

# Back Pressure Regulators

## BPR-3 Series Back Pressure Piston Regulators

### Features

- Control of back-pressure up to 10000 psig for gas or liquid application
- Safe and reliable piston sensing
- 7 pressure control ranges
- Panel mounting available
- Special cleaning and packaging available for application in oxygen-enriched environments

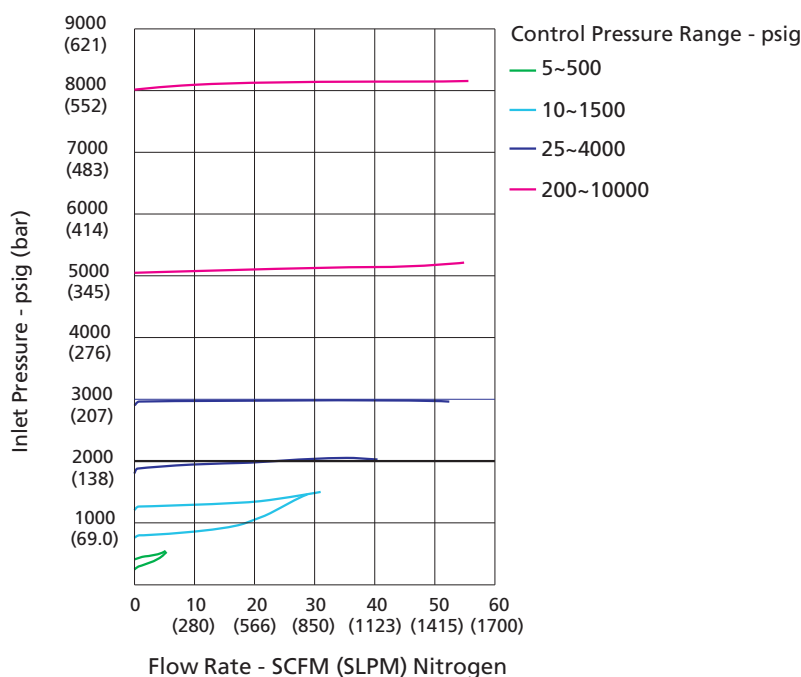
### Technical Data

- Maximum control pressure:  
Stainless steel: 10000 psig  
Brass: 6000 psig
- Pressure control ranges: 5~500, 5~800, 10~1500, 15~2500, 25~4000, 50~6000, 200~10000 psig
- Material of the main components:  
Body: 316 SS or brass  
Seat: PEEK  
Piston: 316L  
O-rings: Viton or Kalrez
- Temperature: -15°F~+165°F (-26°C~+74°C)
- Leak rates:  
Internal: Bubble-tight  
External: Bubble-tight
- Flow coefficient (Cv): 0.25
- Weight(regulator): ≈5.7 lbs (2.6 Kg)
- Body ports: 1/4" female NPT for inlet, outlet, and gauge



