

# CERTIFICATE

(Certificate of Conformity with Fugitive Emission Type Testing Acc. to:  
API Standard 624 First Edition, February 2014)

Certificate No.: IND-INS-C1804001-API624-001

Ref. Test Report No.: 201809-M-015150-1

Name, Address of manufacturer: CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

We hereby certify that the fugitive emission type test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API 624, First Edition, February 2014. The testing results of valves meet the requirements of API 624.

## 1. Description of test valve :

Type designation of tested valve (s):	Globe Valve 4" 1500LB
Description of valve :	Globe Valve
Standard :	API 623, BS1873
Nominal size(s)	4"
Pressure rating (ANSI Class) :	1500LB
Valve body material :	ASTM A216 WCB
Stem packing :	Flexible Graphite / Braided Flexible Graphite + SS

## 2. Qualified Range of Valve :

The valve Class : (according to API 624 10.1.2 or 10.1.3)	900LB and 1500LB
Nominal size(s) : (according to API 624 10.1.2 or 10.1.3)	NPS 1/2" to 6"
Remark: The technical data of test valve see back of this certificate appendix 1.	

This certificate is issued according to API 624 First Edition, February 2014, based upon the result of testing report on above mentioned test valve.



Mr. Jeffery Fan

Name and Signature



Issued at Shanghai, Sep. 27, 2018

Place, Date, Stamp



Appendix  
1

Certificate No.  
IND-INS-C1804001-API624-001

Reference Report No.  
201809-M-015150-1

### Technical Data Form

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu,China

**1. Type of Test Valve:** Globe Valve 4" 1500LB  
**2. Description of Test Valve:** Globe Valve  
**3. Standard:** API 623, BS1873  
**4. Details of Valve:**

Material & Dimension	Part Name
Body	ASTM A216 WCB
Stem	ASTM A182 F6a CL3
Sealing system	Packing
Stem seal Material	Flexible Graphite / Braided Flexible Graphite + SS
Body seal description	Sealing ring
Body seal Material.	Flexible Graphite + SS
Drawing No.:	JR15AA2C-S(YJ)/A
Test result	The valve passes the test at condition of Max. allowable stem leakage of 100PPMv (10PPMv during testing), number of mechanical cycles of 310, high temperature of 260°C, test pressure of 4.14 MPa acc. to API 624.



Mr. Jeffery Fan

Name and Signature



Issued at Shanghai, Sep. 27, 2018

Place, Date, Stamp

# CERTIFICATE

**(Certificate of Conformity with Fugitive Emission Type Testing Acc. to:  
API Standard 624 First Edition, February 2014)**

**Certificate No.:** IND-INS-C1804001-API624-002

**Ref. Test Report No.:** 201809-M-015150-2

**Name, Address of manufacturer:**

CNNC SUFA Technology Industry Co., Ltd.

No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

We hereby certify that the fugitive emission type test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API 624, First Edition, February 2014. The testing results of valves meet the requirements of API 624.

**1. Description of test valve :**

Type designation of tested valve (s):	Globe Valve 12" 600LB
Description of valve :	Globe Valve
Standard :	API 623, BS1873
Nominal size(s)	12"
Pressure rating (ANSI Class) :	600LB
Valve body material :	ASTM A352 LCB
Stem packing :	Flexible Graphite / Braided Flexible Graphite + SS

**2. Qualified Range of Valve :**

The valve Class : <i>(according to API 624 10.1.2 or 10.1.3)</i>	300LB and 600LB
Nominal size(s) : <i>(according to API 624 10.1.2 or 10.1.3)</i>	NPS 8" to 14"
Remark: The technical data of test valve see back of this certificate appendix 1.	

This certificate is issued according to API 624 First Edition, February 2014, based upon the result of testing report on above mentioned test valve.



**Mr. Jeffery Fan**

**Name and Signature**



**Issued at Shanghai, Sep. 27, 2018**

**Place, Date, Stamp**



Appendix  
1

Certificate No.  
IND-INS-C1804001-API624-002

Reference Report No.  
201809-M-015150-2

### Technical Data Form

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

**1. Type of Test Valve:** Globe Valve 12" 600LB  
**2. Description of Test Valve:** Globe Valve  
**3. Standard:** API 623, BS1873  
**4. Details of Valve:**

Material & Dimension	
Part Name	
Body	ASTM A352 LCB
Stem	ASTM A182 F6a CL3
Sealing system	Packing
Stem seal Material	Flexible Graphite / Braided Flexible Graphite + SS
Body seal description	Gasket
Body seal Material.	Graphite gasket + SS
Drawing No.:	J6AA2B-S(YJ)
Test result	The valve passes the test at condition of Max. allowable stem leakage of 100PPMv (17PPMv during testing), number of mechanical cycles of 310, high temperature of 260°C, test pressure of 4.14 MPa acc. to API 624.



