

STEAM OUT

STEAM IN

GENERAL NOTES:

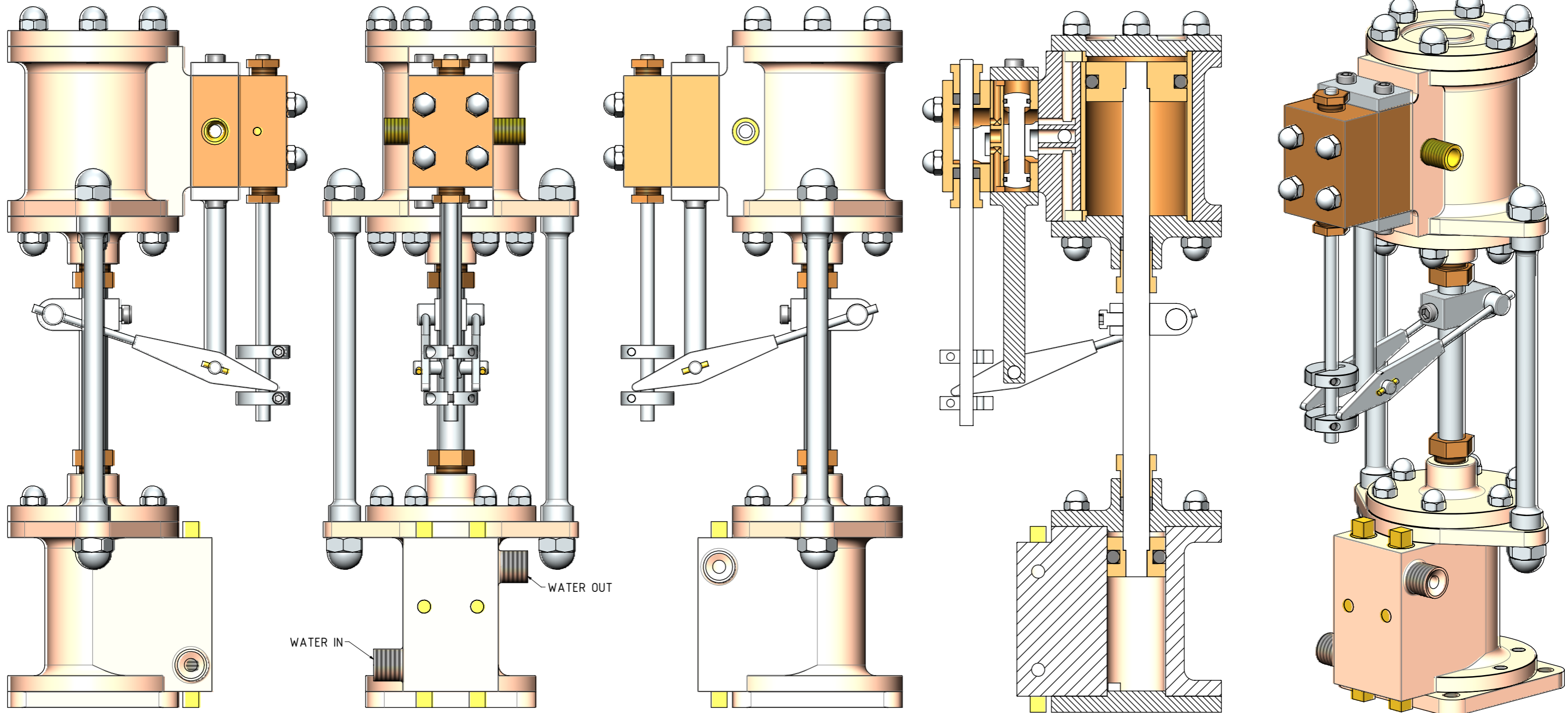
0. ALL DRAWINGS ARE IN METRIC MEASUREMENTS
1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
3. PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS 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.

ADDITIONAL NOTES ABOUT THESE DRAWINGS:

- 1) NO MATERIALS HAVE BEEN SPECIFIED ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED MATERIAL FOR THE PARTS/COMPONENTS. THE FOLLOWING COLOURS ON THE DRAWINGS INDICATES POSSIBLE MATERIALS WHICH CAN BE USED FOR PARTS: YELLOW=BRASS, LIGHT GREY=ALUMINIUM OR MILD STEEL, REDDISH BROWN=COPPER, DARK BROWN=BRONZE OR GUN METAL, WHITISH-SILVER STEEL OR STAINLESS STEEL
  - 2) FASTENERS.
- FASTENERS SHOWN ON THESE DRAWINGS ARE INDICATIVE ONLY, HOWEVER THE BUILDER TO CHOOSE ITS OWN PREFERRED TYPE OF FASTENERS.

DUE TO THE LACK OF INFORMATION ON THE ORIGINAL DRAWING(S), SUCH AS VIEWS, DIMENSIONS, SECTIONS ETC AND/OR CLARITY OF COMPONENTS, OMITTED PARTS/COMPONENTS, SOME OF THE COMPONENTS MIGHT NOT BE AS CONSTRUCTED ORIGINALLY OR AS THE ORIGINAL DESIGNER INTENDED.

QTY.	PART NUMBER
1	01-51-00-1-01-STEAM CYLINDER
1	01-51-00-1-02-SHUTTLE CHEST
1	01-51-00-1-03-REVERSING CHEST
2	01-51-00-1-04-DISTANCE COLUMN
1	01-51-00-1-05-WATER PUMP BODY
1	01-51-00-2-01-PISTONS+CROSSHEAD
1	01-51-00-2-02-CROSSHEAD PIN
1	01-51-00-2-03-REVERSING VALVE LEVER
1	01-51-00-2-04-SHUTTLE VALVE
1	01-51-00-2-05-REVERSING VALVE
1	01-51-00-2-50-ANI-1
1	01-51-00-2-51-ANI-2-LARGE DISC
1	01-51-00-2-52-ANI-3-CON-ROD
2	01-51-00-M3x10 A-K CYL HEAD SCREW
10	01-51-00-M5 DOME NUT
6	01-51-00-M5x12 A-K C-SINK SCREW
4	01-51-00-M5x12 A-K CYL HEAD SCREW
1	01-51-00-M5x6 A-K CYL HEAD SCREW
12	01-51-00-M6 DOME NUT
4	01-51-00-M8 DOME NUT



NOTES: THE ORIGINAL DRAWINGS WERE DOWNLOADED FROM THE INTERNET. THE ORIGINAL DESIGN AND DRAWINGS WERE BY STUART WATSON. THE DRAWING WAS DATED 30-4-88 DRAWING No W.P.1.

TITLE  
A "WEIR" TYPE FEED PUMP

DRAWING CONTENTS  
GENERAL ARRANGEMENT, VIEWS,  
NOTES

PROJECT No 01-51-00  
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PROJECTION DATE JANUARY 2023	JDWDS Copyright © J.A.M. DE WAAL PAPA KURA NZ	MODEL SCALE: 1:1 DWG SCALE: 1:1 @A3 OR AS SHOWN
SHEET: 01 OF 03		A3 No: 01-51-00-SHT-01

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES