

We champion safety

What happened in 1971, and why it still matters today.

The invention in 1971 was what we would now call disruptive. Before that there were no High velocity valves. Cargo tanks carrying flammable liquids were in most cases only protected by filters to stop flames, but these mostly just clogged up and blocked ventilation of the tanks. The invention of the High velocity valve facilitated high venting rates at low pressure drop and most importantly raised safety to a level never seen before.

BAY VALVES

Find more information

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A journey started 50 years ago

Choose the HI JET ISO II valve – the statutory ISO standard is guaranteed.

From the implementation in 1984, the IMO MSC/ Circ. 373 test standards for Devices to prevent the passage of flames focused on the flame arresting capabilities of the P/V valves. These continued in the 677 circular, but with the addition of a ban of Hammering.

At the invention in 1971, this was an unknown phenomenon. When more manufacturers entered the market for High Velocity P/V valves, the pure weight loaded valve was introduced and with that Hammering. Bay Valves has adhered to the original invention, always using the same technology and we are now considered the leading experts.

Even though the HI JET ISO II valve has always been non-hammering and non-oscillation, we have over the years taken advantage of the amendments to and latest implementation of IMO standards. They have always added to the functionality and safety level, intended more to improve on the less sophisticated weight loaded valves.

The ISO 16852:2016 has once again raised the safety bar by emphasising test of all nozzles (e.g. the small leak valve), as well as endurance burning tests and a general focus on maximum pipe length and minimum pipe diameter, all in order to protect human life and assets.

A large photograph showing a ship's deck with several Bay Valves HI JET ISO II valves. The valves are mounted on a complex orange metal structure. The sea is visible in the background. A blue semi-transparent box is overlaid on the bottom right of the image, containing text.

Taking the
historic 1971 invention
to an even higher level

Why we are your best choice

Close to zero VOC loss during transit by our “Mini Slip Technology” makes us superior.

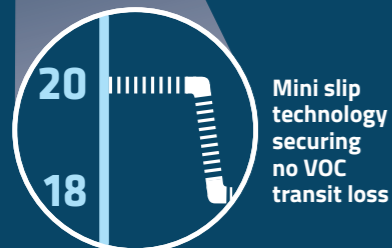
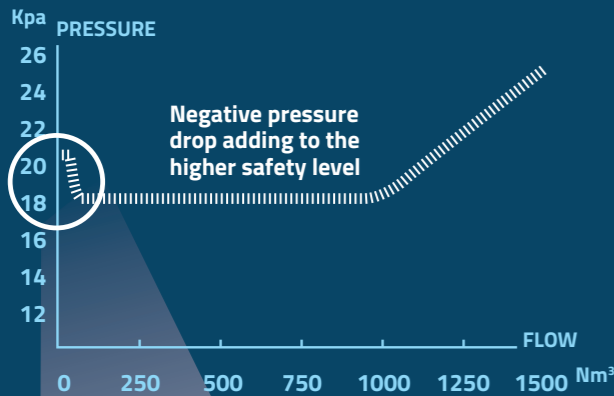
Safety: The High Velocity valves HI Jet ISO II bring an absolutely non-hammering performance opening and closing according to the international fire test standard EN ISO 16852 and the latest amendment to ISO 15364:2016, which unanimously require a maximum of 0,5 hz – equal to a 2 second full cycle from the valve is closed to open and closed again.

Furthermore, the HI Jet ISO II has simultaneously been tested to the European standard EN 12874 and gas group IIB (MESG 0,5 for chemicals) at the independent German Notified Body (Wheel Mark approved) Institut Für Sicherheitstechnik – IBExU.

Functionality: The superiority relates to the adjustable setting which allows the valve setting (opening pressure) to be changed according to the authorities’ or charterer’s requirement, e.g. from 0,14 bar to 0,17 bar and for chemicals 0,20 bar and above up to 0,60 bar for Propylen Oxide for – simply by adjustment and even during valve service.

Other products for the marine and off-shore industry as well as the petro-chemical industry, e.g. flame arresters, pressure-vacuum valves, detonation arresters, etc., are available from stock.

CLOSE TO ZERO VOC LOSS DURING TRANSIT BY OUR “MINI SLIP TECHNOLOGY” MAKES US SUPERIOR



🇩🇰 BAY Valves is based in Nyborg – Denmark, close to the place of the invention of the High Velocity valve in 1971. Denmark has since then established itself as an expert community and knowledge centre within Cargo tank ventilation – especially within the field of High Velocity valves.

WE ARE HERE TO SERVE YOU

Should you require more information or wish to discuss any issue related to flow technology in general, cargo tank ventilation, pressure-vacuum release and devices to prevent the passage of flames in particular.

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A highly skilled group of engineers with extensive knowledge within fluid dynamics, i.e. High Velocity valves, continuously strive for excellence – improving on safety and functionality.



High velocity valves

Long piping is our speciality – requires true non-oscillation performance.



Owner's portable test kit

On-site testing in minutes following authorities requirement for immediate correction. Crew training and increased awareness of P/V valve performance and characteristics.

Pilot operated NO-VOC valves

No VOC loss on the whole range from transit breathing to full flow loading.



High velocity safety P/V valves

Cost effective solution given ISO 9001:2008 surveyed and optimized production.



Pressure-vacuum safety valves at a glance

Covering the whole range from tankers to off-shore including FPSO.



Safety valve test bench

Integrated data logging. Class documentation readily available.