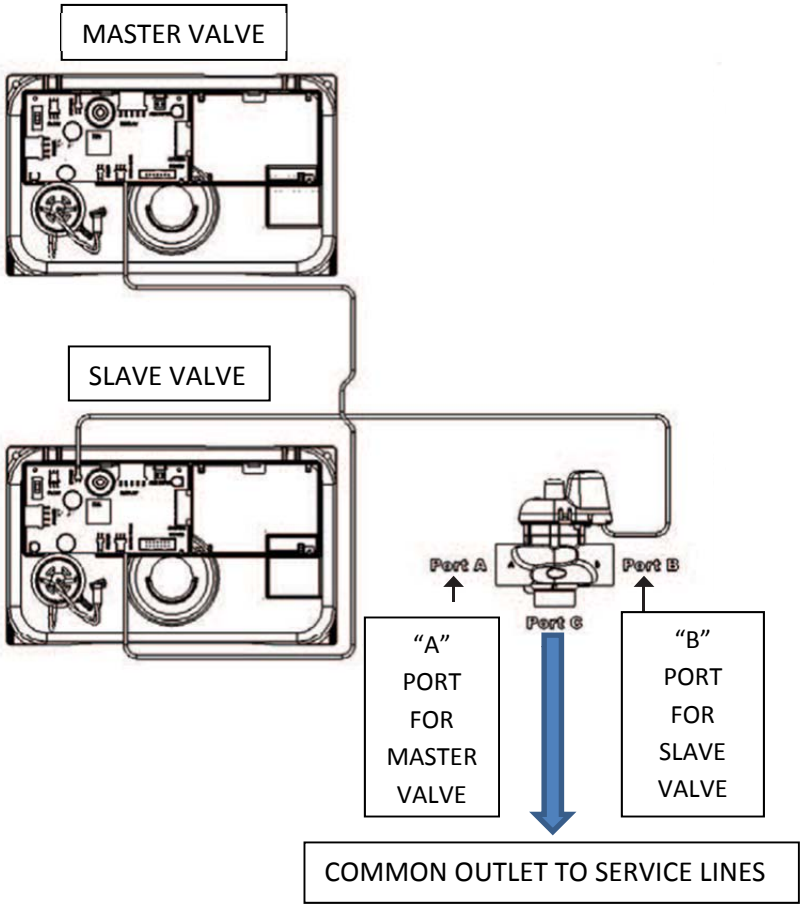
**WS2H and WS3 Two Unit Simple Alternating System Operation Instructions**

**Requires (2) control valves with (1) MAV valve and (1) Meter (WS3, WS2H has integrated meter on each)**

• (1) MAV valve and (1) communication cable is required for a Simple Alternator
• The MAV valve motor wire needs to be connected to the two pin connection labeled **BYPASS** Unit 2's PC Board
• The communication cable needs to be connected to Unit 1's three pin connection labeled "MASTER/SLAVE" and Unit 2's three pin connection labeled "MASTER/SLAVE"
• To regenerate with raw/ untreated water the outlet port of Unit 1 needs to be piped to Port "A" of the MAV valve, the outlet port of Unit 2 needs to be piped to Port "B" of the MAV valve, and Port "C" or common will be the common outlet for Unit 1 & Unit 2
• To regenerate with soft/ treated water the MAV valve needs to be installed on the main inlet feed line to Unit 1 & Unit 2, Port "C" of the MAV valve will become the new common inlet for both Unit 1 & Unit 2. Port "A" of the MAV valve will need to be piped to the inlet port of Unit 1, and Port "B" of the MAV valve will need to piped to the inlet port of Unit 2
• As an Alternator only, the unit in Stand-By will perform a Pre-Service down flow rinse to drain before coming on-line if programmed to do so.
• If a single external meter is to be used, the wire connection for that meter needs to be connected to Unit 2's PC Board three pin connections labeled "FLOW." Also when a single external meter is to be used, in System Setup Screens you **MUST SELECT** "System Pulses" and then the proper meter pulses for the external meter needs to be set in the next screen.
• Optional System Board required to be able to operate available Relay Outputs
• System Board provides (2) Relay Outputs with N.O., COM, and N.C. SPST dry contacts

## SIMPLE TWIN ALTERNATOR

## WIRING IDENTIFICATION




**WHEN PROGRAMMING A CLACK SIMPLE TWIN ALTERNATOR WS2H OR WS3 YOU ONLY PROGRAM 1 CONTROL VALVE WHICH IS THE MASTER, YOUR MAV AND REMOTE METER IF USED NEED TO BE CONNECTED TO THE SLAVE VALVE ALL SETTINGS ARE TRANSFERRED TO THE SLAVE THROUGH THE COMMUNICATION CABLE.**