

# GO REGULATOR



## BP-6 Series High Flow Back Pressure Regulator

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, may also be useful in various chemical environments. While the stainless steel seat assembly does not offer tight shutoff as it is not normally required in high flow systems. If more positive shutoff is required a Teflon®/stainless steel seat assembly is available.

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

### Features & Specifications

- $C_v$  flow coefficient of 3.0
- Gas or liquid service
- Adjustable standard pressure ranges 0–100, 0–250, 0–500 and 0–1000 psig
- Sensing with Teflon® lined stainless diaphragm
- 316L stainless steel construction
- Metal to metal seat
- Operating temperatures of -40° F (-40° C) to +500° F (+260° C)
- 1/2" FNPT inlet and outlet connections

### Options

- Monel, Hastelloy C or Titanium construction
- Soft seat for bubble tight shutoff
- Panel mounting
- Extra ports
- Special welded connections
- Pressure gauges

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# BP-6 SERIES

## High Flow Back Pressure Regulator

### How to Order

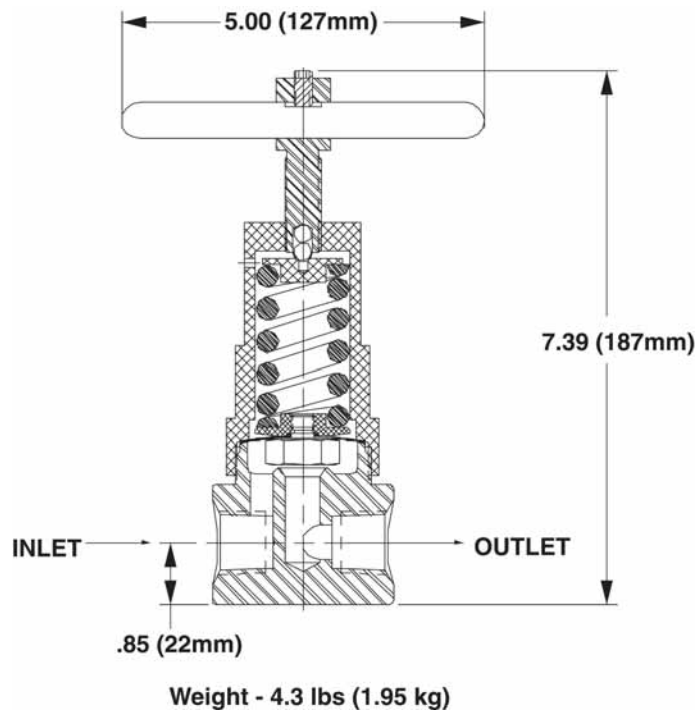
See page 3 for standard configurations. For additional configurations, consult the factory.  
See page 4 for port locations.

### Maximum Temperature & Control Pressures

Seat Material	Maximum Temperature	@	Maximum Control Range
Teflon®	200° F (93° C)	@	1000 psig (6.88 MPa)
316L SS	500° F (260° C)	@	1000 psig (6.88 MPa)
Monel	500° F (260° C)	@	1000 psig (6.88 MPa)
Hastelloy C	500° F (260° C)	@	1000 psig (6.88 MPa)
Titanium	500° F (260° C)	@	1000 psig (6.88 MPa)

Teflon® is a registered trademark of Dupont.

### Outline and Mounting Dimensions



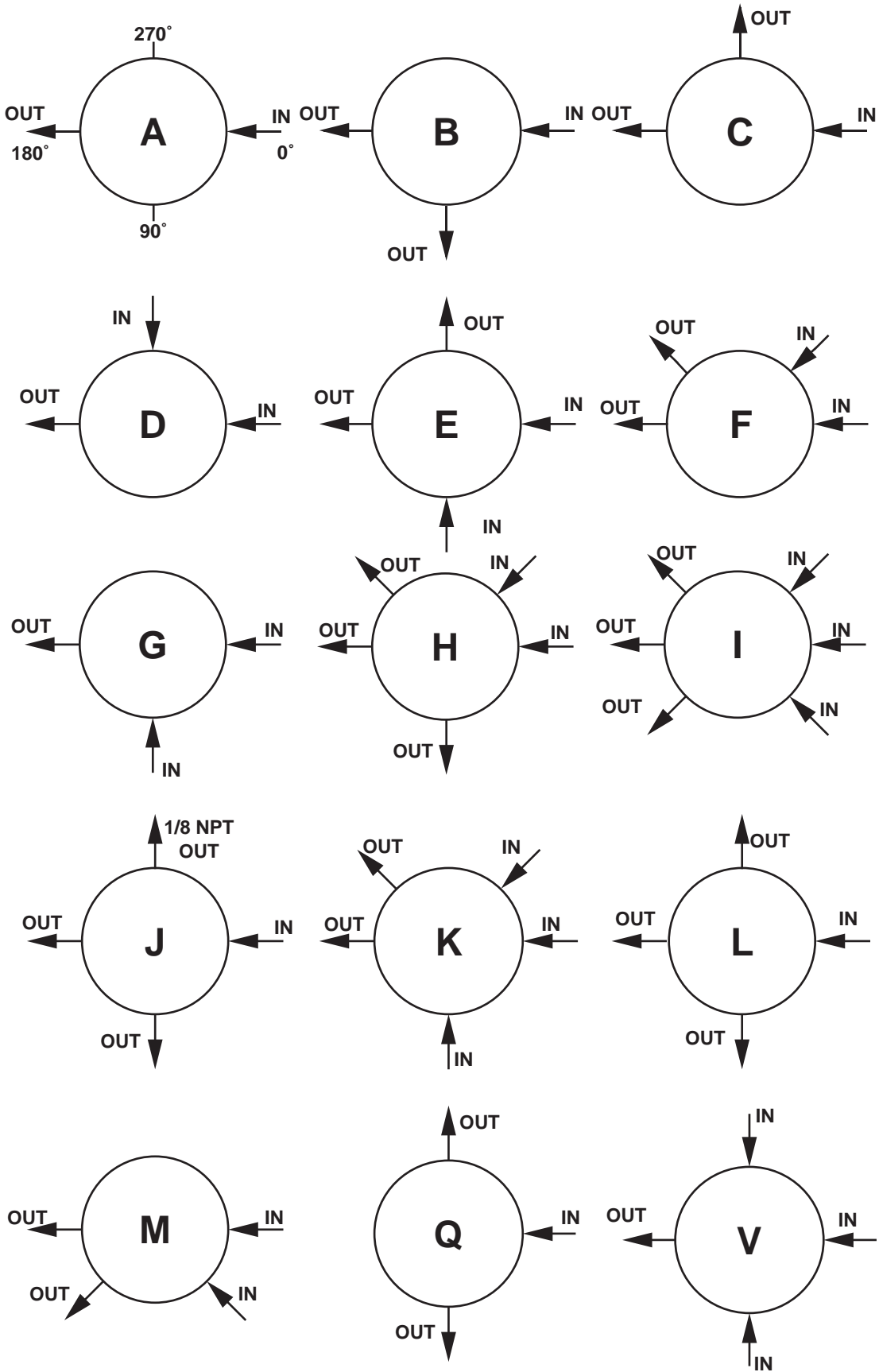
BP-6 Series - Back Pressure Regulator (US Dollars)

		<b>Material of Body</b>	
1	SS 316L		
4	Monel		
6	Hastelloy C		
7	Titanium		
A		<b>Port Configuration (page 4)</b> STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)	
		<b>Process port types (gauge port type, if specified)</b>	
5	1/2" FNPT (1/4" FNPT Gauge Ports)		
6	1/2" Tube (1/4" Tube Gauge Ports)		
E	3/4" Tube (1/4" Tube Gauge Ports)		
1		<b>Surface Finish of Diaphragm Cavity</b> <25 Ra	
		<b>Actuator Material</b>	
G	316L SS		
I	Teflon		
N	Monel		
P	Hastelloy C		
W	Titanium		
0		<b>Flow Coefficient (Cv)</b> 3.0	
		<b>Control Range</b>	
C	0 - 10 Psig		
D	0 - 25 Psig		
E	0 - 50 Psig		
G	0 - 100 Psig		
I	0 - 250 Psig		
J	0 - 500 Psig		
K	0 - 1000 Psig		
1		<b>Diaphragm Type</b> Standard	
		<b>Diaphragm Facing / Backing Material</b>	
1	Teflon / SS		
8	Teflon / Inconel		
0	Teflon / Hastelloy C		
A	Teflon / Tantalum		
		<b>Cap Assembly</b>	
1	T Handle, S.S.		
4	T Handle, Panel mount, S.S.		
L	BP-3 Top Works, S.S.		
O	BP-3 Top Works, Panel mount, S.S.		

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Material  
Port Config.  
Port Style  
Cavity Finish  
Actuator Material  
Flow (Cv)  
Control Range  
Diaphragm Type  
Diaphragm Material  
Cap Assembly

# PORT LOCATIONS (BACK PRESSURE REGULATORS)



LOCATION OF PORTS FROM TOP VIEW