**Mr. Jeffery Fan**  
Name and Signature



Issued at Shanghai, Sep. 27, 2018

Place, Date, Stamp

# CERTIFICATE

**(Certificate of Conformity with Fugitive Emission Type Testing Acc. to:  
API Standard 624 First Edition, February 2014)**

**Certificate No.:** IND-INS-C1804001-API624-003

**Ref. Test Report No.:** 201809-M-015150-5

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

We hereby certify that the fugitive emission type test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API 624, First Edition, February 2014. The testing results of valves meet the requirements of API 624.

**1. Description of test valve :**

Type designation of tested valve (s):	Globe Valve 4" 150LB
Description of valve :	Globe Valve
Standard :	API 623, BS1873
Nominal size(s)	4"
Pressure rating (ANSI Class) :	150LB
Valve body material :	ASTM A216 WCB
Stem packing :	Flexible Graphite / Braided Flexible Graphite + SS

**2. Qualified Range of Valve :**

The valve Class : <i>(according to API 624 10.1.2 or 10.1.3)</i>	150LB
Nominal size(s) : <i>(according to API 624 10.1.2 or 10.1.3)</i>	NPS 2" to 6"
Remark: The technical data of test valve see back of this certificate appendix 1.	

This certificate is issued according to API 624 First Edition, February 2014, based upon the result of testing report on above mentioned test valve.



**Mr. Jeffery Fan**

**Name and Signature**



**Issued at Shanghai, Oct. 23, 2018**

**Place, Date, Stamp**



Appendix  
1

Certificate No.  
IND-INS-C1804001-API624-003

Reference Report No.  
201809-M-015150-5

### Technical Data Form

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu,China

**1. Type of Test Valve:** Globe Valve 4" 150LB  
**2. Description of Test Valve:** Globe Valve  
**3. Standard:** API 623, BS1873  
**4. Details of Valve:**

Material & Dimension	
Part Name	
Body	ASTM A216 WCB
Stem	ASTM A182 F316
Sealing system	Packing
Stem seal Material	Flexible Graphite / Braided Flexible Graphite + SS
Body seal description	Gasket
Body seal Material.	Graphite gasket + SS
Drawing No.:	J1AA26C-T(S)
Test result	The valve passes the test at condition of Max. allowable stem leakage of 100PPMv (16PPMv during testing), number of mechanical cycles of 310, high temperature of 260°C, test pressure of 1.17 MPa acc. to API 624.



Mr. Jeffrey Fan  
Name and Signature



Issued at Shanghai, Oct. 23, 2018  
Place, Date, Stamp

# CERTIFICATE

(Certificate of Conformity with Fugitive Emission Type Testing Acc. to:  
API Standard 624 First Edition, February 2014)

Certificate No.: IND-INS-C1804001-API624-004

Ref. Test Report No.: 201809-M-015150-6

Name, Address of manufacturer: CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

We hereby certify that the fugitive emission type test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API 624, First Edition, February 2014. The testing results of valves meet the requirements of API 624.

## 1. Description of test valve :

Type designation of tested valve (s):	Globe Valve 4" 600LB
Description of valve :	Globe Valve
Standard :	API 623, BS1873
Nominal size(s)	4"
Pressure rating (ANSI Class) :	600LB
Valve body material :	ASTM A216 WCB
Stem packing :	Flexible Graphite / Braided Flexible Graphite + SS

## 2. Qualified Range of Valve :

The valve Class : (according to API 624 10.1.2 or 10.1.3)	300LB and 600LB
Nominal size(s) : (according to API 624 10.1.2 or 10.1.3)	NPS 2" to 6"
Remark: The technical data of test valve see back of this certificate appendix 1.	

This certificate is issued according to API 624 First Edition, February 2014, based upon the result of testing report on above mentioned test valve.



Mr. Jeffery Fan

Name and Signature



Issued at Shanghai, Oct. 23, 2018

Place, Date, Stamp



Appendix  
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Certificate No.  
IND-INS-C1804001-API624-004

Reference Report No.  
201809-M-015150-6

### Technical Data Form

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu,China

**1. Type of Test Valve:** Globe Valve 4" 600LB  
**2. Description of Test Valve:** Globe Valve  
**3. Standard:** API 623, BS1873  
**4. Details of Valve:**

Material & Dimension	
Part Name	
Body	ASTM A216 WCB
Stem	ASTM A182 F6a CL3
Sealing system	Packing
Stem seal Material	Flexible Graphite / Braided Flexible Graphite + SS
Body seal description	Gasket
Body seal Material.	Graphite gasket + SS
Drawing No.:	J6A23C(SF)
Test result	The valve passes the test at condition of Max. allowable stem leakage of 100PPMv (52PPMv during testing), number of mechanical cycles of 310, high temperature of 260°C, test pressure of 4.14 MPa acc. to API 624.



Mr. Jeffery Fan  
Name and Signature



Issued at Shanghai, Oct. 23, 2018  
Place, Date, Stamp

# CERTIFICATE

**(Certificate of Conformity with Fugitive Emission Type Testing Acc. to:  
API Standard 624 First Edition, February 2014)**

**Certificate No.:** IND-INS-C1804001-API624-005

**Ref. Test Report No.:** 201809-M-015150-7

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

We hereby certify that the fugitive emission type test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API 624, First Edition, February 2014. The testing results of valves meet the requirements of API 624.

