

PRV (Pressure Relief Valve) System Testing Load Cells

Industry: OEM, Test and Measurement

Summary

Customer Challenge

A manufacturer wants to conduct a PRV test, or pressure relief valve test, on their valve when under a full pressure load. This is to ensure safety and reliability for customers. They also wish to be able to record and graph the test results.

Interface Solution

Interface suggests installing their 1200 Standard Precision LowProfile™ Load Cell to a test frame on top of the pressure relief valve. As pressure is increased onto the spring in the valve, it pushes forces onto the load cell. Results can be recorded using the 9330 Battery Powered High Speed Data Logging Indicator

Results

The customer was able to successfully determine the exact amount of force it took for their valve to release when under a pressure load.

Materials

- 1200 Standard Precision LowProfile™ Load Cell
- 9330 Battery Powered High Speed Data Logging Indicator
- Customer's PRV
- Test frame

How It Works

1. The 1200 Standard Precision LowProfile™ Load Cell is installed to the test rig, which is attached to the top of the PRV's spring.
2. As pressure from the valve increases, the pressure causes forces to be applied onto the 1200 in the test frame.
3. Results can be logged and graphed when connected to the 9330 Battery Powered High Speed Data Logging Indicator, on an SD card or the customer's computer.

