

# Certificate

**Certificate of Conformity with Fugitive Emission  
Testing Acc. to EN ISO 15848-1:2015**

Certificate no.: **01 202 CHN/K-150312**

Name and address of  
the applicant / license  
holder : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

***We hereby certify that the results of Valve Stem Assembly Sealing System tests carried out under our witness on the industrial valve(s) below meeting the requirements in the standard mentioned above.***

***This certificate does not imply assessment of the product production. It reflects only our witness findings to tested valve described herein at the time and the place of test, and does not refer to any other matters. This certificate only includes the external leakage test to the stem assembly, excluding any valve body part or sealing leak rate measurement.***

***Detail valve technical data and manufacturer information refer to Appendix and Test Report***

Model/ Type identification **KV-L42**  
Description of tested  
valve:

Test Report No.: **FM2015100016**

Performance Class: **ISO FE BH-CO2-t(-29°C to +100°C)-PN40-ISO15848-1**  
Nominal  
Pressure/Pressure  
Qualified : **Class 300 (PN 40)/The valve Class or PN designation is  
equal or lower**

Stem Size/Size  
Qualified: **Ø24/50% lower and 200% higher of those tested valve**

Name, Address of  
Manufacturer : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

Certificate valid until: **March, 2026.**

**TÜV Rheinland (Guangdong) Ltd.  
Industrial Services**

  
**Augustine Yong**  


**Chengdu/  
China  
2016/03/07**

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# Appendix to Certificate 01 202 CHN/K-150312

## Construction & Test Data

Name and address of the applicant / license holder : **Kingdom Flow Control Co., Ltd.**  
**23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,**  
**Guangdong , P.R. China**

Name, Address of Manufacturer : **Kingdom Flow Control Co., Ltd.**  
**23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,**  
**Guangdong , P.R. China**

Test Report No.: **FM2015100016**

Model :	<b>KV-L42</b>
Nominal Diameter :	<b>NPS 3/Class 300 (PN 40),</b>
Nominal Pressure/Pressure Qualified :	<b>Class 300 (PN 40)/The valve Class or PN designation is equal or lower</b>
Type of Ball Valve:	<b>Ball Valve</b>
Stem Size/Size Qualified:	<b>Ø24/50% lower and 200% higher of those tested valve</b>
Stem Sealing:	<b>PTFE+FKM+PTFE</b>
Body Sealing:	<b>PTFE</b>
Packing Drawing/ Assembly Drawing:	<b>916241030004420, Rev. 0</b>
Test Gas:	<b>Helium</b>
Tightness Class:	<b>&lt;&lt;B:Leakage Rate ≤10<sup>-4</sup> mg•s<sup>-1</sup>.m<sup>-1</sup>&gt;&gt;</b>
Endurance Class:	<b>&lt;&lt;CO<sub>2</sub>; 1500mechanical cycles&gt;&gt;</b>
Temperature Class:	<b>&lt;&lt;t-29°C, 100°C&gt;&gt;</b>

*The Valve Sealing System is in compliance with the above mentioned requirements.  
The test and the classification is based on a type approval and does not include the  
factory inspection.*

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**Chengdu/ China**  
**2016/03/07**



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# Certificate

**Certificate of Conformity with Fugitive Emission  
Testing Acc. to EN ISO 15848-1:2015**

Certificate no.: **01 202 CHN/K-150313**

Name and address of  
the applicant / license  
holder : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

***We hereby certify that the results of Valve Stem Assembly Sealing System tests carried out under our witness on the industrial valve(s) below meeting the requirements in the standard mentioned above.***

***This certificate does not imply assessment of the product production. It reflects only our witness findings to tested valve described herein at the time and the place of test, and does not refer to any other matters. This certificate only includes the external leakage test to the stem assembly, excluding any valve body part or sealing leak rate measurement.***

***Detail valve technical data and manufacturer information refer to Appendix and Test Report***

Model/ Type identification **KV-L62**  
Description of tested  
valve:

Test Report No.: **FM2015100017**

Performance Class: **ISO FE BH-CO3-t(-29°C to +200°C)-PN40-ISO15848-1**  
Nominal  
Pressure/Pressure  
Qualified : **Class 300 (PN 40)/The valve Class or PN designation is  
equal or lower**

