



**The practical engineer's hand-book; comprising a
treatise on modern engines and boilers, marine,
locomotive, and stationary, and containing a large
... in designing and constructing all kinds**

Walter S. Hutton

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...quantity of injection water provided, varies considerably in practice, as will be seen from the following Table collated from recent practice:--Table 82.--Air-pump Capacity, Cooling Surface, And Quantity Of Circulating Water Provided For The Surface-condensers Of Marine-engines. Air-pump-Valves.--Indiarubber valves are suitable for moderate temperatures, they should be made of the best caoutchouc, with not more than 3 per cent, of sulphur, and 67 per cent, white oxide of zinc. They should not be employed where mineral oil is used for lubricating the cylinder, as it decomposes them. Several small valves are more effective than one large one. Vulcanised-fibre valves are more suitable for high temperatures than indiarubber, besides being more durable, and not liable to injury from the action of lubricants, and they can be made much thinner than indiarubber. The lift of indiarubber and vulcanised-fibre valves is controlled by the perforated guard, shown in Fig. 187, in which, for comparison, an indiarubber valve is shown on the left-hand side and a vulcanised-fibre valve on the right hand side. Flexible Metallic Valves for Air pumps, shown in Fig. 188, are made of a thin and elastic sheet of phosphor-bronze. They are neither affected by the hottest water, nor by the action of lubricants, and are efficient and durable. The valve in lifting bends gradually against the curved guard by which the lift of the valve is controlled. Rigid Metallic Air-pump Valves, shown in Fig. 186, consist of light castings of bronze; the valve is rigid, and slides up the spindle when it lifts from its seat. Heat Carried off in Condensing Water.--The efficiency of a steam-engine is the ratio of the heat converted into work to the heat expended. Only a small portion of the heat supplied ...



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