

TYPE APPROVAL CERTIFICATE

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

with type designation(s)

**EVDM-98, EVDM-122, EVDM-173, EVDM-224, EVDM-266
EVDD-173, EVDD-320, EVDD-420, EVDD-565, EVDD-735**

Issued to

**Prosave Co.,Ltd.
Gimhae-si, Gyeongsangnam-do, Republic of Korea**

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 **2020-03-05**This Certificate is valid until **2023-11-05**.DNV GL local station: **Gimhae Station**Approval Engineer: **Sven Neddenien**for **DNV GL**

**Olaf Drews
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: **262.1-028535-2**
Certificate No: **TAM00000ZU**
Revision No: **1**

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)	Application
EVDM-98	58	adjusted according to application	intake or exhaust manifold
EVDM-122	95	adjusted according to application	intake or exhaust manifold
EVDM-173	201	adjusted according to application	intake or exhaust manifold
EVDM-224	346	adjusted according to application	intake or exhaust manifold
EVDM-266	499	adjusted according to application	intake or exhaust manifold
EVDD-173	201	adjusted according to application	exhaust manifold
EVDD-320	732	adjusted according to application	exhaust manifold
EVDD-420	1260	adjusted according to application	exhaust manifold
EVDD-565	2300	adjusted according to application	exhaust manifold
EVDD-735	3905	adjusted according to application	exhaust manifold

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:

- 18.0176-88, Explosion venting device for manifold, EVDM-173, EVDD-173

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

Marking of product

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

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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 Instruction Manual.

END OF CERTIFICATE