

# Selas Balanced Zero Regulator BZR

## BZR Capacities

Balanced Zero Regulators (BZR) feature a rugged, large diaphragm actuated valve assembly, sensitively balanced at near zero pressure. Gas flow is initiated by a very small pressure differential across the main diaphragm. Gas supply is precisely modulated on system demand by negative or positive signals from suction mixers or controlled pressure from an external source.

The BZR regulator assures dependable, precise gas flow control on all types of combustion systems including proportioning premixers, nozzle mixers and mixing tees at positive or negative combustion chamber pressures.

## Features

- Accuracy: Low - Flow:  $\pm 0.1$ " W.C. | Full - Flow:  $\pm 0.3$ " W.C.
- Turndown up to 200:1
- Operating temperatures to 150°F
- All units factory tested and sealed before shipment
- Maximum inlet pressure: 2.0 psig
- Maximum pressure differential: 14.0" W.C.
- Sensitivity - Responds to signal pressure differential as low as 0.04" W.C.

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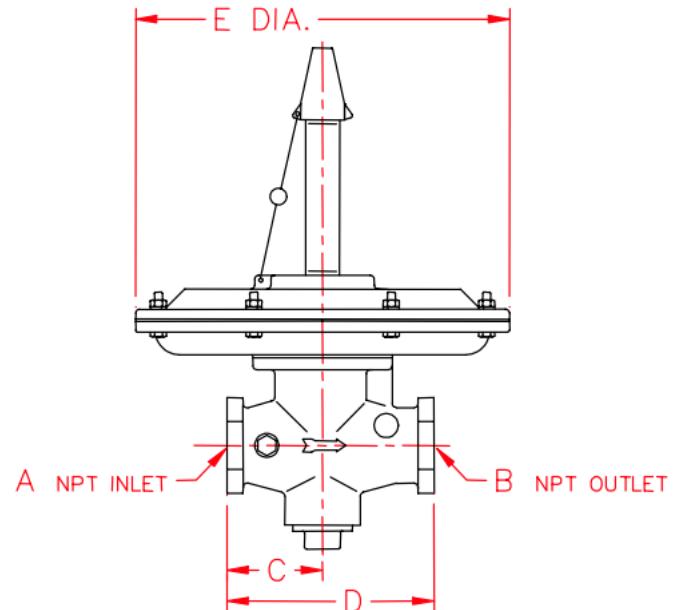
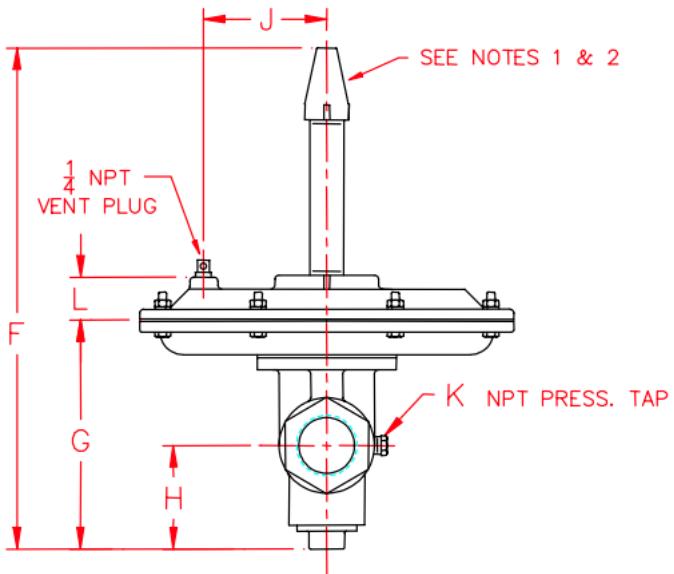
Model Number	Pipe Size	SCFH Gas Flow @ 4.0" W.C. Pressure Drop			
		MFD 0.4 Sp. Gr.	NAT. 0.6 Sp. Gr.	AIR 1.0 Sp. Gr.	L.P. 1.5 Sp. Gr.
4-BZR	1/2"	550	450	350	280
6-BZR	3/4"	790	650	500	410
8-BZR	1"	1,580	1,290	1,000	820
12-BZR	1-1/2"	3,160	2,580	2,000	1,640
16-BZR	2"	5,530	4,520	3,500	2,860
20-BZR	2-1/2"	7,900	6,450	5,000	4,100
24-BZR	3"	12,600	10,300	8,000	6,500
32-BZR	4"	22,100	18,100	14,000	11,400



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## DIMENSIONS: 3/4" - 3" SIZES



