

18356 Iron

Port DundeeRe 22/5/88
187.7

Details of Main Boilers of the Steam Ship

"Britannia" 937.7 tons
560.9.Diameter 13" 0" ^{Tracing supplied} outside measure Length 11" 6"Thickness of shell plates $\frac{15}{16}$ "Description of riveting of longitudinal joints double butt of circumferential joints double lapPitch of rivets ditto $4\frac{1}{2}$ " ditto $4\frac{1}{2}$ "Diameter of rivets ditto $1\frac{3}{32}$ " ditto $1\frac{3}{32}$ "Lap of plating ditto $4\frac{1}{2}$ " $9\frac{1}{4}$ " ditto $4\frac{1}{2}$ "Size of manholes in circular shell $13" \times 17"$ How compensated for by angle iron ring $4" \times 4" \times \frac{3}{4}$ "Number of furnaces in boiler ThreeDiameter of furnaces front $40"$ back and $35"$ Length of furnaces $8" 0"$ Thickness of furnace plates $\frac{3}{8}$ "Description of joint of furnaces welded jointsWhether strengthened with rings return flange Greatest length between rings $4" 0"$ Thickness of combustion chamber plating $\frac{7}{16}$ "Diameter of screw stays to ditto $1\frac{3}{32}$ " bottom of thread pitch of stays $8\frac{1}{2}" \times 8\frac{1}{2}"$ End plates, thickness $\frac{9}{16}$ "Diameter of longitudinal stays to end plates $2\frac{3}{16}"$ pitch of ditto $15" \times 17"$ How stays are secured through end plates nuts & washers both sidesDiameter of tubes $3\frac{1}{4}"$ outside dia pitch of tubes $5" \times 5"$ Thickness of tube plates $\frac{5}{8}"$ Stayed by Bolt stays $1\frac{3}{8}"$ pitch of stays $15" \times 15"$ Description of steam receiver Horizontal DombDiameter of ditto $5' 0"$ length of ditto $11' 9"$ Thickness of plating of ditto $\frac{7}{16}"$ ends $\frac{11}{16}"$ Ends, how stayed by bolt stays through ends nuts & washers bothsides of plates stays $15\frac{1}{2}"$ Pitch $1\frac{1}{4}"$ diaWorking pressure shell $\frac{57520 \times 1.8 \times 75}{154.2 \times 6.5} = 68 \text{ lbs}$ " " Flues $\frac{89600 \times 1.3}{4.0 \times 4.0} = 72 "$ " " bolt stays $\frac{100 \times 9^2}{15 \times 17} \text{ T bar} = 31" 4479 \text{ lbs}$ " " Screw " $\frac{100 \times 7^2}{8.5 \times 8.5} = 67" 5032$ © 2019
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Foundation