

REGULATORS COMBINATION REDUCING - RELIEF

MODEL: 5230-SRB, 5231-SRB-300
Revision: 0

BULLETIN
5230, 5231

DESCRIPTION

SRB Combination Reducing - Relief Regulators serve a dual function. They relieve upstream pressure while at the same time controlling downstream pressure. The controlled pressure downstream is equal to the upstream pressure minus the spring setting. Springs are color-coded in cataloged pressure ranges. Inlet pressures to 25 psig operating; maximum surge to 50 psig without damage. Available in sizes 3/4" through 3" NPT.

CAPACITY TABLE

Relief Regulator Catalog Number	Pipe Size NPT	Capacities in SCFH of Various Specific Gravity Gases @ 14" W.C. Pressure Drop				
		0.4	0.6	1.0	1.5	2.0
SRB- 6-	3/4"	1,230	1,000	780	630	550
SRB- 8-	1"	2,400	2,000	1,500	1,200	1,100
SRB-12-	1-1/2"	4,900	4,000	3,100	2,500	2,200
SRB-20-	2-1/2"	12,300	10,000	7,800	6,300	5,500
SRB-24-	3"	21,000	17,000	13,000	11,000	9,200

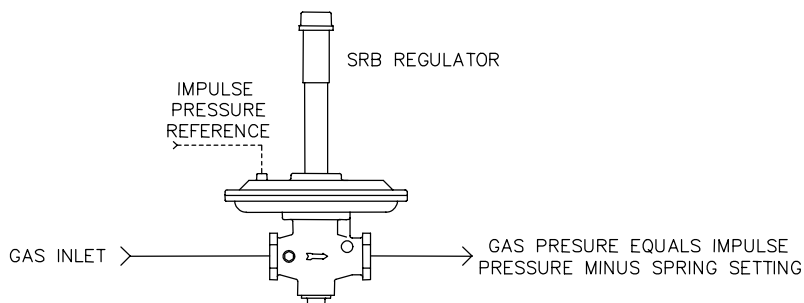
SPRING RANGES

Spring Number	Spring Color	Spring Adjustment Range Start to Stroke Setting	
		Minimum	Maximum
4	Red	1" w.c.	8" w.c.
16	Orange	7" w.c.	30" w.c.
48	White	12 osi	48 osi

Spring #48 not available on #SRB-20 and SRB-24

Top diaphragm loading connection may be direct connected from inlet tapping on valve body or from a remote signal source. Valve opens as inlet pressure rises.

SRB PIPING DIAGRAM



FEATURES

- Drip tight shut-off below start to open point.
- Balanced valve design.
- Synthetic reinforced diaphragms – for air, all fuel and inert gases.
- Inlet pressures to 25 psig operating, maximum surge to 50 psig without damage.
- Rugged proven design.
- Standard SRB series operating temperatures to 150 °F.
- SRB-300 series operating temperatures to 300 °F.

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.



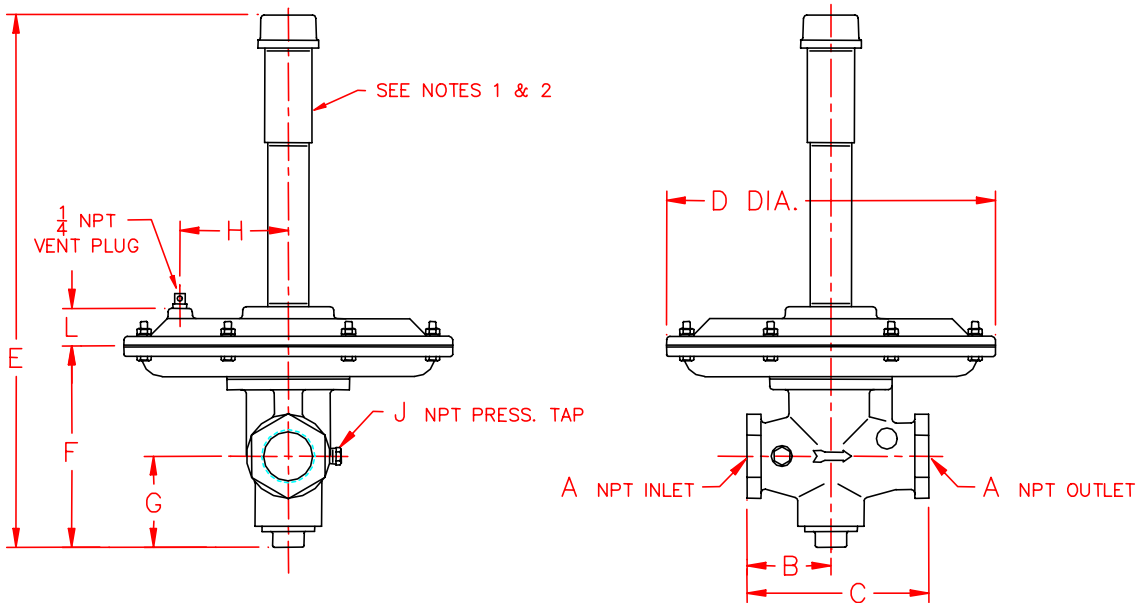
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NOTICE: PYRONICS practices a policy of continuous improvement in the design of its products. It reserves the right to change the specifications at any time without prior notice.

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DIMENSIONS: 3/4" - 3" SIZES SRB and SRB-300



Model Number	A	B	C	D	E	F	G	H	J	L	Weight	
											Lbs.	Kgs.
SRB- 6- 4	3/4	2-1/2	5	8-1/4	19	4-7/8	2	----	1/8	----	13.0	5.90
SRB- 6-16	3/4	2-1/2	5	8-1/4	20-1/2	4-7/8	2	----	1/8	----	13.0	5.90
SRB- 6-48	3/4	2-1/2	5	8-1/4	12-7/8	4-7/8	2	----	1/8	----	13.0	5.90
SRB- 8- 4 & 16	1	2-3/8	4-3/4	9-3/4	20-1/2	4-3/4	2	3-3/8	1/8	1-1/4	19.0	8.62
SRB- 8-48	1	2-3/8	4-3/4	9-3/4	12-7/8	4-3/4	2	3-3/8	1/8	1-1/4	19.0	8.62
SRB-12- 4 & 16	1-1/2	3	6-1/2	11-3/4	25-7/8	7-1/4	3-1/4	3-7/8	1/4	1-3/8	26.0	11.79
SRB-12-48	1-1/2	3	6-1/2	9-3/4	15-1/8	7	3-1/4	3-3/8	1/4	1-1/4	26.0	11.79
SRB-20- 4	2-1/2	4	8-3/4	14	28	8-3/4	3-5/8	3-5/8	1/4	1-7/8	50.0	22.68
SRB-20-16	2-1/2	4	8-3/4	14	32	8-3/4	3-5/8	3-5/8	1/4	1-7/8	50.0	22.68
SRB-24- 4	3	5-3/4	11-1/2	14	29-3/4	10-5/8	4-5/8	3-5/8	1/4	1-7/8	72.0	32.66
SRB-24-16	3	5-3/4	11-1/2	14	33-3/4	10-5/8	4-5/8	3-5/8	1/4	1-7/8	72.0	32.66

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. Select quantities and sizes of Combination Reducing - Relief Regulators required, based on capacity table on Page 1.
2. Select spring range and color from table for opening pressure desired.
3. Example: SRB-20-16 for 2-1/2" Combination Reducing - Relief Regulators with 7" to 30" w.c. spring range.