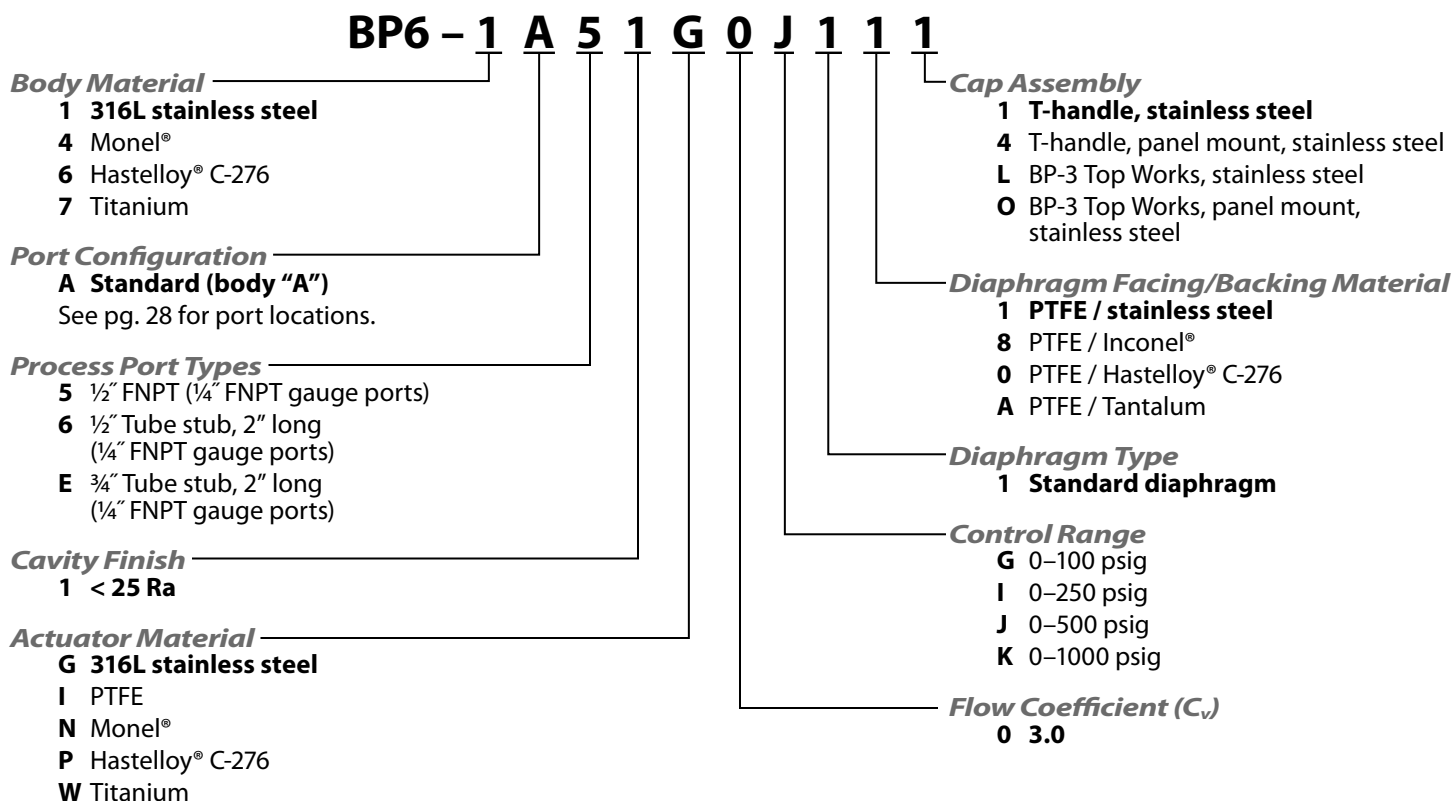
# High Flow Back Pressure Regulators

## 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)

## How to Order

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

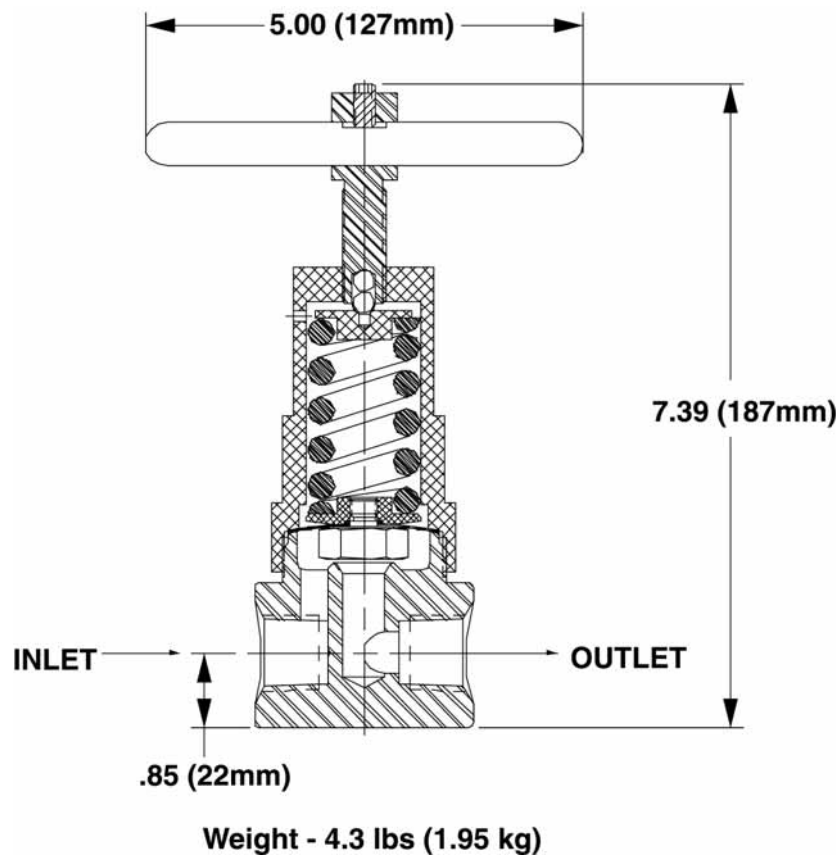


NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at [www.goreg.com](http://www.goreg.com) or contact the factory.

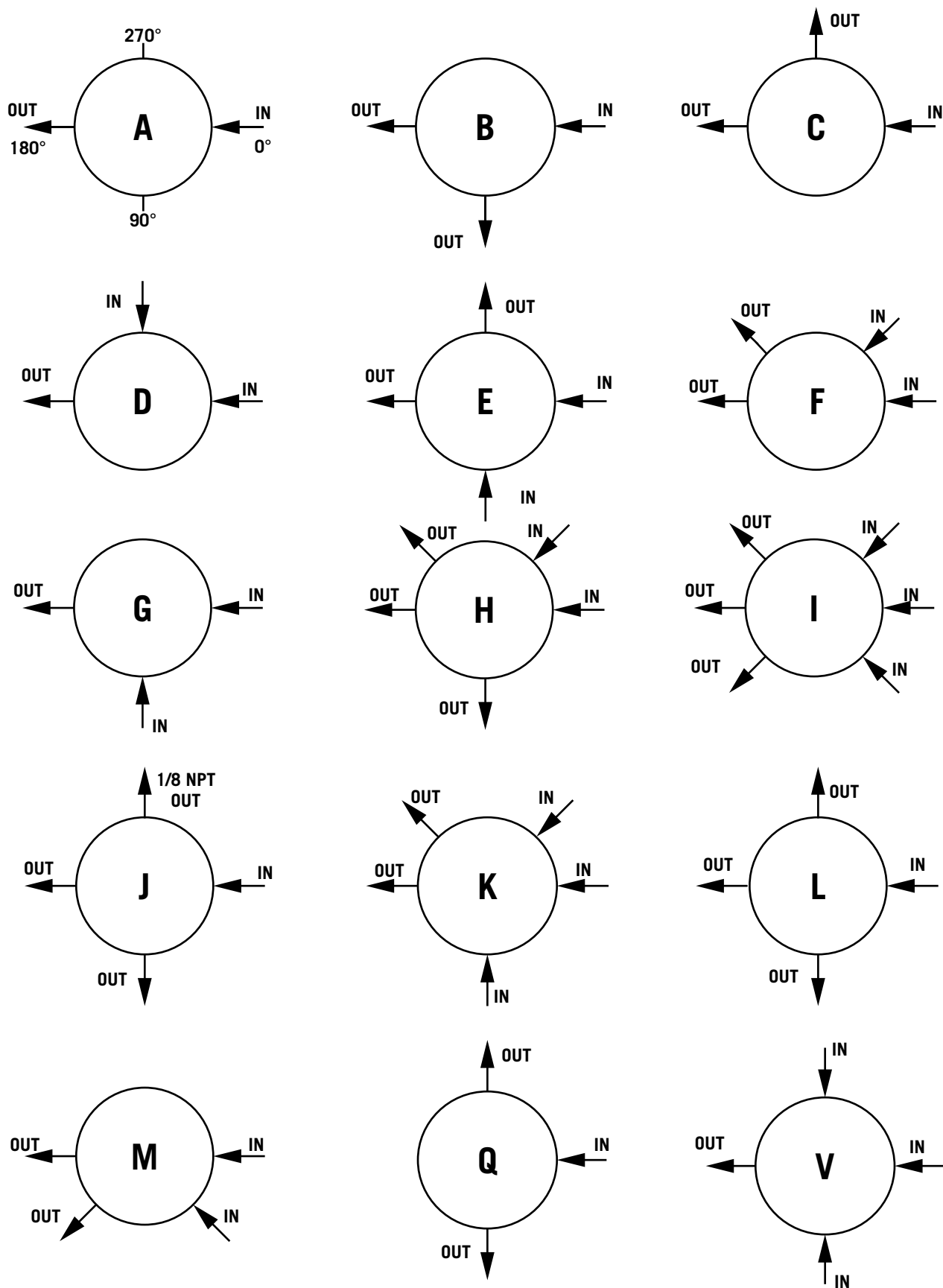
For flow curve charts, visit <http://www.goreg.com>.

