



Marine & Offshore

Certificate number: 20260/C0 BV

File number: ACM 179/2201/04

Product code: 8111H

*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.**  
Chesterfield - UNITED KINGDOM

*for the type of product*

**TANK WASHING MACHINES**  
VP MAJOR Mk1 - Bronze and Stainless Steel version

### Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- MARPOL 73/78 Annex I Regulation 33.2 and Annex II
- IMO Resolution A.446(XI), as amended by Res. A.497(XII) and A.897(21)

*This certificate is issued to attest that Bureau Veritas Marine & Offshore 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: 06 Jul 2025**

**For Bureau Veritas Marine & Offshore,**

At BV LONDON, on 06 Jul 2020,

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 Marine & Offshore. 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 & Offshore 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 Marine & Offshore 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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

#### **VP MAJOR Mk1 - Bronze and Stainless Steel Tank Washing Machines**

- Supplied either for portable operation with screwed hose connection and deck-mounted fixed applications,
- Pre-programmable rotary 360°,
- Twin nozzle,
- Consists of three main parts, a) the gear box b) the nozzle carrier and c) the main body.

Technical Data

VP MAJOR Mk1 Model	Bronze	Stainless Steel
Nozzle size (mm)	11, 12, 14, 16, 18	11, 12, 12.4, 14, 16, 18
Supply pressure (kg/cm <sup>2</sup> )	8, 10, 12	8, 10, 12
Max. capacity (m <sup>3</sup> /hr)	70	70
Max. working temperature (°C)	93 (200 °F)	93 (200 °F)
Min. deck opening (mm)	245 and fixing available	245 and fixing available

### 2. DOCUMENTS AND DRAWINGS

- Drawings N° VP 0280-03; N° VP 0280-02; N° 0318-01 and N° VP 0295-21 (Bronze)
- Drawings N° 0281-001 & 0281-002 (Stainless Steel)
- Operating and Maintenance Manuals: Issue 11 (Bronze) and Issue 14 (Stainless Steel)

*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

- Performance data VP MAJOR Mk1 - Bronze Tank Washing Machine

Supply Pressure (kg/cm <sup>2</sup> )	Nozzle Diameter (mm)	Flow Rate (m <sup>3</sup> /hr)	Jet length (m)	Nozzle Diameter (mm)	Flow Rate (m <sup>3</sup> /hr)	Jet length (m)	Nozzle Diameter (mm)	Flow Rate (m <sup>3</sup> /hr)	Jet length (m)
8	2 x Ø 11	26	14	2 x Ø 12	32	15	2 x Ø 14	42	17
10		29	16		35	17		45	19
12		33	18		40	19		51	21
8	2 x Ø 16	50	18	2 x Ø 18	57	19			
10		55	20		64	21			
12		61	22		70	23			

- Performance data VP MAJOR Mk1 - Stainless steel Tank Washing Machine

Supply Pressure (kg/cm <sup>2</sup> )	Nozzle Diameter (mm)	Flow Rate (m <sup>3</sup> /hr)	Jet length (m)	Nozzle Diameter (mm)	Flow Rate (m <sup>3</sup> /hr)	Jet length (m)	Nozzle Diameter (mm)	Flow Rate (m <sup>3</sup> /hr)	Jet length (m)
8	2 x Ø 11	26	14	2 x Ø 12	32	15	2 x Ø 12.4	34	16
10		29	16		35	17		38	18
12		33	18		40	19		41	20
8	2 x Ø 14	42	17	2 x Ø 16	50	18	2 x Ø 18	57	19
10		45	19		55	20		64	21
12		51	21		61	22		70	23

### 4. APPLICATION / LIMITATION

- 4.1 To be used as tank washing machine for crude oil washing.
- 4.2 Suitable for chemical tankers subject to compatibility with materials.
- 4.3 The machine is to be installed according to the manufacturer instructions and Requirements stated on front page of this certificate.

4.4 The machine is to be maintained and operated according to the manufacturer instructions manual. Each machine is to be supplied with its manufacturer's installation, operating and servicing instructions.

4.5 The machine is to be electrically bonded to the hull.

4.6 The openings in the deck and fixing arrangements of the machines must be in accordance with the applicable Rules and to the satisfaction of the Society's Surveyor. The method of support of the cargo tank machine is to be to the satisfaction of the attending Society's surveyor. The welding of the tubes is to be performed by qualified welders and satisfactorily tested.

4.7 Where necessary, dissimilar materials are to be protected to eliminate bi-metallic corrosion.

#### **5. PRODUCTION SURVEY REQUIREMENTS**

5.1 The products are to be supplied by **Victor Marine Limited** in compliance with the type described in this certificate and in compliance with the requirements stated on the front page of this certificate.

5.2 This type of product is within the category HBV of Bureau Veritas Rule Note NR 320 and as such does not require a BV product certificate.

5.3 **Victor Marine Limited** 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.

5.4 For information, **Victor Marine Limited** has declared to Bureau Veritas the following production site:

**Victor Marine Limited: Unit 7, Waterloo Court, Markham Vale, Markham Lane, Chesterfield, S44 5HN, UK**

#### **6. MARKING OF PRODUCT**

The machine is to be permanently marked with the following information:

- Manufacturer name or logo
- Type designation

#### **7. OTHERS**

It is **Victor Marine Limited's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved products and of the conditions of this approval.

*This certificate supersedes the Type Approval Certificate N° 20260/B1 BV issued by the Society.*

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