

6TH OCT 1937

SUPERHEATER SAFETY VALVES

CAST STEEL

GEORGE CLARK (1936) LTD CONTRACT N° 1211

MESSRS. SIR JAMES LAING & SONS LTD S.S. N° 721

WORKING PRESSURE 220 LBS □

SUPERHEAT TEMP 630° F

TEMP OF STEAM AT → 395.6° F *

235 LBS ABSOLUTE 234.4° F SUPERHEAT

AGGREGATE AREA OF SAFETY VALVES = $A \times \left(1 + \frac{T}{1000}\right) =$

$\frac{14.10}{13.872} \times \left(1 + \frac{234.4}{1000}\right) =$

$\frac{14.10}{13.872} \times 1.234 = \frac{17.40}{17.118} \square$

AGG. AREA OF MAIN VALVE $\frac{14.10}{13.872} \square$

$\frac{3.246}{3.30} \square$

cl = 2.05"

SAY 2 $\frac{1}{8}$ DIA VALVE

TO LLOYDS SURVEY

GEORGE CLARK (1936) LIMd.,
SOUTHWICK ENGINE WORKS,
SUNDERLAND.

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