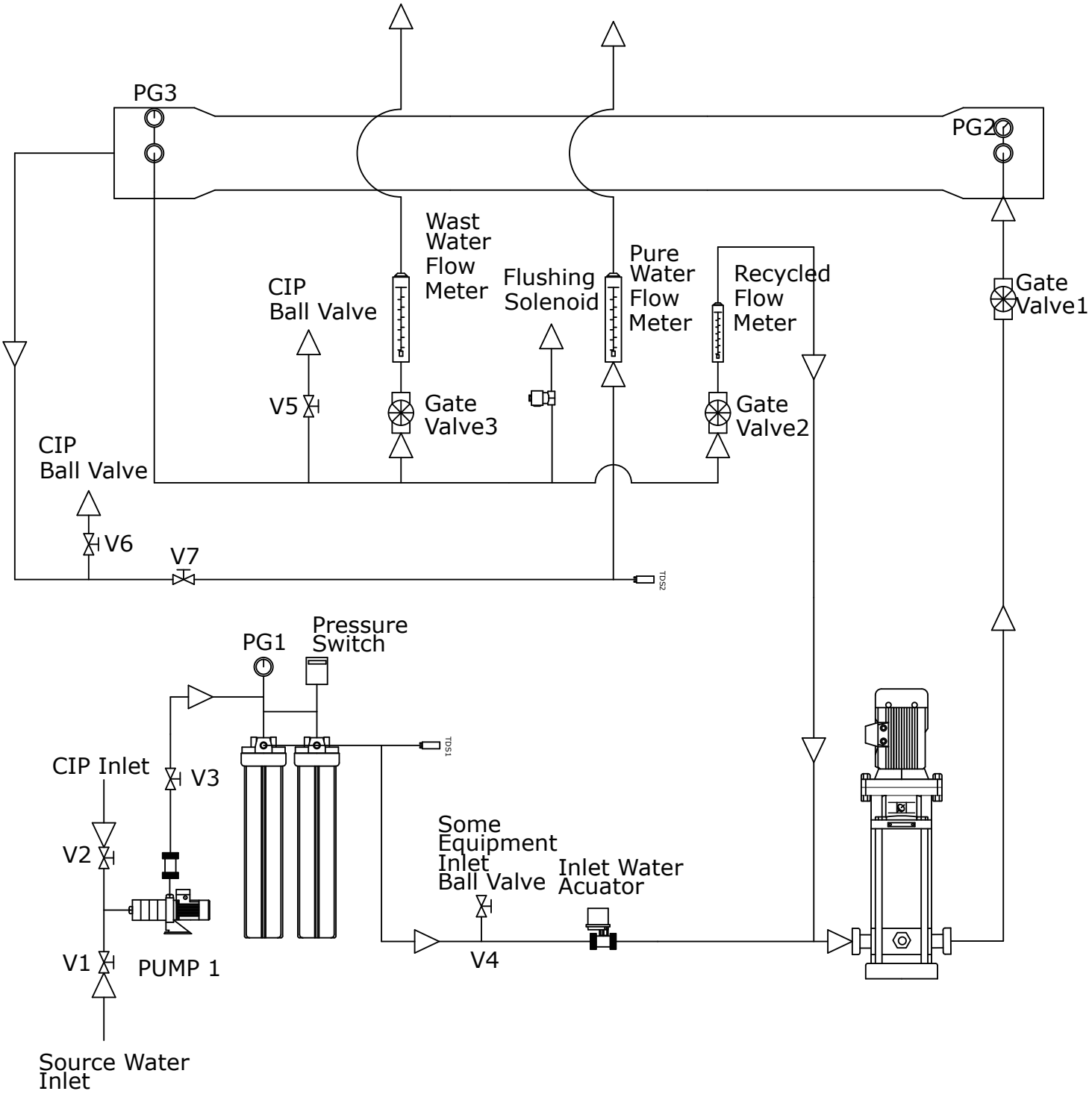
AQUAPRO INDUSTRIAL CO.,LTD

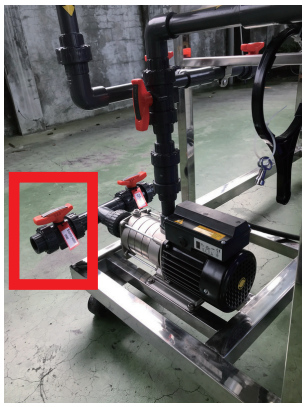
ARO-A1-6000G
INSTALLATION MANUAL

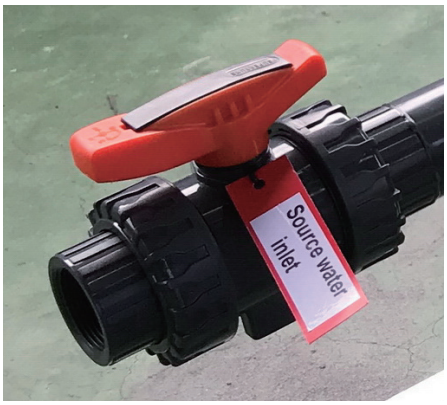
ARO-A1-6000G FLOW CHART



INSTALLATION:

