

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure-Vacuum Relief Valve**with type designation(s)
DN250-V70

Issued to

Winmag
Winschoten Groningen, Netherlands

is found to comply with

DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition July 2015**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Design: Magnet operated****Sizes: DN 250**This Certificate is valid until **2021-08-25**.Issued at **Høvik** on **2016-08-26**for **DNV GL**DNV GL local station: **Rotterdam, Product**
Certification /VerificationApproval Engineer: **Simon Ratcliffe**-----
Marianne Spæren Marveng
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Pressure vacuum (P/V) valve not intended to prevent the passage of flame.

Size: DN 250

Materials:

Housing and cover	Aluminium G-ALSi7Mg (DIN 1725-2)
Pressure disc	Aluminium G-ALSi7Mg (DIN 1725-2)
Vacuum disc	Aluminium G-ALSi7Mg (DIN 1725-2)
Internal pins	Stainless steel
Seals	Silicone rubber

Application/Limitation

This certificate covers the design assessment of the pressure vacuum valve. Installation and other additional requirements related to installation are out of scope of this certificate.

	<i>Set pressure</i>
Over-pressure (tank internal)	0.15 barg
Vacuum	0.07 barg

Pressure vacuum valves, not intended to prevent the passage of flame.

This pressure vacuum valve is not permitted for use on tanks containing fluids with a flashpoint below 60 °C.

A product certificate is not required for installation on DNV GL classed vessels.

Type Approval documentation

Tests carried out

Flow test, tightness test according to TAP 5-793.10-1, vacuum test, overpressure test.

Marking of product

For traceability to this type approval the P/V valves are to be marked as a minimum with:

- Manufacturers name or trade mark
- Type designation

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform a survey every second year and before the expiry date of this certificate to verify that the conditions for the type approval are complied with.