DNV·GL

Certificate No:
TAM00000GA

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Explosion relief valve for engine exhaust line

with type designation(s)
173 EVM, 320 EVM, 420 EVM, 565 EVM, 735 EVM

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

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 exhaust line 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 (cm²)	Opening pressure (bar)
173 EVM	169	0.18 – 0.22
320 EVM	732	0.18 – 0.22
420 EVM	1260	0.15 – 0.19
565 EVM	2300	0.18 – 0.22
735 EVM	3905	0.16 – 0.18

Type Approval documentation

Tests carried out
Test reports issued by Physical Technical Testing Institute, Ostrava-Radvanice, National Authoity no. 210, EU Notified Body no. 1026:
- 07.0306-47, Explosion test of protective system, Relief valve diameter 735
- 10.0119-47, Explosion test of protective system, Relief valve diameter 320
- 16.0102-47, Gas explosion test, Explosion relief valve type 420 EVM

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, 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