



DET NORSKE VERITAS

FULL PRODUCT QUALITY MANAGEMENT CERTIFICATE - EC

Certificate No. 104542-2011-CE-RGC-DNV
This Certificate consists of 3 pages

This is to certify that the Quality Management System of

JDV Control Valves Co., Ltd.

Taoyuan Hsien, Taiwan

for design, production and final product inspection/testing of

Ball-, Check-, Gate-, Globe- and Butterfly Valves

has been assessed with respect to

the conformity assessment procedure described in Annex III (Module H)
of Council Directive 97/23/EEC on Pressure Equipment, as amended,
and found to comply

Further details are given overleaf

Place and date:
Høvik 2011-10-10

This Certificate is valid until:
2014-10-10

for DET NORSKE VERITAS AS


for Marianne Spæren
Certification Manager NACNO378



Notified Body No.:
0575

Ping Cao
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.

HEAD OFFICE: Det Norske Veritas AS, Veritasveien 1, 1322 Høvik, Norway. Tel: +47 67 57 9900 Fax: +47 6757 9911 www.dnv.com

This Certificate has been digitally signed. See www.dnv.com/digitalsignatures for more info



Cert. No.: 104542-2011-CE-RGC-DNV
Project No.: PRJC-41180-2008-PRC-RGC

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-	Original certificate This certificate superseded the Certificate no. PED-H-139 issued by Det Norske Veritas dated 2008-10-10	2011-10-10

Products covered by this Certificate

Type of valves	Design Code	Size ²⁾³⁾	Class		Accepted for		Material in valve body	
					PED Category	Fluid	Material ¹⁾	Temperature range °C ⁴⁾
Ball	EN 13709 ASME B16.34 EN 12516-1 + 2 EN 12213-4	DN25 ↓ DN600	#150 ↓ #150 0	PN10 ↓ PN100	III	Group I and II	A 105 A 182 F51 A 216 WCB A 217 WC6 A 217 WC9 A 351 CF3 A 351 CF3M A 351 CF8 A 351 CF8M A 351 CG8M A 352 LCB A 352 LCC A 995 CD3MN	0 – 425 0 – 315 0 – 425 0 – 595 0 – 595 Min. ⁵⁾ – 425 Min. ⁵⁾ – 455 Min. ⁵⁾ – 538 Min. ⁵⁾ – 538 Min. ⁵⁾ – 538 -46 – 345 -46 – 345 0 - 50
Check	BS 1868 ASME B16.34 EN 12516-1 + 2 EN 12213-4	DN25 ↓ DN600	#150 ↓ #150 0	PN10 ↓ PN100	III	Group I and II		
Gate	EN 1171:2002 EN 1984:2000 ASME B16.34 API 600 EN 12516-1 + 2 EN 12213-4	DN25 ↓ DN600	#150 ↓ #150 0	PN10 ↓ PN100	III	Group I and II		
Globe	BS 1873 ASME B16.34 EN 12516-1 + 2 EN 12213-4	DN25 ↓ DN600	#150 ↓ #150 0	PN10 ↓ PN100	III	Group I and II		
Butterfly	API 609	DN 50 ↓ DN 600	#150 ↓ #600		III	Group I and II		

Notes:

- 1) Material must comply with the relevant PMA documents (Particular Material Appraisal) issued by DNV
- 2) The range of sizes shall not exceed the limitations specified in applied design standard/code
- 3) Valves with nominal diameter smaller than DN25 (1") are covered by Article 3 Paragraph 3 in PED when the valves are intended for group 1 gases. Those valves shall not be CE-marked and are therefore excluded from this certificate.
- 4) Some material grades are accepted used for temperature ranges outside the temperature ranges as specified below provided criteria in the PMA-document are considered
- 5) Minimum temperature is limited to criteria in applied design standard / code



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Sites covered by this certificate

Site Name	Address
JDV Control Valves Co., Ltd.	No. 2-2, Lane 292, Hsin Nung Rd.,327,Taoyuan Hsien,Taiwan

Performed Audits

DNV has carried out the Assessment of the Manufacturers Quality System to verify that the relevant requirements relating to the above listed product(s) have been implemented

Assessment has been carried out on the production site by DNV Taipei, as described in Assessment Report dated 2011-09-16

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 products and/or manufacturing premises listed above.
- The Manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient.
- The Manufacturer shall inform the local DNV Office of any intended updating of the quality system and DNV will assess the changes and decide if the certificate remains valid.
- The Manufacturer shall inform the local DNV Office of any addition of products outside the scope for this Certificate and DNV will decide if a reassessment of the quality system is required.
- Periodical audits will be held, in order to verify that the Manufacturer maintains and applies the quality system DNV reserves the right, on a spot basis or based on suspicion, to pay unannounced visits.
- The local DNV Office must be informed of any sub-suppliers for main pressure retaining parts.
- The manufacturer shall inform the local DNV Office of the intended schedule of production for pressure vessels and directly heated vessels with risk for over-heating in Category III covered by this Certificate
- The final assessment of every single equipment (if directly heated vessels with risk for overheating) shall be subject for surveillance by DNV

The following may render this Certificate invalid:

- Changes in the quality system affecting production.
- Periodical audits not held within the allowed time window.

Conformity declaration and marking of product

When meeting with the terms and conditions above, the Manufacturer may draw up an EC declaration of conformity and legally affix the CE mark followed by the Notified Body identification number of DNV (0575)

END OF CERTIFICATE