

# EC-Type Examination Certificate Marine Equipment – Module B



## Certificate No. DK-0200-MarED-203, version 7

Issued by FORCE Certification A/S, Denmark  
under EC-notification number 0200

In accordance with Technical Regulation on Marine Equipment No. 1281 of 11 November 2013 from the Danish Maritime Authority which in Denmark implements the COUNCIL DIRECTIVE 96/98/EC of 20<sup>th</sup> December 1996 on marine equipment (changed by the Commission Directive 98/85/EC of 11<sup>th</sup> November 1998, Commission Directive 2001/53/EC of 10<sup>th</sup> July 2001, Commission Directive 2002/75/EC of 2<sup>nd</sup> September 2002, European Parliament and Council Directive 2002/84/EC of 5<sup>th</sup> November 2002, Commission Directive 2008/67/EC of 30<sup>th</sup> June 2008 and Commission Directive 2012/32/EU of 25 October 2012, 8<sup>th</sup> Amendment) this certificate is issued to:

Applicant: **Pres-Vac Engineering ApS**  
**Svanevang 3-5**  
**DK-3450 Allerød**  
**Denmark**

Manufacturer: **Pres-Vac Engineering ApS**  
**Svanevang 3-5**  
**DK-3450 Allerød**  
**Denmark**

Identification of Marine Equipment:

Annex A.1 Item: A.1/3.12 Devices to prevent the passage of flame into cargo tanks in tankers

Product Type: High Velocity Pressure Valve and Vacuum Valve combined

Product Designation: PV-ECO / PV-VOC

Specified Standards: IMO MSC/Circ. 677, EN 12874: 2001 and ISO 15364: 2007

Fulfilled Standards: IMO MSC/Circ. 677 as amended by MSC/Circ. 1009 and MSC.1/Circ.1324, EN 12874: 2001, EN ISO 16852: 2010, ISO 15364: 2007 and API 2000

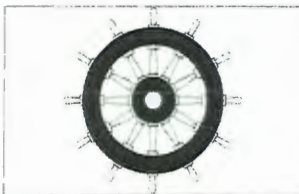
The examined samples were found to fulfil the requirements in the above listed International Testing Standards and applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of IMO as specified in ANNEX A.1, Section 1, item A1/3.12, and ANNEX B, Module B, of the Directive. The type-examined models and the basis for the type approvals, including application and operating restrictions, are described in the enclosure to this certificate.

Any significant changes to design or manufacture, or amendments to the Directive or applicable standards may render this certificate invalid.

This EC-Type Examination Certificate replaces the previously issued Certificate No. DK-0200-MarED-203, version 5 and is covered by Regulation (EC) No. 391/2009 of the European Parliament and of the Council of 23 April 2009 on common rules and standards for ship inspection and survey organisations.

Date of issue: 2014-10-24  
Date of expire: 2019-10-24

Niels Ovesen  
Certification Manager



The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity may only be issued when the production/product assessment module (D, E or F), ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

**0200/YY** Last two digits of year mark affixed

**Enclosure to Certificate No. DK-0200-MarED-203, version 7**  
**EC-Type Examination Certificate**  
**Marine Equipment – Module B**  
**PV-ECO**



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**Common information:**

Issued to: Pres-Vac Engineering ApS  
Svanevang 3-5  
DK-3450 Allerød

for marine equipment: High Velocity Pressure Valve and Vacuum Valve combination, a device to prevent the passage of flame into cargo tanks in tankers. The pressure and vacuum valves may be used independently


Type: PV-ECO / PV-VOC, Type 4100

Size: High Velocity Pressure Valve Model PV-ECO-53, -66, -80 and -98  
High Velocity Pressure Valve Model PV-VOC-106, -122, -150, -174 and -204  
Vacuum Valve Model VAC-95, -116, -150, -180, -215, -248 and -315

Manufactured by: Pres-Vac Engineering ApS

Design: High velocity pressure valve according to assembly drawing No. 4050-1, rev. 0, dated 2012-08-01  
Vacuum valve according to drawing No. No. 4100-5, rev. 0, dated 2013-11-27  
The combination of pressure- and vacuum valve according to drawing No. 4100, rev. 2, dated 2013-10-11

Marking: According to drawing No. 1413-404, rev. 1, dated 2014-09-26 for the High Velocity Pressure Valve and according to drawing No. 1413-398, rev. 0, dated 2013-09-18 for the Vacuum Valve  
On marking plate: PV-ECO-XX or PV-VOC-XX (type-size)  
OPEN SET YY kPa (pressure relief setting in kPa)

 0200 (wheel mark and NB No.)  
Certificate No.: DK-0200-MarED-203  
Serial No. is identical to order No. + yyy, where yyy is serial No.  
EN 12874/EN ISO 16852 Exp. group (fulfilled requirements to explosion group)  
IMO MSC/Circ 677/1009/1324 - ISO 15364: 2007 (fulfilled requirements)  
Pres-Vac · Svanevang 3-5 · 3450 Allerød · Denmark · www.pres-vac.com (name and address of the manufacturer)

Quality system modules: B + F

Quality audits: Annual surveillance audit acc. to FORCE Certification internal audit plan.