Certificate of Authority to use the Official API Monogram

License Number: 6D-2144

ORIGINAL

The American Petroleum Institute hereby grants to

FXFLOW CONTROL BV No. 88 East Lianxing Road, Tangtou Industrial Zone Oubei Sub-District, Yongjia County Wenzhou, Zhejiang People's Republic of China

the right to use the Official API Monogram[®] on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1[®] and **API-6D** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6D-2144**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Ball Valves, Check Valves, Gate Valves, Plug Valves



R

American

Petroleum

Institute

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: MARCH 25, 2024 Expiration Date: MARCH 25, 2027

To verify the authenticity of this license, go to www.api.org/compositelist.

Senior Vice President of Global Industry Services



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 20223Q20970R0S

We hereby certify that the organization:

FX Flow Control BV

Unified social credit code: 91330324MACHQ6Q67Y

is in conformity with Quality Management System Standard:

GB/T 19001-2016/ISO 9001:2015

The certificate is valid to the following products/service:

Design, production and sales of metal valves (100% export)

Registration Address/Audit Address: No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, China (inside Tiangong Valve Group Co, LTD.)

Issued By

Date of Issue: 30-08-2023 Date of Expiry: 29-08-2026 Date of Initial: 30-08-2023



中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C197-M





The audit of validity of the certificate, the certificate shall be at least once a year. The effectiveness of the Certificate is subject to QR Code in the lower left corner. Meanwhile, you can search the website of certification body: www.qpc.org.cn or search the CNCA website: www.cnca.gov.cn

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.

Room 603, Floor 6, Building 1, No.88, Puyan Road, Puyan Street, Binjiang District, Hangzhou City, Zhejiang Province, China 310053 WEB: Http://www.qpc.org.cn



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 20224E20563R0S

We hereby certify that the organization:

FX Flow Control BV

Unified social credit code: 91330324MACHQ6Q67Y

is in conformity with Environmental Management System Standard:

GB/T 24001-2016/ISO 14001:2015

The certificate is valid to the following products/service:

Design, production,sales and related management activities of metal valves (100% export)

Registration Address: No. 88 Lianxing East Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province

Audit Address: High end Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province, China

Issued By

Date of Issue:11-11-2024Date of Expiry:10-11-2027Date of Initial:11-11-2024



中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C197-M





The audit of validity of the certificate, the certificate shall be at least once a year. The effectiveness of the Certificate is subject to QR Code in the lower left corner. Meanwhile, you can search the website of certification body: www.qpc.org.cn or search the CNCA website: www.cnca.gov.cn

ZHEJIANG QUANPIN CERTIFICATION CO., LTD.

Room 603, Floor 6, Building 1, No.88, Puyan Road, Puyan Street, Binjiang District, Hangzhou City, Zhejiang Province, China 310053 WEB: Http://www.qpc.org.cn

ISO 15848-1 QUALIFICATION CERTIFICATE



Certificate No.: 314530 Ref. Test report No.: 314529

We hereby certify that the valve below has passed the fugitive emission test successfully according to Class BH of ISO15848-1:2015+Amd.1:2017 for a total of **205** cycles.

Name of manufacturer	FX FLOW CONTROL BV
Address of manufacturer	Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zheijang Province
Item	NPS 4 Class1500 Trunnion Ball Valve
Valve size	NPS 4
Pressure rating	Class1500
Stem size	Φ45mm
Body/bonnet material	ASTM A105N
Seal material	Stem sealing: VITON O-ring, Graphite Body sealing: SS316+Graphite, VITON O-ring
Valve assembly drawing no.	Q47-4-1500LB-1

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

ISO FE BH - CO1 -SSA 0 - t200°C - CL1500 - ISO 15848-1

Extension of qualification (in particular) to untested valves in accordance with paragraph 8 of ISO15848-1.

Other stem sizes qualified: 22.5mm up to 90mm

Other pressure ranges qualified: Class 1500 and lower

This certificate must be read in conjunction with test report No.: 314529

Shanghai, Nov. 8, 2024 (Place, date)

Xie Zhenrong TÜV SÜD Certification and Testing (Chura) Co., Ltd

No.151, Hengtong Road 200070 Shanghai P.R. China

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Öffice Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 20224S20491R0S

We hereby certify that the organization:

FX Flow Control BV

Unified social credit code: 91330324MACHQ6Q67Y

is in conformity with Occupational Health Safety Management System Standard:

GB/T 45001-2020/ISO 45001:2018

The certificate is valid to the following products/service:

Design, production, sales and related management activities of metal valves (100% export)

Registration Address: No. 88 Lianxing East Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province

Audit Address: High end Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province, China

June By

Date of Issue: 11-11-2024 Date of Expiry: 10-11-2027 Date of Initial: 11-11-2024



中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C197-M





The audit of validity of the certificate, the certificate shall be at least once a year. The effectiveness of the Certificate is subject to QR Code in the lower left corner. Meanwhile, you can search the website of certification body: www.qpc.org.cn or search the CNCA website: www.cnca.gov.cn

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.