# High Flow Back Pressure Regulators

## Outline and Mounting Dimensions



# Port Locations (Back Pressure Regulators)

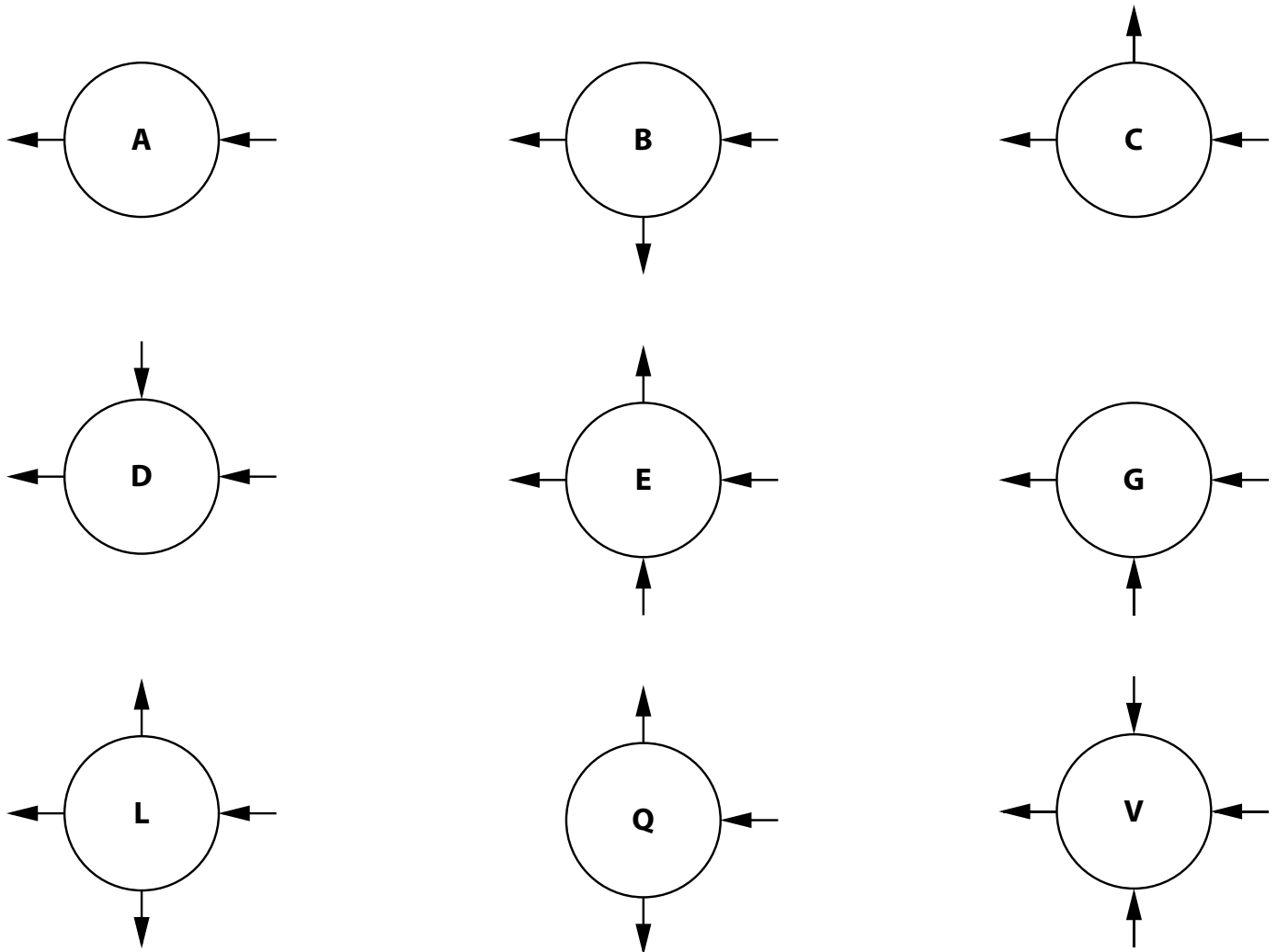


LOCATION OF PORTS FROM  
TOP VIEW

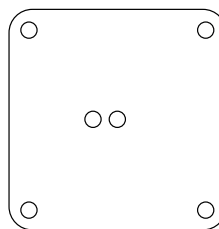
# Porting Options for LB-1 Back Pressure Valve

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



**#1**

Center port is outlet, all other ports are inlets.  
Location of ports from bottom view