

Pressure Reducing Valve

PR50 Model

The PR50 series is a self-contained, non-venting, pilot operated regulator designed for use in various pressure reducing applications. Typical applications include compressor suction control and supply or distribution pressure control.

The PR50 is offered in 2", 3", 4" and 6" sizes. The 2" and 3" valves are available in both flanged and female NPT threaded end connections. The flanged PR50 valves are pressure rated up to 250 psi, while the threaded end valves are rated up to 300 psi.

Maintenance is 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 PR50 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 Differential: 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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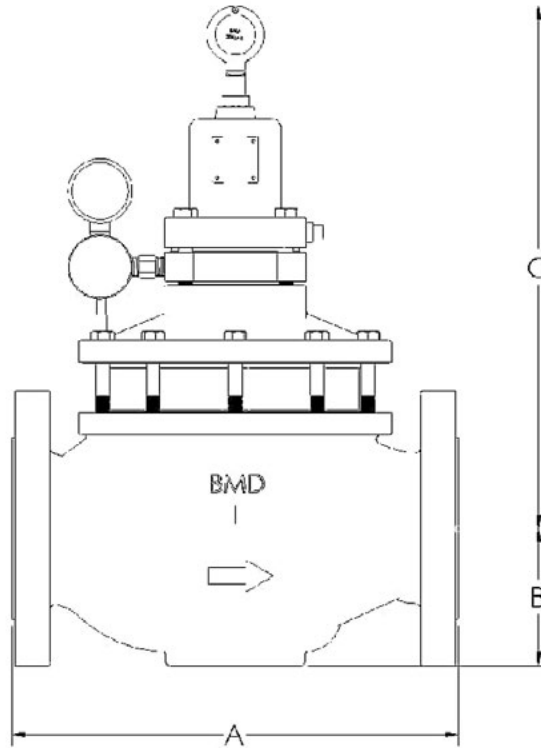
CV Values

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

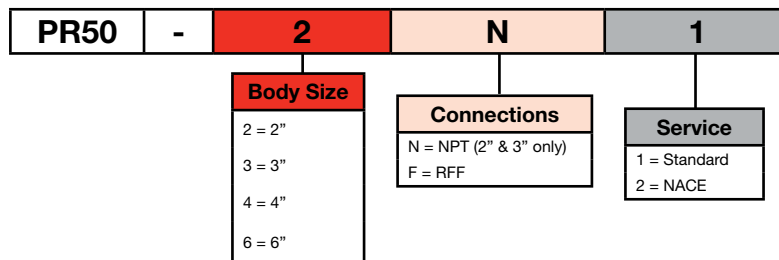


How to Order

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. **PR50-2N1**

PR50 Series Pressure Regulating Valve, 2" Globe Body, NPT End Connection, Standard Service.



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