

Pop Safety Valves vs. Relief Valves

There is a difference!

A Pop Safety Valve is used with gases, which include air and steam. Their design always includes a huddling chamber which utilizes the expansion forces of these gases to effect quick opening ("popping") and closing actions. The difference between the opening and closing pressures is termed "blowdown".

A Relief Valve is normally used for liquid service, although safety valves may also be used. Ordinarily, relief valves do not have an accentuated huddling chamber nor a regulator ring for varying or adjusting blowdown. Therefore, they operate with a relatively lazy motion, slowly opening as pressure increases and slowly closing as pressure decreases. Such relieving action affords suitable protection for vessels or systems where there is no need for instantaneous release of large volumes of fluids.

Kunkle Safety and Relief Valves

High Reliability Safety Relief Valves For Pressures To 6500 psi. Sizes 1/4" through 6".
All Types and Connections: Brass, Bronze, Aluminum, Steel and Alloys.



Series 252

Cast iron safety valve for steam or air. A.S.M.E. Standard – N.B. Certified. Pressure settings to 250#.



Series 252

Cast iron or bronze safety valve for hot water heating boilers. A.S.M.E. Standard – N.B. Certified. Pressure settings to 160#.



Series 6000

Bronze safety valve for steam, air, or gas. A.S.M.E. Standard – N.B. Certified. High capacity, side outlet.

When ordering, please specify:

Series #, pressure setting, medium (steam, water, air), flanged or threaded connection, inlet/outlet sizes, body material, and orifice type.

B&G ASME Hot Water Relief Valves



Bell & Gossett bronze ASME safety relief valves offer the highest BTUH rating available on the market for valves of their size. B&G ASME safety relief valves are available in a wide range of capacities to closely match the BTUH output range of hot water heating boilers, direct fired hot water heaters, heat exchangers and other pressure vessels.

ORDERING INFORMATION								
Relief Setting PSIG	Bronze Body				Iron Body			
	ORDER # (3/4" x 3/4")	MBTUH Capacity	ORDER # (1" x 1")	MBTUH Capacity	ORDER # (1.5" x 2")	MBTUH Capacity	ORDER # (2" x 2")	MBTUH Capacity
30	790-30	790	1170-30	1170	3301-30	3300	4100-30	4100
50	790-50	1160	1170-50	1710	3301-50	4900	4100-50	5990
75	790-75	1615	1170-75	2385	—	—	—	—
100	790-100	2075	1170-100	3060	—	—	—	—
125	790-125	2535	1170-125	3735	—	—	—	—