

Introduction to AVK Testing

What is AVK?

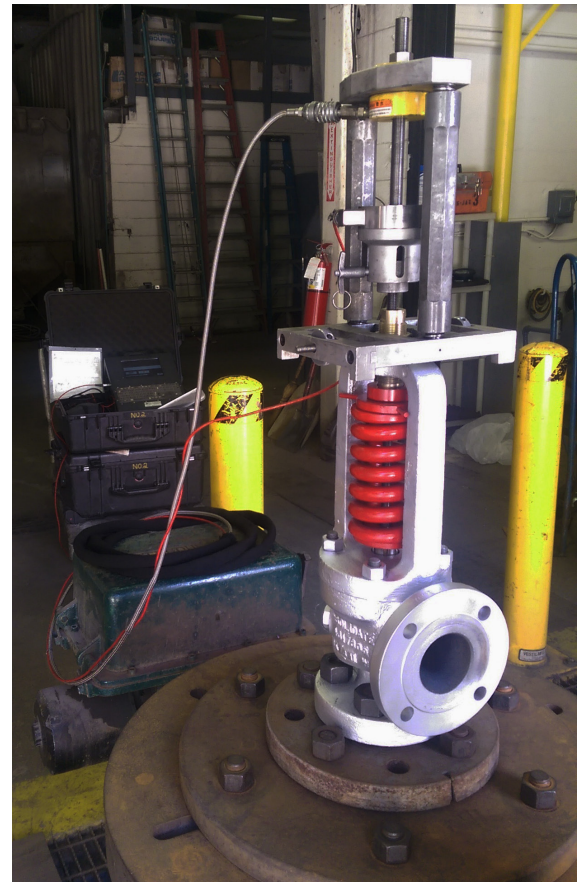
The AVK UltraLite is an in-line pressure relief valve testing device (commonly referred to as an ALD, Auxiliary Lift Device). Its primary function is to verify set pressure of pressure relief valves in-line. The AVK requires stable system pressure to perform testing. For specific operating conditions to perform AVK testing, please contact your Control Southern account manager.

How does it work?

Using the data acquired through system transducers, the AVK consistently and accurately verifies valve set pressure. The portable device includes a small actuator assembly that is mounted to the valve. A custom-designed adapter with sensor applies force to the valve spindle to determine set pressure. In the event of an overpressure condition, the AVK does not hamper the normal operation of the valve, regardless of the testing phase currently in progress. The AVK tester contains a computer system, data acquisition hardware, and proprietary software to acquire, process, and store the test data. The test results can then be printed or downloaded to other applications. Upon testing completion, Control Southern issues test reports to the customer (electronic or hard copies available, depending on customer preference).

Advantages of AVK Testing

- Eliminates costly and time-consuming valve removal
- Valve testing conducted while system is active and boiler stays on-line
- Valves failing AVK can be scheduled for repair
- Steam cuts and leaks are rare since the AVK does not take the valve into full lift
- Repairs and testing using this device are recognized by National Board and customer's insurance inspectors



AVK UltraLite Testing Device on a Pressure Relief Valve

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