

Details of Main Boilers of the Steam Ship

Diameter 11'6" Length 11'8"

Thickness of shell plates 1 1/16"

Description of riveting of longitudinal joints Double of circumferential joints Double

Pitch of rivets ditto ditto

Diameter of rivets ditto 7/8 full ditto 7/8 full

Lap of plating ditto Double butt straps ditto

Size of manholes in circular shell 16" x 12" in end of Receiver

How compensated for By flat ring

Number of furnaces in boiler 3'9" + 12'0"

Diameter of furnaces 3'9" + 3'5" Length of furnaces 7'10"

Thickness of furnace plates 6/16"

Description of joint of furnaces welded

Whether strengthened with rings Coaks Comb joint Greatest length between rings in Centre to Clear

Thickness of combustion chamber plating 8/16"

Diameter of screw stays to ditto 1 3/8" pitch of stays 8 1/2" x 8"

End plates, thickness 12/16"

Diameter of longitudinal stays to end plates 1 1/8" pitch of ditto 15" x 16"

How stays are secured By double nuts

Diameter of tubes 3 1/2" pitch of tubes 4"

Thickness of tube plates Sub plate 1/16" + 12/16"

ed by Lubes pitch of stays

Description of steam receiver Round Longitudinal

Diameter of ditto 2'6" length of ditto 8'2"

Thickness of plating of ditto 7/16" ends 7/16"

Stays, how stayed One end stayed by two 12" stays & sides the manhole is

in other end stiffened by flat ring (both ends are dished)

Formulae for Shell $\frac{57520 \times 1.5 \times 45\%}{136.8 \times 6.5} = 65 \text{ lbs}$

Formulae for flat plates $\frac{64 \times 120}{68} = 112 \text{ lbs}$

Formula for Stues $\frac{89600 \times .63}{40" \times 3.9} = 68 \text{ lbs}$

Longitudinal Stays $1\frac{1}{8}" \text{ dia } 15' \times 16" \text{ pitch} = 5333$

Mr



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