Room 603, Floor 6, Building 1, No.88, Puyan Road, Puyan Street, Binjiang District, Hangzhou City, Zhejiang Province, China 310053 WEB: Http://www.qpc.org.cn

HPi VS

Certificate of Quality System Approval

This is to certify that the product listed below conforms to the requirements of the **Pressure Equipment Directive 2014/68/EU** Annex III Module H

Certificate Number

Date of Issue

Manufacturer

HPiVS-iP1001-243-Q-02-00

25-Oct-2024 Date of Expiry

31-Aug-2026

FX Flow Control BV No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, China

Description of Pressure Equipment

Equipment Identification

Gate Valve, Globe Valve, Check Valve, Ball Valve, and Butterfly Valve (refer to schedule for product range) CE Nameplate

Carbon steel and Stainless steel

ISO 9001:2015 Quality Management System certificate no. 20223Q20970R0S issued by Zhejiang Quanpin Certification Co., Ltd.

Other Certification

Type of material

Standards Applied

EN 1984-2010, EN 13709-2010, API 600-2021, API 6D-2021 (25), DIN 3352, BS 1873-175+A1:1990, DIN 3356, ASME B16.34-2020, API 594:2022, API 608:2020, BS 5351-1986, API 609-2021, ISO 10631:2021, GB/T 12338:1990

Report Reference

HPiVS-iP1001-243-2

This Certificate is valid in any European Economic Area Member State. This Report has been issued by HPi Verification Services (Ireland) Ltd. which is a body notified to the European Commission according to the provisions of the Pressure Equipment Directive (Notified Body number 2810).

This Report is issued following the assessment of the documentation and implementation of the Quality System in accordance with the provisions of the quoted Conformity Assessment Module of the above directive. The CE Mark must be affixed to the Pressure Equipment within the scope of approval as described above once the EU 'declaration of conformity' has been signed by the responsible person. The number '2810', being HPi Verification Services (Ireland) Ltd. Notified Body number must also be placed on the equipment dataplate.





An INAB accredited Certification Body Reg. No. 5018.

Technical Director



EU Notified Body No. 2810 Company registered in Ireland #577786

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Tel +353 (0)1 8017008 Email enquiries@boivs.ie

^{ail} enquiries@hpivs.ie www.hpivs.ie HPi Verification Services (Ireland) Ltd.

Clonross

Dunshaughlin, Co.Meath

A85 XN59, Ireland



SIL



Functional Safety Certificate

No. 0H240527.FFCT086

Certificate's Holder:	FX Flow Control BV No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, China		
Product: Model(s):	Valve Gate Valve: DN40~DN1000, Globe Valve: DN40~DN600, Check Valve: DN40~DN600, Ball Valve: DN40~DN1200, Butterfly Valve: DN50~DN2400		
Standard:	Has been assessed per the relevant requirements of: IEC 61508:2010 Parts 1-7 And meets requirements providing a level of integrity to: Systematic Capability: SC 3(SIL 3 Capable) Random Capability: Type A Element SIL 2 @ HFT=0, SIL 3 @ HFT=1; Route 2 _H PFD _{AVG} and Architecture Constraints must be verified each application *Safety function: Valve can be used to control the flow of air, water, steam, various corrosive media, mud, oil, liquid metal, radioactive media and other types of fluidn flow. Cut off and throttle mainly in the pipeline. * Is suitable to be safety function according to the description and the configuration		
Verification Mark:	The Verification Mark can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way		
Remark: This SIL Verific existent for the above safety related system u	cation of Compliance has been issued on a voluntary basis. ECM confirms that a Test Report is e listed product(s) and found to meet the requirements of above standards for application in up to Safety Level of SIL 3 . The unit must be properly designed into a Safety Instrument Function as		

Date of issue 27 May 2024



Expiry date 26 May 2029



Ente Certificazione Macchine

Via Cà Bella, 243 - 40053 Valsamoggia Loc. Castello di Serravalle (Bo) Italy 🖀 +39.0516705141 📇 +39.0516705156 🖂 info@entecerma.it 💽 www.entecerma.it

per the requirements in the Safety Manual. The Verification Mark shown above can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way. In addition the Verification's Holder is NOT allowed to transfer the

Verification to third parties. This certificate can be checked for validity at www.entecerma.it

Annex I



No. 0H240527.FFCT086

- 1. The use of the product must obey the required rules to conservation of SIL3 properties, these rules are recalled in the §6 of the Assessment Report reference: [SIL Capability assessment report].
- 2. The product version of hardware components used for validation and type tests are the following:

Product:	Valve
Model(s):	Gate Valve: DN40~DN1000,
	Globe Valve: DN40~DN600,
	Check Valve: DN40~DN600,
	Ball Valve: DN40~DN1200,
	Butterfly Valve: DN50~DN2400

- 3. Acceptable environmental constraints for the system are recalled in the safety Manual. These elements must be checked for each integration operation of the product.
- 4. The SIL 3 capable certified safety instrumented function of the product is the following:
 - SF1: To Close on demand.
 - SF2: To Open on demand.
- 5. Hypothesis used for calculations are presented here under:
 - The mode of operation is Low demand, which means less than 1 trip demand each year;

Component architecture	SIL Capability	Demand frequency	PFD
1001 configuration	SIL2	Low	9.71E-04
1002 configuration	SIL3	Low	2.23E-04

Safety function	Failure rate	Undetected dangerous failure rate	Tests intervals	MTTR
SF1	4.68E-05	4.65E-07	11months	48h
SF2	4.73E-05	4.61E-07	11months	48h

6. The safety integrated level of the safety function using the product shall be calculated taking into account the characteristics of the whole system.

