



**NOTES:**

1. BOILER VALVE CONTROLLER: AERCO P/N 64098
2. CONTROL PANEL CONTACTS RATED FOR MAXIMUM OF 2 AMPS.
3. WIRES TO BE 16 AWG.
4. BLR RELAY TERMINALS ON THE BOILER VALVE CONTROLLER ARE POWERED (24VDC).
5. MOV TERMINALS ON THE BOILER VALVE CONTROLLER ARE POWERED (24VAC).
6. DLY INT TERMINALS ON THE BOILER I/O BOX ARE DRY CONTACTS.
7. BELIMO VALVE: AERCO P/N 92084-1 (3" FLG) OR 92084-2 (4"FLG).
8. MOTORIZED CONTROL VALVE (BELIMO ACTUATOR AFBUP-S Powered Close, Spring Return Open) INCLUDES AN OPEN END SWITCH.
  - a. OPEN END SWITCH MAKES WHEN VALVE PHYSICALLY OPENS. THIS WILL CLOSE THE DELAYED INTERLOCK IN THE I/O BOX AND ALLOW THE BOILER TO FIRE.
  - b. OPEN END SWITCH BREAKS WHEN VALVE PHYSICALLY CLOSES. THIS WILL OPEN THE DELAYED INTERLOCK AND PROHIBIT THE BOILER FROM FIRING.
9. MOTORIZED CONTROL VALVE ELECTRICAL REQUIREMENTS: 24VAC±10%
10. REFER TO DOTTED LINES: FOR BELIMO VALVE AERCO P/N 92084-2, THE SECOND ACTUATOR MUST BE CONNECTED IN PARALLEL TO ACTUATOR #1. POWER CONSUMPTION AND INPUT IMPEDANCE MUST BE OBSERVED.
11. BELIMO AF ACTUATOR SPRINGS OPEN IN 20 SECONDS. THE AUX START ON DELAY PARAMETER IN THE C-MORE MUST BE PROGRAMMED FOR A MINIMUM OF 30 SECONDS. THE DELAYED INTERLOCK MUST BE CLOSED BEFORE THIS TIME LAPSES, OTHERWISE, THE BOILER WILL LOCKOUT AND GO TO A FAULT.
12. THE PUMP DELAY TIMER IN THE C-MORE MUST BE PROGRAMMED (RECOMMENDED: 2 MINUTES MINIMUM). THIS KEEPS THE VALVE OPEN TO DISSIPATE HEAT UNTIL THE PROGRAMMED TIME LAPSES.

**AERCO INTERNATIONAL, INC.**  
NORTHVALE, NJ 07647

AERCO 24V 12-BOILER VLV CONTROLLER  
WITH BELIMO SPRING RETURN VALVE  
(AFB ACTUATOR) WIRING DIAGRAM

DWN BY <u>CZ</u> DATE <u>021612</u>	SD-A-911	REV.
SCALE <u>NTS</u>		A
APPD. _____ DATE _____		