



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

Coast Guard Approval Number: 162.017/169/2

Expires: 06 November 2024

PRESSURE-VACUUM RELIEF VALVES FOR TANK VESSELS

ELECTROMECHANICAL RESEARCH
LABORATORIES INC.
2560 Charlestown Road
NEW ALBANY IN 471510

Model: Type 8 inch EQUATE pressure/vacuum relief valve (PVRV). Constructed of 300 series stainless steel.

Pressure setting: 1.0 - 3.0 psig

Vacuum setting: 0.5 - 3.0 psig

The PVRV is designed and constructed to drawing number 228L110B, "Assembly Dwg.", Rev. 1, dated September 30, 2008, and drawing number 269L144B, "8 in rd PV Valve," Rev. 1, dated September 30, 2008 to meet ISO 15364:2000 and IMO MSC/Circ. 677, as amended by MSC/Circs. 1009 and 1324.

Item 38 on drawing number 228L110B may be replaced by the flame screen drain plug shown on drawing number 009M107B, "Drain Plug," dated January 9, 2001 and on drawing number 009M103B, "Plug Screen," dated January 9, 2001.

The flow data on the PVRV was carried out by CEESI Test Reports 08ERL2-0001, Rev. 1, dated June 18, 2008; 08ERL2-0002, Rev. 1, dated June 18, 2008; 08ERL2-0003, dated June 5, 2008; and 08ERL2-0004, dated June 5, 2008.

The PVRV valve has been tested in accordance with API 2000, and is approved for use in vapor control systems.

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 06th DAY OF
NOVEMBER 2019, AT WASHINGTON D.C.

Jodi Min

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."