

# EU-TYPE EXAMINATION CERTIFICATE – PRODUCTION TYPE

Certificate No.:  
10000381897-PA-ACCREDIA-CHN  
This certificate consists of 4 pages

Initial date:  
25 February, 2021

Validity:  
25 February, 2021 – 24 February, 2031

This is to certify that representative examples of products manufactured by

## **KACE Valves (Hangzhou) Co., Ltd.**

No. 16 Kanghui Road, Gongshu District, Hangzhou, Zhejiang, P.R.China

have been assessed with respect to the conformity assessment procedure described in

### **ANNEX III MODULE B – PRODUCTION TYPE OF DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT**

and found to comply with the requirements in Annex I – Essential Safety Requirements of the Directive.

The certificate is valid for the following products:

Type of Pressure Equipment	<b>Pressure Accessory</b>
Product Name	<b>valves</b>
Product Version	<b>Ball Valve</b>

Place and date:  
**Vimercate 26 February, 2021**



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

Member of MLA EA per gli schemi di accreditamento  
SGQ, SGA, PRO, PRS, SSP, GNG, LAB e LAT, di MLA DAF  
per gli schemi di accreditamento SGQ, SGA, SSI, PSM  
e PRO 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.: 10000381897-PA-ACCREDIA-CHN  
 Place and date: Vimercate 2021-02-26  
 Revision No.: 0.0

**Jurisdiction**

Application of Directive 2014/68/EU and Decreto Legislativo n. 26 of 15 February 2016

**Certificate history**

Revision	Description	Issued date
0.0	Original Certificate	2021-02-26

**Products covered by this certificate**

Product name	Product description	PED Category	Product standard
Valves	Ball valve	I, II, III	API 6D, BS 6364

**Design data**

Pressure rating    Class 150/Class 300/ Class 400/Class 600  
 Class 900/Class1500/Class 2500

Maximum/ Minimum Allowable temperature      ASTM A105    -29°C /+425 °C  
 ASTM A216 Grand WCB                              -29°C /+425 °C  
 ASTM A352 Grand LCB                                -46°C /+345 °C  
 ASTM A352 Grand LCC                                -46°C /+345 °C  
 ASTM A351 Grand CF3                                -50°C /+450 °C  
 ASTM A351 Grand CF3M                              -50°C /+450 °C  
 ASTM A351 Grand CF8                                -50°C /+450 °C  
 ASTM A351 Grand CF8M                              -50°C /+450 °C  
 ASTM A350 Grand LF2                                -46°C /+345 °C  
 ASTM A182 Grand F304                               -50°C /+450 °C  
 ASTM A182 Grand F304L                              -50°C /+450 °C  
 ASTM A182 Grand F316                               -50°C /+450 °C  
 ASTM A182 Grand F316L                              -50°C /+450 °C  
 ASTM A182 Grand F51                                -50°C /+400 °C  
 ASTM A182 Grand F53                                -50°C /+400 °C

See **Limitations**

Medium    Group 1 and group 2

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### Range of Products and applied Standards

NO	Product Name	Pressure Rating							Design Std.	Inspection Std.	Flange Std.	Face-to-Face Std.
		Class 150	Class 300	Class 400	Class 600	Class 900	Class 1500	Class 2500				
1	Forged trunnion soft seat ball valve	DN40-DN900				DN40-DN600		DN40-DN300	API 6D	API 6D	ASME B16.5 ASME B16.47	ASME B16.10
2	Forged trunnion metal seat ball valve	DN40-DN900				DN40-DN600		DN40-DN300	API 6D	API 6D	ASME B16.5 ASME B16.47	ASME B16.10
3	Floating soft seat ball valve	DN40-DN250	DN40-DN250	NA.	DN40-DN150	DN40-DN50			API 6D	API 598	ASME B16.5	ASME B16.10
4	Floating metal seat ball valve	DN40-DN250	DN40-DN250	NA.	DN40-DN150	DN40-DN50			API 6D	API 598	ASME B16.5	ASME B16.10
5	Cryogenic trunnion soft seat ball valve	DN40-DN400	DN40-DN400	NA.	DN40-DN400	NA.	NA.	NA.	API 6D BS 6364	API 6D BS 6364	ASME B16.5	ASME B16.10
6	Cryogenic floating soft seat ball valve	DN40-DN400	DN40-DN400	NA.	DN40-DN400	NA.	NA.	NA.	API 6D BS 6364	API 6D BS 6364	ASME B16.5	ASME B16.10

### 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. 2014/68/EU.

The materials subject to the Particular Material Appraisal may be used in pressure equipment in accordance with directive 2014/68/EU and to the conditions as stated in the documents for the respective grades of material qualities.

Title	Rev.	Date
ASTM A105 ASTM A216 Grand WCB ASTM A352 Grand LCB ASTM A352 Grand LCC ASTM A351 Grand CF3 ASTM A351 Grand CF3M ASTM A351 Grand CF8 ASTM A351 Grand CF8M ASTM A350 Grand LF2 ASTM A182 Grand F304 ASTM A182 Grand F304L ASTM A182 Grand F316 ASTM A182 Grand F316L ASTM A182 Grand F51 ASTM A182 Grand F53	0	2021-01-14

Certificate No.: 10000381897-PA-ACCREDIA-CHN  
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ASTM A193 B7M ASMT A193 B8M ASTM A320 B8M class 2 ASTM A320 L7M		
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### Applications/limitations

- The internal of valves are excluded from this certificate.
- Material of non-harmonized standards must comply with the relevant PMA documents (Particular Material Appraisal) appraised by DNV GL.
- The valves classified according to Directive 2014/68/EU, Article 4.3, must not bear CE marking.
- For Valves with NYLON seal max. allowable temperature shall be +120°C.
- For Valves with PTFE seal max. allowable temperature shall be +180°C.
- For Valves with PEEK seal max. allowable temperature shall be +250°C.
- For Valves with PCTFE seal max. allowable temperature shall be +110°C.

### Sites covered by this certificate

Product name	Product description	Site Address	Date	Report ref
Valves	Ball valve	No.16 Kanghui Road, Gongshu District, Hangzhou, Zhejiang, P.R.China	2021-1-15; 2020-12-22	Design review report; Type test report

### Documents reviewed

Document No	Rev.	Date	Title	Status
TCF	Rev.2	2021-01-11	Technical construction file Directive 2014/68/EU Regarding ball valve	A for drawing and calculation sheet; FI for others

\*) A=Approved, FI=For information

### Terms and conditions for the certificate

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 one of the following Conformity Assessment Modules C2, 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.

Other valid terms and conditions are found in the DNV GL's PED Certification Requirements.

END OF CERTIFICATE