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OPERATING INSTRUCTIONS FOR DRY SPRINKLER ALARM VALVE MANUAL & AUTOMATIC

COMPONENTS (SEE DIAGRAM ON BACK OF THIS SHEET)

- 1.MAIN CONTROL VALVE (NORMALLY OPEN)
- 2.MAIN DRAIN VALVE (NORMALLY CLOSED)
- 3.AIR COMPRESSOR OR SHOP AIR CONTROL VALVE (NORMALLY CLOSED)
- 4.AIR MAINTENANCE DEVICE INLET CONTROL VALVE (NORMALLY OPEN) (AUTOMATIC MODEL ONLY)
- 5.AIR MAINTENANCE DEVICE OUTLET CONTROL VALVE (NORMALLY OPEN) (AUTOMATIC MODEL ONLY)
- 6.AIR COMPRESSOR ON/OFF SWITCH (IF INSTALLED) (NORMALLY OFF FOR MANUAL MODEL AND NORMALLY ON FOR AUTOMATIC MODEL)
- 7.ALARM TEST VALVE (NORMALLY CLOSED)
- 8.ALARM LINE SHUT-OFF VALVE (NORMALLY OPEN IF INSTALLED)
- 9.BLEEDER BALL VALVE FOR LOW PRESSURE SWITCH (NORMALLY OPEN IF INSTALLED)
- 10.PRIMING LEVEL INDICATION CONTROL VALVE (NORMALLY CLOSED)
- 11.PRIMING WATER FILL VALVE (NORMALLY CLOSED)
- 12.ACCELERATOR CONTROL VALVE (NORMALLY OPEN IF INSTALLED)

INSTRUCTIONS FOR TESTING SYSTEM

- (A) NOTIFY FIRE DEPARTMENT, SECURITY COMPANY, PERSONNEL AND ALL OCCUPANTS THAT A TEST IS GOING TO BE CONDUCTED.
 - (B) TO TEST ALARM OPERATION ONLY, OPEN ALARM TEST VALVE #7 UNTIL ALARM IS ACTIVATED. RETURN VALVE TO CLOSED POSITION.
- NOTE: THE FOLLOWING STEPS SHOULD BE PERFORMED BY QUALIFIED PERSONNEL ONLY.**

TO TRIP TEST ALARM VALVE:

- (C) TURN OFF AIR COMPRESSOR SWITCH #6 IF AUTOMATIC MODEL.
- (D) CLOSE AIR MAINTENANCE DEVICE INLET & OUTLET CONTROL VALVES #4 & #5 (AUTOMATIC MODEL ONLY)
- (E) OPEN THE INSPECTORS TEST VALVE AT THE END OF THE SYSTEM AND WAIT FOR ALARMS TO SOUND.
- (F) CLOSE THE MAIN CONTROL VALVE #1 AND OPEN THE MAIN DRAIN VALVE #2.
- (G) ENSURE THAT ALL TRAPPED SECTIONS OF PIPING ARE DRAINED OF ALL WATER.
- (H) CLOSE THE INSPECTORS TEST VALVE AT THE END OF THE SYSTEM.
- (I) RESET SYSTEM (SEE BELOW)

INSTRUCTIONS FOR DRAINING SYSTEM

- (A) NOTIFY FIRE DEPT., SECURITY COMPANY AND ALL PERSONNEL THAT SYSTEM WILL BE OUT OF SERVICE.
- (B) TURN OFF THE AIR COMPRESSOR SWITCH #6 IF AUTOMATIC MODEL.
- (C) CLOSE ACCELERATOR CONTROL VALVE #12 IF INSTALLED.
- (D) CLOSE AIR MAINTENANCE DEVICE INLET & OUTLET CONTROL VALVES #4 & #5 (AUTOMATIC MODEL ONLY)
- (E) CLOSE MAIN SHUT OFF VALVE #1
- (F) OPEN MAIN DRAIN VALVE #2.
- (G) OPEN THE INSPECTORS TEST VALVE AT THE END OF THE SYSTEM.

INSTRUCTIONS FOR RE-SETTING SYSTEM

- (A) CLOSE THE INSPECTORS TEST VALVE AT THE END OF THE SYSTEM.
- (B) REMOVE ACCESS PANEL ON FRONT OF DRY VALVE AND RE-SEAT THE VALVE CLAPPER, REPLACE AND SECURE ACCESS PANEL.
- (C) OPEN PRIMING LEVEL INDICATION CONTROL VALVE #10
- (D) OPEN PRIMING WATER FILL VALVE #11 UNTIL WATER COMES OUT PRIMING LEVEL INDICATION VALVE #10, CLOSE BOTH #10 & #11
- (E) OPEN AIR COMPRESSOR CONTROL VALVE #3 AND ACTIVATE COMPRESSOR WITH SWITCH #6 IF INSTALLED.
ALLOW SYSTEM AIR PRESSURE TO RISE TO ORIGINAL READING. (USUALLY 40 PSI.) THE AIR COMPRESSOR SHOULD SHUT OFF AUTOMATICALLY (**AUTOMATIC MODEL ONLY**) IF INSTALLED. FOR MANUAL MODEL THE AIR COMPRESSOR SWITCH #6 MUST BE SHUT OFF WHEN THE ORIGINAL PRESSURE IS OBTAINED.
- (F) CLOSE THE AIR COMPRESSOR OR SHOP AIR CONTROL VALVE #3. IF AUTOMATIC MODEL OPEN THE AIR MAINT. DEVICE VALVES #4 & #5
- (G) CLOSE THE MAIN DRAIN VALVE #2.
- (H) OPEN THE MAIN SHUT OFF VALVE #1. (SLOWLY)
- (I) RESET ACCELERATOR IF APPLICABLE AND OPEN ACCELERATOR CONTROL VALVE #12
- (J) DOUBLE CHECK THAT VALVES #1 TO #12 ARE IN THEIR NORMAL POSITION.
- (K) NOTIFY FIRE DEPARTMENT, SECURITY COMPANY, PERSONNEL AND ALL OCCUPANTS THAT THE SYSTEM IS BACK IN SERVICE.

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