Y

Ente Certificazione Macchine Via Cà Bella, 243 - 40053 Valsamoggia Loc. Castello di Serravalle (Bo) Italy ☎ +39.0516705141 = +39.0516705156 imes info@entecerma.it www.entecerma.it

приложение

к сертификату соответствия № еаэс ^{RU C-CN.AБ53.B.09050/24}

Серия RU № 0899381

	Код (коды)	Наименование, типы, марки, модели продукции, составные части изделия	Обозначение
	ТН ВЭД ЕАЭС	или комплекса	документации, по которой выпускается
	and show a state of	Contraction of the second s	продукция
	8481806390, 8481309108,	Арматура промышленная трубопроводная 3 категории, предназначенная для сжатых,	АЗМЕ В10.34 «Клапаны фланцевые резьбовые и со
	8481807399, 8481808199	сжиженных, растворенных под давлением газов и наров и используемые для рабо на сред групп	сварными концами», BS1873
			«Шаровые, шаровые запорные
f			и обратные клапаны (с
			фланцевыми концами и для
			нефтяной, нефтехимической и
			смежных отраслей
			промышленности.
			Спецификация», ВS1868
			(с фланцевыми концами и
			сваркой встык) для нефтяной
			промышленности», АРІ600
			«Стальные задвижки с фланцевыми и стыковыми
			сварочными концами, крышки
			с кожухом на болтах», АРІбД
			«Шаровые краны, обратные
			пробковые краны.
			Спецификация», ISO17292
	無法は経済が決めなりません		«Стандартная спецификация на
			лля нефтяной.
			нефтехимической и смежных
			отраслей промышленности»,
			атворы с фланцами с
			проушинами и межфланцевого
			типа», АР1594 «Обратные
			клапаны: Фланцевые, с
			под приварку встык», АРІ623
			«Стальные шаровые краны с
			фланцевыми концами и сваркой
			соелинением крышки и
			корпуса», АРІ599
			«Металлические пробковые
			клапаны — фланцевые, с
			концами», BS5353
			«Спецификация для стальных
			запорных клапанов»,
			пробковые клапаны.»
		Задвижки клиновые DN до 1600 мм PN до 42 МПа. Типы: G, GP, GPS, GT	
		Клапаны запорные DN до 300 мм PN до 42 MПа. Типы: GL, GLA, GLB, GLC, GLT	
		Клапаны обратные DN до 1200 мм PN до 42 МПа. Типы: S, SN, SA, SF, SBN, SBS	
		Кран шаровые DN до 1400 мм PN до 42 MПа. Типы: B, BA, BC, BCM, BB, BBM, BT, BS, BSM, BSG	
		Пробковые клапаны DN до 400 мм PN до 10 МПа. Типы: L, LL, LLC	
	a service service and the service	THE THE PART OF THE TO THE TO THE TO	1 Carl Man and Contraction in Accession and the off

Руководитель (уполномоченное лицо) органа по сертификации

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) Михайлов Игорь Валерьевич (Ф.И.О.) Лабусова Надежда Сергеевна

ACTA

СибПромТест

ABTOR * CPrak

М.П.

бусова Надежда Сергеев (Ф.И.О.) ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

TIOI RAT EDITREIR

№ EAЭC RU C-CN.AБ53.B.09050/24

Серия RU № 0420112

ОРГАН ПО СЕРТИФИКАЦИИ Орган по сертификации продукции Общество с ограниченной ответственностью «СибПромТест». Место нахождения (адрес юридического лица): 630005, РОССИЯ, Новосибирская область, город Новосибирск, улица Некрасова, дом 48, этаж 9, помещение 44. Адрес места осуществления деятельности: 630005, РОССИЯ, Новосибирская область, город Новосибирск, улица Некрасова, дом 48, этаж 9, помещение № 14, 42-44. Уникальный номер записи об аккредитации в реестре аккредитованных лиц: RA.RU.11АБ53. Дата решения об аккредитации: 21.03.2016. Телефон: +73832804258. Адрес электронной почты: info@sibpromtest.ru

ЗАЯВИТЕЛЬ ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "ТС СЕРВИС"

Место нахождения (адрес юридического лица) и адрес места осуществления деятельности: 117105, Россия, город Москва, Варшавское шоссе, дом 1А, этаж 3, комната/офис 50/Б4Г Основной государственный регистрационный номер 1227700162887.

