

SENATE No. 321

To accompany the petition of Edward L. Maurer and others for legislation relating to marking of range boilers and temperature and pressure control of range boilers. Public Safety.

The Commonwealth of Massachusetts

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

AN ACT RELATING TO MARKING OF RANGE BOILERS AND
TO TEMPERATURE AND PRESSURE 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. Section 17 of General Laws, chapter
2 142, is hereby stricken out and the following new
3 section inserted and substituted therefor, as follows: —

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

13 (a) Manufacturer's name or registered trade mark.

14 (b) Rated capacity of hot water tank in United
15 States gallons.

16 (c) Hydrostatic pressure in pounds per square inch
17 at which the tank has been tested by the manufac-
18 turer, following the words: — “Tested to .”

19 (d) Maximum allowable working pressure in pounds
20 per square inch.

21 Notwithstanding the requirements of the prelimi-
22 nary paragraph and paragraphs (a) to (d), inclusive, of
23 this section, the markings therein referred to shall not
24 be required to be stamped into the metal thereof or
25 to be stamped on a metal plate permanently attached
26 thereto in the case of cast iron hot water fronts, so
27 called, and/or tankless water heater coils or elements,
28 and/or hot water tanks that are insulated and en-
29 closed in a jacket or casing; provided, that any manu-
30 facturer or wholesaler selling such hot water fronts, or
31 tankless water heater coils or elements, or hot water
32 tanks that are insulated and enclosed in a jacket or
33 casing, within the commonwealth shall, in writing,
34 certify to the department of public safety and the
35 board of examiners of plumbers, that every such hot
36 water front, or tankless water heater coils or elements,
37 or hot water tanks that are insulated and enclosed in
38 a jacket or casing, manufactured and/or sold by him
39 complies with the pertinent provisions of law.

40 If the tank is insulated and enclosed in a jacket or
41 casing, the requirements of paragraphs (a) to (d),
42 inclusive, of this section shall be stamped on a metal
43 plate and permanently attached to said jacket or
44 casing.

1 SECTION 2. Section 19 of General Laws, chapter
2 142, is hereby stricken out and the following new sec-
3 tion inserted and substituted therefor as follows: —

4 *Section 19.* No hot water tank shall be installed

5 and connected unless it is protected with safety de-
6 vices as follows: —

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

19 (b) A hot water tank to which a heating device or
20 appliance capable of delivering water to the tank at
21 a temperature greater than two hundred and twelve
22 degrees Fahrenheit is connected shall be equipped with
23 a suitable temperature relief valve so adjusted and
24 installed as to prevent development of, or accumula-
25 tion of, water which is at a temperature in excess of
26 two hundred and twelve degrees Fahrenheit. Said
27 temperature relief valve shall be installed in a tapping
28 directly in or on the tank, within twelve inches of the
29 top of a vertical tank, or within six inches of the top
30 of a horizontal tank, with no fittings between the
31 valve and the tank, except that a bushing may be
32 used to reduce the tapping to fit the valve, or the
33 valve shall be installed in the hot water outlet pipe as
34 close to the top of the tank as possible. In no case
35 shall the heat sensitive member of the temperature
36 relief valve be more than five inches away from the
37 top of the tank. The discharge outlet of the tempera-
38 ture relief valve shall be connected by means of a

39 non-ferrous pipe or tubing not less than three eighths
40 inch inside diameter, with no shutoff, to an open
41 plumbing fixture, or to within twelve inches of the
42 basement floor.

43 A thermostatically controlled hot water tank may
44 be protected by an automatic fuel shutoff device in
45 addition to the thermostat. Such shutoff device shall
46 be installed in the same location and perform the same
47 function as said temperature relief valve.

48 (c) All parts of temperature and pressure relief
49 valves which are in contact with water shall be made
50 of non-ferrous metals or materials having suitable
51 corrosion resisting properties. All pipe and fittings
52 between relief valves and the hot water tank shall be
53 of non-ferrous metals.

54 (d) Notwithstanding the requirements of para-
55 graphs (a) and (b) of section nineteen, the protective
56 devices specified therein shall not be required in the
57 case of that portion of tankless water heaters which
58 contain water to be heated or stored under provisions
59 of section seventeen. Said portion of tankless water
60 heater shall be equipped with a thermostatic temper-
61 ing device.

62 (e) Relief valves shall be marked by the manufac-
63 turer by stamping or casting in the metal of the valve,
64 or on a metal tag permanently attached to the valve
65 as follows: —

- 66 1. Manufacturer's name or registered trade mark.
- 67 2. The type or style, or the type and style, of the
68 valve.
- 69 3. The pressure setting of the valve in pounds per
70 square inch.
- 71 4. The temperature setting in degrees Fahren-
72 heit.

73 5. Temperature relieving capacity in B. T. U. per
74 hour.

75 (f) Temperature and pressure relief valves and other
76 devices referred to in this section shall be subject to
77 the approval of the inspectors of plumbing or other
78 proper authorities.

79 (g) All pipes and fittings in the circulating system
80 between a hot water tank and the heating device or
81 appliance shall be non-ferrous, and of ample size so
82 as to make it possible to heat seventy-five per cent of
83 the available water in the tank without raising the
84 temperature of any part of the water above two hun-
85 dred and twelve degrees Fahrenheit.

The first part of the report is devoted to a general
 description of the country and its resources. It
 is followed by a detailed account of the
 various industries and occupations of the
 people. The report then proceeds to a
 description of the climate and the
 diseases which prevail in the country.
 The last part of the report is devoted to
 a description of the government and
 the laws of the country.



