

• Mult-Steel Boiler by Mess. Ross & Duncan (1887)
for Mess. Risson 167 h' 75 vessel.

160 lbs "working pressure."

Plate 70 $\frac{6.45 - 1}{6.45} \times 100 = 85.2$

Rivet 72 $\frac{5 \times 7.852 \times 1.45 \times 85}{6.75 \times 1} = 86.4$

Shell $\frac{21 \times 85.2 (16 - 2)}{156} = 161 \text{ lbs.}$

Furnace $\frac{50 \times (300 \times 6845 - 42)}{40} = 167 \text{ lbs.}$

Comb. Cur $\frac{135 \times 9^2}{120 \times 7.452} = 182 \text{ lbs.}$

Stay $\frac{148 \times 8000}{7.452} = 194 \text{ lbs.}$

Ends $\frac{9000 \times 6.5^2 \times 2}{(27.41 + 7.75) 7.45 \times 27.75} = 144 \text{ lbs.}$

Ends top $\frac{185 \times 15^2}{240.5} = 140 \text{ lbs.}$

Stay $\frac{4.22 \times 10000}{15 \times 16} = 145 \text{ lbs.}$

Front tube $\frac{140 \times (12 + \frac{8}{2})^2}{14.5^2} = 140 \text{ lbs.}$

Back $\frac{140 \times 12^2}{10.125^2} = 195 \text{ lbs.}$

Stay tube $\frac{7500 \times 186}{9.5 \times 14 - 28.8} = 145 \text{ lbs.}$

Boiler Back $\frac{135 \times (12 + \frac{8}{2})^2}{121} = 284 \text{ lbs.}$

Stay $\frac{2.07 \times 9000}{10.625 \times 8.845} = 194 \text{ lbs.}$

Side stay tubes $\frac{7500 \times 1.86}{(11\frac{3}{4} \times 9) - 28.8} = 180$

Corner $\frac{7500 \times 1.86}{(11\frac{3}{4} \times 10\frac{3}{4}) - 22} = 133$

W. H. in service

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78

67
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43



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