Телефон: 89104694427. Адрес электронной почты: ts-svs@yandex.ru

ИЗГОТОВИТЕЛЬ «FX FLOW CONTROL BV»

Место нахождения (адрес юридического лица) и адрес места осуществления деятельности по изготовлению продукции: Китай, No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province

ПРОДУКЦИЯ Арматура промышленная трубопроводная 3 категории, предназначенная для сжатых, сжиженных, растворенных под давлением газов и паров и используемые для рабочих сред групп 1, 2 (согласно приложению - бланк № 0899381). Продукция изготовлена в соответствии с документацией согласно приложению - бланк № 0899381. Серийный выпуск

КОД ТН ВЭД ЕАЭС 8481806390, 8481309108, 8481807399, 8481808199

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ

Технического регламента Таможенного союза "О безопасности оборудования, работающего под избыточным давлением" (TP TC 032/2013)

СЕРТИФИКАТ СООТВЕТСТВИЯ ВЫДАН НА ОСНОВАНИИ Протоколов испытаний №№ 022-2024, 023-2024, 024-2024, 025-2024, 026-2024 от 15.01.2024 года, выданных испытательной лабораторией Общества с ограниченной ответственностью "ПРОММАШ ТЕСТ Инжиниринг" (уникальный номер записи об аккредитации в реестре аккредитованных лиц RA.RU.21HC12) Акта анализа состояния производства №23/12/0189-14 от 29.12.2023, выданного Органом по сертификации продукции Общество с ограниченной ответственностью «СибПромТест» (уникальный номер записи об аккредитации в реестре аккредитованных лиц RA.RU.11АБ53) эксперт, подписавший акт анализа состояния производства - Торопина Ольга Александровна документации изготовителя: обоснования безопасности; руководства по эксплуатации; паспортов; результатов прочностных расчетов; сборочных чертежей; сведений о заводских испытаниях; технологических регламентов и сведений о технологическом процессе; документов, подтверждающих квалификацию специалистов и персонала; документов, подтверждающих характеристики материалов и комплектующих изделий

Схема сертификации: 1с

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Сведения о стандартах, применяемых на добровольной основе для соблюдения требований ТР ТС 032/2013: ГОСТ 12.2.063-2015 «Арматура трубопроводная. Общие требования безопасности». Условия хранения 2(С) по ГОСТ 15150-69. Срок хранения без переконсервации 18 месяцев. Срок службы 30 лет. Действие сертификата соответствия распространяется на серийно выпускаемую продукцию, изготовленную с даты изготовления отобранных образцов (проб) продукции, 15.01 2029

TO

СРОК ДЕЙСТВИЯ С

включительно

Руководитель (уполномоченное лицо) органа по сертификации

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы))

16.01.2024

Мазайлов Игорь Валерьевич (ONO)

СибПромТес

М.П.

* 6954

Пабусова Надежда Сергеевна

(Ф.И.O.)

ISO 15848-1 QUALIFICATION CERTIFICATE



Certificate No.: 314530 Ref. Test report No.: 314529

We hereby certify that the valve below has passed the fugitive emission test successfully according to Class BH of ISO15848-1:2015+Amd.1:2017 for a total of **205** cycles.

Name of manufacturer	FX FLOW CONTROL BV
Address of manufacturer	Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zheijang Province
Item	NPS 4 Class1500 Trunnion Ball Valve
Valve size	NPS 4
Pressure rating	Class1500
Stem size	Φ45mm
Body/bonnet material	ASTM A105N
Seal material	Stem sealing: VITON O-ring, Graphite Body sealing: SS316+Graphite, VITON O-ring
Valve assembly drawing no.	Q47-4-1500LB-1

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

ISO FE BH - CO1 -SSA 0 - t200°C - CL1500 - ISO 15848-1

Extension of qualification (in particular) to untested valves in accordance with paragraph 8 of ISO15848-1.

Other stem sizes qualified: 22.5mm up to 90mm

Other pressure ranges qualified: Class 1500 and lower

This certificate must be read in conjunction with test report No.: 314529

Shanghai, Nov. 8, 2024 (Place, date)

Xie Zhenrong TÜV SÜD Certification and Testing (Chura) Co., Ltd

No.151, Hengtong Road 200070 Shanghai P.R. China

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Öffice Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China

ISO 15848-1 QUALIFICATION CERTIFICATE



Certificate No.: 314532 Ref. Test report No.: 314531

We hereby certify that the valve below has passed the fugitive emission test successfully according to Class BH of ISO15848-1:2015+Amd.1:2017 for a total of **205** cycles.

Name of manufacturer	FX FLOW CONTROL BV
Address of manufacturer	Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province
Item	NPS 8 Class600 Butterfly Valve
Valve size	NPS 8
Pressure rating	Class600
Stem size	Φ42mm
Body/bonnet material	ASTM A216 WCB
Seal material	Stem sealing: Graphite
	Body sealing: SS316+Graphite
Valve assembly drawing no.	FX2410-1002-3

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

ISO FE BH - CO1 -SSA 0 - t200°C - CL600 - ISO 15848-1

Extension of qualification (in particular) to untested valves in accordance with paragraph 8 of ISO15848-1.

