



Marine & Offshore
Division

Certificate number: 01337/H0 BV

File number: ACM 145/1915/001

Product code: 2223H

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

SOC LA SAS

VIREY LE GRAND - FRANCE

for the type of product

CHECK VALVES, NON-RETURN VALVES

Antipollution non-return valves type EA, EB and ED (01 system)

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel 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: 01 Sep 2021

For BUREAU VERITAS,

At BV LYON, on 01 Sep 2016,

Jean-Marc Cabuzel



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 electronic version is available at: <http://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=shxelaqg9k>

BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Antipollution non-return and foot valves type EA, EB and ED (01, & 03 systems)

1.1 Design

- The non-return valve is designed for the protection of drinking water network against polluted backflow which has no recognized toxic or microbiological risks to human health. It is particularly suitable for mounting after water meter.

1.2 Type

- Antipollution non-return valves: 211, EA221B, EA223, EA251, EA253, EA271, EA453, EB281, EB281C, EA291NF, 601, 601V, EB901, EB911, ED2211, ED2231, EA251S, EA251SPU, EA251SPP, EA251BL, EA251PU, EA251PP, EA251CC, EB201, EB231, EB241, EB261, 281P.

1.3 Technical Description depending on type

| | |
|-----------------------|--------------------|
| Type | Non-return valves |
| System | 01 & 03 |
| Size | 1/4" to 10" |
| Max. Pressure (bar) | 10 or 16 |
| Max. Temperature (°C) | 80 or 100 |
| Connection | Flanged / Threaded |

1.4 Material specification

| | |
|------|---|
| Body | Brass/ Bronze casting / POM (Polyacetal) / Ductile/cast iron with epoxy coating |
| Disc | POM (Polyacetal) / Bronze casting / Brass |
| Seat | NBR/ EPDM/ FKM |

When other material combinations are used according to manufacturer's instructions, the BV agreement will be obtained.

2. DOCUMENTS AND DRAWINGS

Technical data sheets:

| Type | Reference | date |
|-------|-----------|------------|
| 201 | uk201 | 30/05/2013 |
| 211 | uk211 | 24/05/2011 |
| 2211 | uk2211 | 14/05/2009 |
| 221B | uk221b | 14/05/2009 |
| 231 | uk231 | 14/05/2009 |
| 241 | uk241 | 25/03/2015 |
| 251 | uk251 | 29/05/2012 |
| 251BL | uk251bl | 02/01/2013 |
| 251CC | uk251cc | 22/05/2015 |

| Type | Reference | Date |
|--------|-----------|------------|
| 251PP | uk251pp | 22/05/2015 |
| 251PU | uk251pu | 22/05/2015 |
| 251S | uk251S | 29/05/2012 |
| 251SPP | uk251spp | 29/05/2012 |
| 251SPU | uk251spu | 29/05/2012 |
| 261 | uk261 | 22/10/2009 |
| 271 | uk271 | 22/10/2009 |
| 281 | uk281 | 22/10/2009 |
| 281C | uk281c | 22/10/2009 |

| Type | Reference | Date |
|-------|-----------|------------|
| 281P | / | / |
| 291NF | uk291nf | 14/05/2009 |
| 601 | uk601 | 24/05/2011 |
| 601V | uk601v | 24/05/2011 |
| 901 | uk901 | 20/08/2012 |
| 911 | uk911 | 14/05/2009 |
| 2231 | uk2231 | 14/05/2009 |

- Manufacturer's catalogue dated 2010 - French version
- Technical data sheet Type 223, Reference N° uk223 dated 22/10/2009
- Technical data sheet Type 253, Reference N° uk253 dated 19/11/2010
- Technical data sheet Type 453, Reference N° uk453 dated 29/03/2012

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 May be used for the following services on board:

- Ballast and bilge, sea water and fresh water, domestic and sanitary systems.

4.2 The material is to be selected according to the nature of the fluid to be conveyed, taking into account the service conditions indicated in the manufacturer's catalogue for each type.

4.3 The devices are not to be used where their deterioration, in case of fire, would risk to jeopardize the subdivision integrity or the safety of the ship.

4.4 The non-return valves are not to be used as shipside valves.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supplied by **SOCLA SAS** in compliance with the type described in this certificate.

5.2 This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 **SOCLA SAS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

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

SOCLA SAS has declared to Bureau Veritas the following production site:

**SOCLA SAS: 365 Rue du Lieutenant Putier, BP 10273 CHALON SUR SAONE CEDEX, 71530 VIREY LE GRAND,
FRANCE**

6. MARKING OF PRODUCT

The product shall be marked with at least:

- Manufacturer's name or logo
- Type designation and size
- Max. working pressure

7. OTHERS

It is **SOCLA SAS** 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 Certificates N° 01337/G0 BV & 04114/E0 BV issued by the Society.

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