



Marine &amp; Offshore

Certificate number: 31757/B0 BV

File number: ACM 145/2505/02

Product code: 2202I

*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*

**AUTEXIER**  
CHAUNY - FRANCE

*for the type of product*

**GLOBE & ANGLE VALVES**

Flanged Straight Globe Valve with Union Bonnet type 102 & AU102  
Flanged Angle Globe Valve with Union Bonnet type 302 & AU302

### Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships

*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: 15 Jan 2023**

**For Bureau Veritas Marine & Offshore,**  
At BV VALENCIENNES, on 15 Jan 2018,  
Lucien Fratini



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

Flanged Straight Globe Valve with Union Bonnet type 102 & AU102

Flanged Angle Globe Valve with Union Bonnet type 302 & AU302

#### 1.1 Technical characteristics for straight valves type 102 & AU102

Type	Class Pressure	Max Working Pressure (bar)	Temperature range (°C)	DN	End connection
102	PN 30	30	-15 to 200	15 to 200	Flanged
AU102	PN 30	30	-10C to 200 -10 to 250 (AU102CØCL & AU102TØCL only)	15 to 65	Flanged

- The maximum working pressure and the temperature are not to exceed those specified by the manufacturer.

#### 1.2 Technical characteristics for angle valves type: 302 & AU302

Type	Class Pressure	Max Working Pressure (bar)	Temperature range (°C)	DN	End connection
302/302AU T	PN 20	20	-15 to 200	15 to 65	Flanged

- The maximum working pressure and the temperature are not to exceed those specified by the manufacturer.

- Flange according to ISO PN16

#### 1.3 Material specification

Part	Material
Body	Bronze CC499K / CC491K / Copper-aluminium CC332G
Seat	Bronze CC499K / Brass / Copper-aluminium CC332G
Disc	Bronze CC499K / Copper-aluminium CC332G / PTFE
Stem	Copper-aluminium CC332G / CW614N

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

### 2. DOCUMENTS AND DRAWINGS

- Manufacturer's specification (type 102) Ref. 102 family 13 Rev 08 dated 06/09/2012 (DN 15 to 65)
- Manufacturer's specification (type 102) Ref. 102 family 13 Rev 00 dated 09/09/2015 (DN 80 to 200)
- Manufacturer's specification (type AU102) Ref. AU102 family 13 Rev. 05 dated 17/01/2017 (DN 15 to 65)
- Manufacturer's specification (type AU102) Ref. AU102 family 13 Rev. 00 dated 10/09/2015 (DN 80 to 200)
- Manufacturer's specification (type 102CØCL, 102JØCL, 102TØCL) Ref. 102 family 13 Rev. 00 dated 09/02/2017 (DN 15 to 65)
- Manufacturer's specification (type 102CØCL, 102JØCL, 102TØCL) Ref. 102 family 13 Rev. 00 dated 09/02/2017 (DN 80 to 200)
- Manufacturer's specification (type AU102CØCL, AU102JØCL, AU102TØCL) Ref. AU102 family 12 Rev. 03 dated 10/02/2017 (DN 15 to 65)
- Manufacturer's specification (type 302TØ) Ref. 302 family 13 Rev. 01 dated 29/05/2015 (DN 15 to 65)
- Manufacturer's specification (type 302TØ) Ref. 302 family 13 Rev. 00 dated 14/04/2016 (DN 80 to 150)
- Manufacturer's specification (type AU302TØ) Ref. AU302 family 13 Rev. 00 dated 01/06/2015 (DN 15 to 65)
- Technical Sheet PTFE Rev. 0 dated 21/12/2017.

*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**

- N° 2012 E 132 dated 08/11/2012 witnessed by a BV Surveyor.
- N° 2012 E 135 dated 08/11/2012 witnessed by a BV Surveyor.
- The valves have not been fire tested.

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

4.1 May be used for the following services on board:

- Sea water and fresh water, compressed air, steam, domestic and sanitary systems, non essential systems.

4.2 The valves belong to class I or class II according to the relevant requirements stated in Pt C, Ch 1, Sec 10 of the Bureau Veritas Rules.

4.3 The valves body, ball and sealing should be of a suitable type for use with cargoes intended to be carried.

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

4.5 The valve is to be installed according to manufacturer's instructions and BV Rules.

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

5.1 The products are to be supplied by **AUTEXIER** 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.

For information, **AUTEXIER** has declared to Bureau Veritas the following production site:

**AUTEXIER**  
**93 rue Louis Blanc**  
**F-02 300 CHAUNY**  
**FRANCE**

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

The valve is to be permanently marked with at least:

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

### **7. OTHERS**

It is **AUTEXIER**'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° 31757/A0 BV issued by the Society.*

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