Other stem sizes qualified: 21mm up to 84mm

Other pressure ranges qualified: Class 600 and lower

This certificate must be read in conjunction with test report No.: 3145312

Shanghai, Nov. 8, 2024 (Place, date)

TUV SPOOR
Xie Zhenrong
Tov our certification and resulting (china) co., Ltd
No.151, Hengtong Road
200070 Shanghai P.R. China

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Office Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China



CERTIFICATE (Certificate of conformity with technical requirements in:) API STANDARD 607 Eighth Edition, October 2022

Certificate No.:314445

Ref. Test report No.: 314444

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

We hereby certify that the fire test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV SÜD inspector according to requirements of API STD 607 Eighth Edition, October 2022. The testing results of valves meet the requirements of API STD 607 Eighth Edition, October 2022.

1. Description of Test Valve :

Type of Test Valve	NPS 2 Class150 Floating Ball Valve
Description of Test Valve	NPS 2 Class150 Floating Ball Valve
Valve Size (NPS)	2"
Pressure Rating (Class)	150
Valve Body Material	ASTM A216 WCB

2. Qualified Range of Valves :

Туре	Floating Ball Valve	
Description of Valves	Floating Ball Valves	
Qualified Sizes (NPS) (according to API 607 Table 3)	2" and below; 2 1/2";3";4"	
Qualified Pressure Ratings (Class) Class 150; Class 300; (according to API 607 Table 4) Class 150; Class 300;		
Qualified Valve Material	Ferritic, ASME B16.34 material groups 1.1 through 1.18	
Remark: the technical data of tested valves see back of this certificate appendix 1.		

This certificate is issued according to API STD 607 Eighth Edition, October 2022, based upon the result of testing report on above mentioned test valve. The additional valve qualification shall be limited on similar valves of same basic design and construction as the test valves and of the same nonmetallic materials as the test valve in the seat-to-closure member seat, seat-to-body seal, stem seal, and body joint and seal according to API STD 607 Eighth Edition, October 2022, Paragraph 7.

Shanghai, Nov. 5, 2024 (Place, date) Zhenrong Xie TÜV SÜD Certification and Testing (China) Co., Ltd

No.151, Hengtong Road 200070 Shanghai P.R.China



Certificate No.: 314445 Ref. Test report No.: 314444

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

Technical Data of Valve

1. Type of Test Valve: NPS 2 Class150 Floating Ball Valve

2. Description of Test Valve: NPS 2 Class150 Floating Ball Valve

3. Details of Valve:

Valves Size (NPS)	
Material	2"
Part Name	
Body	ASTM A216 WCB
Bolt	ASTM A193 B7
Nut	ASTM A194 2H
Gasket	SS316+Graphite
Bonnet	ASTM A216 WCB
Ball	ASTM A182 F316
Seat	PTFE
Stem	ASTM A182 F316
Thrust Washer	PTFE
Packing	Graphite
Gland	ASTM A216 WCB
Lever	C.S.+Zn
Anti Static	SS316 (China) Co
Design Drawing No.:	FB-Floating ball-RF-1

Shanghai, Nov. 5, 2024 (Place, date)

Zhenrong Xie **TÜV SÜD Certification and Testing** (China) Co., Ltd

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Office Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China



CERTIFICATE (Certificate of conformity with technical requirements in:) API STANDARD 607 Eighth Edition, October 2022

Certificate No.:314447

Ref. Test report No.: 314446

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

We hereby certify that the fire test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV SÜD inspector according to requirements of API STD 607 Eighth Edition, October 2022. The testing results of valves meet the requirements of API STD 607 Eighth Edition, October 2022.

1. Description of Test Valve :

Type of Test Valve	NPS 4 Class150 Trunnion Ball Valve
Description of Test Valve	NPS 4 Class150 Trunnion Ball Valve
Valve Size (NPS)	4"
Pressure Rating (Class)	150
Valve Body Material	ASTM A105N

2. Qualified Range of Valves :

Туре	Trunnion Ball Valve
Description of Valves	Trunnion Ball Valves
Qualified Sizes (NPS) (according to API 607 Table 3)	4"; 5";6";8"
Qualified Pressure Ratings (Class) (according to API 607 Table 4)	Class 150; Class 300;
Qualified Valve Material	Ferritic, ASME B16.34 material groups 1.1 through 1.18
Remark: the technical data of tested va	lves see back of this certificate appendix 1.

This certificate is issued according to API STD 607 Eighth Edition, October 2022, based upon the result of testing report on above mentioned test valve. The additional valve qualification shall be limited on similar valves of same basic design and construction as the test valves and of the same nonmetallic materials as the test valve in the seat-to-closure member seal, seat-to-body seal, stem seal, and body joint and seal according to API STD 607 Eighth Edition, October 2022, Paragraph 7.

