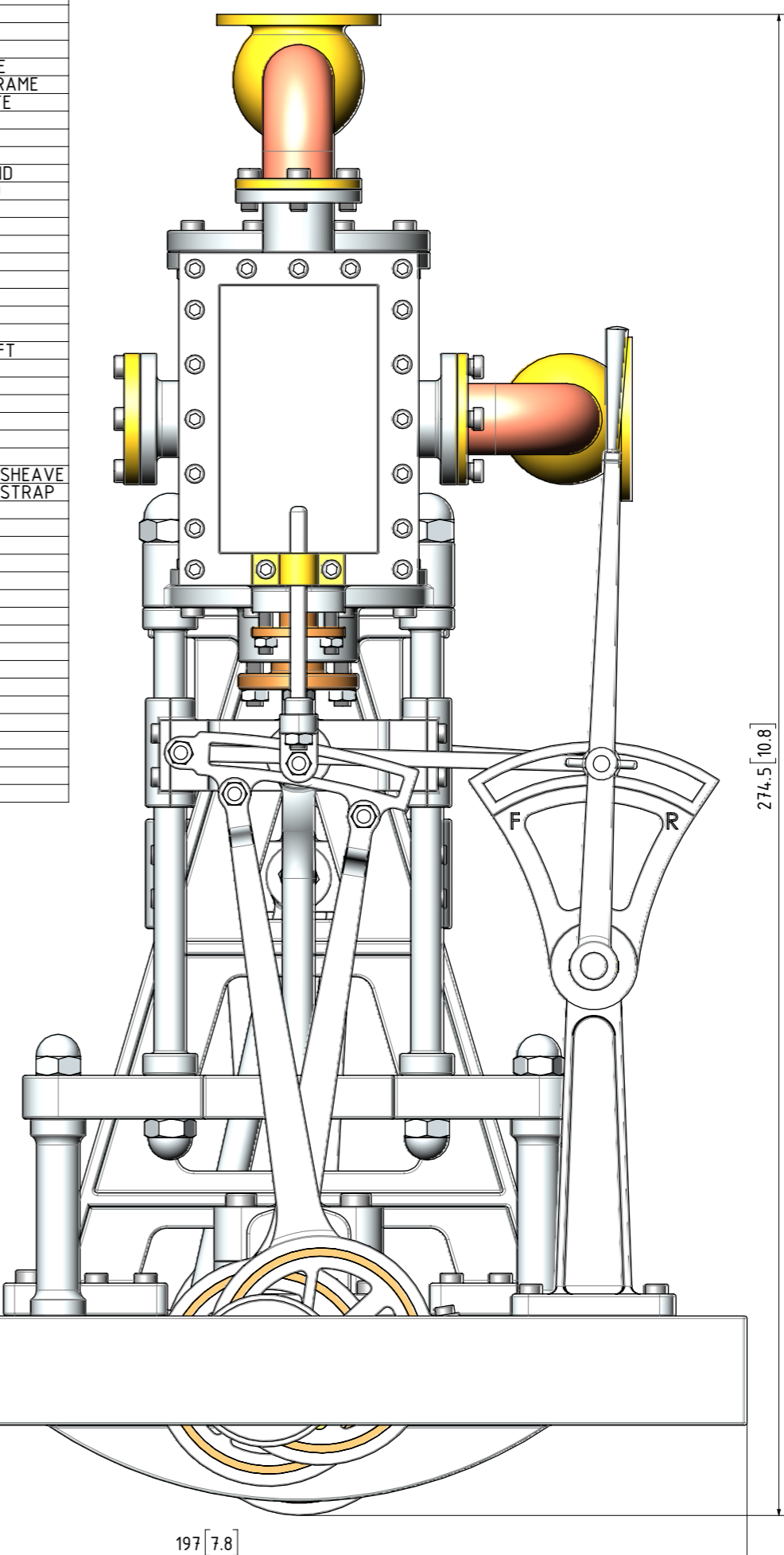


QTY.	PART NUMBER
1	09C-54-00-1-01-BASE FRAME
2	09C-54-00-1-02-OUTER BEARING
1	09C-54-00-1-03-INNER BEARING
2	09C-54-00-1-04-CROSSHEAD PILLAR+GUIDE
1	09C-54-00-1-05-CYLINDER MOUNTING A-FRAME
1	09C-54-00-1-06-CYLINDERS BOTTOM PLATE
1	09C-54-00-1-07-CYLINDER+VALVE CHEST
1	09C-54-00-1-07-CYLINDER+VALVE CHEST
2	09C-54-00-1-08-CYLINDER TOP COVER
1	09C-54-00-1-09-REVERSING HANDLE STAND
1	09C-54-00-1-10-REVERSING SHAFT STAND
1	09C-54-00-1-11-WATER PUMP
1	09C-54-00-1-12-STEAM INLET PIPE
1	09C-54-00-1-13-STEAM EXHAUST PIPE
1	09C-54-00-2-01-CRANKSHAFT
2	09C-54-00-2-02-PISTON+CROSSHEAD
2	09C-54-00-2-03-CON-ROD
2	09C-54-00-2-04-ECCENTRIC SHEAVES
2	09C-54-00-2-05-SLIDE VALVE
1	09C-54-00-2-06-REVERSING HANDLE+SHAFT
2	09C-54-00-2-07-EXPANSION LINK
2	09C-54-00-2-08-DIE BLOCK
2	09C-54-00-2-09-REACH ROD
2	09C-54-00-2-10-ECCENTRIC STRAP
2	09C-54-00-2-10-ECCENTRIC STRAP
1	09C-54-00-2-11-WATER PUMP PLUNGER
1	09C-54-00-2-12-WATER PUMP ECCENTRIC SHEAVE
1	09C-54-00-2-13-WATER PUMP ECCENTRIC STRAP
16	09C-54-00-M2.5 NUT
4	09C-54-00-M2.5x12 A-K GRUB SCREW
62	09C-54-00-M2.5x6 A-K CYL HEAD SCREW
36	09C-54-00-M3 NUT
4	09C-54-00-M3x10 A-K C-SINK SCREW
42	09C-54-00-M3x10 A-K CYL HEAD SCREW
