

PVT

Pressure setting verification & leakage test kit
for PV relief valves

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VENTIQ



PVT PV valve test kit

The pressure opening settings for PV valves can and will fluctuate over time. This can be caused by several factors like weakening magnets, accumulation of salty deposits, the stickiness of cargo, lack of maintenance and so on. Pressure setting awareness is important for all stakeholders, on and off the ship. The procedure of verifying the pressure setting of the PV valve should be done with high frequency and always after required maintenance.

Keeping the settings within its parameters, saves cargo and is also an assurance with regards to safety on board

Simplified and accurate testing of PV valves with a truly portable test kit

Set pressure verification

Controlled ventilation means that the cargo tank is operating under a certain pressure. To keep the pressure within the boundaries set for the tank, there is need for PV valves which releases excessive over pressure and equalizes excessive under pressure to and from the outside.

The pressure opening settings for PV valves can and truly will fluctuate over time. This can be caused by several factors like weakening magnets, accumulation of salty deposits, the stickiness of cargo, lack of maintenance and so on.

Pressure setting awareness is equally important to all members on and off the ship. Verifying settings means increased safety.



Light weight tank reservoir for leakage test



Recalibration after maintenance

Regular maintenance is important when it comes to automatic PV valves, either of high velocity type or for the low velocity version. Before every loading and unloading operations the valve should be manually tested to verify proper movement – and if not operating properly, maintenance should be carried out.

In addition, the PV valve should be taken apart and maintained according to a certain time cycle to remove deposits and ensure proper sealing among other things. After maintenance and reassembly the valve should be tested with regards to opening pressure and tightness.

Emission leakage detection

Cargo shouldn't be stored in the clouds. When testing the PV valves for leakages one can detect and, if leakage is too much, take preventing action to eliminate the leakage. Unwanted emissions from cargo tanks causes loss of cargo and has an environmental impact. With the PV valve test kit, a tank reservoir and a simple soap water solution, one can easily check and verify any leakage there is related to the PV valves.

With the PVT, testing can be facilitated without the use of heavy and bulky components. Compressed air and a useful suitcase of test equipment is all there is to it. With close to zero training, the operator can check and verify both pressure and vacuum opening settings by the touch of a button.



Ventiq AS (Ltd) is a Norwegian engineering and manufacturing company specializing in safety equipment for ventilation of tanks carrying hazardous and or flammable liquids onboard all floating constructions.

The company carries decades of wide experience in tank venting solutions and stand capable of advising customers on cargo tank configurational design. Ventiq also supplies complete cargo venting solutions, including project management design and consulting.

VENTIQ

Ventiq AS
6083 Gjerdsvika
Norway

tel: +47 70026540
e-mail: office@ventiq.com
www.ventiq.com