

# REGULATORS BALANCED ZERO 700 °F SERVICE

**MODEL: 5113 - BZR - 700**

Revision: 0

**BULLETIN  
5113**

## DESCRIPTION

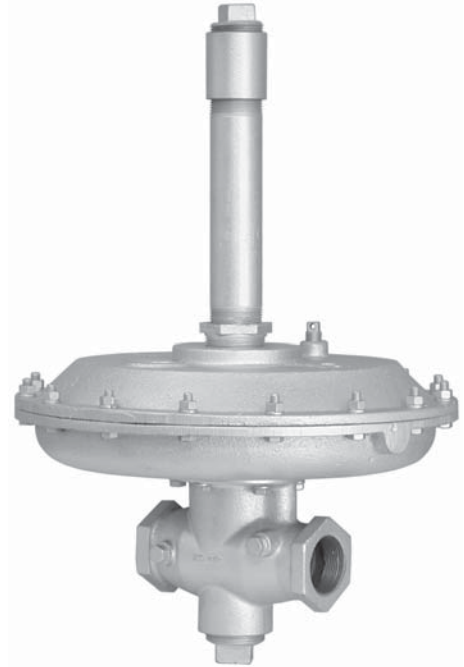
The **BZR-700** is designed for flow ratio control of high-temperature vaporized fuels such as JP-series fuels, kerosene, and naphtha. It is rated for continuous duty service to temperatures of 700 °F.

Construction features a stainless steel main and balancing diaphragm and stainless steel valve disc with high-temperature gasketing.

**BZR-700 Series Balanced Zero Regulators** are used for precise control of heated gases or for equipment locations subjected to high ambient temperatures. They are designed for continuous operation up to 700 °F and to resist corrosion from high sulphur or other corrosive gases. The special high temperature construction does not sacrifice performance.

The BZR-700 series regulators duplicate the precise control characteristics of the standard BZR Regulators. They automatically adjust valve position to hold a desired precise outlet pressure. Slight variations in inlet pressure do not affect the performance.

For installation, see Bulletin 5101 Installation.



## CAPACITY TABLE

Model Number	Pipe Size		SCFH Gas Flow @ 4.0" W.C. Pressure Drop			
	Inlet	Outlet	MFD.	NAT.	AIR	L.P.
			0.4 Sp. Gr.	0.6 Sp. Gr.	1.0 Sp. Gr.	1.5 Sp. Gr.
12 - BZR - 700	1-1/2"	1-1/2"	3,160	2,580	2,000	1,640
20 - BZR - 700	2-1/2"	2-1/2"	7,900	6,450	5,000	4,100
24 - BZR - 700	3"	3"	12,600	10,300	8,000	6,500

## FEATURES

- Accuracy:
  - Low - Flow:  $\pm 0.1$ " W.C.
  - Full - Flow:  $\pm 0.3$ " W.C.
- Turndown up to 200:1
- Continuous operation to 700 °F
- For use with high-temperature vaporized fuels such as JP-series fuels, kerosene, and naphtha
- All units factory tested and sealed before shipment
- Maximum inlet pressure: 5.0 psig
- Maximum pressure differential: 14.0" W.C.
- Sensitivity - Responds to signal pressure differential as low as 0.04" W.C.

**CAUTION:** Operation of combustion equipment can be hazardous resulting in bodily injury or equipment damage. Each burner should be supervised by a combustion safeguard and only qualified personnel should install, make system adjustments and perform any required service.



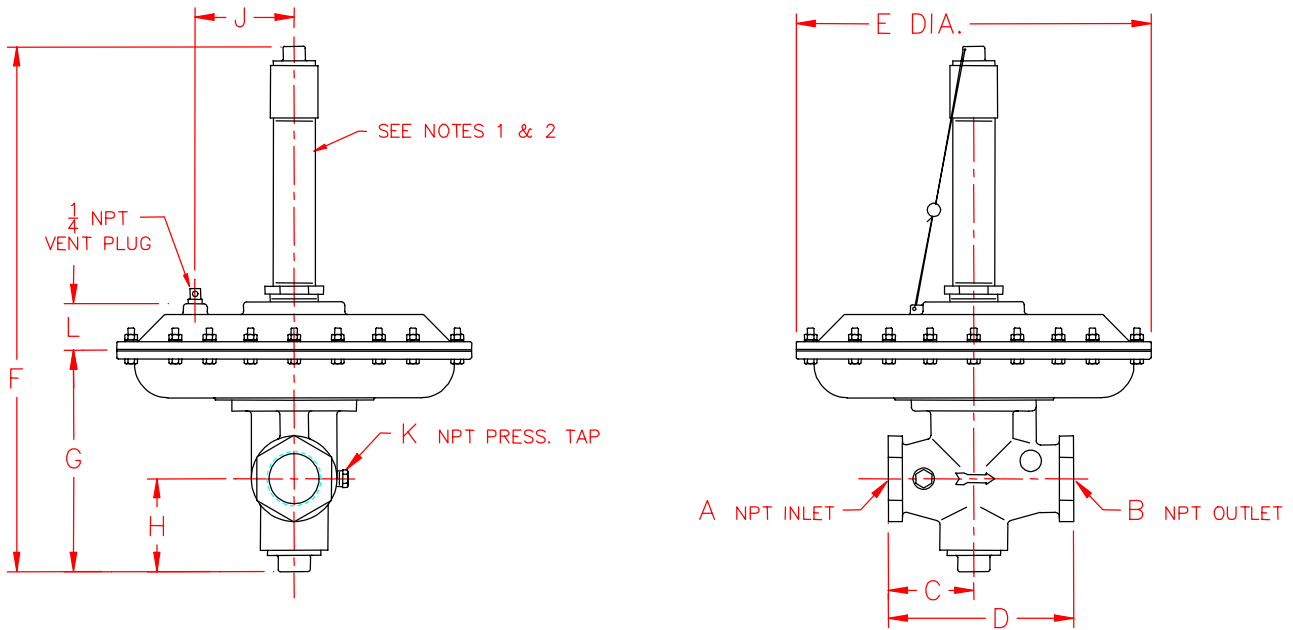
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**NOTICE:** PYRONICS practices a policy of continuous improvement in the design of its products. It reserves the right to change the specifications at any time without prior notice.

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## DIMENSIONS: 1-1/2" - 3" SIZES



Model Number	A	B	C	D	E	F	G	H	J	K	L	Weight Lbs.
12 - BZR - 700	1-1/2	1-1/2	3	6-1/2	14	20-1/8	8-1/8	3-1/4	3-5/8	1/4	1-7/8	55.0
20 - BZR - 700	2-1/2	2-1/2	4	8-3/4	19	28-1/2	10	3-5/8	7	1/4	2-1/4	126.0
24 - BZR - 700	3	3	5-3/4	11-1/2	19	30-1/4	11-3/4	4-5/8	7	1/4	2-1/4	136.5

**NOTES:**

1. Spring housing must be perpendicular to pipe run in an upright position.
2. Gas pipe run must be horizontal and level.
3. All dimensions are in inches.

## ORDERING INFORMATION

1. Specify Inlet and Outlet Pressure.
2. Type of Gas, Flow, Specific Gravity and Temperature.
3. Specify Model Number and Quantity.
4. Shipping Instructions.