Shanghai, Nov. 5, 2024 (Place. date)

Zhenrong Xie TÜV SÜD Certification and Testing (China) Co., Ltd

No.151, Hengtong Road 200070 Shanghai P.R.China



Certificate No.: 314447 Ref. Test report No.: 314446

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yonglia County, Wenzhou City, Zhejiang Province

Technical Data of Valve

1. Type of Test Valve: NPS 4 Class150 Trunnion Ball Valve

2. Description of Test Valve: NPS 4 Class150 Trunnion Ball Valve

3. Details of Valve:

Valves Size (NPS)	
Material	4"
Part Name	
Body	ASTM A105N
Gasket	SS316+Graphite
Trunnion	ASTM A105N
O-Ring	VITON
Bonnet	ASTM A105N
Bolt	ASTM A193 B7
Nut	ASTM A194 2H
Drain	AISI 1025
Bearing	SS316+PTFE
Bali	ASTM A182 F316
Seat Insert	RPTFE
Seat Ring	ASTM A182 F316
Stem Bushing	SS316+PTFE
Stem	ASTM A182 F316
Packing	Graphite
Gland Flange	ASTM A105N
Lever	C.S.+ZD (China) Co. /
Design Drawing No.:	Q47-4-150LB-1

Shanghai. Nov. 5. 2024 (Place. date) Zhenrong Xie TÜV SÜD Certification and Testing (China) Co., Ltd

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TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Office Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China



CERTIFICATE (Certificate of conformity with technical requirements in:) API STANDARD 607 Eighth Edition, October 2022

Certificate No.:314449

Ref. Test report No.: 314448

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

We hereby certify that the fire test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV SÜD inspector according to requirements of API STD 607 Eighth Edition, October 2022. The testing results of valves meet the requirements of API STD 607 Eighth Edition, October 2022.

1. Description of Test Valve :

Type of Test Valve	NPS 4 Class150 Butterfly Valve
Description of Test Valve	NPS 4 Class150 Butterfly Valve
Valve Size (NPS)	4 "
Pressure Rating (Class)	150
Valve Body Material	ASTM A216 WCB

2. Qualified Range of Valves :

Туре	Butterfly Valve
Description of Valves	Butterfly Valves
Qualified Sizes(NPS) (according to API 607 Table 3)	4"; 5";6";8"
Qualified Pressure Ratings (Class) (according to API 607 Table 4)	Class 150; Class 300;
Qualified Valve Material	Ferritic, ASME B16.34 material groups 1.1 through 1.18
Remark: the technical data of tested va	lves see back of this certificate appendix 1.

This certificate is issued according to API STD 607 Eighth Edition, October 2022, based upon the result of testing report on above mentioned test valve. The additional valve qualification shall be limited on similar valves of same basic design and construction as the test valves and of the same nonmetallic materials as the test valve in the seat-to-closure member seat, seat-to-body seal, stem seal, and body joint and seal according to API STD 607 Eighth Edition; October 2022, Paragraph 7.

Shanghai, Nov. 5, 2024 (Place, date) Zhenrong Xie TÜV SÜD Certification and Testing (China) Co., Ltd

No.151, Hengtong Road 200070 Shanghai P.R.China



Certificate No.: 314449 Ref. Test report No.: 314448

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

Technical Data of Valve

1. Type of Test Valve: NPS 4 Class150 Butterfly Valve

- 2. Description of Test Valve: NPS 4 Class150 Butterfly Valve
- 3. Details of Valve:

Valves Size (NPS)	
Material	4 ^{<i>n</i>}
Part Name	
Bottom Cover	ASTM A105N
Body	ASTM A216 WCB
Body Sealing face	Overlay A216 WCB
Sealing Ring	SS316+Graphite
Disc	ASTM A351 CF8M
Retaining Ring	ASTM A182 F316
Pin	ASTM A182 F316
Stem	ASTM A182 F316
Stem Bushing	PTFE/SS
Packing	Graphite
Bolt	ASTM A193 B7
Nut	ASTM A194 2H
Gasket	SS316+Graphite
Design Drawing No.:	FX2410-1002 1

Shanghai, Nov. 5, 2024 (Place, date)

Zhenrong Xie 200 TÜV SÜD Certification and Testing (China) Co., Ltd Industry

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Office Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China



CERTIFICATE (Certificate of conformity with technical requirements in:)

API STANDARD 607 Eighth Edition, October 2022

Certificate No.:314451

Ref. Test report No.: 314450

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

We hereby certify that the fire test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV SÜD inspector according to requirements of API STD 607 Eighth Edition, October 2022. The testing results of valves meet the requirements of API STD 607 Eighth Edition, October 2022.

1. Description of Test Valve :

Type of Test Valve	NPS 8 Class150 Butterfly Valve
Description of Test Valve	NPS 8 Class150 Butterfly Valve
Valve Size (NPS)	8"
Pressure Rating (Class)	150
Valve Body Material	ASTM A216 WCB

2. Qualified Range of Valves :

Туре	Butterfly Valve	
Description of Valves	Butterfly Valves	
Qualified Sizes (NPS)	8" and larger	
(according to API 607 Table 3)	o and larger	
Qualified Pressure Ratings (Class)	Class 150: Class 300:	
(according to API 607 Table 4)	01233 130, 01233 300,	
Qualified Valve Material	Ferritic, ASME B16.34 material groups 1.1 through 1.18	
Remark: the technical data of tested val	ves see back of this certificate appendix 1.	

This certificate is issued according to API STD 607 Eighth Edition, October 2022, based upon the result of testing report on above mentioned test valve. The additional valve qualification shall be limited on similar valves of same basic design and construction as the test valves and of the same nonmetallic materials as the test valve in the seat-to-closure member seat, seat-to-body seal, stem seal, and body joint and seal according to API STD 607 Eighth Edition. October 2022, Paragraph 7.