1	09C-54-00-M3x10 A-K GRUB SCREW
8	09C-54-00-M3x14 A-K CYL HEAD SCREW
24	09C-54-00-M3x6 A-K CYL HEAD SCREW
8	09C-54-00-M3x8 A-K CYL HEAD SCREW
8	09C-54-00-M4 DOME NUT
6	09C-54-00-M4x12 A-K CYL HEAD SCREW
2	09C-54-00-M4x20 A-K CYL HEAD SCREW
4	09C-54-00-M4x24 A-K CYL HEAD SCREW
8	09C-54-00-M5 DOME NUT
2	09C-54-00-M5 NUT
4	09C-54-00-M6 DOME NUT



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 = HEXAGON, 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

NOTES: THE ORIGINAL LITHOGRAPH WAS FIRST PUBLISHED ON THE "MODELENGINEERINGWEBSITE" WEBSITE. THE LITHOGRAPH WAS TITLED: "STEAM LAUNCH ENGINES, 9-HORSE POWER NOMINAL, MR A. VEREY, ENGINEER, SOUTH HANTS ENGINEERING WORKS, PORTSMOUTH"

TITLE A MODEL OF A 2 CYLINDER VERTICAL STEAM ENGINE FOR A LAUNCH (9HPN)	DRAWING CONTENTS GENERAL ARRANGEMENT	PROJECT No 09C-54-00	PROJECTION 	MODEL SCALE: 1:1
		JDW DRAUGHTING SERVICES J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPAOKURA 2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000 E-MAIL: dewaal@xtra.co.nz.	DATE JANUARY 2023	Copyright © J.A.M. DE WAAL PAPAOKURA NZ
		SHEET: 01 OF 06	A3	No:09C-54-00-SHT-01

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES