



JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

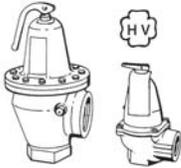
SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



## Safety Relief Valves ASME Valves and Fittings

Patent No. 3,294,114

### DESCRIPTION

B&G 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 TEMPERATURE
790	125 PSIG (8.6 bar)	250°F (121°C)
1170		
3301	50 PSIG (3.4 bar)	250°F (121°C)
4100		

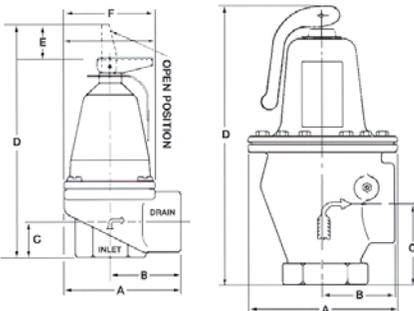
### CONSTRUCTION

790 & 1170

Body: Brass  
Diaphragm & Seat: EPDM  
Internal Wetted Parts: Brass

3301 & 4100

Body: Cast Iron  
Diaphragm & Seat: EPDM  
Internal Wetted Parts: Brass



### DIMENSIONS & WEIGHTS

MODEL NUMBER*	BODY	DIMENSIONS-INCHES (mm)								APPROXIMATE SHIPPING WEIGHT LBS. (kg)
		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.

## SAFETY RELIEF VALVES - ASME (Valves and Fittings)

A-434E

## SCHEDULE

MODEL NUMBER	PART NUMBER	SIZE TAPPINGS	RELIEF SETTING PSIG	CAPACITY BTU/HR	TAGGING INFORMATION	QUANTITY
790-15	110120	3/4" NPT	15	515,000		
790-20	110750	3/4" NPT	20	610,000		
790-25	110751	3/4" NPT	25	700,000		
790-30	110121	3/4" NPT	30	790,000		
790-36	110122	3/4" NPT	36	900,000		
790-40	110752	3/4" NPT	40	975,000		
790-45	110123	3/4" NPT	45	1,065,000		
790-50	110124	3/4" NPT	50	1,160,000		
790-55	110753	3/4" NPT	55	1,250,000		
790-60	110754	3/4" NPT	60	1,340,000		
790-65	110755	3/4" NPT	65	1,435,000		
790-70	110756	3/4" NPT	70	1,525,000		
790-75	110125	3/4" NPT	75	1,615,000		
790-80	110757	3/4" NPT	80	1,710,000		
790-85	110758	3/4" NPT	85	1,800,000		
790-90	110759	3/4" NPT	90	1,890,000		
790-95	110760	3/4" NPT	95	1,985,000		
790-100	110126	3/4" NPT	100	2,075,000		
790-105	110761	3/4" NPT	105	2,165,000		
790-110	110762	3/4" NPT	110	2,260,000		
790-115	110763	3/4" NPT	115	2,350,000		
790-120	110764	3/4" NPT	120	2,440,000		
790-125	110127	3/4" NPT	125	2,535,000		
1170-20	110765	1" NPT	20	900,000		
1170-25	110766	1" NPT	25	1,035,000		
1170-30	110129	1" NPT	30	1,170,000		
1170-36	110130	1" NPT	36	1,330,000		
1170-40	110767	1" NPT	40	1,440,000		
1170-45	110131	1" NPT	45	1,575,000		
1170-50	110132	1" NPT	50	1,710,000		
1170-55	110768	1" NPT	55	1,845,000		
1170-60	110769	1" NPT	60	1,980,000		
1170-65	110770	1" NPT	65	2,115,000		
1170-70	110771	1" NPT	70	2,250,000		
1170-75	110133	1" NPT	75	2,385,000		
1170-80	110772	1" NPT	80	2,520,000		
1170-85	110773	1" NPT	85	2,655,000		
1170-90	110774	1" NPT	90	2,790,000		
1170-95	110775	1" NPT	95	2,925,000		
1170-100	110134	1" NPT	100	3,060,000		
1170-105	110776	1" NPT	105	3,195,000		
1170-110	110777	1" NPT	110	3,330,000		
1170-115	110778	1" NPT	115	3,465,000		
1170-120	110779	1" NPT	120	3,600,000		
1170-125	110135	1" NPT	125	3,735,000		
3301-30	110033	1-1/2" x 2"	30	3,300,000		
3301-36	110080	1-1/2" x 2"	36	3,800,000		
3301-45	110081	1-1/2" x 2"	45	4,500,000		
3301-50	110082	1-1/2" x 2"	50	4,900,000		
4100-30	110034	2"	30	4,100,000		
4100-36	110084	2"	36	4,600,000		
4100-45	110085	2"	45	5,515,000		
4100-50	110086	2"	50	5,990,000		



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