DNV BUSINESS ASSURANCE

EC TYPE-EXAMINATION CERTIFICATE

Certificate No. ***109448-2012-CE-ITA-ACCREDIA***

This Certificate consists of 3 pages

This is to certify that the product(s)

Valves

with name and/or type designation(s)

Butterfly valves, wafer type and lug type

Manufactured by

Valvorobica Industriale S.p.A.

Via G. Falcone, 2 - 24050 Zanica (BG) - Italy

has been assessed with respect to the conformity assessment procedure described in annex III (Module B) of Council Directive 97/23/EC on Pressure Equipment, as amended, and found to comply

Further details are given overleaf

Initial Certification date:

2011-12-29

This Certificate is valid until:

2021-12-29

CE

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N°003 A PRD N°003 B
SGA N°003 D SSI N°002 G
SCR N°004 F FSM N°001 I

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD, PRS, ISP e LAB,di MLA IAF per gli schemi di accreditamento SGQ, SGA, SSI, FSM e PRD e di MRA ILAC per gli schemi di accreditamento LAB

Place and date:

Agrate Brianza, 2011-12-29

for the Notified Body 0496:

DET NORSKE VERITAS Italia S.r.l.

Livio Riitto
Technical Reviewer

Renato Grottola
Management Representative

Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction may render this certificate invalid. The digitally signed and electronically distributed document is the original and valid certificate.

Jurisdiction

Application of Directive 97/23/EC and Decreto Legislativo n.93 of 25 February 2000

Certificate history

Revision	Description	Issue Date
-	Original certificate	2011-12-29

Products covered by this Certificate

Models	Pressure rating	Dimensional range
Wafer type butterfly valves	PN 10	Up to DN 600
Wafer type butterfly valves	PN 16	Up to DN 600
Lug type butterfly valves	PN 10	Up to DN 600
Lug type butterfly valves	PN 16	Up to DN 600

Body material and min/max allowable temperature:

- EN 1563 EN-GJS-400-15 -10 to 200°C
- EN 1563 EN-GJS-400-18 -10 to 200°C

Temperature limitations

For butterfly valves with NBR seal max. design temperature shall be 80°C.

For butterfly valves with EPDM seal max. design temperature shall be 130°C.

For butterfly valves with FKM seal max. design temperature shall be 200°C.

Fluids

Group 2 liquids in general and a restricted number of group 1 toxic liquids as specified in the technical file.

Category

Up to II.

Main reference standard

EN 593, API 609, EN 1092-2, EN 12266-1, EN12516-4, EN 558, ASME B 16.42.

Tests carried out on prototype(s)

Type approval tests have been performed as shown on assessment reports dated 19 June 2008 and 09 March 2011.

TYPE APPROVAL DOCUMENTATION

Assembly drawings

FD701-T-10-(50-350)-00, FD701-T-10-(400-600)-00, FD701-T-16-(50-350)-00, FD701-T-16-(400-600)-00, FD702-T-10-(50-350)-00, FD702-T-10-(400-600)-00, FD702-T-16-(50-350)-00, FD702-T-16-(400-600)-00, FD705-T-10-(50-300)-00, FD705-T-16-(50-300)-00, FD706-T-10-(50-300)-00, FD706-T-16-(50-300)-00.

Document	Revision	Date	Title
Technical construction file	December 2011	14.12.2011	Technical construction file for butterfly valves

Terms and conditions

The certificate is subject to the following terms and conditions:

- **In case of damages caused by defective products, directive 85/374/EEC, as amended, will apply**
- The Certificate is only valid for the product(s) listed above
- The valves classified according to PED Art. 3.3 must not bear CE marking.
- The internal of the valves are excluded from the certificate.
- Valves are not suitable for fatigue loading, creep conditions, fire testing, fire hazard environment, corrosive or erosive service, transporting fluids with abrasive solids.

The following may render this Certificate invalid:

- Changes in the design or construction of the product(s)
- Changes or amendments to the referenced directive(s)
- Changes or amendments in the standard(s) which form the basis for documenting compliance with the essential requirements of the directive(s)

Conformity declaration and marking of product

In order to fully meet with the requirements of the Directive and legally affix the CE mark, the manufacturer must take all measures necessary to ensure that the manufactured product comply with the technical documentation and with the requirements of the Directive and finally draw up an EC declaration of conformity.

END OF CERTIFICATE