Certificate

Certificate of Conformity with technical requirements in relation to Sec. 5.2.6.3, TA-Luft: 2021-08 and Sec. 6.3.1.4, VDI 2440: 2021-06

Certificate no.:

01 202 CHN/K-240573

Name and address of the applicant / license holder:

FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

We hereby certify that the results of Tube Joint Sealing System tests carried out under our inspection on the below Tube Joint Assembly meet the referenced technical requirements mentioned above. This certificate does not imply assessment of the product production. It reflects only our inspection for tested valve described herein at the time and the place of test, and does not refer to any other matters.

Detail technical data and manufacturer's information, refer to appendix and test report.

Name and address of the

FITOK (Wuhan) Incorporated

manufacturer:

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

Technical Object:

Fitting Assembly

Model /Type:

Tube Joint Assembly with O-Ring, FITOK Type FO

Description of tested

Tube Joint Assembly, Type FO; consisting of:

specimen:

fittings &nuts made of 316 SS, and O-Ring made of FKM;

with joint size DN11+DN17+DN25

Assembly drawing number:

SS-FO-TA-LUFT dated 2024.10.23

Testing procedure:

EN 1779 Vacumm Method B.2.1

Testing medium /temperature:

Helium /25°C

Testing pressure:

100 bar /200 bar /300 bar respectively

Allowable leakage:

Leakage rate≤3.23×10⁻⁵ mbar · L/s (L_{0.01}≤0.01 mg /s·m) (In reference to Section 5.2.6.3 of TA-Luft: 2021-08)

Test result:

Passed

Test report number:

326053857-4

Place: Shanghai

Owen Wu
Technical Manager

Date: 18 November, 2024

TÜV Rheinland (Shanghai) Co., Ltd.

TA-Luft_tube joint_Rev. 20240526

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TÜV Rheinland (Shanghai) Co.,Ltd.
TÜV Rheinland Building,No. 177, Lane 777, West Guangzhong Road,
Jing'an District, Shanghai, P. R. China 200072, Tel.:021-61081188



Name and address of the applicant / license holder: FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

Name and address of the manufacturer:

FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

Test facility:

Manufacturer's testing facility

Technical Object:	Fitting Assembly			
Model /Type:	Tube Joint Assembly with O-Ring, FITOK Type FO			
Description of tested specimen:	Tube Joint Assembly, Type FO; consisting of: fittings &nuts made of 316 SS, and O-Ring made of FKM; with joint size DN11+DN17+DN25			
Total joint seal perimeter:	166.42 mm (DN	111+DN17+DN25)		
Assembly drawing number:	SS-FO-TA-LUFT dated 2024.10.23			
Testing procedure:	EN 1779 Vacumm Method B.2.1			
Testing medium:	Helium			
Testing temperature:	25°C			
Testing pressure:	100 bar /200 bar /300 bar respectively			
Allowable leakage*:	Leakage rate≤3.23×10 ⁻⁵ mbar · L/s (L _{0.01} ≤0.01 mg /s·m)			
Test results /leakage rate*: (mbar. L/s)	100 bar	200 bar	300 bar	
	3.6×10 ⁻⁹	1.0×10 ⁻⁹	2.5×10 ⁻⁹	
Conclusion:	The measured leakage rates are acceptable.			

1. The test specimen is an assembly of three different sizes of tube joints (DN11, DN17, DN25). The allowable leakage is calculated based on the total joint seal perimeter. The measured leakage is the total leakage from all joints of the assembly.

The Tube Joint Sealing System and testing details are as mentioned above. The test samples are selected and assembled by the manufacturer.

Jack Rui

Project Manager Date: 28 February, 2025

Place: Shanghai

Owen Wu

Technical Manager

Date: 28 February, 2025

TÜV Rheinland (Shanghai) Co., Ltd

TA-Luft_tube joint_Rev. 20240526

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TÜV Rheinland (Shanghai) Co.,Ltd. TÜV Rheinland Building, No. 177, Lane 777, West Guangzhong Road, Jing'an District, Shanghai, P. R. China 200072, Tel.:021-61081188



Certificate

Certificate of Conformity with technical requirements in reference to Sec. 5.2.6.3, TA-Luft: 2021-08 and Sec. 6.3.1.4, VDI 2440: 2021-06

Certificate no.:

01 202 CHN/K-240571

Name and address of the applicant / license holder:

FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

We hereby certify that the results of Tube Joint Sealing System tests carried out under our inspection on the below Tube Joint /Fitting Assembly meet the referenced technical requirements mentioned above. This certificate does not imply assessment of the product production. It reflects only our inspection for tested valve described herein at the time and the place of test, and does not refer to any other matters.

