



U. S. Department of Homeland Security  
**United States Coast Guard**  
**Certificate of Approval**

Coast Guard Approval Number: 162.017/183/1

Expires: 16 March 2025

PRESSURE-VACUUM RELIEF VALVES FOR TANK VESSELS

PRES-VAC ENGINEERING A/S  
SVANEVANG 3-5  
DK-3450 ALLEROD DENMARK

PV-ECO and PV-VOC High Velocity Pressure Relief Valves: 53 (ECO), 66 (ECO), 80 (ECO), 98 (ECO), 106 (VOC), 122 (VOC), 150 (VOC), 174 (VOC), and 204 (VOC)

Minimum Setting: 10 kPa

Apparatus Group: IIB

MESG = 0.65 mm

PV-ECO and PV-VOC Vacuum Valves: 95 (ECO-VAC), 116 (ECO-VAC), 150 (ECO-VAC), 180 (VOC-VAC), 215 (VOC-VAC), 248 (VOC-VAC), and 315 (VOC-VAC)

Nominal Setting: -3.5 kPa

Apparatus Group: IIB

MESG = 0.65 mm

The pressure-vacuum relief valves (PVRV) listed above are designed and constructed to drawing number 4100 to meet ISO 15364:2000 and IMO MSC/Circ. 677, as amended by MSC/Circs. 1009 and 1324.

The tests on the PVRV were carried out by FORCE on January 7 and November 17, 2014; test report 4100, volumes 1, 2, 3 and 4.

PVRV for use on U.S. flagged vessels shall be marked in accordance with 46 CFR 162.017-5.

\*\*\* End \*\*\*

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.

GIVEN UNDER MY HAND THIS 26<sup>th</sup> DAY OF  
MAY 2020, AT WASHINGTON D.C.

J. J. MIN  
Chief, Engineering Division  
BY DIRECTION OF THE COMMANDANT



**TERMS:** The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

**NOTICE:** Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."