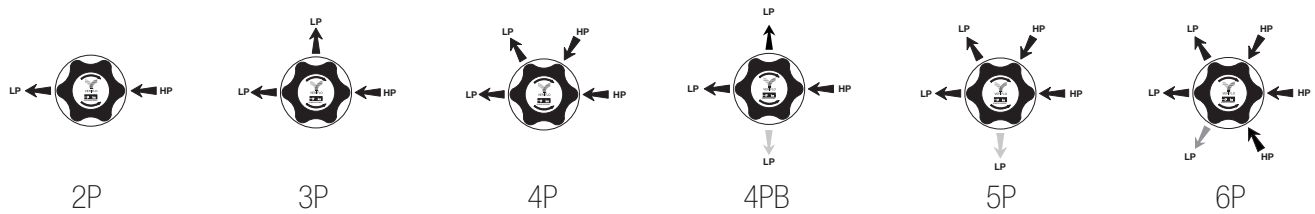
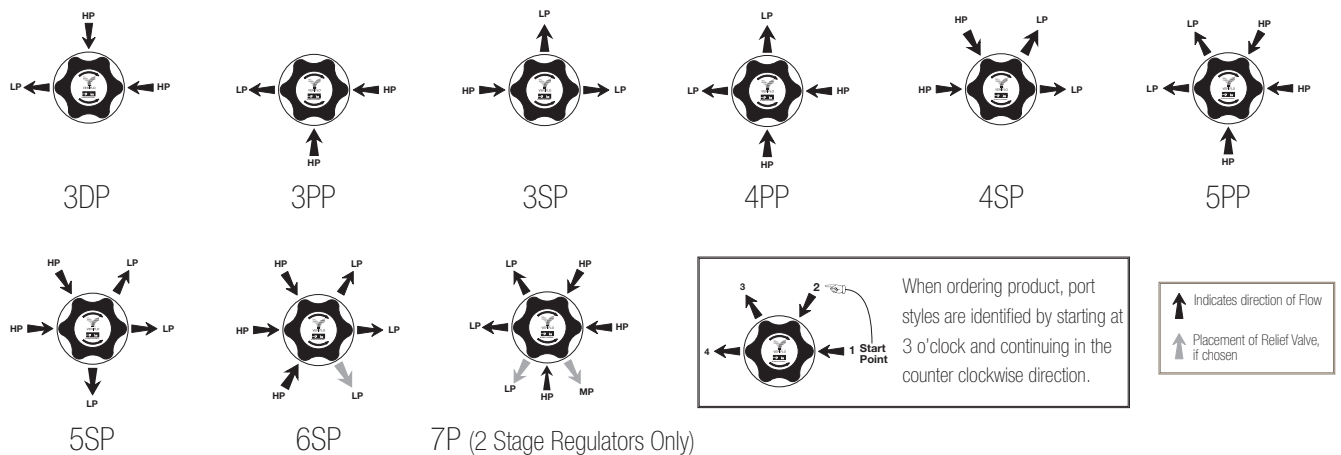