Stem Size/Size  
Qualified: **Ø24/50% lower and 200% higher of those tested valve**

Name, Address of  
Manufacturer : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

Certificate valid until: **March, 2026.**

**TÜV Rheinland (Guangdong) Ltd.  
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2016/03/07**



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# Appendix to Certificate 01 202 CHN/K-150313

## Construction & Test Data

Name and address of the applicant / license holder : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

Name, Address of Manufacturer : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

Test Report No.: **FM2015100017**

Model :	<b>KV-L62</b>
Nominal Diameter :	<b>NPS 3/Class 300 (PN 40),</b>
Nominal Pressure/Pressure Qualified :	<b>Class 300 (PN 40)/The valve Class or PN designation is equal or lower</b>
Type of Ball Valve:	<b>Ball Valve</b>
Stem Size/Size Qualified:	<b>Ø24/50% lower and 200% higher of those tested valve</b>
Stem Sealing:	<b>PTFE+FKM+Graphoil</b>
Body Sealing:	<b>316+Spiral Wound Graphite</b>
Packing Drawing/ Assembly Drawing:	<b>9162410300004420, Rev.0</b>
Test Gas:	<b>Helium</b>
Tightness Class:	<b>&lt;&lt;B:Leakage Rate ≤10-4 mg•s-1.m-1&gt;&gt;</b>
Endurance Class:	<b>&lt;&lt;CO3; 2500mechanical cycles&gt;&gt;</b>
Temperature Class:	<b>&lt;&lt;t-29°C, 200°C&gt;&gt;</b>

*The Valve Sealing System is in compliance with the above mentioned requirements.  
The test and the classification is based on a type approval and does not include the  
factory inspection.*

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# Appendix to Certificate 01 202 CHN/K-150314

## Construction & Test Data

Name and address of the applicant / license holder : **Kingdom Flow Control Co., Ltd.**  
**23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,**  
**Guangdong , P.R. China**

Name, Address of Manufacturer : **Kingdom Flow Control Co., Ltd.**  
**23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,**  
**Guangdong , P.R. China**

Test Report No.: **FM2015100019**

Model :	<b>KV-L20H</b>
Nominal Diameter :	<b>NPS 1/Class 800 (2000 WOG),</b>
Nominal Pressure/Pressure Qualified :	<b>Class 800 (2000 WOG)/The valve Class or PN designation is equal or lower</b>
Type of Ball Valve:	<b>Ball Valve</b>
Stem Size/Size Qualified:	<b>Ø15/50% lower and 200% higher of those tested valve</b>
Stem Sealing:	<b>PTFE+FKM+PTFE</b>
Body Sealing:	<b>PTFE</b>
Packing Drawing/ Assembly Drawing:	<b>9162410300004670, Rev.0</b>
Test Gas:	<b>Helium</b>
Tightness Class:	<b>&lt;&lt;B:Leakage Rate ≤10<sup>-4</sup> mg•s<sup>-1</sup>.m<sup>-1</sup>&gt;&gt;</b>
Endurance Class:	<b>&lt;&lt;CO<sub>2</sub>; 1500mechanical cycles&gt;&gt;</b>
Temperature Class:	<b>&lt;&lt;t-29°C, 100°C&gt;&gt;</b>

*The Valve Sealing System is in compliance with the above mentioned requirements.  
The test and the classification is based on a type approval and does not include the  
factory inspection.*

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# Certificate

**Certificate of Conformity with Fugitive Emission  
Testing Acc. to EN ISO 15848-1:2015**

Certificate no.: **01 202 CHN/K-150314**

Name and address of  
the applicant / license  
holder :

**Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

***We hereby certify that the results of Valve Stem Assembly Sealing System tests carried out under our witness on the industrial valve(s) below meeting the requirements in the standard mentioned above.***

***This certificate does not imply assessment of the product production. It reflects only our witness findings to tested valve described herein at the time and the place of test, and does not refer to any other matters. This certificate only includes the external leakage test to the stem assembly, excluding any valve body part or sealing leak rate measurement.***

***Detail valve technical data and manufacturer Information refer to Appendix and Test Report***

Model/ Type identification **KV-L20H**  
Description of tested  
valve:

