

BP50 Back Pressure Valve

The BP50 series valve provides a self-contained, pilot-operated regulator to be used in various vent line applications including separators, heat treaters, compressor stations, gas gathering systems, and any other application where back pressure needs to be maintained.

The BP50 is offered in 1", 2", 3", 4", and 6" sizes. The 1" is available in NPT only, and the 2" and 3" valve are available in both flanged and female NPT thread end connections. The flanged BP50 valves are pressure rated up to 250 psi, and the threaded end valves are rated up to 300 psi.

Maintenance is made simple via removing the bonnet to reveal the seat, allowing the valve body to remain in place during maintenance.

The pilot exhaust is vented into the downstream side of the valve making the BP50 a zero bleed, emissions free device.



Specifications

Sizes: 1", 2", 3", 4", and 6"

Connections: Female NPT, Flanged

Body Type: Globe

Trim: Soft Seat

Shutoff: Class VI

Pressure Rating:

300 psi - 1", 2", 3" NPT

250 psi - 2", 3", 4", 6" Flanged

Minimum Setpoint: 5 psi

Spring Range: 5-20 psi, 5-150 psi, 10-300 psi

Temperature Range: -20° F to 250° F

Body, Bonnet, and Hub Material: Ductile Iron

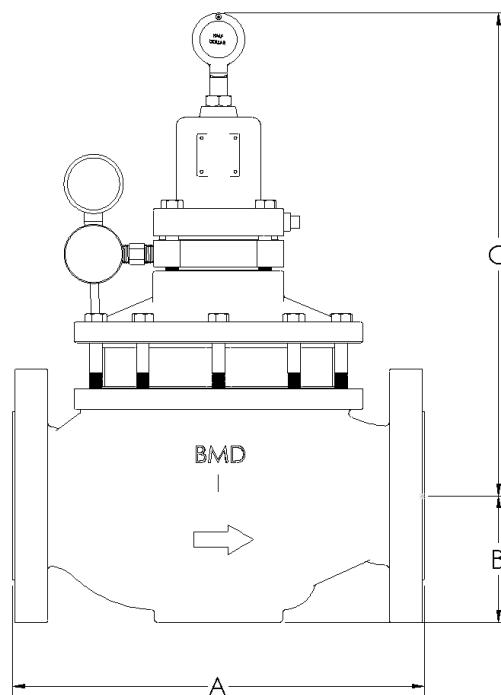
CV Values

CV Values				
1"	2"	3"	4"	6"
13	53	117	209	491

Dimensions & Weights (5 - 300 psi)

Valve Size	Valve Weights		
	End Connection	lbs	kg
1"	NPT	9	4
2"	NPT	39	18
	ANSI 150	43	20
3"	NPT	68	31
	ANSI 150	84	38
4"	ANSI 150	127	58
6"	ANSI 150	348	158

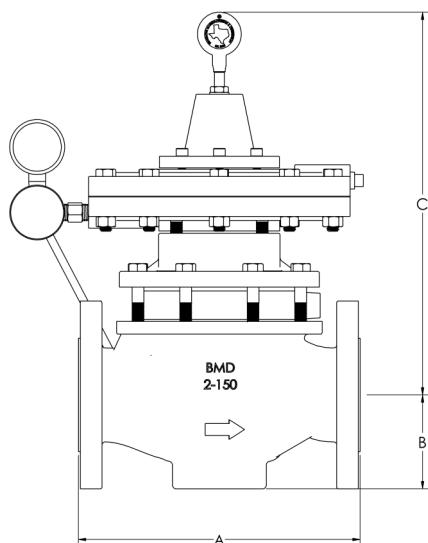
Valve Size	Body Dimension			
	End Connection	A	B	C
1"	NPT	4.38	1.13	11.63
2"	NPT	8.5	2.38	12.66
	ANSI 150	9	2.88	12.66
3"	NPT	12.06	3.75	13.6
	ANSI 150	12.19	3.75	13.6
4"	ANSI 150	15.06	4.44	14.31
6"	ANSI 150	22	5.63	20.04



Dimensions & Weights - Low Pressure (5-20 psi spring)

Valve Size	Valve Weights		
	End Connection	lbs	kg
2"	NPT	58	27
	ANSI 150	62	28
3"	NPT	87	39
	ANSI 150	103	46
4"	ANSI 150	146	67
6"	ANSI 150	367	167

Valve Size	Body Dimension			
	End Connection	A	B	C
2"	NPT	8.5	2.38	12.23
	ANSI 150	9	2.88	12.23
3"	NPT	12.06	3.75	13.37
	ANSI 150	12.19	3.75	13.37
4"	ANSI 150	15.06	4.44	13.88
6"	ANSI 150	22	5.63	19.61



How to Order

Example Model No. **BP50-2N1-2F**

BP50 Series Back Pressure Valve, 2", NPT End Connection, Standard Service, 5-150 psi spring, Full Port.

Body Size	BP50 - 2 N 1 - 2F				
1 - 1"	2 - 2"	3 - 3"	4 - 4"	6 - 6"	
Connection					
N - NPT (1", 2", & 3" Only)					F - RFE*
Service					
1 - Standard	2 - NACE				
Spring					
1 - 5-20 psi spring*	2 - 5-150 psi spring*				
3 - 10-300 psi spring					
Trim					
F - Full Port	R - Reduced Port				

*Not available with 1" body size