Shanghai, Nov. 5, 2024 (Place, date)

Zhenrong Xie

TÜV SÜD Certification and Testing (China) Co., Ltd

No.151, Hengtong Road 200070 Shanghai P.R.China



Certificate No.: 314451 Ref. Test report No.: 314450

Name and postal address of manufacturer:

FX FLOW CONTROL BV. Upscale Digital Pump and Valve Industrial Park, Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province

Technical Data of Valve

1. Type of Test Valve: NPS 8 Class150 Butterfly Valve

- 2. Description of Test Valve: NPS 8 Class150 Butterfly Valve
- 3. Details of Valve:

Valves Size (NPS)	
Material	8"
Part Name	
Bottom Cover	ASTM A105N
Body	ASTM A216 WCB
Body Sealing face	Overlay SS316
Sealing Ring	SS316+Graphite
Disc	ASTM A351 CF8M
Retaining Ring	ASTM A182 F316
Pin	ASTM A182 F316
Stem	ASTM A182 F316
Stem Bushing	PTFE/SS
Packing	Graphite
Bolt	ASTM A193 B7
Nut	ASTM A194 2MD Card Card
Gasket	SS316+Graphite
Design Drawing No.:	FX2410-1002-2

Shanghai, Nov. 5, 2024 (Place, date) Zhenrong Xie TÜV SÜD Certification and Testing (China) Co., Ltd

TÜV SÜD Certification and Testing (China) Co., Ltd Shanghai Office Floor 3-13, No.151, Heng Tong Road, Shanghai 200070 P. R. China

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

EHC

Заявитель Общество с ограниченной ответственностью "ТС СЕРВИС"

Место нахождения и адрес места осуществления деятельности: Российская Федерация, Москва, 117105, Россия, город Москва, Варшавское шоссе, дом 1А, этаж 3, комната 50, офис Б4Г, основной государственный регистрационный номер: 1227700162887, номер телефона: +79104694427, адрес электронной почты: ts-svs@yandex.ru

в лице Генерального директора Кузяшова Александра Васильевича

заявляет, что Арматура промышленная трубопроводная: Задвижки клиновые типа G, GP, GPS, GT; Клапаны запорные типа GL, GLA, GLB, GLC, GLT; Клапаны обратные типа S, SN, SA, SF, SBN, SBS; Кран шаровые типа B, BA, BC, BCM, BB, BBM, BT, BS, BSM, BSG; Пробковые клапаны типа L, LL, LLC; Клапаны бабочка типа T, TB, TBT, TBF, TC.

изготовитель "FX FLOW CONTROL BV". Место нахождения и адрес места осуществления деятельности по изготовлению продукции: No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, Китай.

Продукция изготавливается в соответствии с Директивами 2006/42/ЕС Безопасность машин и оборудования Код ТН ВЭД ЕАЭС 8481806390, 8481309108, 8481807399, 8481808199 Серийный выпуск

соответствует требованиям

ТР ТС 010/2011 "О безопасности машин и оборудования"

Декларация о соответствии принята на основании

Протокола испытаний № 59031-460 от 04.02.2023 года, № 40000366-10 от 06.02.2023 года, № 51252-600 от 05.02.2023 года, № 59087-20 от 04.02.2023 года, № 50172-250 от 04.02.2023 года, выданного испытательной лабораторией FX FLOW CONTROL BV. Технический паспорт № 59031-460-01, DS-TP-008, DS-TP-004, DS-TP-006, DS-TP-009; Руководство по эксплуатации № FX-OM-001 от 09.2023, Обоснование безопасности № FX001.1-2023 от 09.2023.

Схема декларирования 1д

Дополнительная информация

Стандарты, в результате применения которых на добровольной основе обеспечивается соблюдение требований Технического регламента Таможенного союза "О безопасности машин и оборудования" (ТР ТС 010/2011): ГОСТ 12.2.063-2015 "Арматура трубопроводная. Общие требования безопасности". Условия хранения согласно ГОСТ 15150-69. Назначенный срок хранения – 18 месяцев до переконсервации. Назначенный срок службы – 30 лет.

Декларация о соответствии действительна с даты регистрации по 10.01.2029 включительно

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М. П.

Кузяшов Александр Васильевич

(Ф.И.О. заявителя)

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-CN.PA01.B.07226/24 Дата регистрации декларации о соответствии: 11.01.2024

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

EAC

Заявитель Общество с ограниченной ответственностью "ТС СЕРВИС"

Место нахождения и адрес места осуществления деятельности: Российская Федерация, Москва, 117105, Россия, город Москва, Варшавское шоссе, дом 1А, этаж 3, комната 50, офис Б4Г, основной государственный регистрационный номер: 1227700162887, помер телефона: +79104694427, адрес электронной почты: ts-svs@yandex.ru

в лице Генерального директора Кузяшова Александра Васильевича

заявляет, что Арматура промышленная трубопроводная диаметром до 1600 мм, давлением до 42 МПа, 1-й и 2-й категории опасности оборудования, используемая для газа и жидкости группы 1 и 2, в соответствии с Приложением № 1 к ТР ТС 032/2013: Задвижки клиновые типа G, GP, GPS, GT; Клапаны запорные типа GL, GLA, GLB, GLC, GLT; Клапаны обратные типа S, SN, SA, SF, SBN, SBS; Кран шаровые типа B, BA, BC, BCM, BB, BBM, BT, BS, BSM, BSG; Пробковые клапаны типа L, LL, LLC; Клапаны бабочка типа T, TB, TBT, TBF, TC.

