



Certificate number: 74744/A2 BV

File number: .

Product code: 2204I

*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*

**Jouka Oy**

Ylojarvi - FINLAND

*for the type of product*

**BALL VALVES**

Ball valves for GUV unit in marine applications

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

IGF Code / NR529

*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: 05 Jun 2029**

**For Bureau Veritas Marine & Offshore,**

At BV TURKU (ABO), on 11 Sep 2025,

Miika KOKKO

***This certificate was created electronically and is valid without signature***



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 4 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

Ball Valves designed for GUV (gas valve unit) in marine applications.

#### 1.1 - Ratings

|                        |                                       |
|------------------------|---------------------------------------|
| Size range             | DN 10 to DN 100                       |
| Design Standard        | EN 1983 / EN 12516-2/1/3/<br>EN 13445 |
| Class range            | PN10, PN16, PN25                      |
| Temperature range (°C) | +0/+80                                |
| End connections        | Flanged, threaded                     |

| Model                        | DN in / DN out (mm) | PN (bar) | Temperature range (°C) | End connection |
|------------------------------|---------------------|----------|------------------------|----------------|
| H010/015HVR-T11-PP           | 10 / 15             | 25       | +0 to +80              | Threaded       |
| H025/025HVD1-T11-PP          | 25 / 25             | 25       | +0 to +80              | Flanged        |
| KG050/040HVD1-T11-PP-C-EE    | 50 / 40             | 10       | +0 to +80              | Flanged        |
| KG080/080HVD1-T17-PP-C-EE    | 80 / 80             | 10       | +0 to +80              | Flanged        |
| KG080/080HVD1-T17-PP-C-EE    | 80 / 80             | 16       | +0 to +80              | Flanged        |
| KG100/100HVD1-T22-PP-C-EFE   | 100 / 100           | 10       | +0 to +80              | Flanged        |
| KG100/100HVDIMD-T22-PP-C-EFE | 100 / 100           | 10       | +0 to +80              | Flanged        |
| KG100/100HVD1-T22-PP-C-EFE   | 100 / 100           | 16       | +0 to +80              | Flanged        |
| KG100/100HVDIMD-T22-PP-C-EFE | 100 / 100           | 16       | +0 to +80              | Flanged        |
| KG100/100HVD2-T22-PP-C-EFE   | 100 / 100           | 25       | +0 to +80              | Flanged        |
| KG100/100HVD2MD-T22-PP-C-EFE | 100 / 100           | 25       | +0 to +80              | Flanged        |
| K050/050HVD1E-T11-PP-C-V     | 50 / 50             | 10       | +0 to +80              | Flanged        |
| K050/050HVD1E-T11-PP-C-VA-E  | 50 / 50             | 10       | +0 to +80              | Flanged        |
| K050/050HVD1E-T11-PP-C-VA    | 50 / 50             | 16       | +0 to +80              | Flanged        |
| K080/080HVD1E-T17-PP-C-V     | 80 / 80             | 10       | +0 to +80              | Flanged        |
| K080/080HVD1E-T17-PP-C-VA-E  | 80 / 80             | 10       | +0 to +80              | Flanged        |
| K080/080HVD1E-T17-VA         | 80 / 80             | 16       | +0 to +80              | Flanged        |
| K100/100HVD1E-T22-PP-C-V GUV | 100 / 100           | 10       | +0 to +80              | Flanged        |
| K100/100HVD1E-T22-PP-C-VA    | 100 / 100           | 16       | +0 to +80              | Flanged        |
| K100/100HVD1E-T22-PP-C-VA    | 100 / 100           | 10       | +0 to +80              | Flanged        |
| K100/100HVD2E-T22-PP-C-VA    | 100 / 100           | 25       | +0 to +80              | Flanged        |
| K100/100HVD2E-T22-PP-C-V     | 100 / 100           | 25       | +0 to +80              | Flanged        |

#### 1.2 - Materials

| Part        | Material                                          |
|-------------|---------------------------------------------------|
| Body        | P355N, P265GH, P355GH, P235, 1.4404,<br>EN 1.4409 |
| Shaft       | EN 1.4404                                         |
| Seat        | PTFE+C                                            |
| Ball / Disc | EN 1.4404, CF8M, CF3M, EN 1.4409                  |
| O-ring      | Viton                                             |