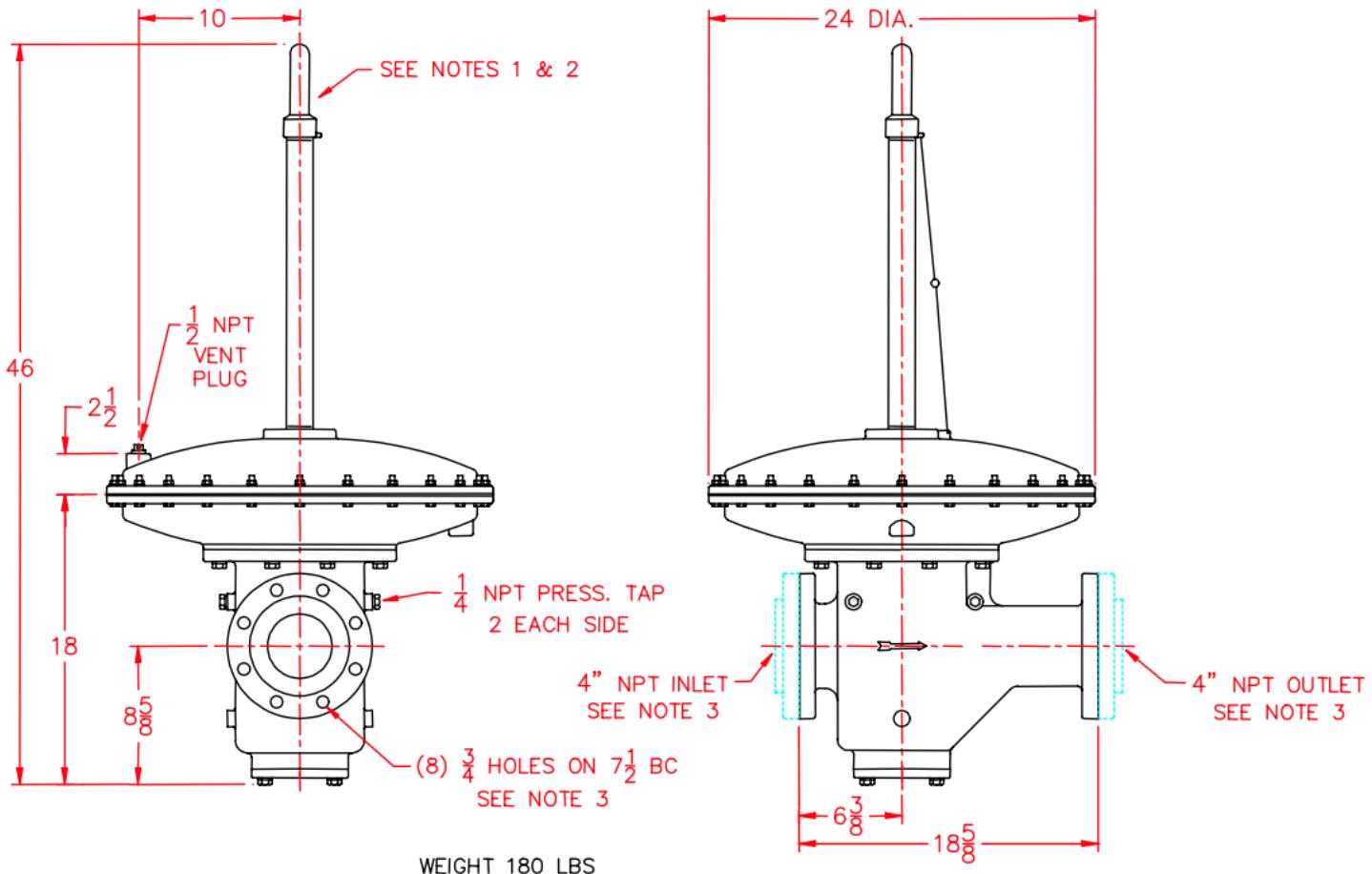
Model Number	A	B	C	D	E	F	G	H	J	K	L	Weight Lbs.
4-BZR	1/2	1/2	1-3/4	3-3/4	7	8-3/4	3-1/2	1-3/4	2-1/8	--	1	3.1
6-BZR	3/4	3/4	2-1/2	5	8-1/4	11-1/4	4-7/8	2	--	1/8	1-1/4	6.5
8-BZR	1	1	2-3/8	4-3/4	9-3/4	11-3/4	4-3/4	2	3-3/8	1/8	1-1/4	8.5
12-BZR	1-1/2	1-1/2	3	6-1/2	11-3/4	15-3/4	7-1/4	3-1/4	3-7/8	1/4	1-3/8	15.5
16-BZR	2	2	3-1/2	7-1/2	11-3/4	16-1/8	8-1/8	3-7/8	3-7/8	1/4	1-3/8	20.0
20-BZR	2-1/2	2-1/2	4	8-3/4	14	18-5/8	8-3/4	3-5/8	3-5/8	1/4	1-7/8	50.0
24-BZR	3	3	5-3/4	11-1/2	14	20-3/8	10-5/8	4-5/8	3-5/8	1/4	1-7/8	60.5



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## DIMENSIONS: 4" SIZE



### NOTES:

1. Spring housing must be in an upright position.
2. Gas pipe run must be horizontal and level.
3. Designed to accept standard 4" ANSI flanges.
4. All dimensions are in inches.

11012 Aurora Hudson Rd • Streetsboro, OH 44241

**1-800-523-6500 • sales@selas.com**

**www.selas.com**

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