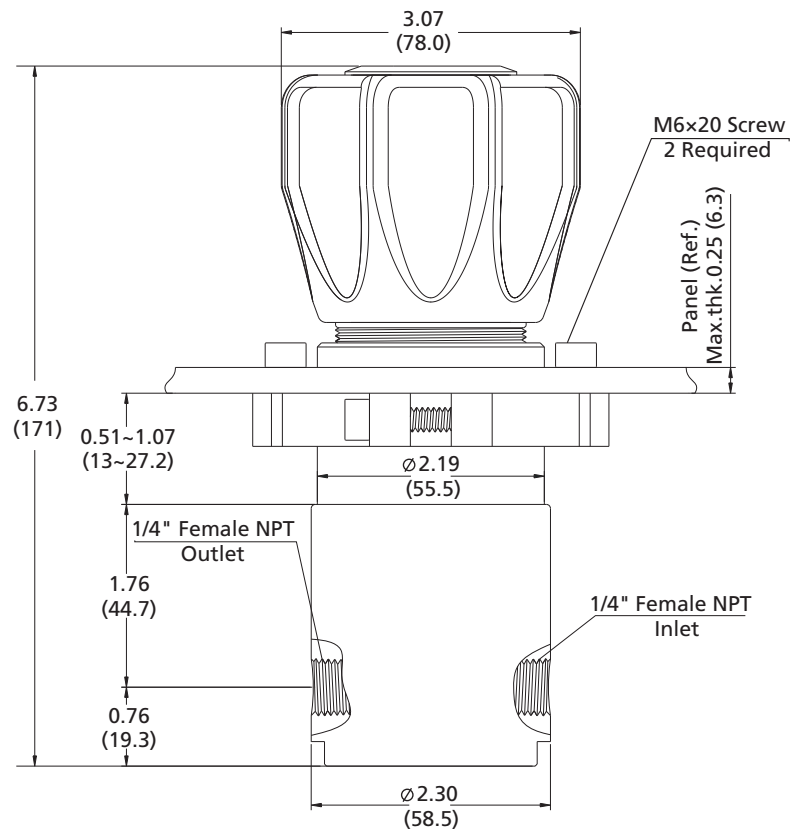
Model: BPR-3SS-40-00-00-Z

### Typical Flow Chart

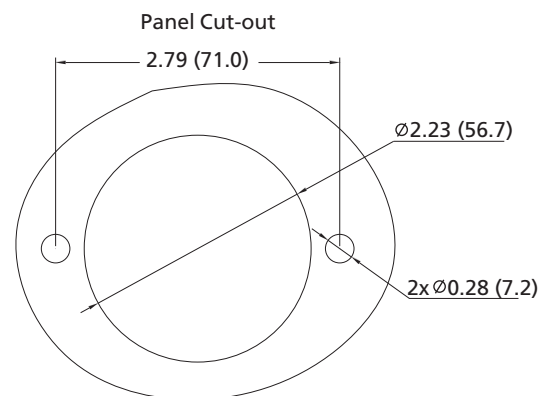
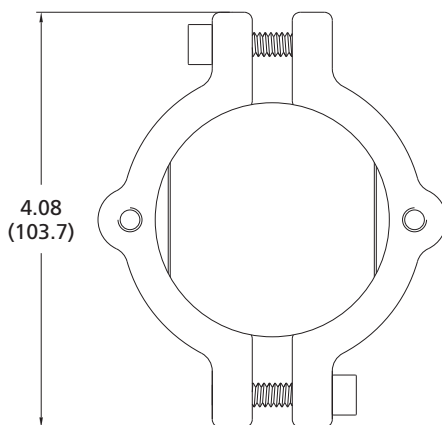


## Dimensions

Dimensions, in inches (millimeters), are for reference only.



### Bottom View



The diagrams illustrate the FTKOK gauge in three different port configurations:

- 2-Port Type:** Shows the gauge with two ports. Port 1 is labeled "Inlet" and Port 2 is labeled "Outlet".
- 3-Port Type:** Shows the gauge with three ports. Port 1 is labeled "Inlet", Port 2 is labeled "Inlet (Gauge)", and Port 3 is labeled "Outlet".
- 4-Port Type:** Shows the gauge with four ports. Port 1 is labeled "Inlet", Port 2 is labeled "Inlet (Gauge)", Port 3 is labeled "Outlet", and Port 4 is labeled "Inlet".



Body Material		Pressure Control Range P		Connection 1		Connection 2		Connection 3		Connection 4		Panel Mount	
SS	316 SS	5	5~500 psig	00	1/4" Female NPT	B	With Gauge (psi/bar)	Same as Connection 1		Same as Connection 1			Without
6L	316L SS	8	5~800 psig	01	1/4" Male NPT	M	With Gauge (MPa)					z	With
B	Brass (Max. Control Pressure 6000 psig)	15	10~1500 psig	10	1/4" Tube Fitting	P	Plug						
		25	15~2500 psig	11	3/8"Tube Fitting	00	1/4" Female NPT						
		40	25~4000 psig	20	6 mm Tube Fitting	01	1/4" Male NPT						
		60	50~6000 psig	21	8 mm Tube Fitting	10	1/4" Tube Fitting						
O-ring Material		100	200~10000 psig	Other connections are available upon request		11	3/8" Tube Fitting						
	Viton					20	6 mm Tube Fitting						
Z	Kalrez					21	8 mm Tube Fitting						
						Other connections are available upon request							
												<b>Product Technology Grade</b>	
												General Purpose	
												F2	Special Cleaning and Packaging

a. 2-Port type (1 in, 1 out): BPR-3B-25-00-00  
b. 3-Port type (2 in, 1 out): BPR-3B-40-00-M-00  
C. 4-Port type (3 in, 1 out): BPR-3B-60-00-M-00-00