Marine & Offshore

Certificate number: 41078/B0 BV
File number: ACM 145/1915/002
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

WATTS Industries France

VEDENE - FRANCE

for the type of product

CHECK VALVES, NON-RETURN VALVES

Antipollution reduced pressure backflow preventers type BA and CA

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: 30 Mar 2026

For Bureau Veritas Marine & Offshore,
At BV LYON, on 30 Mar 2021,
Yann Kremplewicz

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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Antipollution reduced pressure backflow preventers type BA and CA

1.1 Design

A backflow preventer protects the drinking water network by interrupting the continuity of the supply to the user, emptying and evacuating to waste in case of danger of water being turned back into the main pipeline.

1.2 Type

Antipollution backflow preventers: BA BM & BA BM CD

1.3 Technical Description depending on type

Type	BA with control cocks
Size	1/2" to 10"
Max. Pressure (bar)	10
Max. Temperature (°C)	65
End Connection	Flanged/ Threaded

1.4 Material specification

Part	**Material**
Body	Bronze casting/ Brass
Disc	POM (Polyacetal)/ PPO (polyphenylene oxide)
Seat	NBR/ EPDM

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

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue 2010 issue - French version.
- Drawing N° BABM E001 dated 14/03/2014
- Drawing N° BABM E002 dated 14/03/2014
- Drawing N° BABM E003 dated 14/03/2014
- Drawing N° BABM SO E000 dated 14/03/2014

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 service on board:

- Fresh water.

4.2 - The equipments belong to Class III according to the relevant requirements stated in Part C, Ch 1, Sec 10

4.3 - The backflow preventers (BA BM) must be equipped with accessories such as stop valve and strainer with drain cock (upstream) and stop valve (downstream).

4.4 - The antipollution reduced pressure backflow preventers are to be installed horizontally.

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

5. PRODUCTION SURVEY REQUIREMENTS

5.1 - The products are to be supplied by **WATTS Industries France** in compliance with the type described in this certificate and in compliance with the requirements stated on the front page of this certificate. This type of product is within the category HBV of Bureau Veritas Rule Note NR 320.

5.2 - **WATTS Industries France** has to make the necessary arrangements to have its works recognized by BUREAU VERITAS in compliance with the requirements of NR 320 for HBV products.

5.3 - No Bureau Veritas Certificate is required.

5.4 - For information, **WATTS Industries France** 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 **WATTS Industries France** '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° 41078/A0 BV issued by the Society.

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