



Marine & Offshore

Certificate number: 64392/A0 BV

File number: .

Product code: 2205I

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

BUTTERFLY VALVES

Models A601/602, A601M/602M, AU601/602, AU601M/602M

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
Bureau Veritas Rules for the Classification of Yachts

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: 29 Jul 2026

For Bureau Veritas Marine & Offshore,
At BV VALENCIENNES, on 29 Jul 2021,
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

Butterfly valves models A601/602, A601M/602M, AU601/602, AU601M/602M

1.1 Ratings

Size range (mm)	32, 40, 50, 65, 80, 100, 125, 150, 200, 250
Design Standard	EN12516-3 V2003
Class range	#150
Maximum Working Pressure	16 bar 10 bar for DN 200 & 250
Design Temperature (°C)	-10/+100 -15/+100 for models A601/602 & A601M/602M
End connections	Flanged

1.2 Materials

Part	Materials
Body	Aluminium Bronze / Bronze / Copper-Nickel
Stem	Aluminium Bronze
Wedge disc	Aluminium Bronze / Bronze / Copper-Nickel
Cuff	EPDM / FPM / NBR

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

2. DOCUMENTS AND DRAWINGS

- Catalogue N°AU601 Rev. 09 dated 04/05/2021: type AU601
- Catalogue N°AU602 Rev. 06 dated 04/05/2021: type AU602
- Catalogue N°A601 Rev. 09 dated 04/05/2021: type A601
- Catalogue N°A602 Rev. 06 dated 04/05/2021: type A602
- Catalogue N°AU601 Rev. 04 dated 04/05/2021: type AU601M
- Catalogue N°AU602 Rev. 08 dated 04/05/2021: type AU602M
- Catalogue N°A601 Rev. 02 dated 04/05/2021: type A601M
- Catalogue N°A602 Rev. 02 dated 04/05/2021: type A602M
- Catalogue N°AU602 Rev. 01 dated 04/05/2021: type AU602M - ASA 150
- Catalogue N°AU602 Rev. 01 dated 04/05/2021: type AU602 - ASA 150
- Instructions of use for butterfly valves N°0904DA114E Rev. 03 dated 03/12/2020
- Instructions of assembly and maintenance for butterfly valves N°0904DA113E Rev. 05 dated 17/03/2021
- Material datasheet for EPDM N°EPDM-008/1
- Material datasheet for NBR N°NBR-004/1

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.

Fire resistance test not performed.

4. APPLICATION / LIMITATION

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

- Water-based fluids - Sea water and fresh water

4.2 - The valves belong to Class I, Class II and Class III according to the relevant requirements stated in Part C, Ch 1, Sec 10. Valves fitted on the ship side and collision bulkhead, and valves fitted on fuel oil and lub oil tanks under static pressure belong to Class II.

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 - Bilge valves will be fitted in association with a non-return valve.

4.6 - The valves are to be installed according to the manufacturer's instructions and Society's Rule requirements.

4.7 - Installation on board ships where a fire safe design is required remains to be approved on a case by case basis.

4.8 - The use of stainless steel and grey cast iron is to be restricted as per the BUREAU VERITAS Rules.

4.9 - When the butterfly valves are not fitted with flanges their use may be accepted as shipside valves provided that arrangements are made to allow a possible disassembling at sea of the pipes immediately inboard without any risk of flooding.

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 BV Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - BV Certificate is required for materials of valve housings of class I (DN \geq 50) or class II (DN \geq 100). Materials of valve housings of class I (DN <50) or class II (DN <100) and for other parts 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

Each valve shall 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.

*** END OF CERTIFICATE ***