

Test Procedure

Testing Set-Up

1. De-energize the rapid pressure rise relay control circuit and remove the cable plug from the unit.
2. Press the test light button to activate the test kit. Both bulbs should glow when button is depressed. (The test kit will automatically shut off after five (5) minutes.)
3. Connect the test cable to the electrical connector. The red light should glow. If it does not, press the test button to verify that both bulbs operate and the battery voltage is sufficient to perform the test. If the test kit is functioning correctly and the red test light still does not light, the relay is not functioning properly and should be returned to the factory for examination.
4. Remove the pipe plug or vent from the cover of the relay.
5. Install the coupler to the cover so the gasket is sufficiently compressed to seal the unit.
6. Connect the pressure hose to the coupler.

Testing Procedure

1. Press or squeeze the pressure bulb to attain the desired test pressure (3.25 – 3.50 for 900 series) (2.50 – 2.75 for the 910 series) on the pressure gauge. Press the timer button to activate the timer. (Maintain this pressure for a minimum of 45 seconds by pressing or squeezing the pressure bulb as required.) The red light will dim during timing. Timings is complete when red light glows.
2. After timing is complete, rapidly pull the ring on the relief valve. The yellow test light should glow and the red test light should dim. If the yellow test light does not glow. A retest should be made to verify the procedure. After a few seconds, the relay should reset, I.E. the red test light should glow and the yellow test light should go dim. CAUTION: Always wait one minute between tests. If the bulb still fails to glow, the relay is not within specification.
3. Wait for one minute for the relay mechanism to stabilize.
4. Press or squeeze the pressure bulb to attain the desired non-operate test pressure (1.25 – 1.50 for the 900 series) (0.75 – 1.00 for the 910 series) on the pressure gauge. Press timer button as described in step 1. (Maintain this pressure for a minimum of 45 seconds by pressing or squeezing the pressure bulb as required.)
5. After 45 seconds, rapidly pull the ring on the relief valve. The red test light should continue to glow and the yellow test light should not glow. If the yellow light does glow, a retest should be made to verify this procedure. CAUTION: Always wait a minimum of one minute between tests. If the yellow light still glows, the relay is not within specification.

Disassembly

1. Reverse the Testing Set-Up procedure described in steps 1-5 making sure to apply thread sealant to the pipe plug or vent threads. Horizontally mounted relays must have the vent oriented as shown.
2. If any rapid pressure rise relay fails to perform as specified, it should be returned to the factory for examination.

TEST LIMITS (NOT TO EXCEED 3.75 PSIG)		RESULTS
900 SERIES	910 SERIES	
3.25 - 3.50 PSIG	2.50 - 2.75 PSIG	UNIT SHOULD OPERATE
1.25 - 1.50 PSIG	.75 - 1.00 PSIG	UNIT SHOULD NOT OPERATE

Spare Parts and Accessories:

Qualitrol connector (std) (Qual P/N CAB-633-1)

Qualitrol connector (ansi) (Qual P/N CAB-635-1)

“MS” style connector (Qual P/N CAB-634-1)

Bulbs: T-3 ¼ mini bayonet, 6.3 v, .15A (Sylvania P/N 1847) (Qual P/N LMP-016-1)

Batteries: 4 Size C – alkaline

Pipe plug wrench: 3/16 hex

Vent wrench: 7/16 x 3/8 open end