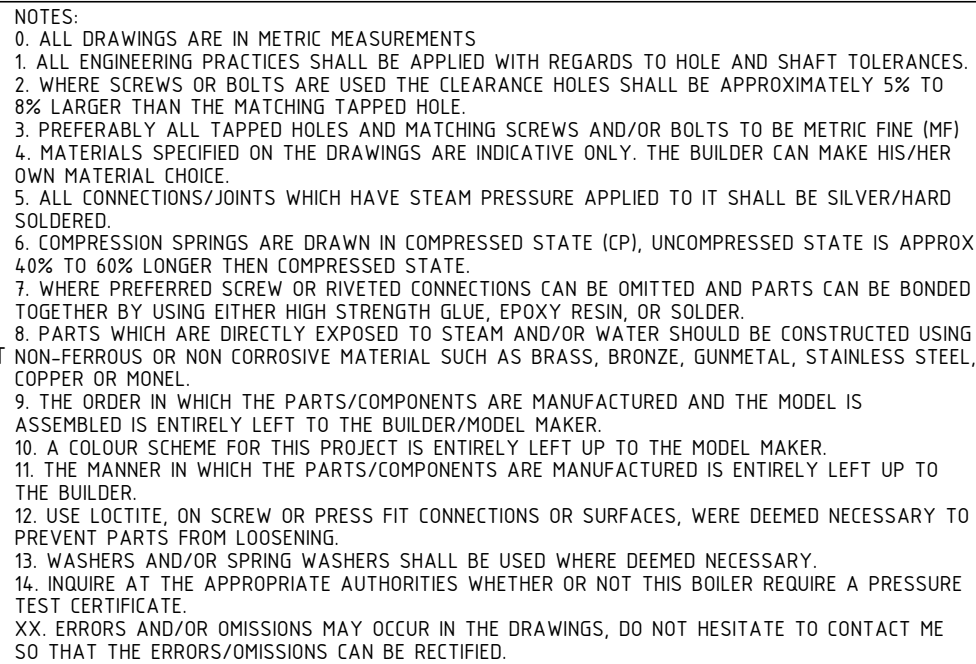
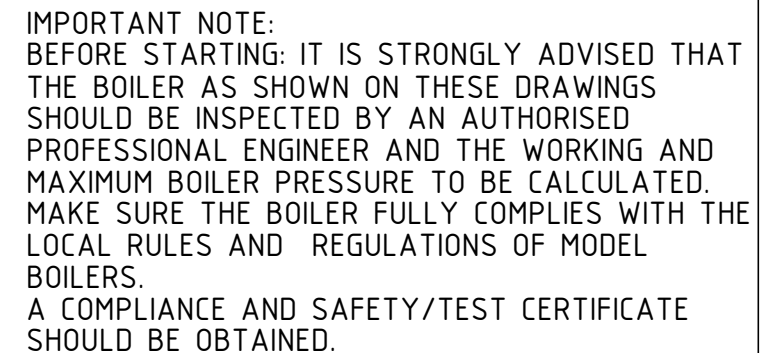




OTHER ABBREVIATIONS
AS = AS SHOWN
DP = DEEP
DAA= DRILL AFTER ASSEMBLY
D&TAA= DRILL AND TAP AFTER ASSEMBLY
CF = CLOSE FIT (SIZE FOR SIZE)
PF = PRESS FIT
PFAA= PRESS FIT AFTER ASSEMBLY
PCD = PITCH CIRCLE DIAMETER
RM = REAM
HEX = HEXACON, 6SIDED
CP = COMPRESSED
KNL = KNURLED
CSK = COUNTERSINK
PL = PLACES
DWL= DOWEL
SPF= SPOTFACE
(T)HESOP=(TAPPED)HOLES
EQUALLY SPACED ON PCD
(T)HESOC=(TAPPED)HOLES
EQUALLY SPACED ON
CIRCUMFERENCE
OD = OUTSIDE DIAMETER
ID = INSIDE DIAMETER
MAX/MIN = CRITICAL DIMENSION
[SA-xxx] = SUB ASSEMBLY-xxx

MATERIAL ABBREVIATIONS:
 ALU = ALUMINIUM
 HALU= HARD ALUMINIUM
 BRS = BRASS
 BRZ = BRONZE OR GUNMETAL
 (BRZ/GM)
 CI = CAST IRON
 CU = COPPER
 GRA = GRAPHITE
 MS = MILD STEEL/BRIGHT
 MILD STEEL
 SS = SILVER STEEL OR
 STAINLESS STEEL
 SPS = SPRING STEEL
 PEEK= POLYETHER ETHER
 KETONE
 SYN = SYNTHETIC MATERIAL
 SUCH AS VETON, NYLON,
 TEFLON OR RUBBER
 IN GENERAL
 SYNTHETIC
 MATERIALS SHOULD BE
 ABLE TO WITHSTAND
 THE HEAT AND
 PRESSURE(S) APPLIED
 TO THEM.
 nnn/nnn MEANS THAT EITHER
 MATERIAL CAN BE USED



QTY.	PART NUMBER
1	01-45-00-1-01-BASE + BOILER SHELL
1	01-45-00-1-02-CHIMNEY
7	01-45-00-1-03-NIPPLE 14x24xM10
2	01-45-00-1-04-SUPER HEATER CONNECTOR
2	01-45-00-1-05-CONNECTOR LOCK NUT
1	01-45-00-1-06-SUPER HEATER PIPE
4	01-45-00-1-07-PIPE NUT M12x7
1	01-45-00-1-08-STEAM OUTLET CONNECTOR
1	01-45-00-1-09-STEAM SUPPLY PIPE
1	01-45-00-1-10-WATER FILLER PLUG
1	01-45-00-1-11-SAFETY VALVE
2	01-45-00-1-12-M10 PLUG
1	01-45-00-1-13-WATER LEVEL GAUGE
6	01-45-00-M4 NUT-BRASS
3	01-45-00-M5x16 A-K CYL HEAD SCREW



NOTES: THIS BOILER IS BASED ON SOME DRAWINGS WHICH FOUND ON THE INTERNET. THE DRAWINGS WERE DONE BY PATRICK OKEEFFE NO DATE NOTED.

TITLE
A VERY SIMPLE VERTICAL BOILER FOR BEGINNER

DRAWING CONTENTS

GENERAL ARRANGEMENT, ISOMTERIC
VIEW, NOTES, BILL OF MATERIALS

PROJECT No 01-45-00
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PROJECTION 	JDWDS	MODEL SCALE: 1:1
DATE NOVEMBER 2021		DWG SCALE: 1:1 @A3 OR AS SHOWN
SHEET: 01 OF 03	A3	Copyright © J.A.M. DE WAAL PAPAKURA NZ No: 01-45-00-SHT01

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