

# EU TYPE EXAMINATION CERTIFICATE - PRODUCTION TYPE

**This is to certify:**

That representative samples of the product(s) **Pressure Accessory**

with name and/or type designation(s)

Manufactured by

**Wuxi CoreLine Valve Co., Ltd.**  
**Wuxi, China**

has 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.

Further details are given overleaf

This Certificate is valid until **2019-12-17**.

Issued at **Høvik** on **2017-06-06**



for the Notified Body 0575  
**DNV GL AS**

**Marianne Spæren Marveng**  
**Head of Notified Body**

Lack of fulfilment of conditions as set out in the Product Certification Agreement may render this Certificate invalid.  
Except for any liability caused by DNV GL's gross negligence or wilful misconduct, DNV GL's maximum cumulative liability arising out of or related to the use of or reliance on this document shall be limited to USD 300 000.  
The digitally signed and electronically distributed document is the original and valid certificate.  
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Job Id: **341.4-000659-1**  
Certificate No: **PEDB0000021**

## Jurisdiction

Application of Directive 2014/68/EU and Norwegian Regulation FOR-1999-06-09-721 "Forskrift om Trykkpåkjent Utstyr", as amended, issued by the Norwegian Directorate of Civil Protection and Emergency Planning and by the Petroleum Safety Authority Norway.

## Certificate history

Revision	Description	Issue Date
-	Certificate replaces original Certificate 65637-2009—CE-RGC-DNV and includes additional products.	2017-06-06

## Products covered by this Certificate

Product Name	Product Description	PED Category	Product Std.
Valves	Butterfly valve	I,II,III	EN 593, ASME B16.1 EN 593, ASME B16.42 EN 593, AWWA C504 EN 593, EN 12516-1 API 609
Valves	Check valve	I,II,III	API 594, EN 12516-1
Valves	Ball valve	I,II,III	API 6D, ASME B16.34
Valves	Knife Gate valve	I,II,III	MSS SP-81

## Design data

Product name	Material	Min/max allowable temperature (TS)*	Medium
Valve	ASTM A126 Class B ASTM A395 Grade 60-40-18	-10 to + 160 °C	Group 2
Valve	EN10213 1.0619	-10 to + 400 °C	Group 1 and group 2
Valve	EN10213 1.4408 ASTM A216 WCB ASTM A351 CF8M ASTM A351 CF8 ASTM A105 ASTM A182 F316 ASTM A182 F304	-28 to + 400 °C	Group 1 and group 2

\*) See also Applications/Limitations

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### Design data

Type of valve	Pressure Rating	Dimension	Design standard	Inspection standard	Flange standard	Face-to- Face standard
Grey iron Butterfly Valve	PN16	2"~12"	EN593 ASME B 16.1	ISO5208	EN1092-2	EN558
Ductile iron Butterfly Valve	PN16	2"~24"	EN593 ASME B 16.42	ISO5208	EN1092-2	EN558
Ductile iron Butterfly Valve	PN16	28"~48"	EN593 AWWA C504	ISO5208	EN1092-2	EN558
Steel Butterfly Valve	PN16	2"~40"	EN593 EN12516-1	ISO5208	EN1092-1	EN558
Grey iron Check Valve	125lb	2"~48"	API594	API598	ASME B16.1	API594
Ductile iron Check Valve	150lb	2"~48"	API594	API598	ASME B16.42	API594
Steel Check Valve	PN16 PN25	2"~24"	EN12516-1	ISO5208	EN1092-1	Manufacturer specification
Eccentric Butterfly Valve	Class 150 Class 300 Class 600	3"~48" 3"~24" 3"~12"	API 609, ASME B16.34	API 598	ASME B16.5, ASME B16.47	API 609, ASME B16.34
Ball Valve	Class 150 Class 300 Class 600 Class 900 Class 1500	1 1/4"~20" 1 1/4"~20" 1 1/4"~20" 1 1/4"~20" 2"~16"	API 6D, ASME B16.34	API 598	ASME B16.5, ASME B1.20.1	API 6D, DIN 3202-4
Knife Gate Valve	100 psi 150 psi	30"~36" 2"~24"	MSS SP-81	MSS SP-61	ASME B16.5 ASME B16.47	MSS SP-81

### Prototype Test reference

Site Name	Site Address	Inspected by	Date	Report ID
Wuxi Core Line Valve Co., Ltd.	No.210 Xinyuan Road, Ehu Industrial Park, Wuxi,P.R.China	DNV GL Business Assurance (China) Co.,Ltd.	2017-01-05~06	2017-02-22

