



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

18-LD1750069-PDA
29-Jun-2018
28-Jun-2023
London Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

VICTOR MARINE LTD.

located at

**UNIT 7, WATERLOO COURT, MARKHAM VALE, CHESTERFIELD,
United Kingdom, S44 5HN**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Fan, Axial Flow Gas Freeing

Model VP1350W~Mk 5, VP800W~Mk 5, VP850A~Mk5

This Product Design Assessment (PDA) Certificate 18-LD1750069-PDA, dated 29/Jun/2018 remains valid until 28/Jun/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

American Bureau Of Shipping

Mohammed K.M. Abbas, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

VICTOR MARINE LTD.

UNIT 7, WATERLOO COURT

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Tier: 3 - Type Approved, unit certification not required

Product: Fan, Axial Flow Gas Freeing**Model:** VP1350W~Mk 5, VP800W~Mk 5, VP850A~Mk5**Intended Service:**

Purging of explosive gas/air mixture from cargo tanks, cofferdams and other hazardous areas of oil and chemical carriers.

Description:

Axial flow portable gas freeing fans driven by water or air capable of operating in supply or extract mode.

Model VP850A~Mk5- Air Driven

Model VP800W~Mk 5, VP1350W~Mk 5- Water Driven

Casing & Impeller: Aluminium alloy LM6M

Rating:

VP850A~Mk5

Maximum air displacement 8,500 m3/hr

Maximum Operating Pressure- 7.5 bar

VP800W~Mk 5

Maximum air displacement 8,700 m3/hr;

Maximum Operating Pressure- 10.5 bar

VP1350W~Mk 5

Maximum air displacement 14,350 m3/hr;

Maximum Operating Pressure- 10.5 bar

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Please note that unless specially directed by Administration, this approval is not to be construed as a substitute for a flag Administration's approval.
3. Fans are to be suitably earthed to the hull of the vessel to prevent dangerous build up of static charges during operation.

Notes/Drawing/Documentation:**Drawings:**

1. No. GF800-001 Rev G "GAS FREEING FAN VP800W"
2. No. GF800-162-1 Rev B "WATER MOTOR"
3. No. GF850-001 Rev J "GAS FREEING FAN VP850W"
4. No. GF850-002 Rev H "GAS FREEING FAN VP850W"
5. No. GF1350-001 Rev G "GAS FREEING FAN VP1350W"
6. No. GF1350-162-1 Rev B "WATER MOTOR"

Documentation:

1. BSRIA LTD. Report No. 18175/1 (June 2003) "Performance Tests on a VP Gas Freeing Fan"
2. BSRIA LTD. Report No. 59804/2 (December 2016) "Tests on a VP 800 Gas Freeing Fan"
3. Water Driven Gas Freeing Fan VP 800 - Technical Datasheet
4. Air Driven Gas Freeing Fans VP 850A and VP950AS - Technical Datasheet

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5. Water Driven Gas Freeing Fan VP 1350W - Technical Datasheet.

Terms of Validity:

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STANDARDS**ABS Rules:**

ABS Rules for Building and Classing Steel Vessels 2018, 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/9.15 and 4-8-3/11.3

ABS Rules for Building and Clasing Mobile Offshore Drilling Units 2018, 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-3/9.7

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA