



Marine &amp; Offshore

Certificate number: 08223/F0 BV

File number: ACM 145/2314/003

Product code: 2223I

*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*

**WOUTER WITZEL EUROVALVE B.V.**  
LOSSER - NETHERLANDS

*for the type of product*

**CHECK VALVES, NON-RETURN VALVES**  
Check Valve ECV wafer type without flanges, rubber seated

### Requirements:

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

*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: 03 Jun 2030**

**For Bureau Veritas Marine & Offshore,**  
At BV GRONINGEN, on 03 Jun 2025,  
Olaf RUITER

***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](http://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**

#### **Check Valve ECV wafer type without flanges, rubber seated**

The check valve ECV is self acting pivoting double valve discs, used to avoid unwanted back flow in a pipe, designed for steady flow conditions and can be installed in horizontal and vertical pipelines.

#### 1.1 - Ratings

Size	Maximum design pressure (bar)	Temperature range (°C)
DN 50 to DN 600	16	-30/+110 (EPDM) +0/+90 (NBR) +0/+110 (FPM)

#### 1.2 - Material specification

Part	Materials
Body	Grey cast iron (DN 50 - 200/2" to 8") GG 25 DIN 1691/JL 1040 EN 1561 Ductile cast iron (DN 250 - 600/10" to 24") GGG 40 DIN 1693/JS 1030 EN 1563 Al-Bronze casting DIN 1714/CC331G EN 1982 Stainless Steel 1.4408 / ASTM A351, CF8M
Disc	Al-Bronze casting DIN 1714/CC331G EN 1982/CC333G EN 1982 Stainless Steel 1.4408 / ASTM A351, CF8M
Seat	NBR / EPDM / FPM

### **2. DOCUMENTS AND DRAWINGS**

- Product data sheet N° PDS02.01.001 dated 12/01/2017
- Instruction, Installation and Maintenance Manual N° 100.03.06.300 dated 15/06/2019

### **3. TEST REPORTS**

Not required

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

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

Sea water and fresh water / Bilge and ballast transfer / Fuel-oil and lubricating oil transfer / Washing and fire extinguishing  
Deck foam systems / Domestic and sanitary systems / Non essential systems

4.2 - The check valves can be installed in Class II and Class III systems according to the relevant requirements stated in *NR 467, Pt C, Ch 1, Sec 10* and corresponding requirements in *NR 445*.

4.3 - The valves are not to be used as shipside valves.

4.4 - The use of ordinary cast iron, aluminium and stainless steel is to be restricted as per the Rules.

4.5 - The check valve body, disc 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.

4.6 - The valve is to be installed according to manufacturer's instructions and Society's Rule requirements

**5. PRODUCTION SURVEY REQUIREMENTS**

5.1 - The products are to be supplied by **WOUTER WITZEL EUROVALVE B.V.** 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 intended to be installed in Class II systems ( $DN \geq 100$ ). Materials of valve housings intended to be installed in Class II system ( $DN < 100$ ) and for other parts of Class II system are to be provided with Work's certificates.

5.5 - Each valve housing intended to be installed in Class II system is to be hydraulically pressure tested to 1.5 times the design pressure.

5.6 - For information, **WOUTER WITZEL EUROVALVE B.V.** has declared to Bureau Veritas the following production site:

**WOUTER WITZEL EUROVALVE B.V.**

**Industrieterrein De Pol 12  
7581 CZ LOSSER  
NETHERLANDS**

**6. MARKING OF PRODUCT**

The check valve shall be marked with:

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

**7. OTHERS**

It is **WOUTER WITZEL EUROVALVE B.V.**'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 the Type Approval Certificate N° 08223/E0 BV issued by the Society.*

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