

and no Inspector shall grant a certificate to any steamboat unless the boiler, or each boiler, if more than one, of such steamboat be provided with two safety-valves, one of which shall be locked up and one open :

Lift and openings of valves:—
lifting gear, &c.

5. Every safety-valve made or placed on board after the passing of this Act, or attached to a boiler made after that time, must have a lift equal to at least one-fourth of its diameter ; the openings for the passage of steam to and from the valve must each have an area not less than the area of the valve, as shall also the waste steam pipe, and the valve box must have a waste water pipe ; if the lever of a lever safety-valve is not bushed with brass the pin must be of brass,—iron and iron working together must not be allowed ; every such safety-valve must be fitted with lifting gear so that it can be worked by hand either from the engine-room or the fire-hold, or by the master or person in charge on deck ; every such safety-valve must be so attached to the boiler that the valve chest shall be as close to the boiler as possible.

Area of locked safety valves.

20. The area of any locked safety-valve or the joint areas of any locked safety-valves to any boiler made or placed on board after the passing of this Act, shall not be less than half a square inch for each square foot of grate surface in or under the boiler.

When engine is stopped safety-valve to be opened, and steam pressure reduced.

21. Whenever the engine of any steamboat is stopped for any purpose, the engineer, or the master or person in charge of such steamboat, shall open the safety-valve so as to keep the steam in the boiler down to ten pounds below the pressure limited by the Inspector's certificate if the engine be a high pressure engine, and to five pounds below the pressure limited as aforesaid if the engine be a low-pressure engine, under the penalty of two hundred dollars for every contravention of this provision.

Steam gauge to be exposed to view of passengers.

22. In a conspicuous and easily accessible place, in each steamboat, there shall be a steam gauge properly constructed and open to the view of all passengers and others on board such steamboat, and showing at all times the true pressure of the steam in the boiler thereof.

Penalty for concealing or tampering with gauge.

23. And if any master or engineer of any steamboat at any time allows the pressure of steam, to which the boiler of such steamboat is subjected, to exceed that limited by her certificate, or alters or conceals or otherwise deals with the said steam-gauge, so as to prevent the real pressure of steam from being seen and ascertained by any passenger, he shall thereby incur a penalty of two hundred dollars for every such offence.