



Application story

Druck's DPI610E-IS relief valve testing function ensures safe transportation of petroleum liquids

A road haulage company was looking for a portable solution to confirm that the pressure release valves were working on their petroleum tankers

Industry supplied:

- Road haulage

Application:

Druck DPI610E-IS pressure calibrator was used to test the pressure relief valves on petroleum tankers.



DPI610E-IS Portable pressure calibrator

The customer:

Our application engineer was approached by a road haulage company looking for a portable solution to confirm that the pressure release valves were working on their petroleum trailer fleet.

Customer challenge

Road petrol tankers delivering fuel from refineries to petrol forecourts require pressure relief valves on their hatches to be tested regularly to confirm that they are operating within their required range. With the change in temperature, pressure can increase within the tankers and the pressure release valves will operate to allow excess vapour to dissipate safely preventing explosions or fire.

Our customer required a cost effective, robust light weight portable calibrator with relief valve testing functionality for use with engineers in varied weather conditions.

Druck solution

The portable DPI610E-IS pressure calibrator is quickly able to generate a pressure up to 35 bar pneumatic and 1000bar hydraulic. The technician can monitor the change in pressure when the relief valve operates (sudden change in pressure) and record this value against the expected operating pressure. Or if the system is already pressurised the Druck DPI610E-IS can be connected to a port to measure the system pressure directly and note down the pressure when the valve operates.

The DPI610E-IS was able to measure the hysteresis of the relief valve by observing the difference between the opening and closing pressure.

Druck's added value:

Building on a legacy of 30 years of heritage in the portable calibration industry, Druck utilises the tried and tested, robust design of the DPI600 series, with new functionality, designed using the latest advancements in pressure measurement technology to create the DPI610E-IS.

Being able to generate and measure pressure up to 35 bar pneumatic, and 1000 bar hydraulic, the DPI610E-IS boasts testing functionality that makes the name of the "Iconic Druck" worthy.

Find out more about the DPI610E-IS:

[DPI610E Datasheet](#)



[How to do a relief valve test – video](#)