Test Report No.: **FM2015100019**

Performance Class: **ISO FE BH-CO2-t(-29°C to +100°C)-Class 800-ISO15848-1**  
Nominal  
Pressure/Pressure  
Qualified : **Class 800 (2000 WOG)/The valve Class or PN designation  
is equal or lower**

Stem Size/Size  
Qualified: **Ø15/50% lower and 200% higher of those tested valve**

Name, Address of  
Manufacturer : **Kingdom Flow Control Co., Ltd.  
23-1 , Nan-he West Rd.,Nan-tou, Zhongshan City,  
Guangdong , P.R. China**

Certificate valid until: **March, 2026.**

**TÜV Rheinland (Guangdong) Ltd.  
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# Certificate of conformity

With Fugitive Emission Testing acc. to  
EN ISO 15848-1: 2015



Industrie Service

Certificate No.: 230490

Name and postal address of  
manufacturer:

Kingdom Flow Control Co., Ltd.  
No.23-1,Nan-he West Rd., Nan-tou Town, Zhong-  
shan City,528427,Guangdong Province,  
P.R.China.

We hereby certify that the results of Valve Stem Assembly Sealing System of tests carried out under our witness about the industrial valve(s) below meets the requirements EN ISO 15848-1: 2015.

This certificate does not mean assessment of the product production. It reflect only our witness findings to tested valve described herein at the time and the place of test, and does not refer to any other matters. This certificate only includes the external leakage test to the stem assembly, excluding any valve body part or sealing leak rate measurement.

Detail valve technical data and manufacturer information refer to annex and test report.

Model/ Type identification  
Description of tested valve

Ball Valve: KV-M63-HF RF(CL600-NPS3)

Test report No.:

C160015 dated 2016-06-28

Performance Class:  
Nominal

ISO FE BH-CO3-t(RT to +200°C)-Class 600-ISO15848-1

Pressure/pressure Qualified:

Class 600/ The valve class or PN designation is equal or lower

Stem Size/Size qualified:

Ø36/ Half to twice (included) the tested valve diameter.

Manufacturing plant:

Kingdom Flow Control Co., Ltd.  
No.23-1,Nan-he West Rd., Nan-tou Town, Zhongshan  
City,528427,Guangdong Province, P.R.China.

Beijing, Jun. 30<sup>th</sup>, 2016

(Place, date)

TÜV SÜD Industrie Service GmbH  
Beijing Branch

  
(Liu Bingjiang)



M Building, No. 7 Wangjing Zhonghuan Nanlu,  
Chaoyang District, Beijing 100102, P. R. China

Tel.: + 86 10 6590 -6186  
Fax: + 86 10 6590-6182  
www.tuev-sued.de



## ANNEX: data for certificate No. 230490

Name of manufacturer: Kingdom Flow Control Co., Ltd.

Address of manufacturer: No.23-1,Nan-he West Rd., Nan-tou Town, Zhongshan City, 528427, Guangdong Province, P.R.China.

Test Report: C160016 dated 2016-06-28

We hereby certify that the valve below has passed the fugitive emission test successfully according to Class BH of ISO 15848-1:2015 for a total of 2500 cycles.

Model	Ball Valve: KV-M63-HF RF(CL600-NPS3)
Nominal Diameter	Class 600-NPS3
Type of Valve	Ball Valve
Stem Sealing	Graphite+inconel 600
Body Sealing	304+spiral Wound Graphite
Body/bonnet material	F316
Valve assembly drawing no.	900362610313750 dated 31-07-2015.
Test Gas	Helium
Tightness Class	B: Leakage Rate $\leq$ 10-4 mg.s-1.m-1
Endurance Class	CO3; 2500 mechanical cycles
Temperature	200

The test was verified by TÜV SÜD engineer according to requirements of ISO15848-1:2015 and found compliance with the above mentioned requirements. The test and the classification is base on a type approval and does not include the factory inspection.

The tested valve covers performance class (para.6.6):

ISO FE BH-CO3-t(RT to +200°C)-Class 600-ISO15848-1.

Extension of qualification (in particular) to untested valves in accordance with paragraph 8 of ISO 15848-1.

Stem sizes qualified: Ø36/ Half to twice (included) the tested valve diameter.

