

Pressure Reducing Valves

Pressure Reducing Valves fill the system to a preset pressure for optimum performance.



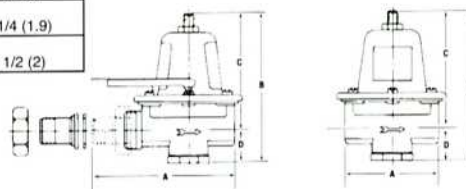
COMBINATION "DUAL UNITS"

Model No.	Part No.	Component Valves	Body Material	Connection in Inches		Dimensions in Inches (mm)		Approx. Shpg. Wt. lbs. (Kg)	
				Boiler	Fill	Between Connections	Overall Height		
8	110199	Relief	Iron	1/2 NPT	1/2 NPT	6 7/16 (164)	5 3/8 (137)	4 (1.8)	
		B-38	Brass						
8TU	110200	Relief	Iron		1/2 Union	8 5/8 (219)		6 (152)	4 1/4 (1.9)
		B-38TU	Brass						
F-3	110197	Relief	Brass		1/2 NPT	6 7/16 (164)			4 (1.8)
		FB-38	Brass						
F-3TU	110198	Relief	Brass		1/2 Union	8 5/8 (219)			4 1/4 (1.9)
		FB-38TU	Brass						
F-8	110201	Relief	Iron		1/2 NPT	6 7/16 (164)			4 1/2 (2)
		FB-38	Brass						
F-8TU	110202	Relief	Iron	1/2 Union	8 5/8 (219)	4 1/2 (2)			
		FB-38TU	Brass						

- Fast fill feature reduces start-up time and labor.
- Low inlet pressure check valve helps prevent loss of system pressure if the supply water drops below system pressure.
- Convenient cleanable strainer is designed to prevent dirt and sediment from entering the system.
- Union connection available with 1/2" male NPT thread and 1/2" female sweat tail-piece for fast, flexible system connection.
- Brass body construction is highly resistant to corrosion -- ideal for water systems.

PRESSURE SETTING

Relief 30 PSI
Reducing 12 PSI standard; field adjustable range: 10 - 25 PSI
Maximum operating temperature 225°F (107°C) - Maximum operating pressure 125 PSIG (862 kPa)



PRESSURE REDUCING VALVES

Model No.	Part No.	Body Material	Connection Size - Inches		Factory Setting (PSIG)	Adjustable Range (PSIG)	Dimensions in Inches (mm)				Approx. Shpg. Wt. lbs. (Kg)
			A	B			C	D			
B-38	110190	Brass	1/2	NPT	12	10 - 25	3 1/16 (78)	4 13/16 (122)	3 11/16 (94)	1 1/8 (29)	1 3/4 (0.8)
B7-12	110196		3/4				3 (76)	4 31/32 (126)	3 21/32 (93)	1 5/16 (33)	2 1/4 (1.0)
B-38TU	110191		1/2				4 31/32 (126)	4 13/16 (122)	3 11/16 (94)	1 1/8 (29)	2 (0.9)
FB-38	110192		1/2				3 1/16 (78)				
FB-38TU	110193		1/2				4 31/32 (126)				
6	110194		1/2	3 1/16 (78)			4 31/32 (126)	3 21/32 (93)	1 5/16 (33)	2 1/4 (1.0)	
7	110195		3/4	3 (76)							

* Models ending in "TU" feature 1/2" sweat/NPT union connection

ASME Safety Relief Valves

ASME Safety Relief Valves protect fired and unfired hot water vessels against hazardous operating pressures.

Engineered in accordance with Section IV of the ASME boiler & pressure code for heating boilers with capacities certified by the National Board of Boiler and Pressure Vessel Inspectors.

Offer the highest BTUH ratings available on the market today for valves in their class (790,000 to 5,999,000 BTUH)

EPDM diaphragm operated (cast iron models) and diaphragm assisted (bronze models) have an effective area approximately 5 times greater than conventional "pop-type" relief valves to help overcome the effects of fouling.

Low differential between opening and closing pressures helps to prevent conditions under which system water might flash to steam and cause hammering.

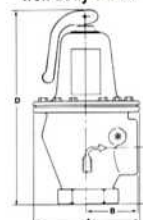


Nos. 3301 & 4100



Nos. 790 & 1170

Models 3301 & 4100 Iron Body Valves



Models 790 & 1170 Bronze Body Valves



Relief Setting PSIG	Model Number Capacity in BTU Per Hour			
	Iron Body		Bronze Body	
	30	3301-30 3,300,000	4100-30 4,100,000	790-30 790,000
36	3301-36 3,800,000	4100-36 4,600,000	790-36 900,000	1170-36 1,330,000
45	3301-45 4,500,000	4100-45 5,515,000	790-45 1,065,000	1170-45 1,575,000
50	3301-50 4,900,000	4100-50 5,990,000	790-50 1,160,000	1170-50 1,710,000
75	NOT AVAILABLE		790-75 1,615,000	1170-75 2,385,000
100	NOT AVAILABLE		790-100 2,075,000	1170-100 3,060,000
125	NOT AVAILABLE		790-125 2,535,000	1170-125 3,735,000

¹ Contact your local wholesaler or Bell & Gossett representative for availability of ASME Safety Relief Valves with special pressure settings.

Dimensions & Weights

Model No.	Body	NPT Connections in Inches		Dimension in Inches (mm)						Approx Shpg. Wt. lbs. (Kg)
		Inlet	Outlet	A	B	C	D	E	F	
790	Brass	3/4	3/4	2 9/16 (65)	1 1/2 (38)	3/4 (19)	4 9/16 (116)	1 1/32 (26)	2 3/32 (53)	1.2 (0.5)
1170		1	1	2 7/8 (73)	1 3/4 (44)	7/8 (22)	4 15/16 (125)		2 1/4 (57)	1.5 (0.7)
3301		1 1/2								
4100	Iron	2	2	6 (152)	2 7/8 (73)	3 1/4 (83)	11 (279)	N/A		17 (7.7)

Actual unit model numbers include individual valve pressure settings as a suffix to the basic valve model number noted.

Dimensions are approximate and subject to change. Contact factory for certified dimensions.

Maximum Operating Temperature: 250°F (121°C) - Maximum Working Pressure: Model 790 & 1170: 125PSIG (862KPa); Model 3301 & 4100: 50 PSIG (345 KPa).

