



Marine & Offshore

Certificate number: 51490/B0 BV

File number: ACM 145/2549/02

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

AUTEXIER
CHAUNY - FRANCE

for the type of product

BALL VALVES

Ball valves A70, AU70, A71 & AU71.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships
Bureau Veritas Rules for the Classification of Offshore Units
Bureau Veritas Rules for the Classification of Naval 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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=pc1pmk15g1>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Ball valves : A70, AU70, A71 & AU71.

1.1 Design Specifications

Type	Class Pressure	MAX Working Pressure (bar)	Temperature Range (°C)	DN	End Connection
A70	PN30	30	-15 to 200	08 to 100	Threaded
AU70	PN30	30	-10 to 200	08 to 100	Threaded

A71	PN30	30	-15 to 200	15 to 100	Flanged
AU71 - ISO	PN30	30	-10 to 200	15 to 100	Flanged
AU71 - ASA	PN30	30	-10 to 200	15 to 100	Flanged
AU71.50/51RL	PN16	16	-10 to 200	50	Flanged
AU71 MN	PN30	30	-15 to 200	25 to 100	Flanged

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

Design standards : A70, AU70, A71 et AU71 : NF E29-465, NF E 29 305-1, NF E 29 305-2, NF E 29 305-3, NF EN ISO 5211 and Méthode expérimentale de conception (731DA02 Rev.09 dated 12/11/2021)

1.2 Material specification

Part	Material
Body	Copper-aluminium CC333G, Bronze CC491K
Stem	Copper-aluminium CC333G, Brass C70
Ball	Copper-alluminium CC333G
Seat	PTFE
Seals	FPM, PTFE

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

2. DOCUMENTS AND DRAWINGS

- N° A70 Rev. 09 dated 31/03/2022
- N° AU70 Rev. 09 dated 31/03/2022
- N° A71 Rev. 15 dated 21/04/2022
- N° AU71 ISO Rev. 15 dated 21/04/2022
- N° AU71 MN Rev. 01 dated 07/01/2022
- N° AU71 ASA Rev. 01 dated 07/01/2022
- N° AU71 50RL Rev. 01 dated 04/10/2021
- Operating manual - 0904DA136 Rev. 06 dated 06/07/2021
- Installation manual - 0904DA135 Rev. 07 dated 06/07/2021
- FPM 6701 datasheet - FPM6701 Rev. 0
- FPM 6801 datasheet - FPM6801 Rev. 0
- FPM 6901 datasheet - FPM6901 Rev. 0
- Standard virgin PTFE dated 09/09/2022
- Premium virgin 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

- Test report N° 2015-06 dated 26/11/2015 witnessed by a BV Surveyor.
- Test report N° 2015-07 dated 26/11/2015 witnessed by a BV Surveyor.
- Test report N° 2017-01 dated 20/01/2017 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, fuel oil and lubricating oil, hydraulic oil.
- 4.2 - The valves belong to class I, class II or class III according to the relevant requirements stated in Part C, Chapter 1, Sec 10 of the BV Rules. Valves fitted on the ship side and valves under static pressure on fuel oil tanks or lub oil tanks belong to class II.
- 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.
- 4.6 - Threaded connections are not to be used on flammable oil piping systems.

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 No. 51490/A0 BV issued by the Society.

*** END OF CERTIFICATE ***