



Marine & Offshore

Certificate number: 31757/C0 BV

File number: ACM 145/2505/02

Product code: 22021

*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: 08 Nov 2027**

**For Bureau Veritas Marine & Offshore,**

At BV VALENCIENNES, on 08 Nov 2022,

Philippe Calbet

***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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This certificate consists of 4 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 C	PN30	30	-45 to 225	15	Flanged
102 J	PN30	30	-45 to 200	15	Flanged
102 T	PN30	30	-45 to 225	15	Flanged
102 C/J/T	PN30	30	-15 to 200	20 to 200	Flanged
102 C CL	PN30	30	-45 to 225	15	Flanged
102 J CL	PN30	30	-45 to 200	15	Flanged
102 T CL	PN30	30	-45 to 225	15	Flanged
102 J/C/T CL	PN30	30	-15 to 200	20 to 200	Flanged
AU102 C	PN30	30	-10 to 225	15	Flanged
AU102 J	PN30	30	-10 to 200	15	Flanged
AU102 T	PN30	30	-10 to 225	15	Flanged
AU102 C/J/T	PN30	30	-10 to 200	20 to 200	Flanged
AU102 C CL	PN30	30	-10 to 225	15	Flanged
AU102 J CL	PN30	30	-10 to 200	15	Flanged
AU102 T CL	PN30	30	-10 to 225	15	Flanged
AU102 C/J/T CL	PN30	30	-10 to 200	20 to 200	Flanged

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

Design standards : document n° 731DA02 Rev. 09 dated 12/11/2021

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

Type	Class Pressure	Max. Working Pressure (bar)	Temperature Range (°C)	DN	End Connection
302 C	PN20	20	-45 to 225	15	Flanged
302 J	PN20	20	-45 to 200	15	Flanged
302 T	PN20	20	-45 to 225	15	Flanged
302 C/J/T	PN20	20	-15 to 200	20 to 65	Flanged
302 C/J/T	PN30	30	-15 to 200	80 to 150	Flanged
302T50S	PN20	20	-15 to 200	50	Flanged
302T50L	PN20	20	-15 to 200	50	Flanged
302 C CL	PN20	20	-45 to 225	15	Flanged
302 J CL	PN20	20	-45 to 200	15	Flanged
302 T CL	PN20	20	-45 to 225	15	Flanged
302 C/J/T CL	PN20	20	-15 to 200	20 to 150	Flanged
AU302 C	PN20	20	-10 to 225	15	Flanged
AU302 J	PN20	20	-10 to 200	15	Flanged
AU302 T	PN20	20	-10 to 225	15	Flanged
AU302 C/J/T	PN20	20	-10 to 200	20 to 65	Flanged
AU302 C/J/T	PN30	30	-10 to 200	80 to 150	Flanged
AU302T50S	PN20	20	-10 to 200	50	Flanged
AU302T50L	PN20	20	-10 to 200	50	Flanged

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

Design standards : document n° 731DA02 Rev. 09 dated 12/11/2021

#### 1.3 Material specification

Part	Material
Body	Bronze CC491K / Copper-aluminium CC333G
Seat	Bronze CC491K / Brass / Copper-aluminium CC333G
Disc	Bronze CC491K / Copper-aluminium CC333G / PTFE
Stem	Copper-aluminium CC333G / CW614N

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

## **2. DOCUMENTS AND DRAWINGS**

### 2.1 Drawings

<b>Reference Number</b>	<b>Date of issuance</b>
102 C/J/T Rev. 09 - DN 15 to 65	12/10/2021
102 C/J/T Rev. 01 - DN 80 to 200	12/10/2021
102 C/J/T CL Rev. 04 - DN 15 to 65	14/10/2021
102 C/J/T CL Rev. 01 - DN 80 to 200	14/10/2021
AU102 C/J/T Rev. 06 - DN 15 to 65	12/10/2021
AU102 C/J/T Rev. 03 - DN 80 to 200	12/10/2021
AU102 C/J/T CL Rev. 04 - DN 15 to 65	14/10/2021
AU102 C/J/T CL Rev. 01 - DN 80 to 200	14/10/2021
302 C/J/T Rev. 02 - DN 15 to 65	28/04/2022
302 C/J/T Rev. 02 - DN 80 to 100	28/04/2022
302 C/J/T Rev. 02 - DN 125 to 150	28/04/2022
302T50S Rev. 02 - DN 50	30/06/2022
302T50L Rev. 04 - DN 50	30/06/2022
302 C/J/T CL Rev. 01 - DN 15 to 65	28/04/2022
302 C/J/T CL Rev. 01 - DN 80 to 100	28/04/2022
302 C/J/T CL Rev. 01 - DN 125 to 150	28/04/2022
AU302 C/J/T Rev. 01 - DN 15 to 65	28/04/2022
AU302 C/J/T Rev. 01 - DN 80 to 100	28/04/2022
AU302 C/J/T Rev. 01 - DN 125 to 150	28/04/2022
AU302T50S Rev. 01 - DN 50	30/06/2022
AU302T50L Rev. 01 - DN 50	30/06/2022

### 2.2 Technical documents

- Technical Sheet PTFE Rev. 0 dated 21/12/2017.
- Technical sheet FPM 6701 Rev. 0
- Technical sheet FPM 6801 Rev. 0
- Technical sheet FPM 6901 Rev. 0
- Installation manual - 0904DA124 Rev. 07 dated 06/07/2021
- Operating manual - 0904DA88 Rev. 06 dated 06/07/2021
- Material data sheet for standard PTFE and premium PTFE dated 09/09/2022

*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 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 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 Society's Rule requirements.
- 4.6 - Bilge valves will be fitted in association with a non-return valve.

**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. 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, **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
- Maximum working Pressure
- 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/B0 BV issued by the Society.*

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