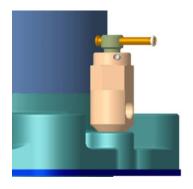
Issued: February 25, 2019



## **TECHNICAL SERVICE BULLETIN (TSB) 20190225**

### LEAK TEST PROCEDURE FOR MIDLAND A-1400 SERIES COMBINATION DEVICES

- 1. Pressurize the tank car to the standard test pressure according to your company's procedures.
- 2. If the PRV has a tell-tale needle valve with a threaded outlet (1/8" NPT, Figure 1, left), remove the outlet cap, open needle valve, and proceed to step 4.
- 3. Remove the tell-tale needle valve (Figure 1, right) from the PRV body using a wrench (5/8" hex).



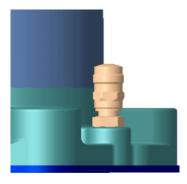


Figure 1 Valve with 1/8" NPT (left) ready for testing. Valve without outlet (right) requires removal for testing.

- 4. Thread an air fitting into the threaded hole (1/8" NPT). Apply Teflon tape as needed.
- 5. Attach pressure line to installed air fitting.
- 6. Confirm tank pressure.
- 7. Pressurize the valve through the fitting to a minimum pressure of 10 psig and a maximum pressure of the tank pressure ±5 psig.



# DO NOT EXCEED A NET PRESSURE DIFFERENTIAL OF MORE THAN 5 PSIG OR DISK MAY BURST OR INVERT.

- 8. Check for leaks at base of valve (Figure 2, red). Note the weather seal does not retain pressure in excess of 5 psig.
- 9. Release pressure applied to valve fitting.



## DO NOT VENT TANK CAR PRESSURE BEFORE VALVE PRESSURE OR DISK MAY BURST OR INVERT.

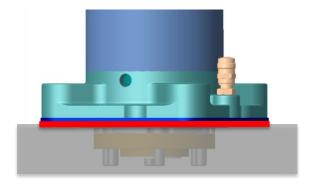


Figure 2 Bubble Leak Test at base of valve (red) to check primary PRV mounting gasket.

- 10. Remove air fitting.
- 11. If the tell-tale needle valve was removed, reinstall the tell-tale valve. Otherwise, replace outlet cap. Apply Teflon tape as needed.
- 12. Close needle valve.

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