

# PR50 PRESSURE REDUCING VALVE

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 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 PR50 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 PR50 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 Differential:**

- 5 psi

**Spring Range:**

- 0.5 oz - 2.5 psi
- 1 oz - 5 psi
- 1-20 psi
- 5-150 psi
- 10-300 psi

**Temperature Range:**

- -20° F to 250° F

## MATERIALS

**Body, Bonnet, and Hub Material:**

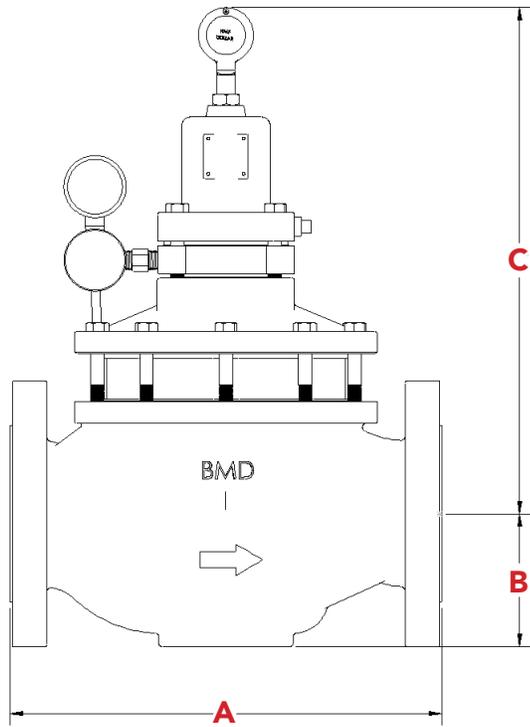
- Ductile Iron

## CV VALUES

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



## DIMENSIONS & WEIGHTS (5 - 300 PSI)



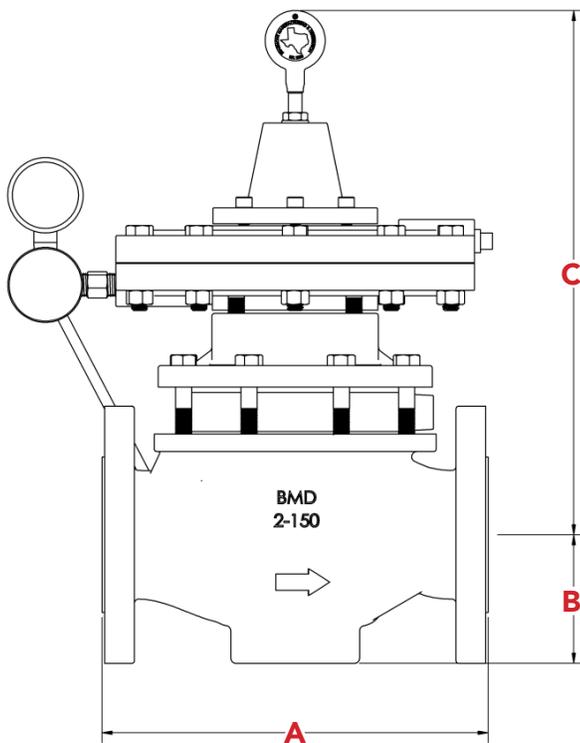
### VALVE WEIGHTS

VALVE SIZE	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

### BODY DIMENSIONS

VALVE SIZE	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 (0.5 oz - 20 PSI SPRING)



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2"	NPT	39	18
	ANSI 150	43	20
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	ANSI 150	84	38
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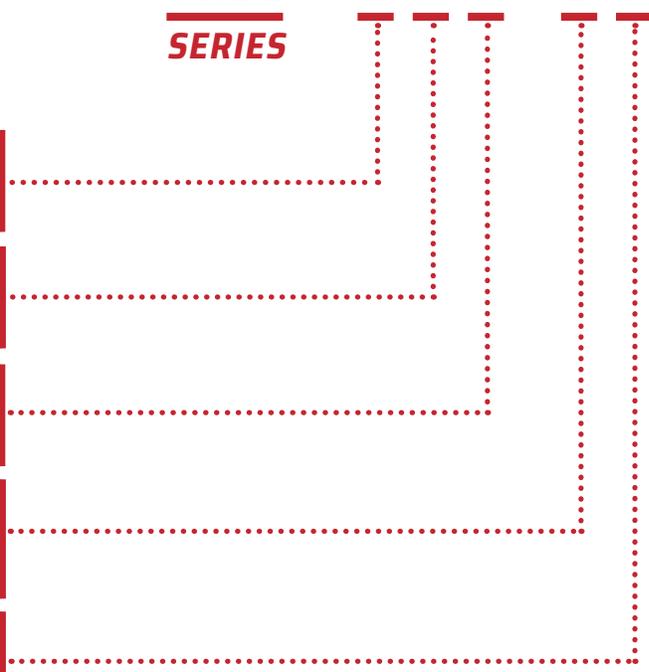
# HOW TO ORDER

EXAMPLE MODEL NO. **PR50-2N1-3F**

PR50 Series Pressure Regulating Valve, 2", NPT End Connection,  
Standard Service, 10-300 psi spring, Full Port.

**PR50** - **2** **N** **1** - **3** **F**  
**SERIES**

<b>BODY SIZE</b> 1 - 1"      2 - 2"      3 - 3"      4 - 4"      6 - 6"
<b>CONNECTION</b> N - NPT (1", 2", & 3" Only)      F - RFF*
<b>SERVICE</b> 1 - Standard      2 - NACE
<b>SPRING</b> 1 - 1-20 psi spring*      3 - 10-300 psi spring      5 - 1 oz - 5 psi spring 2 - 5-150 psi spring      4 - 0.5 oz - 2.5 psi spring
<b>TRIM</b> F - Full Port      R - Reduced Port



\*Not Available in 1" Body Size

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