

MARINE DIVISION

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Certificate number: 10289/B0 BV

File number : ACM 145/0712/002

Product code : 22021

This certificate is not valid when presented without the full attached schedule composed of 7 sections

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

GEDIK DOKUM VE VANA SAN. VE TIC. A.S.
ISTANBUL - TURKEY

for the type of product

GLOBE VALVES

Globe valves Code C 1010 and S 1010

Regulations and standards :

BUREAU VERITAS Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 29 Aug 2011

At Paris la Défense, on : 29 Aug 2006

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV ISTANBUL
Surveyor : T. ERDEN



J. BENOIT



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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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

Globe valves Code C 1010 and S 1010

> Straight designed

1.1 Technical characteristics

Codes	C 1010	S 1010
Size	DN 15 to DN 300	DN 15 to DN 300
Pressure rating	PN 16 PN 10 (DN 250/DN 300)	PN 25/40
Temperature range (°C)	-20 / +300	-20 / +400
Ends	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	C 1010	S 1010
Body	Cast iron GG 25	Cast steel GS-C 25
Disc	St 52/ Stainless steel 1.4016	St 52/ Stainless steel 1.4016
Stem	Stainless steel 1.4021	Stainless steel 1.4021
Seating	Stainless steel 1.4057	Stainless steel 1.4057
Ring	Graphited	Graphited

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

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue pages 5 and 6.

3. TEST REPORTS

Bureau Veritas qualification tests carried in the manufacturer's own laboratory in the presence of a Society's Surveyor and found satisfactory.

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 I, 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 I, 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 valves are to be manufactured, tested and inspected according to the requirements of Bureau Veritas Rules for the Classification of Steel Ships. Arrangements shall be made for a Society's Surveyor to carry out surveys at manufacturer's works or relevant audits when an alternative survey scheme, BV Mode I, has been arranged.

5.2 Bureau Veritas 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.

5.3 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.

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

7.1 This approval is given on the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the products and of the conditions of this approval.

7.2 This certificate supersedes the Type Approval Certificate N° 10289/A0 BV issued on 06/10/2000 by the Society.

*** END OF CERTIFICATE ***

