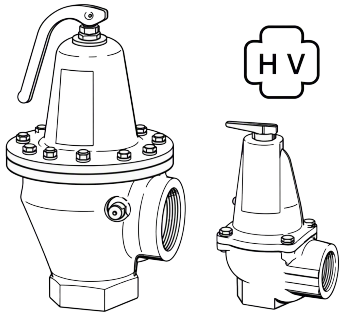
Bell & Gossett
xylem

Submittal
A-434F

Job: **Representative:**

Unit tag: _____ Order number: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____



Safety Relief Valves ASME

Valves and fittings

Description

Bell & Gossett diaphragm operated cast iron and diaphragm-assist operated bronze ASME Safety Relief Valves are designed to protect fired and unfired hot water pressure vessels against over-pressure conditions. These valves feature a unique failsafe disc with sufficient area to permit the valves to maintain their safety relief function in the event of a diaphragm rupture. These valves are designed, manufactured, tested and labeled in accordance with the requirements of Section IV of the ASME Boiler and Pressure Vessel code. They are offered in a wide range of capacities to permit a close match with the boiler output rating.

Operating data

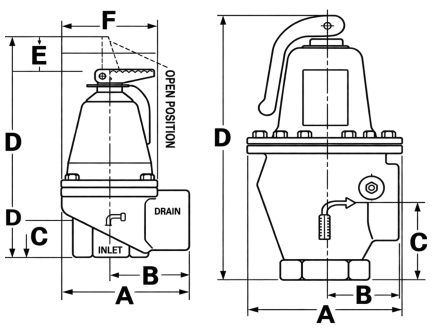
Model	Maximum working pressure	Maximum operating temprature
790	125 PSIG (8.6 bar)	250°F (121°C)
1170		
3301	50 PSIG (3.4 bar)	250°F (121°C)
4100		

Materials of construction

	790 and 1170	3301 and 4100
Body	Brass	Cast iron
Diaphragm and seat	EPDM	EPDM
Internal wetted parts	Brass	Brass

Dimensions and weights

Model number*	Body	Dimensions in. (mm.)								Approximate shipping weight lbs. (kgs.)
		NPT connections		A	B	C	D	E	F	
		Inlet	Outlet							
790	Brass	3/4	3/4	2 9/16 (65.1)	1 1/2 (38.1)	3/4 (19.1)	4 9/16 (115.9)	1 1/32 (26.2)	2 3/16 (55.6)	1.2 (0.5)
1170	Brass	1	1	2 7/8 (73.0)	1 3/4 (44.5)	7/8 (22.2)	4 15/16 (125.4)	1 1/32 (26.2)	2 7/16 (61.9)	1.5 (0.7)
3301	Iron	1-1/2	2	6 (152.4)	2 7/8 (73.0)	3 1/4 (82.6)	11 (279.4)	N/A	N/A	17 (7.7)
4100	Iron	2	2	6 (152.4)	2 7/8 (73.0)	3 1/4 (82.6)	11 (279.4)	N/A	N/A	17 (7.7)



**Actual unit model numbers include individual valve pressure settings as a suffix to the basic valve model number noted. Do not use for construction.*
Dimensions are approximate and subject to change. Contact factory for certified dimensions.

Typical specifications

Furnish and install as shown on plans a diaphragm operated Safety Relief Valve, ASME labeled for relieving pressure of PSIG _____ with a rating of _____ BTU/Hr. The fluid should not discharge into the spring chamber. The valve should have a low blow-down differential.

The valve seat and all moving parts exposed to the fluid are to be of non-ferrous material.
Manufacturer Xylem Bell & Gossett Model No. _____
ASME Safety Relief Valve set at _____PSIG, rated at _____BTU/Hr.

Schedule

Model number	Part number	Size tappings	Relief setting PSIG	Capacity BTU/HR	Tagging information	Quantity
790-30	110121	¾" NPT	30	790,000		
790-50	110124	¾" NPT	50	1,160,000		
790-75	110125	¾" NPT	75	1,615,000		
790-100	110126	¾" NPT	100	2,075,000		
790-125	110127	¾" NPT	125	2,535,000		
1170-30	110129	1" NPT	30	1,170,000		
1170-50	110132	1" NPT	50	1,710,000		
1170-75	110133	1" NPT	75	2,385,000		
1170-100	110134	1" NPT	100	3,060,000		
1170-125	110135	1" NPT	125	3,735,000		
3301-30	110033	1 ½" x 2"	30	3,300,000		
3301-50	110082	1 ½" x 2"	50	4,900,000		
4100-30	110034	2"	30	4,100,000		
4100-50	110086	2"	50	5,990,000		

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A-434F 10/2026

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