



MARINE DIVISION

Certificate number: 19767/B0 BV

File number: ACM 180/2503/02

Product code: 7152H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**VICTOR MARINE LTD.**  
West Thurrock - UNITED KINGDOM

*for the type of product*

### ANTISPARKING AXIAL FANS

Portable Gas Freeing Fans  
Type VP 950A-Mk5 Air Driven  
Type VP 750WS, VP 1000WS & VP 1500WS Water Driven

**Requirements:**

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units
- IBC Code

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 12 Mar 2018**

**For BUREAU VERITAS,**

At BV LONDON, on 12 Mar 2013,

Spencer Yule



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

**Axial flow portable gas freeing fans: VP 950A-Mk5 Air Driven and VP 750WS, VP 1000WS & VP 1500WS Water Driven**

#### 1.1 Technical specification

Type	VP 950A-Mk5	VP 750WS LOW FLO	VP 1000WS MID FLO	VP 1500WS HI FLO
Operating pressure (bar)	7.5	12	12	12
Air flow (m <sup>3</sup> /hr)	8500	7600	10350	14800
Drive media flow (m <sup>3</sup> /hr)	220	8	27	56
Min. supply hose (inch)	3/4"	2"	2"	2"
Standard deck flange (mm)	ID Ø 318	ID Ø 318	ID Ø 318	ID Ø 318
Gross weight (kg)	27	32.5	32.5	32.5

#### 1.2 Material specification

Casing	Stainless steel AISI 316L
Impeller	Aluminium alloy
Impeller anti spark track	Beryllium copper

### 2. DOCUMENTS AND DRAWINGS

#### 2.1 Documentation

Type	VP 950AS	VP 750WS/VP 1000WS/VP 1500WS
General arrangement	VP 950-001 A	VP 1500-001 A
Gas freeing fan portable models	VP 950-002 A	VP 1500-002 A
Typical installation	VP 950-003 A	VP 1500-002 A
Impeller	VP 950-112 A	VP 1500-112 H
Impeller track	VP 1500-212 B	VP 1500-212B
Water motor assembly		VP 1500-161 B (water)

#### 2.2 Operating and Maintenance Manual

- Gas Freeing Fan VP 950A (Issue E) 2012
- Gas Freeing Fan VP 1000W & VP 750W (Issue D) 2012
- Gas Freeing Fan VP 1500W (Issue D) 2012

*No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.*

### 3. TEST REPORTS

Not required.

### 4. APPLICATION / LIMITATION

4.1 Axial flow portable gas freeing fans are approved for use as non-sparking fans for purging of explosive gas/air mixture from cargo tanks, cofferdams and other hazardous areas of oil/chemical tankers. Fans are capable of operation in supply or exhaust mode.

4.2 Fans are to be suitably earthed to the hull in order to prevent electrostatic charges during operation.

4.3 The installation on board is to be carried out in compliance with manufacturer's instructions and in accordance with the provisions of Bureau Veritas Rules and Regulations stated on the front page of this certificate.

### 5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supplied by Victor Marine Limited, UK in compliance with the type described in this certificate and in compliance with the requirements stated on the front page of this certificate. This type of product is within the category HBV of Bureau Veritas Rule Note NR 320.

5.2 Victor Marine Limited, UK has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR 320 for HBV products.

**Production Location**

**Victor Marine Limited  
Eurocourt Cosgrove Road  
West Thurrock, Essex  
UNITED KINGDOM**

**6. MARKING OF PRODUCT**

The product is to be at least marked with:

- Manufacturer's name or logo
- Type designation and size
- Capacity

**7. OTHERS**

This approval is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the product and of the conditions of this approval.

*This certificate supersedes the Type Approval Certificate N° 19767/A1 BV issued on 11/11/2010 by the Society.*

**\*\*\* END OF CERTIFICATE \*\*\***