# Regulator Porting Guide

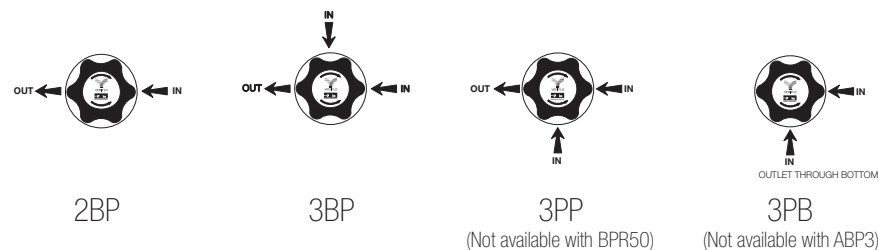
## Standard Configurations



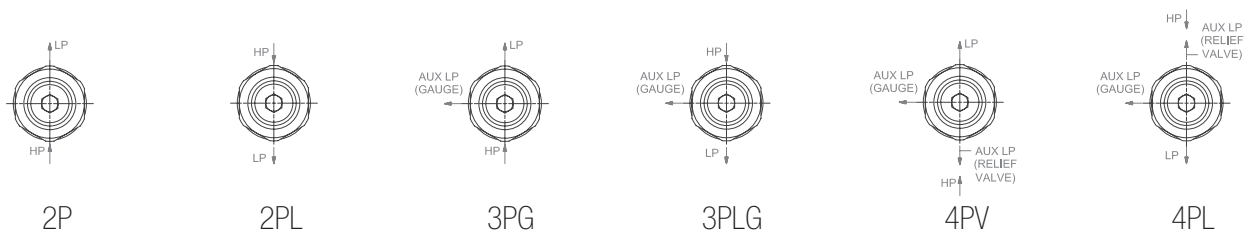
## Special Configurations



## Back Pressure Regulator Configurations (ABP1, ABP3 & BPR50)



## Vaporizing Regulator Configurations (AVR3 & AVR4)



# ABP1 Series

## 316L SS, Back Pressure Regulator

### Product Features & Benefits



- Standard Hastelloy C-22® diaphragm for superior strength and corrosion resistance.
- Convoluted diaphragm provides outlet pressure stability with changes in flow.
- Integral diaphragm stop provides an additional safety measure.
- Cleaned for O<sub>2</sub> service is standard.
- Express Service Program is available.

#### Operating Conditions

Max. Control Pressure	20 - 500 psig (35 barg)
Max. Temperature of Flow Media	-15°F to 400°F (26°C to 204°C) <i>Note: Metal Knob required for high temperature applications</i>

#### Functional Performance

Flow Capacity	
C <sub>V</sub>	0.3 C <sub>V</sub> (std), 0.1 C <sub>V</sub> or 0.06 C <sub>V</sub>
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight

\* For detailed information on Materials of Construction, visit us at [www.parker.com/veriflo](http://www.parker.com/veriflo) to review the complete product literature sheet.

### Ordering Information

Note: Options in *blue/italic* type are available for the *Express Service Program*.

Sample: **ABP1**      **S**      **T**      **3**      **3BP**      **2**      **4**  
 Finished Order: **ABP1ST33BP24**

- 1 Body Material**  
*S = 316L Stainless Steel*  
 H = Hastelloy C-22®  
 M = Monel®
- 2 Seat Material**  
*T = PTFE*  
 V = Fluorocarbon Elastomer (FKM)  
 K = Perfluoroelastomer (FFKM)

- 3 Pressure Range**
- | Range                    | Gauge                 |
|--------------------------|-----------------------|
| <i>1 = 1 - 25 psig</i>   | <i>03 0 - 30 psig</i> |
| <i>2 = 2 - 50 psig</i>   | <i>OL 0 - 60 psig</i> |
| <i>3 = 3 - 100 psig</i>  | <i>2 0 - 200 psig</i> |
| <i>4 = 10 - 250 psig</i> | <i>4 0 - 400 psig</i> |
| <i>5 = 20 - 500 psig</i> | <i>6 0 - 600 psig</i> |

- 4 Porting**  
 (Refer to Porting Guide on Page 3)  
*2BP = 2 Ports - No X required for gauges, Inlet & outlet ports only,*  
*3BP = 3 Ports - One X for gauge port*  
*3PB = 3 Ports - One X for gauge port (outlet though bottom)*  
*3PP = 3 Ports - One X for gauge ports*

- 5 Inlet Gauge**  
*03 = 0 - 30 psig*  
*OL = 0 - 60 psig*  
*2 = 0 - 200 psig*  
*4 = 0 - 400 psig*  
*6 = 0 - 600 psig*  
*X = No Gauge*  
 (Additional ranges available upon request)

- 6 Port Style**  
*2 = 1/8" NPT Female*  
*4 = 1/4" NPT Female*  
 (All Gauge ports are 1/4" NPT Female)

- 7 Optional Features**  
 This section can have multiple options
- DO= Dome Loaded (Not available with M option)  
 M = Metal Knob (Black) (Not available with DO options)  
 06 = 0.06 Cv  
 1 = 0.1 Cv

Note: Panel Mount Option:  
 Order Panel Nut Ring p/n: 41900363 as a separate line item.  
 Vent Muffler Option:  
 Order Vent Muffler p/n: 46600581 as a separate line item.