DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Certificate No.102762-CE-ARG-DNV
This Certificate consists of 4 pages

This is to certify that the products

Pressure Accessory

With type designations

Ball Valves Model 82B, 83B

Manufactured by

VALVULAS WORCESTER DE ARGENTINA S.A

Osvaldo Cruz 3333
Ciudad Autonoma de Buenos Aires
Argentina

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

Place and date:
Høvik, 2011-09-12

This Certificate is valid until:
2021-09-12

for
DET NORSKE VERITAS AS

Marianne Spæren
Certification Manager NACNO378

Notified Body No.:
0575

Torgny Segerstedt
Technical Reviewer

Notice: The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Jurisdiction

Application of Council Directive 97/23/EC of 29 May 1997 on Pressure Equipment, adopted as regulation of 1999-06-09 no. 721 ”Forskrift for Trykkpåkjent Utstyr” by the Norwegian Directorate of Civil Protection and Emergency Planning and by the Petroleum Safety Authority Norway.

Certificate history

Revision	Description	Issue Date
-	Original certificate	2011-09-12

Products covered by this Certificate

Product Name	Product Description	Product Version	Category	Applied Product Standards
Ball Valves	Ball Valves performed in stainless steel	Model 82B, Class 150, 3” Model 83B, Class 300, 3”	III	EN 12516-2 ASME B16.34 API 598

Design Data

Product	Maximum Allowable Pressure (PS)	Maximum/Minimum Allowable Temperature (TS)	Fluid	Fluid Group
Model 82B	19 bar g	60˚C/-46˚C	Gas and liquid	1 and 2
Model 83B	49 bar g	60˚C/-46˚C	Gas and liquid	1 and 2

Applications/Limitations

- Materials have been subject to Particular Material Appraisal

Tests carried out on prototype(s)

Product Name	Tests
Model 82B, 83B	Acc. to API 598

Production Site Name	Address
Valvulas Worcester de Argentina	Osvaldo Cruz 3333 Ciudad Autonoma de Buenos Aires Argentina

Inspection of manufacturing and testing of prototype(s) has been carried out by DNV Argentina, ref. Assessment Report dated 2011-05-13 (Model 82B) and 2011-08-18 (Model 83B)

Documents reviewed

Drawing/Document No	Rev.	Date	Title	Status *)
82-30-0002-B	0.A	2011-05-31	FLOATING BALL VALVE MOD.82 Ø3” – ANSI CLASS 150 – S.S	A
83-30-0002-B	0.A	2011-05-31	FLOATING BALL VALVE MOD.83 Ø3” – ANSI CLASS 300 – S.S	A
CRE8230B	0.A	2011-05-31	Calculation Report Ø3” Floating Ball Valve Full Bore - ANSI Class 150 – SS – Model 82	A
CRE8330B	0.A	2011-05-31	Calculation Report Ø3” Floating Ball Valve Full Bore - ANSI Class 300 – SS – Model 83	A

*) A = Approved, AC = Approved with comments, FI = For information

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 Certificate is concerned with the design and prototype testing of the product, only

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

This Certificate does not give the Manufacturer the right to CE mark and put on the market the product(s) listed on this Certificate. Only after the product(s) have been found to comply with the requirements in a following Conformity Assessment Module C1, D, E or F, the Manufacturer may draw up an EC declaration of conformity and legally affix the CE mark followed by the identification number of the Notified Body involved in these modules.

END OF CERTIFICATE