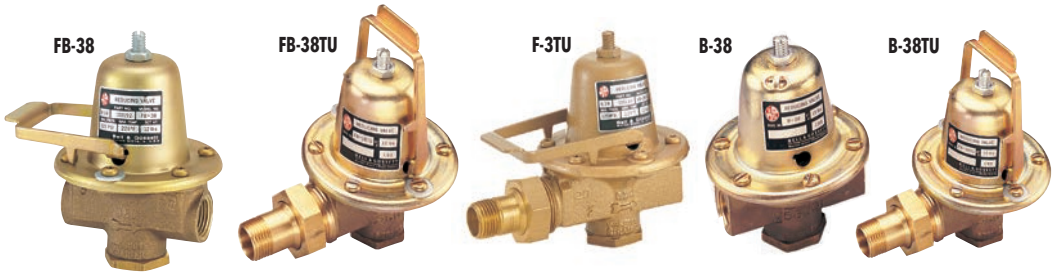
VALVES Pressure Reducing Valves

Description

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



Features

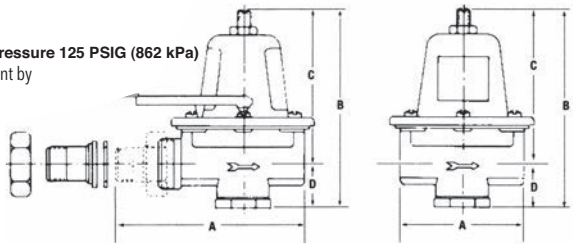
- Fast fill feature reduces start-up time and labor.
- Low inlet pressure check valve helps prevent loss of system pressure if the supply water drops below system pressure.
- Convenient cleanable strainer is designed to prevent dirt and sediment from entering the system.
- Union connection available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

Specifications for 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	110199LF	Relief B-38	Lead-Free Brass	1/2 NPT	1/2 NPT	6 7/16 (164)	5 3/8 (137)	4 (1.8)
F-3	110197LF	Relief FB-38			1/2 NPT	6 7/16 (164)	6 (152)	3 3/4 (1.7)
F-3TU	110198LF	Relief FB-38TU			1/2 Union NPT/Sweat	8 5/8 (219)		4 (1.8)

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)
*CSA certified to NSF/ANSI 372 that product contains less than 0.25% lead content by weight on wetted surface.
Models ending in TU feature 1/2" sweat/NPT union connection.

NSF/ANSI 372



Specifications for Pressure Reducing Valve

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	110190LF	Lead-Free 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	110196LF		3/4				3 (76)	4 31/32 (126)	3 21/32 (93)	1 5/16 (33)	2 1/4 (1.0)
B-38TU	110191LF		1/2	Union*			4 31/32 (126)	4 13/16 (122)	3 11/16 (94)	1 1/8 (29)	2 (0.9)
FB-38	110192LF		1/2	NPT			3 1/16 (78)				1 3/4 (0.8)
FB-38TU	110193LF		1/2	Union*			4 31/32 (126)				2 (0.9)
6	110194LF		1/2	NPT	45	25 - 60	3 1/16 (78)				1 3/4 (0.8)
7	110195LF		3/4				3 (76)	4 31/32 (126)	3 21/32 (93)	1 5/16 (33)	2 1/4 (1.0)

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

ASME Safety Relief Valves

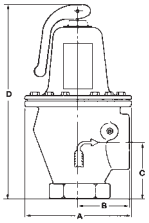
Description

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

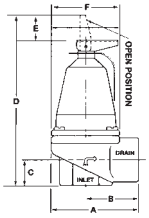
Nos. 3301 & 4100

Nos. 790 & 1170

Models 3301 & 4100 Iron Body Valves



Models 790 & 1170 Bronze Body Valves



Features

- Engineered in accordance with Section IV of the ASME boiler and 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.

Size, Capacity & Relief Setting for B&G ASME Safety Relief Valves[1]				
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	1170-30 1,170,000
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			790-100 2,075,000	1170-100 3,060,000
125			790-125 2,535,000	1170-125 3,735,000

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

Specifications

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	Bronze	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	Iron	1 1/2	2	6 (152)	2 7/8 (73)	3 1/4 (83)	11 (279)	N/A		17 (7.7)
4100		2								

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).

