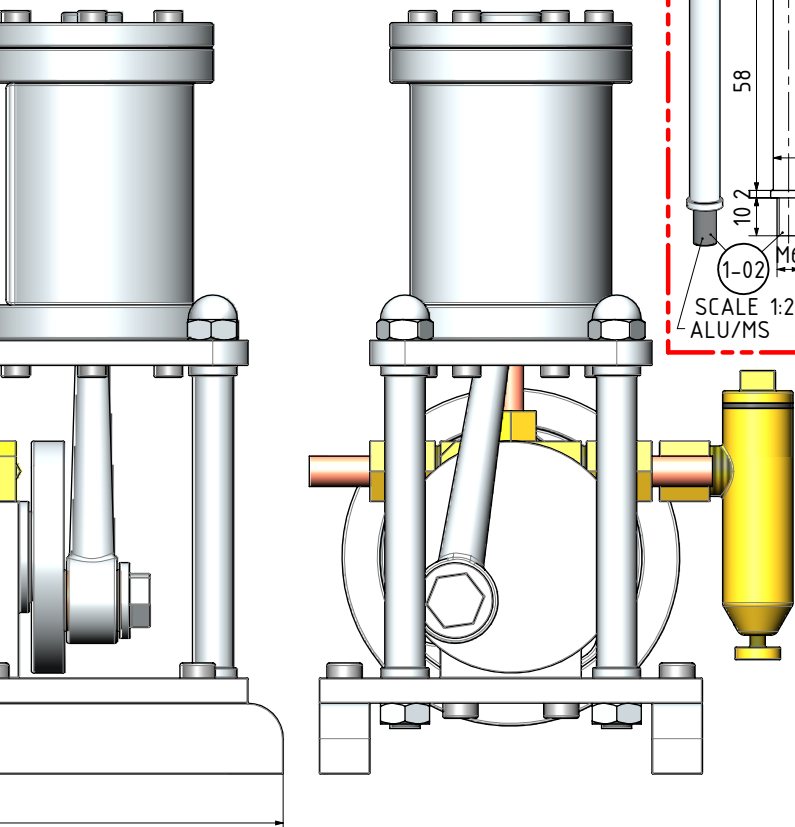
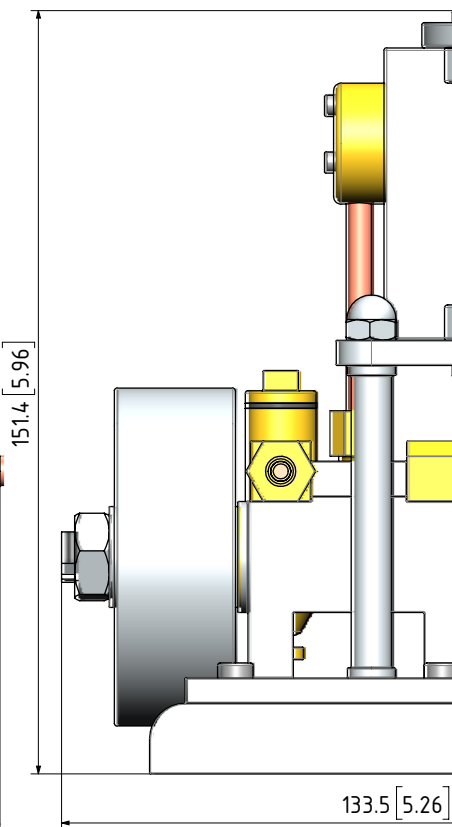
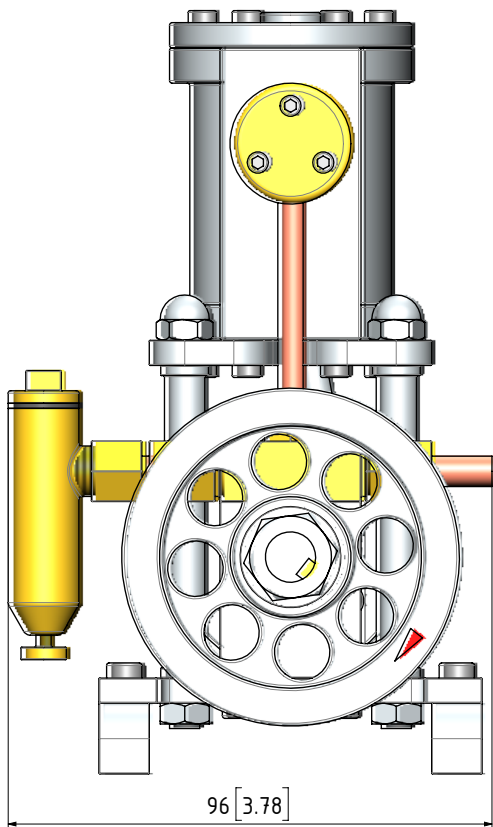
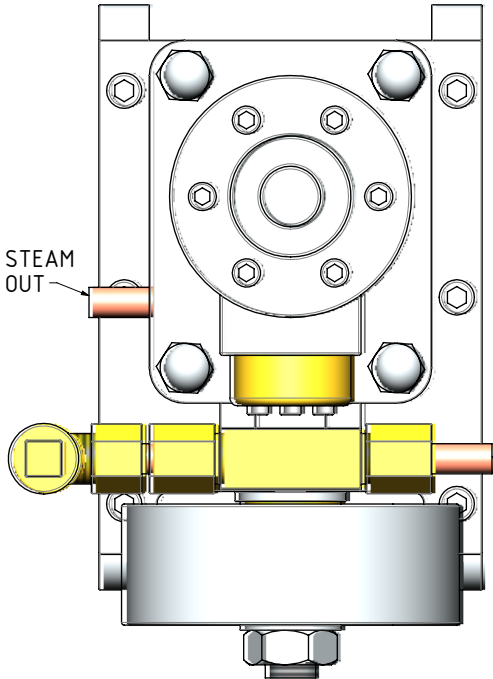


- NOTES:
0. ALL DRAWINGS ARE IN METRIC MEASUREMENTS
 1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
 2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
 3. PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF)
 4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
 5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
 6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
 7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER.
 8. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.
 9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
 10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
 11. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
 12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING.
 13. WASHERS AND/OR SPRINGWASHERS SHALL BE USED WHERE DEEMED NECESSARY.
 - XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.



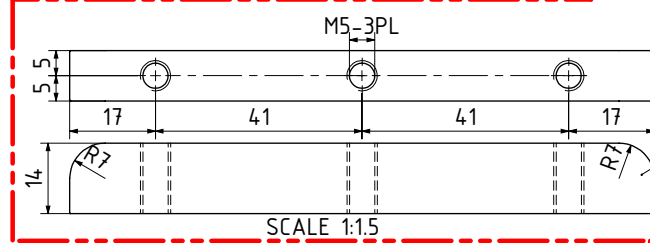
OTHER ABBREVIATIONS

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
[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 SOULD 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	09E-31-00-1-01-BASE PLATE
4	09E-31-00-1-02-CYLINDER PLATFORM SUPPORT COLUMN
1	09E-31-00-1-03-CYLINDER PLATFORM
1	09E-31-00-1-04-MAIN - VALVE BEARING
1	09E-31-00-1-05-STEAM INLET PORT BLOCK
1	09E-31-00-1-06-STEAM OUTLET PORT BLOCK
1	09E-31-00-1-07-CYLINDER
1	09E-31-00-1-08-CYLINDER TOP COVER
1	09E-31-00-1-09-STEAM TRANSFER PIPE
1	09E-31-00-1-10-DISPLACEMENT LUBRICATOR BODY
1	09E-31-00-2-01-CRANK-VALVE SHAFT
1	09E-31-00-2-02-PISTON+PIN
1	09E-31-00-2-03-CON-ROD
1	09E-31-00-M10 NUT
1	09E-31-00-M10 WASHER
3	09E-31-00-M3x16 A-K CYL HEAD SCREW
12	09E-31-00-M4x14 A-K CYL HEAD SCREW
10	09E-31-00-M5x16 A-K CYL HEAD SCREW
4	09E-31-00-M6 DOME NUT
4	09E-31-00-M6 NUT