## Documents Reviewed

Document No.	Rev.	Date	Title	Status <sup>1</sup>
Technical construction files	NA.	2009-11-23	Technical construction files regarding butterfly valve and check valve.	A for product drawing; FI for others
Technical construction files	B/3	2017-02-17	Technical construction files regarding ball valve, eccentric butterfly valve, and knife gate valve.	FI
Product drawing	3	2016-12-28	101&102 series for ball valve, 201 series for eccentric butterfly valve.	A
Product drawing	4	2017-05-09	401 series for knife gate	A


## Applications/Limitations

- This Certificate only relates to directives described above. Other directives, covering other phenomena, and also having requirements related to CE marking, might also apply.
- The materials for the main pressure retaining parts have been subjected to Particular Material Appraisal as required by PED Annex I Section 4.2b. The material grades are found acceptable under the condition as stated in the following documents issued for the Particular Material Appraisals:

Title	Rev.	Date
ASTM A126, Class B	0	2009-12-11
ASTM A395, Grade 60-40-18	1	2017-04-06
ASTM A216, WCB	1	2017-04-06
ASTM A351, CF8M	1	2017-04-06
ASTM A351, CF8	1	2017-04-06
ASTM A105	1	2017-04-06
ASTM A182, F316	1	2017-04-06
ASTM A182, F304	1	2017-04-06
ASTM A193, B7	1	2017-04-06
ASTM A193, B8	1	2017-04-06

- 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 VITON seal max. design temperature shall be +160°C.
- For Valves with EPDM seal max. design temperature shall be +110°C.
- For Valves with EPDM seal max. design temperature shall be +85°C.
- For Grey Iron Check Valves with DN700~1200 max. design temperature shall be 149°C.
- For Ductile Iron Butterfly Valves with DN700~1200 min/max. design temperature shall be 0.6°C/52°C.
- For knife gate valves, max. design temperature shall be 66°C.

<sup>1</sup> A = Approved, AC = Approved with comments, FI = For information



Job Id: **341.4-000659-1**  
Certificate No: **PEDB0000021**

### **Terms and conditions**

Valid Terms and Conditions are found in the Product Certification Agreement which includes DNV GL's PED Certification Rules.

This Certificate alone does not give the right to CE mark and put the product(s) listed in this Certificate on the market. Only after the product(s) have been found to comply with the requirements in one of the following Conformity Assessment Modules C2 or E (if product category III), D or F (if product category IV) 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.

# PRODUCTION SURVEILLANCE CERTIFICATE

**This is to certify:**

That the final assessment process of

Manufacturer

**Wuxi Core Line Valve Co., Ltd.**  
**Wuxi, China**

for

**Pressure Accessory**

has been monitored and found to comply with respect to the conformity assessment procedure described in Annex III Module C2 of Directive 2014/68/EU on Pressure Equipment.

Further details are given overleaf

This Certificate is valid until **2019-12-17**.

Issued at **Høvik** on **2017-06-13**



for the Notified Body 0575  
**DNV GL AS**

**Marianne Spæren Marveng**  
**Head of Notified Body**

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Job Id: **341.4-000659-2**  
Certificate No: **PEDC10000004**

## Jurisdiction

Application of Directive 2014/68/EU and Norwegian Regulation FOR-1999-06-09-721 "Forskrift om Trykkpåkjent Utstyr", as amended, issued 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	2017-06-13

## Products covered by this Certificate

Product Name	Product Description	PED Category	Product Std.
Valves	Butterfly valve	I,II,III	EN 593, ASME B16.1 EN 593, ASME B16.42 EN 593, AWWA C504 EN 593, EN 12516-1 API 609
Valves	Check valve	I,II,III	API 594, EN 12516-1
Valves	Ball valve	I,II,III	API 6D, ASME B16.34
Valves	Knife Gate valve	I,II,III	MSS SP-81

## EU-Type Examination reference

Certificate No.	Rev.	Expiry Date	Issued by NoBo No.
PEDB0000021	-	2019-12-17	0575

## Inspections reference/Sites covered

Site Name	Site Address	Inspected/Monitored by	Date	Report ID
Wuxi Coreline Valve Co., Ltd.	No.210 Xinyuan Road, Ehu Industrial Park, Wux, P.R.China	DNV GL Business Assurance(China) Co.,Ltd.	2017-1-5~6	Dated 2017-2-22

## Applications/Limitations

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