Pressure ranges qualified: Class 600/ the valve class or PN designation is equal or lower

Beijing/P. R. China  
Jun 30<sup>th</sup>, 2016

TÜV SÜD Industrie Service GmbH  
Beijing Branch

  
(Liu Bingjiang)





# Certificate of conformity

With Fugitive Emission Testing acc. to  
EN ISO 15848-1: 2015



Industrie Service

Certificate No.: 230491

**Name and postal address of manufacturer:**

Kingdom Flow Control Co., Ltd.  
No.23-1, Nan-he West Rd., Nan-tou Town, Zhongshan City, 528427, Guangdong Province, P. R. China.

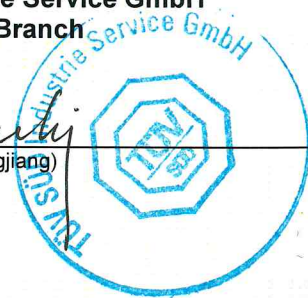
We hereby certify that the results of Valve Stem Assembly Sealing System of tests carried out under our witness about the industrial valve(s) below meets the requirements EN ISO 15848-1: 2015.

This certificate does not mean assessment of the product production. It reflect only our witness findings to tested valve described herein at the time and the place of test, and does not refer to any other matters. This certificate only includes the external leakage test to the stem assembly, excluding any valve body part or sealing leak rate measurement.

Detail valve technical data and manufacturer information refer to annex and test report.

**Model/ Type identification**  
**Description of tested valve****Ball Valve: KV-F63 RF(CL600-NPS8)****Test report No.:****C160016 dated 2016-06-28****Performance Class:**  
**Nominal****ISO FE BH-CO3-t(RT to +200°C)-Class 600-ISO15848-1****Pressure/pressure Qualified:****Class 600/ The valve class or PN designation is equal or lower****Stem Size/Size qualified:****Ø55/ Half to twice (included) the tested valve diameter.****Manufacturing plant:**

Kingdom Flow Control Co., Ltd.  
No.23-1, Nan-he West Rd., Nan-tou Town, Zhongshan City, 528427, Guangdong Province, P. R. China.

**Beijing, Jun. 30<sup>th</sup>, 2016****(Place, date)****TÜV SÜD Industrie Service GmbH**  
**Beijing Branch**  
(Liu Bingjiang)

M Building, No. 7 Wangjing Zhonghuan Nanlu,  
Chaoyang District, Beijing 100102, P. R. China

Tel.: + 86 10 6590-6186  
Fax: + 86 10 6590-6182  
www.tuev-sued.de



## ANNEX: data for certificate No. 230491

Name of manufacturer: Kingdom Flow Control Co., Ltd.

Address of manufacturer: No.23-1,Nan-he West Rd., Nan-tou Town, Zhongshan City, 528427, Guangdong Province, P. R. China.

Test Report: C160016 dated 2016-06-28

We hereby certify that the valve below has passed the fugitive emission test successfully according to Class BH of ISO 15848-1:2015 for a total of 2500 cycles.

Model	Ball Valve: KV-F63 RF(CL600-NPS8)
Nominal Diameter	Class 600-NPS8
Type of Valve	Ball Valve
Stem Sealing	Graphite+inconel 600
Body Sealing	304+spiral Wound Graphite
Body/bonnet material	WCB
Valve assembly drawing no.	900366410804480 dated 20-03-2015.
Test Gas	Helium
Tightness Class	B: Leakage Rates≤10-4 mg.s-1.m-1
Endurance Class	CO3; 2500 mechanical cycles
Temperature	200

The test was verified by TÜV SÜD engineer according to requirements of ISO15848-1:2015 and found compliance with the above mentioned requirements. The test and the classification is base on a type approval and does not include the factory inspection.

The tested valve covers performance class (para.6.6):

ISO FE BH-CO3-t(RT to +200°C)-Class 600-ISO15848-1.


Extension of qualification (in particular) to untested valves in accordance with paragraph 8 of ISO 15848-1.

Stem sizes qualified: Ø55/ Half to twice (included) the tested valve diameter.

Pressure ranges qualified: Class 600/ the valve class or PN designation is equal or lower

Beijing/P. R. China  
Jun 30<sup>th</sup>, 2016

TÜV SÜD Industrie Service GmbH  
Beijing Branch

  
(Liu Bingjiang)