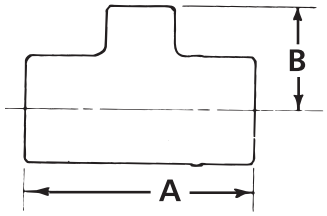
ACCESSORIES Copper Red Ring Monoflo® Fittings

Description

Copper Red Ring Monoflo Fittings let you use a single pipe to serve as both supply and return main.

Features

- Connect risers to the main, assuring proper diversion of water to each heating unit regardless of type and its position in the system.
- Recommended for most installations including cast iron non-ferrous base boards, free-standing radiation or convectors.
- Only one fitting is needed for most installations for adequate diversion for upfeed radiation. For most applications, a second fitting can be used if higher resistance is required.



Operating Data

Maximum Working Pressure: 150 PSIG (1,034 kPa)
Maximum Operating Temperature: 300°F (149°C)

Specifications

Part No.	Size Inches	Dimensions-Inches (mm)*		Cv Ratings**		Approx. Shpg. Wt. lbs. (Kg)
		A	B	1 FTG	2 FTG	
108119	3/4 x 1/2***	2-7/32 (56)	1 (25)	4.2	—	1/4 (0.1)
108120	1 x 1/2	2-9/16 (65)	1-5/32 (30)	14.5	8.7	1/2 (0.2)
108121	1 x 3/4	2-3/4 (70)	1-3/8 (35)			
108122	1-1/4 x 1/2	2-3/4 (70)	1-7/32 (31)	24.0	15.5	
108123	1-1/4 x 3/4	2-27/32 (72)	1-3/8 (35)			
108124	1-1/2 x 3/4	3-3/32 (78)	1-11/16 (42)	39.0	25.0	1-1/4 (0.6)
108125	1-1/2 x 1	3-3/8 (86)	1-11/16 (42)			
108126	2 x 3/4	3-1/2 (89)	1-27/32 (47)	80.0	55.0	1-3/4 (0.8)
108127	2 x 1	3-13/16 (97)	2-1/32 (52)			

* Do not use for construction. Dimensions are approximate and subject to change. Contact factory for certified dimesions.
** With Side Branch plugged.
*** Return only.

AIR SEPARATORS Inline Air Separator

Description

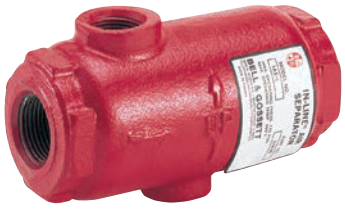
The B&G In-Line Air Separator is specificaly designed to efficiently separate air from circulating water in hydronic heating and cooling systems to assure a quiet operation.

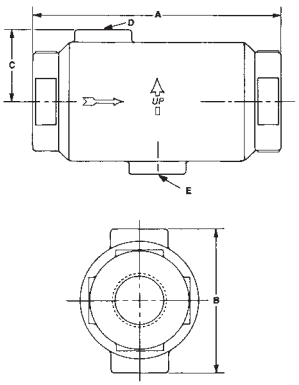
Operating Data

Maximum Working Pressure: 175 PSIG (1,207 kPa)
Maximum Operating Temperature: 300°F (149°C)

Materials of Construction

One Piece Cast Iron





Specifications

Model No.	Part No.	Size NPT	Max Flow (GPM)	Dimensions – Inches (mm)					Approx. Shpg. Wt. (Lbs)
				A	B	C	D	E	
IAS -1	112118	1"	15	6-1/8	3-1/2	1-3/4	1/8 NPT	1/2 NPT	3-3/4
IAS - 1-1/4	112119	1-1/4"	25	(156)	(89)	(45)			3-1/2
IAS- 1-1/2	112097	1-1/2"	35	8-1/8	4-1/2	2-1/4	3/4 NPT		8-1/2
IAS- 2	112098	2"	50	(207)	(114)	(57)			7-1/2
IAS- 2-1/2	112099	2-1/2"	75	10-1/8	6-3/8	3-3/16			23
IAS- 3	112100	3"	125	(257)	(257)	(81)			21-1/2

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