

18625. Iron.

Port

Sunderland.

June

1877

Rev 25/6/97

Details of Main Boilers of the Steam Ship

"Annie"

184.9

tons

Diameter

10' 9"

Length

9' 2"

Thickness of shell plates

 $\frac{13}{16}$

Description of riveting of longitudinal joints

double

of circumferential joints

double

Pitch of rivets

ditto

4 $\frac{1}{4}$

ditto

3 $\frac{3}{4}$

Diameter of rivets

ditto

1 $\frac{1}{4}$

ditto

1 $\frac{1}{8}$

Lap of plating

ditto

7"

ditto

6"

Size of manholes in circular shell

inside the dome 16" x 12"

How compensated for

by flange of dome 4 $\frac{1}{2}$ " broad x $\frac{9}{16}$ " thick.

Number of furnaces in boiler

2

Diameter of furnaces

2' 10"

Length of furnaces

6' 3"

Thickness of furnace plates

 $\frac{1}{2}$ "

Description of joint of furnaces

lapped and double riveted.

Whether strengthened with rings

none

Greatest length between rings

Thickness of combustion chamber plating

 $\frac{1}{2}$ "

Diameter of screw stays to ditto

1 $\frac{5}{16}$ " over threads

pitch of stays

7 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ "

End plates, thickness

3 $\frac{1}{4}$ "

Diameter of longitudinal stays to end plates

2"

pitch of ditto

16 $\frac{1}{2}$ " x 12"

How stays are secured

they are bolts extending through both ends.

Diameter of tubes

3 $\frac{1}{4}$ " external

pitch of tubes

4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ "

Thickness of tube plates

3 $\frac{1}{4}$ "

Stayed by

stay tubes.

pitch of stays

13 $\frac{1}{2}$ " x 9"

Description of steam receiver

Dome with Contracted neck.

Diameter of ditto

3' 6"

length of ditto

8' 0"

Thickness of plating of ditto

3 $\frac{1}{8}$ "

ends

1 $\frac{1}{2}$ "

Ends, how stayed

no stays (the ends are dished = 3' 6" radius)

$$\text{Shells} = \frac{51520 \times 1\frac{1}{8} \times 70}{127\frac{1}{2} \times 6.5} = 70 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times 1\frac{1}{2}}{34 \times 6\frac{1}{4}} = 105 \text{ " " "}$$



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