Detail technical data and manufacturer's information, refer to appendix and test report.

Name and address of the

manufacturer:

FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

Technical Object:

Fitting Assembly

Model /Type:

Tube Joint Assembly with O-Ring, FITOK Type FO

Description of tested

specimen:

Tube Joint Assembly, Type FO; consisting of:

fittings &nuts made of 316L SS, and O-Ring made of FKM;

with joint size DN11+DN17+DN25

Assembly drawing number:

6L-FO-TA-LUFT dated 2024.10.23

Testing procedure:

EN 1779 Vacumm Method B.2.1

Testing medium /temperature:

Helium /25°C

Testing pressure:

100 bar /200 bar /300 bar respectively

Allowable leakage:

Leakage rate≤3.23×10⁻⁵ mbar · L/s (L_{0.01}≤0.01 mg /s·m) (In reference to Section 5.2.6.3 of TA-Luft: 2021-08)

Test result:

Passed

Test report number:

326053857-2

Place: Shanghai

Owen Wu 4

Technical Manager

Date: 28 February, 2025

TÜV Rheinland (Shanghai) Co.,

TÜV Rheinland (Shanghai) Co.,Ltd. TÜV Rheinland Building,No. 177, Lane 777, West Guangzhong Road, Jing'an District, Shanghai, P. R. China 200072, Tel.:021-61081188 TA-Luft_tube joint_Rev. 20240526



Name and address of the applicant / license holder: FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

Name and address of the manufacturer:

FITOK (Wuhan) Incorporated

No.16 Jinyang Avenue, Yangluo Economic Development Zone, Xinzhou District, Wuhan City, Hubei Province, 430415, China

Test facility:

Manufacturer's testing facility

Technical Object:	Fitting Assembly				
Model /Type:	Tube Joint Assembly with O-Ring, FITOK Type FO				
Description of tested specimen:	Tube Joint Assembly, Type FO; consisting of: fittings &nuts made of 316L SS, and O-Ring made of FKM; with joint size DN11+DN17+DN25				
Total joint seal perimeter:	166.42 mm (DN11+DN17+DN25)				
Assembly drawing number:	6L-FO-TA-LUFT dated 2024.10.23				
Testing procedure:	EN 1779 Vacumm Method B.2.1				
Testing medium:	Helium				
Testing temperature:	25°C				
Testing pressure:	100 bar /200 bar /300 bar respectively				
Allowable leakage*:	Leakage rate≤3.23×10 ⁻⁵ mbar · L/s (L _{0.01} ≤0.01 mg /s·m)				
Test results /leakage rate*: (mbar. L/s)	100 bar	200 bar	300 bar		
	1.4×10 ⁻⁹	1.0×10 ⁻⁹	3.3×10 ⁻⁹		
Conclusion:	The measured leakage rates are acceptable.				

*Remarks:

1. The test specimen is an assembly of three different sizes of tube joints (DN11, DN17, DN25). The allowable leakage is calculated based on the total joint seal perimeter. The measured leakage is the total leakage from all joints of the assembly.

The Tube Joint Sealing System and testing details are as mentioned above. The test samples are selected and assembled by the manufacturer.

Jack Rui

Project Manager

Date: 28 February, 2025

Place: Shanghai

Owen Wu

Technical Manager Date: 28 February, 2025

TÜV Rheinland (Shanghal) Co.,

TÜV Rheinland (Shanghai) Co.,Ltd. TÜV Rheinland Building, No. 177, Lane 777, West Guangzhong Road, Jing'an District, Shanghai, P. R. China 200072, Tel.:021-61081188 TA-Luft_tube joint_Rev. 20240526

