DNV·GL

Certificate No:
TAM00000TS

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Crankcase Explosion Relief Valve

with type designation(s)
N-ERV size: 98/122/162/173/204/224/266/320/345/420/480/565/645/735

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

is found to comply with
DNV GL rules for classification – Ships

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

For other details, see under application/limitation on page 2.

Issued at **Høvik** on **2018-09-03**
This Certificate is valid until **2023-09-02**.
DNV GL local station: **Gimhae Station**

Approval Engineer: **Amir Dzaferi**

for **DNV GL**

Oddvar Deinboll
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
Crankcase explosion relief valve with flame arrestor.

Application/Limitation
Quick acting and self closing explosion relief valve with flame arrestor to pressure relief a combustion engine crankcase or gear case in the event of an internal explosion and to prevent passage of flames.

The installation orientation is vertical.

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

Test Report No.	ERV size:	Date	Number of valves tested
18.0115-47	98	19.06.2018	1
18.0116-47	122	19.06.2018	1
18.0111-47	173	21.06.2018	3
18.0112-47	266	19.06.2018	1
18.0114-47	320	21.06.2018	1
17.0329-47	420	27.11.2017	3
17.0330-47	735	27.11.2017	1

All tests have been performed in accordance with IACS UR M66.

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

Periodical assessment
For retention of the type approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years, both referring to the issue date of the type approval certificate to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

In cases 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, periodical assessment shall be carried out randomly at these companies.

Other conditions
The complete flame arrestor has to be replaced after a crankcase explosion.

END OF CERTIFICATE