

FULL QUALITY ASSURANCE CERTIFICATE

Certificate No.:
8402-2016-CE-RGC-ACCREDIA
This certificate consists of 4 pages

Initial date:
27 June, 2016

Valid:
27 June, 2016 – 26 June, 2019

This is to certify that the quality system of

Zhedong High and Middle Pressure Valve Co.,Ltd.

Dongou Industrial Zone, Oubei, Yongjia, Zhejiang, P. R. China

has been assessed and found to comply with respect to the conformity assessment procedure described in:

ANNEX III MODULE H OF DIRECTIVE 97/23/EC ON PRESSURE EQUIPMENT

This certificate is valid for the following scope:

Type of Pressure Equipment	Pressure Accessory
Product Name	Valve and Strainer

Place and date:
Vimercate 5 July, 2016



SGQ N° 003 A	EMAS N° 009 P
SGA N° 003 D	PRD N° 003 B
SGE N° 007 M	PRS N° 094 C
SCR N° 004 F	SSI N° 002 G

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

For the notified body 0496:
**DNV GL Business Assurance Italia
S.r.l.**

Nicola Privato
Management Representative

Certificate No.: 8402-2016-CE-RGC-ACCREDIA
 Place and date: Vimercate 5 July, 2016
 Revision No: 00

Jurisdiction

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

Certificate history

Revision	Description	Issue date
00	Original certificate	5 July, 2016

Products covered by this certificate

Product name	Product description	Type of material	Applied product standard
Valve	Ball valve	Ferritic steels austenitic steels	API 6D API 608 ISO17292
	Gate Valve		API 6D API600 EN1984
	Globe valve		BS 1873 EN13709
	Check valve		API 6D BS 1868 EN13709
	Plug valve		API 6D API 599
	Y-strainer		ASME B16.34 EN13709

Sites covered by this certificate

Site name	Site Address	Audited by	Date	Report ref
Zhedong High and Middle Pressure Valve Co., Ltd.	Dongou Industrial Zone, Oubei, Yongjia, Zhejiang, P. R. China	Mavis Ma in DNV GL Shanghai	2016-06-15	Audit report

Design data

Maximum allowable pressure (PS)	Minimum/maximum allowable temperature (TS)	Fluid group
Class150/300/600/900/1500/2500	ASTM A216 Grade WCB 0 to + 425 °C ASTM A105 0 to + 425°C ASTM A351 grade CF3 -50 to + 425 °C ASTM A351 grade CF8 -50 to + 538 °C ASTM A351 grade CF3M -50 to + 455 °C ASTM A351 grade CF8M -50 to + 538 °C ASTM A352 grade LCB -46 to + 345 °C	1/2
PN 10/16/25/40/64/100	EN10213 grade 1.0619 0 to 400 °C EN10213 grade 1.4308 -29 to 425 °C EN10213 grade 1.4408 -29 to 425 °C	1/2

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Range of products covered by this certificate

Group No.	Type of valve	Rating						Design Standard
		Class 150	Class 300	Class 600	Class 900	Class 1500	Class 2500	
01	Casting ball Valves	DN32 ~ 300	DN32 ~ 300	NA	NA	NA	NA	API 608
02		DN50 ~ 900	DN50 ~ 900	DN50 ~ 900	DN50 ~ 600	DN50 ~ 400	DN50 ~ 300	API 6D
03	Casting globe Valves	DN32 ~ 400	DN32 ~ 300	DN32 ~ 300	DN80 ~ 350	DN32 ~ 350	NA	BS 1873
04	Casting check Valves	DN32 ~ 600	DN32 ~ 600	DN32 ~ 600	DN80 ~ 600	DN32 ~ 600	DN32 ~ 300	BS 1868
05		DN50 ~ 900	DN50 ~ 900	DN50 ~ 600	DN50 ~ 600	DN50 ~ 600	DN50 ~ 300	API 6D
06	Casting gate Valves	DN32 ~ 600	DN32 ~ 600	DN32 ~ 600	DN32 ~ 600	DN32 ~ 600	NA	API 600
07		DN50 ~ 900	DN50 ~ 900	DN50 ~ 900	DN50 ~ 600	DN50 ~ 600	NA	API 6D
08	Casting plug Valve	DN50 ~ 600	DN50 ~ 900	DN50 ~ 900	DN50 ~ 400	DN50 ~ 300	DN50 ~ 300	API 6D
09		DN50 ~ 600	DN50 ~ 600	DN50 ~ 600	DN50 ~ 400	DN50 ~ 300	DN50 ~ 300	API 599
10	Y-Strainer	DN32 ~ 450	DN32 ~ 450	DN32 ~ 450	DN80 ~ 450	DN32 ~ 450	NA	ASME B16.34

Group No.	Type of valve	Rating						Design Standard
		PN10	PN16	PN25	PN40	PN63	PN100	
11	Casting ball Valves	NA	DN32 ~ 500	DN32 ~ 500	DN32 ~ 500	NA	NA	ISO17292
12	Casting globe Valves	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	EN13709
13	Casting check Valves	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	EN13709
14	Casting gate Valves	DN32 ~ 900	DN32 ~ 900	DN32 ~ 900	DN32 ~ 900	DN32 ~ 600	DN32 ~ 600	EN1984
15	Y- strainers	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	DN32 ~ 400	EN13709

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Materials

The materials listed below have been subject to Particular Material Appraisal as required by PED Annex 1 Sec. 4.2b. The documents describe, in a complete and concise manner, the characteristics of the materials and their conformity to the directive No. 97/23/EC.

The materials subject to the Particular Material Appraisal may be used in pressure equipment in accordance with directive 97/23/EC and to the conditions as stated in the documents for the respective grades of material qualities.

Title	Rev.	Date
ASTM A216 Grade WCB	0	2016-05-30
ASTM A105	0	2016-05-30
ASTM A351 Grade CF3	0	2016-05-30
ASTM A351 Grade CF8	0	2016-05-30
ASTM A351 Grade CF3M	0	2016-05-30
ASTM A351 Grade CF8M	0	2016-05-30
ASTM A352 Grade LCB	0	2016-05-30
ASTM A193 Grade B7	0	2016-05-30
ASTM A193 Grade B7M	0	2016-05-30
ASTM A193 Grade B8	0	2016-05-30
ASTM A193 Grade B8M	0	2016-05-30
ASTM A320 Grade L7	0	2016-05-30
ASTM A320 Grade L7M	0	2016-05-30

Applications/limitations

- Material of non-harmonized standards must comply with the relevant PMA documents (Particular Material Appraisal) appraised by DNV GL Business Assurance Italia S.r.l.;
- The valves classified according to Directive 97/23/EC, Article 3.3, must not bear CE marking;
- Pressure-temperature rating shall be lesser than body rating and seat rating.

Terms and conditions for the certificate

The certificate is subject to the following terms and conditions:

- in case of damages caused by defective products, Council 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 DNV GL Certification (China) Co. Ltd. of any intended updating of the quality system and DNV GL Certification (China) Co. Ltd. will assess the changes and decide if the certificate remains valid;
- periodical audits will be held, in order to verify that the manufacturer maintains and applies the quality system. DNV GL Certification (China) Co. Ltd. reserves the right, on a spot basis or based on suspicion, to pay unannounced visits;
- DNV GL Certification (China) Co. Ltd. must be informed of any sub-suppliers for main pressure retaining parts.

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 (0496) of DNV GL Business Assurance Italia S.r.l.

END OF CERTIFICATE