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

## 2. DOCUMENTS AND DRAWINGS

| Drawing number | Description                          | Revision | Date       |
|----------------|--------------------------------------|----------|------------|
| ATA25667       | H010/015HVR-T11-PP                   | Rev.0    | 12/12/2022 |
| ATA25416       | H025/025HVD1-T11-PP                  | Rev.0    | 12/12/2022 |
| ATA30172       | KG050/040HVD1 -T11-PP-c-EE           | Rev.0    | 14/04/2022 |
| ATA30176       | KG080/080HVD1-T17-PP-C-EE            | Rev.0    | 30/05/2023 |
| ATA30443       | KG080/080HVD1-T17-PP-C-EE            | Rev.0    | 30/05/2023 |
| ATA30187       | KG100/100HVD1-T22-PP-C-EFE, DN100    | Rev.0    | 21/06/2021 |
| ATA30188       | KG100/100HVDIMD-T22-PP-C-EFE, DN100  | Rev.0    | 21/06/2021 |
| ATA30503       | KG100/100HVD1-T22-PP-C-EFE, DN100    | Rev.0    | 26/10/2023 |
| ATA30502       | KG100/100HVDIMD-T22-PP-C-EFE, DN100  | Rev.0    | 21/06/2021 |
| ATA30192       | KG100/100HVD2-T22-PP-C-EFE, DN100    | Rev.0    | 20/03/2023 |
| ATA30198       | KG100/100HVD2MD-T22-PP-C- EFE, DN100 | Rev.0    | 20/03/2023 |
| ATA21780       | K050/050HVD1E-T11-PP-C-V             | Rev.0    | 27/06/2023 |
| ATA28451       | K050/050HVD1E-T11-PP-C-VA-E          | Rev.0    | 27/06/2023 |
| ATA28482       | K050/050HVD1E-T11-PP-C-VA            | Rev.0    | 20/01/2022 |
| ATA21782       | K080/080HVD1E-T17-PP-C-V             | Rev.0    | 21/06/2023 |
| ATA28483       | K080/080HVD1E-T17-PP-C-VA-E          | Rev.0    | 20/01/2022 |
| ATA28453       | K080/080HVD1E-T17-VA                 | Rev.0    | 26/10/2023 |
| ATA21784       | K100/100HVD1E-T22-PP-C-V GVU         | Rev.0    | 22/06/2023 |
| ATA28455       | K100/100HVD1E-T22-PP-C-VA            | Rev.0    | 19/01/2023 |
| ATA28485       | K100/100HVD1E-T22-PP-C-VA            | Rev.0    | 19/01/2023 |
| ATA28484       | K100/100HVD2E-T22-PP-C-VA            | Rev.0    | 06/08/2022 |
| ATA22397       | K100/100HVD2E-T22-PP-C-V             | Rev.0    | 10/11/2023 |
| N0040405       | K032/032HVD1-T11-PP-C-AC             | REV A    | 28/10/2025 |
| N0041851       | K015/015HVD2-T11-PP-C-AC             | REV A    | 4/11/2025  |
| ATA25231       | KG050/040HVD1-T11-PP-C-E             | REV A    | 16/09/2025 |
| ATA25173       | KG080/080HVD1-T17-PP-C-E             | REV A    | 9/18/2025  |

- Manual of installation, use and maintenance N° K/R/HG100 Rev.A1 dated 08/01/2025.

- Manual of installation, use and maintenance N° K/R/HG080 Rev.A1 dated 08/01/2025.

- Manual of installation, use and maintenance N° K/R/HG050 Rev.A1 dated 08/01/2025.

- Mounting, operating and maintenance instructions dated 29/10/2021.

- Material datasheet for PTFE+C dated 19/01/2024

- Material datasheet Rubber compound | FKM 75 Compound 51414 N°M01010000001-en dated 14/08/2015

*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

3.1 - Not required.

3.2 - Fire resistance test not performed.

#### **4. APPLICATION / LIMITATION**

4.1 - May be used for the following services on board:

- Fuel gas and natural gas, N<sub>2</sub>.

4.2 - The valves may be installed in Class I or Class II systems according to the relevant requirements stated in *NR 467, Pt C, Ch 1, Sec 10* and corresponding requirements of *NR 529* and *IGF Code*.

4.3 - The valve body, disc/ball and seat should be suitable for the intended service. In particular the nature of materials, joints included, is to be selected according to the fluid to be conveyed and the temperature.

4.4 - The approval does not include any operating gear for remote control of the valves.

4.5 - The valves are to be installed according to the manufacturer's instructions and Bureau Veritas requirements.

4.6 - Installation on board ships where a fire safe design is required remains to be approved on a case by case basis.

4.7 - The use of stainless steel is restricted according to *NR 467, Pt C, Ch 1, Sec 10, Table 5* and corresponding requirements of *NR 529*.

4.8 - Threaded ends are not acceptable on lines with external diameter above 25 mm and shall only be used for accessory lines and instrumentation lines according to *NR 467, Pt C, Ch 1, Sec 10, Table 15* and corresponding requirements of *NR 529*.

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

5.1 - The products are to be supplied by **Jouka Oy** 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 *NR 320*.

5.3 - Bureau Veritas product certificate is required.

5.4 - Bureau Veritas certificate is required for materials of valve housings for Class I (DN $\geq$ 50) or Class II (DN $\geq$ 100). Materials of valve housings for Class I (DN <50) or Class II (DN <100) and for other parts 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 shipside below the load waterline are to be tested by hydraulic pressure not less than 0.5 MPa

5.6 - For information, **Jouka Oy** has declared to Bureau Veritas the following production site:

**Jouka Oy:**  
**Somerotie,**  
**33470 Ylojarvi,**  
**FINLAND**

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

Each valve shall be permanently marked with at least:

- Manufacturer's name or logo
- Type designation
- Maximum working Pressure
- Bureau Veritas' Mark

#### **7. OTHERS**

It is **Jouka Oy'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.

*This certificate supersedes a previous Type Approval Certificate N° 74744/A1 BV issued by the Society.*

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