1. Locate the system at installation site
2. Check water supply and electricity availability
   a. Water supply : 4m3/hr
   b. Power: 220V/50HZ , 10KW
3. Connect source water inlet 1-1/4”. Make sure no shrinkage at inlet pipe





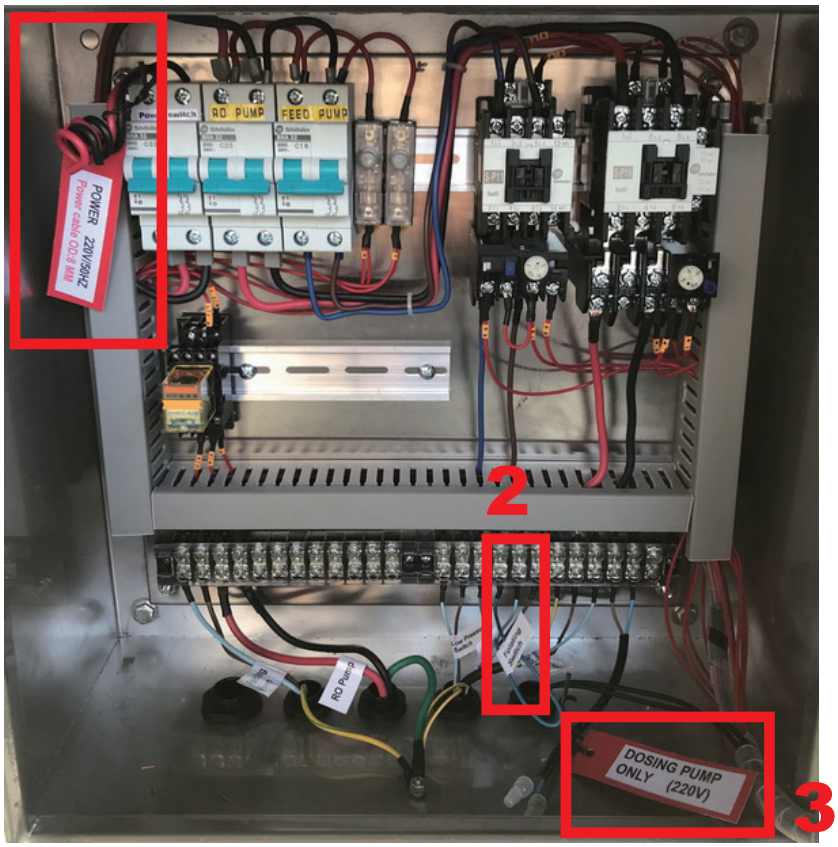
4. V4: Reserved for Dosing pump installation (inlet 1/2" female)

5. Piping: Connect Flushing solenoid to Drain (1/2" male)

6. Piping: Connect Waste Water to Drain (1" female)
7. Piping: Connect Pure Water to Pure water reservoir (1" female)

CONTROL BOX WIRING:

1. Connect power cable - Power 220V/50HZ
2. Connection of pure water reservoir floating switch:
   Disconnect BLUE wire from Floating Switch terminal and reconnect with Floating switch wire.
3. Reserved wire connection for Dosing pump
4. Switches on the control box: Left (OFF) - Right (ON)



STARTING UP THE SYSTEM:
(IN ACCORDANCE TO ARO-A1-6000G FLOW CHART)

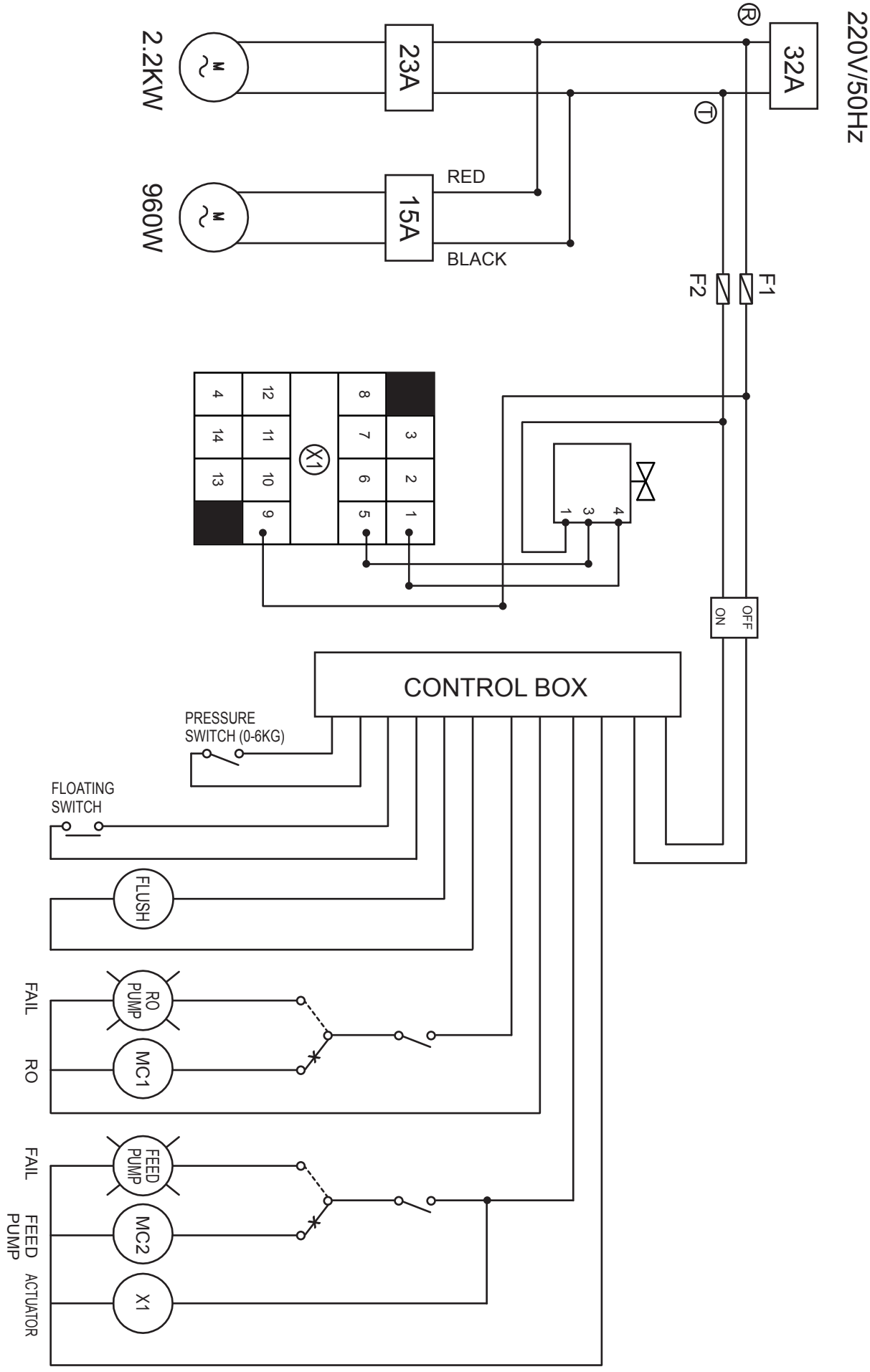
1. Close CIP VALVE (V2, V5, V6)
2. Open SOURCE WATER (V1, V3)
3. GATE VALVE 1 & 3 - Fully open (Rotate anti-clockwise)
   V7 PURE WATER - Fully open
   GATE VALVE 2 - Close
4. Control box power switching on procedure
   a. Inside control box:
      Pull up POWER SWITCH, RO PUMP, FEED PUMP
   b. Front panel :
      b1. Switch on POWER
      b2. Switch on FEED PUMP (Rotate from left to right)
      b3. Switch on RO PUMP (Rotate from left to right)
5. Pump starts operating. Check if any WASTE WATER (around 1.5m3/hr).
   When system starts to produce water automatically after 90secs,
   rotate GATE VALVE 2 & GATE VALVE 3 repeatedly for adjustments.
   After 1min., pure water meter should be 1.5m3/hr.
   After both ratios are 1:1, open GATE VALVE 2 and WASTE WATER
   recovery should be 20%.

   *Note: Recovery rate (waste/recycle) must be adjusted according to
   source water quality.

MEMBRANE CLEANING PROCEDURE

1. Turn off FEED PUMP & RO PUMP powers on the front panel
2. Close V1. Remove filter cartridge.
   Use 100-300L chemical tank.
   Connect and open CIP inlet V2 (1-1/4” female)
3. Close V7, GATE VALVE 2, GATE VALVE 3
4. Connect V5, V6 with tube to chemical tank.
5. Switch on POWER and FEED PUMP on the front panel. (RO PUMP remains OFF)
   Flush membrane repeatedly. Each flushing should last around 8hrs depend on membrane condition.
   Return to machine’s original state after flushing completes and check membrane condition. Repeat the flushing process again if membrane condition still not ideal, or replace a new membrane if necessary.

COMPLETE ELECTRICAL DIAGRAM
ARO-A1-6000G (MC2 + TDS-D2)



ARO-A1-6000G TERMINAL BLOCK

220V SINGLE PHASE / MC2