

HOUSE No. 2493

The Commonwealth of Massachusetts

HOUSE OF REPRESENTATIVES, February 28, 1955.

The committee on Public Safety, to whom was referred the petition (accompanied by bill, House, No. 1203) of Allan F. Jones for legislation relative to the marking of range boilers and the temperature, pressure and vacuum control of range boilers, report the accompanying bill (House, No. 2493).

For the committee,

GEORGE RAWSON.

The Commonwealth of Massachusetts

In the Year One Thousand Nine Hundred and Fifty-Five.

AN ACT RELATING TO MARKING OF RANGE BOILERS AND TO TEMPERATURE, PRESSURE AND VACUUM CONTROL OF RANGE BOILERS.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

1 SECTION 1. Chapter 142 of the General Laws is
2 hereby amended by striking out section 17, as most
3 recently amended by chapter 477 of the acts of 1945,
4 and inserting in place thereof the following section:—

5 *Section 17.* No range boiler, tank, vessel or con-
6 tainer, ferrous or non-ferrous, in which water is to be
7 heated or stored under pressure for domestic, culinary
8 or sanitary purposes, in this section and in sections
9 eighteen and nineteen referred to as hot water tanks,
10 shall be sold or offered for sale unless it is plainly marked
11 by the manufacturer, by stamping into the metal of
12 the tank, or on a metal plate permanently attached to
13 the tank, in a conspicuous place, as follows:—

14 A. Manufacturer's name or registered trade mark.

15 B. Rated capacity of hot water tank in United
16 States gallons.

17 C. Hydrostatic pressure in pounds per square inch
18 at which the tank has been tested by the manufac-
19 turer, following the words "Tested to".

20 D. Maximum allowable working pressure in pounds
21 per square inch.

22 Notwithstanding the requirements of the prelim-
23 inary paragraph and paragraphs A to D, inclusive, of
24 this section, the markings therein referred to shall not
25 be required, in the case of cast iron hot water fronts,
26 so called, or hot water tanks that are insulated and/or
27 enclosed in a jacket or casing, to be stamped into the

28 metal thereof or to be stamped on a metal plate per-
29 manently attached thereto; provided, that any manu-
30 facturer selling such hot water fronts within the com-
31 monwealth shall in writing certify to the department of
32 public safety and the board of state examiners of
33 plumbers that every such water front sold by him com-
34 plies with the pertinent provisions of law; and it is
35 further provided, that any manufacturer of hot water
36 tanks that are insulated and/or enclosed in a jacket or
37 casing which are to be sold within the common-
38 wealth shall, in writing, certify to the department of
39 public safety and the board of state examiners of plumbers
40 that every such tankless water heater coil or element,
41 or hot water tank manufactured by him complies with
42 the pertinent provisions of law, and shall permanently
43 attach to the largest segment of said jacket or casing,
44 in a conspicuous place, a metal plate which has stamped
45 into the metal thereof the requirements of paragraphs
46 A to D, inclusive, of this section.

1 SECTION 2. Said chapter 142 is hereby further
2 amended by striking out section 19, as amended by sec-
3 tion 3 of chapter 518 of the acts of 1941, and inserting
4 in place thereof the following section: —

5 *Section 19.* No hot water tank shall be installed and
6 connected unless it is protected with safety devices as
7 follows: —

8 A. A hot water tank in which water is to be heated
9 or stored under pressure greater than fifteen pounds per
10 square inch shall be equipped with a suitable pressure
11 relief valve installed in a tapping in the tank or in the
12 cold water supply line, or the hot water outlet line, with
13 no shut-off valve between the relief valve and the tank.
14 The pressure relief valve shall be set by the manufac-
15 turer to operate at a pressure not more than twenty
16 pounds above the maximum working pressure stamped
17 on the tank or jacket or casing, and shall be so con-
18 structed that said setting cannot be exceeded by normal
19 means of adjustment.

20 B. A hot water tank to which a heating device or
21 appliance capable of delivering water to the tank at a
22 temperature greater than two hundred and twelve de-
23 grees Fahrenheit is connected shall be equipped with a
24 suitable temperature relief valve so adjusted and in-
25 stalled as to prevent development of, or accumulation
26 of, water which is at a temperature in excess of two
27 hundred and twelve degrees Fahrenheit. Said temper-
28 ature relief valve shall be installed in a tapping directly
29 in or on the tank, within twelve inches of the top of a
30 vertical tank, or within six inches of the top of a hor-
31 izontal tank, with no fittings between the valve and the
32 tank, except that a bushing may be used to reduce the
33 tapping to fit the valve, or the valve shall be installed
34 in the hot water outlet pipe as close to the top of the
35 tank as possible. In no case shall the heat sensitive
36 member of the temperature relief valve be more than
37 five inches away from the top of the tank. The dis-
38 charge outlet of the temperature relief valve shall be
39 connected by means of a non-ferrous pipe or tubing not
40 less than three eighths inch inside diameter, with no
41 shut-off, to an open plumbing fixture, or to within
42 twelve inches of the basement floor. A thermostatically
43 controlled hot water tank may be protected by an auto-
44 matic fuel shut-off device in addition to the thermostat
45 and temperature and pressure relief valve.

46 C. All parts of temperature and pressure relief
47 valves which are in contact with water shall be made of
48 non-ferrous metals or materials having suitable cor-
49 rosion resisting properties. All pipe and fittings be-
50 tween relief valves and the hot water tank shall be of
51 non-ferrous metals.

52 D. Relief valves shall be marked by the manufac-
53 turer, by stamping or casting in the metal of the valve,
54 or on a metal tag permanently attached to the valve, as
55 follows: —

- 56 1. Manufacturer's name or registered trade mark.
- 57 2. The type or style, or the type and style, of the valve.
- 58 3. The pressure setting of the valve in pounds per
59 square inch.

60 4. The temperature setting in degrees Fahrenheit.

61 5. Temperature relieving capacity in B. T. U. per hour.

62 Notwithstanding the requirements of paragraph B of
63 this section, the protective devices specified therein shall
64 not be required in the case of that portion of tankless
65 water heaters which contain water to be heated or stored
66 under the provisions of section seventeen. Said portion
67 of tankless water heaters shall be equipped with a pres-
68 sure relief valve and an automatic tempering device, set
69 to deliver water not exceeding one hundred and eighty
70 degrees Fahrenheit and located between said tankless
71 water heater and any hot water supply pipe which it
72 serves.

73 All pipes and fittings between the tankless water
74 heater and the pressure relief valve and the tempering
75 device shall be of non-ferrous metals. All parts of the
76 tempering device which are in contact with the water
77 shall be of non-ferrous metals or other materials having
78 suitable corrosion-resisting properties. Said tempering
79 device shall be marked by the manufacturer by casting
80 or stamping in the metal of the device, or on a metal tag
81 permanently attached to the device, as follows:—

82 1. Manufacturer's name or registered trade name.

83 2. The type and/or style of the device.

84 3. The temperature settings, in degrees Fahrenheit,
85 plainly marked.

86 E. Temperature and pressure relief valves and other
87 devices referred to in this section shall be subject to the
88 approval of the inspectors of plumbing or other proper
89 authorities.

90 F. All pipes and fittings in the circulating system
91 between a hot water tank and the heating device or ap-
92 pliance shall be non-ferrous, and of ample size so as to
93 make it possible to heat seventy-five per cent of the
94 available water in the tank without raising the tempera-
95 ture of any part of the water above two hundred and
96 twelve degrees Fahrenheit.

97 G. No hot water tank shall be installed without
98 being equipped with an approved device located so as
99 to prevent any partial vacuum therein.

