

INNOVATION IN SAFETY

VQHV-ISO

High velocity pressure vacuum valves



[www.ventiq.com](http://www.ventiq.com)

**VENTIQ**



## VQHV-ISO : Outstanding features



- Non-hammering, oscillation-free operation
- Compact design in cast-steel acid-resistant material
- Function testing with single full-lift lever
- Vent-disc- position indicators
- Easy maintenance, with cleaning indicators and flushing ports
- Large net clearance
- Completely self draining
- Easy replaceable seats

## VQHV-ISO : Rules and regulations

All products are tested and type approved by major classification societies as well as USCG

ISO 15364:2000

Ships and marine technology – pressure vacuum valves for cargo tanks.

SOLAS Reg. 59

Venting, purging, gas-freeing and ventilation; introducing a secondary means of venting for cargo tanks.

IMO MSC. 1009/677/373

Amendment to the revised standards for the design, testing and location of devices

to prevent the passage of flames into cargo tanks in tankers.

API 2000

Venting atmospheric and low-pressure storage tanks

SAFETY

## Ventiq - innovation in safety

Ventiq AS is an engineering and manufacturing company specialising in ventilation systems for liquid cargo tanks on oil-, product- and chemical tankers.

## High performance tank venting

The key to understand the way Ventiq works is to look at its design and manufacturing process. By keeping this simple and yet sophisticated, Ventiq adds innovation value to its position in the field of cargo-based maritime tank venting. The company never compromises when it comes to safety and quality and this benefits the customers, which can choose from a range of long-lasting, low maintenance, high velocity pressure/vacuum valves ensuring trouble free operation.

## VQHV-ISO: Non-hammering, oscillation-free operation

With a strong focus on valve misbehaviour, Ventiq has developed the VQHV-ISO into a sophisticated oscillation-free, non-hammering high velocity pressure/vacuum valve. With the IMO focus on detrimental hammering on this type of valves, defined by rapid full stroke movements of the pressure disc, with little or small possibilities to prevent flashback. The VQHV-ISO is taking safety to a higher level by introducing oscillation-free operation thereby safeguarding the ship and its crew.

## Redundancy Venting

In response to amended SOLAS regulations, the VQHV-ISO is introduced to cover the demand for a valve which has a large clearance when it comes to moving discs. This reduces the danger of jamming caused by deposits accumulating in the valve. Otherwise secondary full flow means of venting for vapour, air or inert gas mixture to prevent the over- and under-pressure in the event of failure in primary vent system, can be achieved by introducing p/v breakers, alarms etc. according to SOLAS latest regulations.

## Ventiq R&D-centre and test facilities

The Ventiq R&D testcrew with its focus on the different aspects regarding vent systems onboard tankers, ensures that the design is current with the latest technology when it comes to safety and innovation. All products will be tested and documented according to latest rules and regulations.

## Selecting the right valve

When selecting high velocity pressure/vacuum valves system, system compliance with cargo vent system must be considered. Pipedimension, pipelength, flowconditions, pressuredrop in the pipeline and so on are vital parameters when selecting type of p/v valve. For the vent system to work in a safe and reliable way, Ventiq should be consulted for further information.

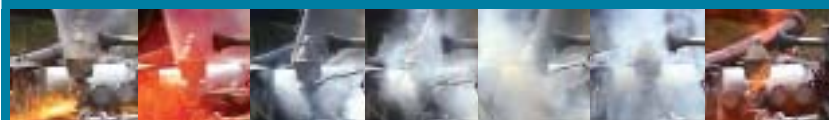


**“With its oscillation-free principle and design beyond the latest requirements, the VQHV-ISO valve features a number of qualities which will**

**raise the standard in maritime tank venting. The valve is the outcome of a thorough research and development process and is tested under realistic worst-case scenarios.**

**In the future, we will remain at the forefront of development and provide international regulatory bodies with input regarding the safe ventilation that is required for hazardous and flammable cargoes on board tankers. You’re sailing safely with our know-how on board,”** Dr. Øivind Strand, Ventiq R&D Manager

**Ventiq AS stands for a new and refreshing approach to innovation within the field of maritime safety tankventing products. With representatives in almost all parts of the maritime world, Ventiq is never far away.**



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