Certificate

Certificate of Conformity

Fugitive Emission Type Test according to EN ISO 15848-1:2015 / Amd.1:2017(E)

Certificate No.: **01 202 CHN/K-200154**

Name and address of the applicant / license holder :

Chongqing Chuanyi Control Valve Co., Ltd.
No. 879 Caihe Road, Caijiagang Town,
Beibei District, Chongqing,
P.R. China 400707

We hereby certify that the results of tests carried out under our witness on the industrial valve(s) below meet the requirements in the standard mentioned above.

This certificate does not imply assessment of the production of the product, reflects only our witness findings at the time and the place of test and does not refer to any other matters

Description of tested valve:

Bellows Control Valve with actuator
Size: NPS 3,
Pressure Class: Class 300,
Stem Diameter: Ø20mm,
Valve Body Material: ASTM A 216 WCB

Drawing No.: HTSWA3-080-000-0001

Performance Class: ISO-FE AH-CC1-SSA1- t-29C°[200°C]-CL300-ISO 15848-1

Extension of qualification to untested valves: detials see test report CHN/K-200154 as annex to this certificate

Nameand Address of Manufacturer:

Chongqing Chuanyi Control Valve Co., Ltd.
No. 879 Caihe Road, Caijiagang Town,
Beibei District, Chongqing,
P.R. China 400707

Shanghai / November 27, 2020

i.A Oliver Zhu

TÜV Rheinland Inspection Body

TÜV Rheinland (Shanghai) Co., Ltd.
TÜV Rheinland Building, No. 177, Lane 777, West Guangzhong Road, Jing'an District, Shanghai, P.R. China 200072
Tel.: +86-21/ 6108-1188, Fax: +86-21/ 6108-1199, e-mail: oliver.zhu@tuv.com

10/201 10.17 E A4 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

Industrial Services

TÜVRheinland®
Precisely Right.

Test Report -
Fugitive Emission Type Test according to EN ISO 15848-1:2015 / Amd.1:2017(E)

Annex to Certificate No.:	**01 202 CHN/K-200154**		
Test report No:	CHN/K-200154	**Order No:**	244276338
Manufacturer: **Chongqing Chuanyi Control Valve Co., Ltd.** No. 879 Caihe Road, Caijiagang Town, Beibei District, Chongqing, P.R. China 400707			

TECHNICAL DATA:

Drawing No.: HTSWA3-080-000-0001
Model Identification: HTSW (HTS-10001) Class300 NPS 3
Fugitive emission test report: SICCV-TA004 issued by Chongqing Chuanyi Control Valve Co., Ltd.
Date of Test: Nov. 22~25, 2020
Inspection Items: CC1, 20000 mechanical cycles; t-29C°[200C°]; Helium (AH)
Results: Acceptable

Item	Constructional Data Form of tested valve		Extension of qualification to untested valves
1	**Decription of Valve**	NPS 3, Bellows Control Valve	Bellows Control Valve
2	**Test Fluid**	Helium	Helium
3	**Steming Material**	(Qualified Valve Stem Seal and Body Seal according to EN ISO 15848-1 Para. 8 a))	
3.1	**Body Seal**	F316L	F316L
3.2	**Stem Seal**	F316L+PTFE	F316L+PTFE
4	**Loading Arrangement**	(Qualified Valve Sealing Stress according to EN ISO 15848-1 Para. 8 b))	
4.1	**Valve Operating Torque (Opening/Closing)**	Before testing: 2400 N / 3300 N; After testing: 2500 N / 3500 N	Before testing: 2400 N / 3300 N
4.2	**Tightening torque**	Bolt of gland: 35 N.m	Bolt of gland: 35 N.m
5	**Other**	(Qualified other according to EN ISO 15848-1 Para. 8 c), d), e), f), g), h))	
5.1	**Type of Motion**	Linear motion	Linear motion
5.2	**Tolerances Class and Surface Finishes**	As per ISO 286-1 and ISO 286-2	As per ISO 286-1 and ISO 286-2
5.3	**Stem Diameter**	Ø20 mm	Ø10 mm up to 40mm
5.4	**Valve Class or PN**	Class 300	Class 300 or lower
5.5	**Temperature class**	t-29C°[200C°]	RT up to 200 C°
5.6	**Tightness class for stem (or shaft) seals**	AH, Leakage Rate ≤ 3.57×10^{-6} mbar·l·s^{-1}	AH, Leakage Rate ≤ 1.78×10^{-7} mbar·l·s^{-1}/mm stem diameter through stem seal system
5.7	**Leakage from body seals**	≤ 50 ppmv	≤ 50 ppmv
6	**Marking**	Qualified valves can be marked: ISO-FE	

RESULT:

The above-mentioned inspections were performed in accordance with the provisions of the stated test requirements/specifications.

Further Attachments: 1) Fugitive emission report no.: SICCV-TA004, 2) Drawing no.: HTSWA3-080-000-0001

For order processing we have stored essential object data and the address. The protection of the data is guaranteed. The test results relate exclusively to the described test object. Partial copies of the test report without a written authorization by the company is not permitted.
This test report is issued by the company subject to its General Condition of Service.

Shanghai / November 27, 2020

Expert: Zhao Botao