

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Explosion relief valve for engine intake manifold and exhaust line**

with type designation(s)

98 EVT, 122 EVT, 173 EVT, 224 EVT, 266 EVT

Issued to

**Hoerbiger Ventilwerke GmbH & Co. KG
Wien, Austria**

is found to comply with

DNV GL rules for classification – Ships**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2017-09-12**This Certificate is valid until **2022-09-11**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Sven Neddenien**

**Burkhard Lilienthal
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.



Job Id: **262.1-024504-1**
Certificate No: **TAM00000G3**

Product description

Explosion relief valve with flame arrestor

Application/Limitation

Quick acting and self-closing explosion relief valve with flame arrestor to pressure relief an intake or exhaust manifold of a gas or dual fuel engine in the event of an internal explosion and to prevent passage of flames.

The installation orientation is vertical or horizontal.

Valve type	Free relief area (cm ²)	Opening pressure (bar)
98 EVT	58	adjusted acc. to application
122 EVT	95	adjusted acc. to application
173 EVT	201	adjusted acc. to application
224 EVT	346	adjusted acc. to application
266 EVT	499	adjusted acc. to application

Type Approval documentation

Tests carried out

Test reports issued by Physical Technical Testing Institute, Ostrava-Radvanice, National Authority no. 210, EU Notified Body no. 1026:

- 14.0138/2-88, Gas explosion test, Relief valve type 224EVT on pipe size DN300
- 14.0438-88, Gas explosion test, Relief valve type 224 EVT, pipe size DN300 + T-part

All tests have been performed in accordance with a test program proposed by Hoerbiger Ventilwerke and approved by DNV GL.

Marking of product

The product to be marked with manufacturer's name or trademark, designation, size and month / year of manufacture.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval certificate was issued.

In case where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, a Periodical Assessment shall be carried out randomly at these companies.

Other conditions

After an explosion the valve has to be inspected and to be replaced, if applicable according to the Installation- and Operation Manual.

END OF CERTIFICATE