

Back Pressure Valve

BP50 Model

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 2", 3", 4" and 6" sizes. The 2" and 3" valve is 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: 2", 3", 4" and 6"

Connections: Female NPT (2" & 3" only), flanged

Body Type: Globe

Trim: Soft seat

Shutoff: Class VI

Pressure Rating:

300 psi - 2", 3" NPT

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

Minimum Setpoint: 10 psi

Spring Range: 10-300 psi

Temperature Range: -20° F to 250° F (-29° C to 121° C)

Body, Bonnet and Hub Material: Ductile iron



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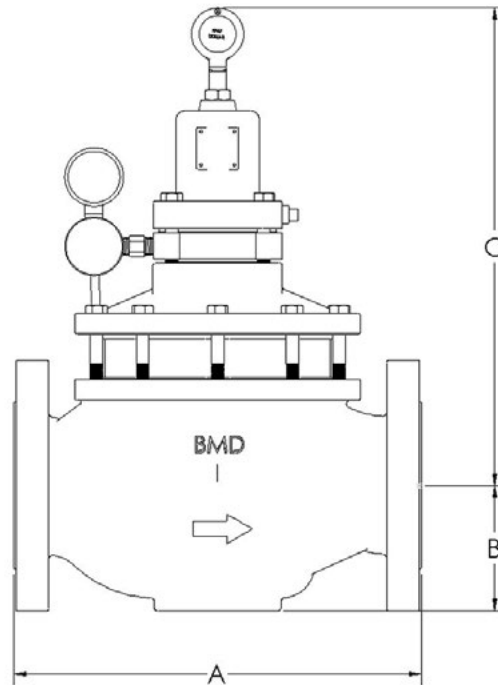
CV Values

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

Dimensions and Weights

Valve Size	Body Dimension (inches)			
	End Connection	A	B	C
2"	NPT	8.5	2.38	12.66
	ANSI 150	9	2.88	12.66
3"	NPT	12.06	3.75	13.60
	ANSI 150	12.19	3.75	13.60
4"	ANSI 150	15.06	4.44	14.31
6"	ANSI 150	22	5.63	20.04

Valve Size	Valve Weights		
	End Connection	lbs	kg
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

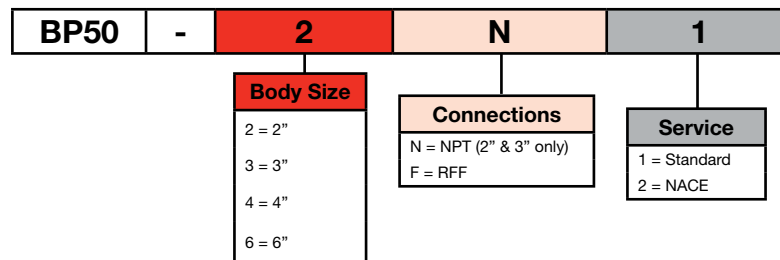


How to Order

Options are listed below. All configurations may not be available. Call your sales representative or FW Murphy for more information. Repair kits are available.

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

BP50 Series Back Pressure Valve, 2" Globe Body, NPT End Connection, Standard Service.



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