



Marine & Offshore
Division

Certificate number: 25061/A0 BV

File number: ACM 145/2560/4

Product code: 22671

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
ARITA VALVE MFG (M) SDN BHD
PENANG - MALAYSIA

for the type of product
SHIPSIDE VALVE
Vertical / Angle storm valve

Requirements:

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

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: 26 Sep 2021

For BUREAU VERITAS,

At BV SINGAPORE, on 26 Sep 2016,

Myra Idora Mohd Ali



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 & Offshore 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

Vertical / Angle Storm Valve according to JIS F3059 & JIS F3060

1.1 Design Specifications

Size range (mm)	DN 50 to DN 150
Pressure rating	JIS 5K, JIS 10k
Temperature range (°C)	-25 to 120

1.2 Materials

Body	Cast steel / Bronze
Stem	Brass
Plug	Brass
Rubber	Oil resisting rubber

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.

2. DOCUMENTS AND DRAWINGS

- Storm valve instruction manual and catalogue submitted on 29/08/2016

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

- Hydrostatic test report, Arita valve quality and product inspection reports dated 15-16/10/2014 witnessed by Bureau Veritas

4. APPLICATION / LIMITATION

4.1 May be used as storm valves and overboard discharge valves.

4.2 The valves belong to Class I, Class II and Class III according to the relevant requirements stated in:

- Part C, Chapter 1, Sec 10 of BUREAU VERITAS Rules for the Classification of Steel Ships.

- Part C, Chapter 1, Sec 7 of BUREAU VERITAS Rules for the Classification of Offshore Units.

- Part C, Chapter 1, Sec 10 of BUREAU VERITAS Rules for the Classification of Naval Ships.

Valves under static pressure on oil fuel tanks or lubricating oil tanks and valves fitted on the ship side and collision bulkhead belong to Class II.

4.3 The valve body, plug and seat should be suitable for the intended service.

4.4 The valves are to be installed according to manufacturer's instructions and BUREAU VERITAS Rules.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supplied by ARITA VALVE MFG (M) SDN BHD in compliance with the type and the requirements described in this certificate.

5.2 This type of product is within the category IBV of BUREAU VERITAS Rule Note NR320.

5.3 BV product certificate is required.

5.4 BUREAU VERITAS Certificates are required for materials of valve housings of Class I (DN \geq 50) and Class II (DN \geq 100). Materials of valve housings of Class I (DN $<$ 50) and Class II (DN $<$ 100) and for other parts of Class I and Class II are to be with Work's certificates.

5.5 Each valve housing for class I and class II is to be hydraulically pressure tested to 1.5 times the design pressure. Valves intended to be fitted on the ship side below the load waterline are to be tested by hydraulic pressure not less than 0.5 MPa.

5.6 ARITA VALVE MFG (M) SDN BHD has declared to Bureau Veritas the following production site:

ARITA VALVE MFG (M) SDN BHD, Lot 414, Off Lorong Perusahaan 8C, Seberang Perai, PENANG, MALAYSIA

6. MARKING OF PRODUCT

Each valve shall be marked with at least:

- Manufacturer's name or logo
- Type designation
- Society's brand as relevant

7. OTHERS

It is ARITA VALVE MFG (M) SDN BHD's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***