



Marine & Offshore

Certificate number: 10289/D1 BV

File number: ACM 145/0712/002

Product code: 2223I

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

GEDIK TERMO VANA SAN. VE TIC. A.S.
SAKARYA - TURKEY

for the type of product

CHECK VALVES, NON-RETURN VALVES

Check valves TCVA 13F, TCVA 25F & TCVA 36F

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: 14 Dec 2023

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 04 Aug 2020,

Gurcan Yilmaz



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=haajrknciu>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Check valves TCVA 13F, TCVA 25F & TCVA 36F

- Straight designed

1.1 Technical characteristics

Codes	TCVA 13F	TCVA 25F	TCVA 36F
Size	DN 15 to DN 300	DN 15 to DN 300	DN 15 to DN 300
Pressure rating	PN 16	PN 25	PN 40
Temperature range (°C)	-20 / +300	-20 / +350	-20 / +400
Ends	Flanged, threaded	Flanged, threaded	Flanged, threaded

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

1.2 Material specification

Codes	TCVA 13F	TCVA 25F	TCVA 36F
Body	Cast iron GG 25	Nodular cast iron GGG40.3	Cast steel GS-C 25
Disc	St 52/ Stainless steel 1.4016	St 52/ Stainless steel 1.4016	Stainless steel 1.4016
Stem	Stainless steel 1.4021	Stainless steel 1.4021	Stainless steel 1.4021
Seating	Stainless steel 1.4057	Stainless steel 1.4057	Stainless steel 1.4057
Ring	Graphited	Graphited	Graphited

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

2. DOCUMENTS AND DRAWINGS

- Technical specifications sheets as provided on 13/07/2018

- Instruction manual N° GP00-7.2-F04 Rev.2 dated 20/12/2016

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

- Hydrostatic test report N° VTB-001/2017 dated 08/06/2017

- Hydrostatic test report N° VTB-002/2017 dated 08/06/2017

- Hydrostatic test report N° VTB-003/2017 dated 08/06/2017

4. APPLICATION / LIMITATION

4.1 May be used for the following services on board:

- Shipside valves, fuel oil, lubricating oil, thermal oil, ballast and bilge, sea water and fresh water, compressed air, steam, domestic and sanitary systems, non essential systems.

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

4.3 The conditions of use of cast iron are given in Pt C, Ch 1, Sec 10 Table 5 of the Bureau Veritas Rules.

4.4 The valve body, disc and seat should be suitable for the intended service.

4.5 Assembly instructions given by the manufacturer are to be complied with.

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 **GEDIK TERMO VANA SAN. VE TIC. A.S.** 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 Certificate is required for materials of valve housings of class I (DN≥50) or class II (DN≥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.

For information, **GEDIK TERMO VANA SAN. VE TIC. A.S.** has declared to Bureau Veritas the following production site:

GEDIK TERMO VANA SAN. VE TIC. A.S.:
YAYALAR CAD. NO:78 PENDIK
81520 ISTANBUL, TURKEY

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 **GEDIK TERMO VANA SAN. VE TIC. A.S.**'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° 10289/D0 BV issued by the Society.

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