**1. Description of test valve :**

Type designation of tested valve (s):	Globe Valve 12" 150LB
Description of valve :	Globe Valve
Standard :	API 623, BS1873
Nominal size(s)	12"
Pressure rating (ANSI Class) :	150LB
Valve body material :	ASTM A216 WCB
Stem packing :	Flexible Graphite / Braided Flexible Graphite + SS

**2. Qualified Range of Valve :**

The valve Class : <i>(according to API 624 10.1.2 or 10.1.3)</i>	150LB
Nominal size(s) : <i>(according to API 624 10.1.2 or 10.1.3)</i>	NPS 8" to 14"
Remark: The technical data of test valve see back of this certificate appendix 1.	

This certificate is issued according to API 624 First Edition, February 2014, based upon the result of testing report on above mentioned test valve.



**Mr. Jeffery Fan**

**Name and Signature**



**Issued at Shanghai, Oct. 23, 2018**

**Place, Date, Stamp**



Appendix  
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Certificate No.  
IND-INS-C1804001-API624-005

Reference Report No.  
201809-M-015150-7

### Technical Data Form

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu,China

**1. Type of Test Valve:** Globe Valve 12" 150LB  
**2. Description of Test Valve:** Globe Valve  
**3. Standard:** API 623, BS1873  
**4. Details of Valve:**

Material & Dimension	
Part Name	
Body	ASTM A216 WCB
Stem	ASTM A182 F6a CL3
Sealing system	Packing
Stem seal Material	Flexible Graphite / Braided Flexible Graphite + SS
Body seal description	Gasket
Body seal Material.	Graphite gasket + SS
Drawing No.:	J1A23C-H(SF)
Test result	The valve passes the test at condition of Max. allowable stem leakage of 100PPMv (33PPMv during testing), number of mechanical cycles of 310, high temperature of 260°C, test pressure of 1.17 MPa acc. to API 624.



**Mr. Jeffery Fan**  
Name and Signature



Issued at Shanghai, Oct. 23, 2018  
Place, Date, Stamp

# CERTIFICATE

(Certificate of Conformity with Fugitive Emission Type Testing Acc. to:  
API Standard 624 First Edition, February 2014)

Certificate No.: IND-INS-C1804001-API624-006

Ref. Test Report No.: 201809-M-015150-8

Name, Address of manufacturer: CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu, China

We hereby certify that the fugitive emission type test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API 624, First Edition, February 2014. The testing results of valves meet the requirements of API 624.

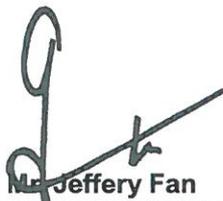
## 1. Description of test valve :

Type designation of tested valve (s):	Globe Valve 8" 1500LB
Description of valve :	Globe Valve
Standard :	API 623, BS1873
Nominal size(s)	8"
Pressure rating (ANSI Class) :	1500LB
Valve body material :	ASTM A216 WCB + STL6
Stem packing :	Flexible Graphite / Braided Flexible Graphite + SS

## 2. Qualified Range of Valve :

The valve Class : (according to API 624 10.1.2 or 10.1.3)	1500LB and 900LB
Nominal size(s) : (according to API 624 10.1.2 or 10.1.3)	NPS 4" to 10"
Remark: The technical data of test valve see back of this certificate appendix 1.	

This certificate is issued according to API 624 First Edition, February 2014, based upon the result of testing report on above mentioned test valve.



Mr. Jeffery Fan

Name and Signature



Issued at Shanghai, Nov. 02, 2018

Place, Date, Stamp



Appendix  
1

Certificate No.  
IND-INS-C1804001-API624-006

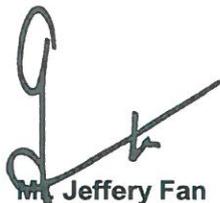
Reference Report No.  
201809-M-015150-8

### Technical Data Form

**Name, Address of manufacturer:** CNNC SUFA Technology Industry Co., Ltd.  
No.501, Zhujiang Road, Suzhou New District, Jiangsu,China

**1. Type of Test Valve:** Globe Valve 8" 1500LB  
**2. Description of Test Valve:** Globe Valve  
**3. Standard:** API 623, BS1873  
**4. Details of Valve:**

Material & Dimension	
Part Name	
Body	ASTM A216 WCB + STL6
Stem	ASTM A182 F6a CL3
Sealing system	Packing
Stem seal Material	Flexible Graphite / Braided Flexible Graphite + SS
Body seal description	N/A
Body seal Material.	N/A
Drawing No.:	JP15W2C-SGH2
Test result	The valve passes the test at condition of Max. allowable stem leakage of 100PPMv (28PPMv during testing), number of mechanical cycles of 310, high temperature of 260°C, test pressure of 4.14 MPa acc. to API 624.



Mr. Jeffery Fan  
Name and Signature



Issued at Shanghai, Nov. 02, 2018  
Place, Date, Stamp