изготовитель "FX FLOW CONTROL BV". Место нахождения и адрес места осуществления деятельности по изготовлению продукции: No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, Китай.

Продукция изготавливается в соответствии с ASME B16.34; BS1873; BS1868; API600; API6D;

ISO17292; API609; API594; API623; API599; BS5353; GB/T22130

Код ТН ВЭД ЕАЭС 8481806390, 8481309108, 8481807399, 8481808199

Серийный выпуск

соответствует требованиям

ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением"

Декларация о соответствии принята на основании

Протокола испытаний № 59031-460 от 04.02.2023 года, № 40000366-10 от 06.02.2023 года, № 51252-600 от 05.02.2023 года, № 59087-20 от 04.02.2023 года, № 50172-250 от 04.02.2023 года, выданного испытательной лабораторией FX FLOW CONTROL BV. Технический паспорт № 59031-460-01, DS-TP-008, DS-TP-004, DS-TP-006, DS-TP-009; Руководство по эксплуатации № FX-OM-001 от 09.2023, Обоснование безопасности № FX001.1-2023 от 09.2023.

Схема декларирования 1д

Дополнительная информация

Стандарты, в результате применения которых на добровольной основе обеспечивается соблюдение требований Технического регламента Таможенного союза «О безопасности оборудования, работающего под избыточным давлением» (ТР ТС 032/2013): ГОСТ 12893-2005 «Клапаны регулирующие односедельные, двухседельные и клеточные. Общие технические условия», ГОСТ 21345-2005 "Краны шаровые, конусные и цилиндрические на номинальное давление не более PN 250. Общие технические условия", ГОСТ 12.2.063-2015 «Арматура трубопроводная. Общие требования безопасности». Условия хранения согласно ГОСТ 15150-69. Назначенный срок хранения – 18 месяцев до переконсервации. Назначенный срок службы – 30 лет.

Декларания о соответствии действительна с даты регистрации по 10.01.2029 включительно





CERTIFICATE

(Certificate of conformity with technical requirements in:) API STANDARD 6FA FIFTH EDITION, MAY 2020

Certificate No.: 309405

Ref. Test report No.: 309406

Name and postal address of manufacturer: FX Flow Control BV

No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, P. R. China

We hereby certify that the fire test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API STANDARD 6FA FIFTH EDITION, MAY 2020 manufacturer's special requirements, the testing results of valves meet the requirements of API STANDARD 6FA FIFTH EDITION, MAY 2020

1. Description of Test Valve :

Type of Test Valve	4" CL150 Globe Valve	
Description of Valve	Globe Valve	
Valve Size (NPS)	4"	
Pressure Rating (Class)	Class 150	
Valve Body Material	ASTM A216 WCB	

2. Qualified Range of Valves :

Туре	Globe Valves	
Description of Valves	Globe Valves	
Qualified Sizes (NPS) (according to API 6FA Table 4)	4"; 6"; 8"	
Qualified Pressure Ratings (Class) (according to API 6FA Table 6)	150;300	
Qualified Marking (according to API 6FA Para.4.5)	Qualified valves shall be permanently marked: 6FA	

This certificate is issued according to API STANDARD 6FA FIFTH EDITION, MAY 2020, based upon the result of testing report on above mentioned test valve. The additional valves qualification shall be limited on similar valves of same basic design as the test valve and same nonmetallic materi als as the test valve in the seat-to-closure member seal, seat-to-body seal, stem seal, and body joint and seal according to API STANDARD 6FA FIFTH EDITION, MAY 2020, Para.5.

Shanghai, July 31, 2024 (Place, date)

sation and Testing (C) Guilin Cheny Service

TÜV SÜD Certification and Testing (China) Co., Ltd. Floor 3-13, No.151, Heng Tong Road, Shanghai, 200070, P. R. China



Certificate No.: 309405 Ref. Test report No.: 309406

Name and postal address of manufacturer: FX Flow Control BV No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, P. R. China Technical Data of Valve

1. Type of Test Valve: 4" CL150 Globe Valve

2. Description of Test Valve: Globe Valve

3. Details of Valve:

Valves Size (NPS) Material	4"
Part Name	ASTM A216 WCB
Body	ASTM A216 WCB
Bonnet	
Disc	
Seat	Overlay 13Ch
Stem	ASTM A182 F6a
Gasket	SS304 + Graphite
Packing	Graphite
Bonnet Nut	ASTM A194 2H
Bonnet Bolt	ASTM A193 B7
Gland Flange	ASTM A216 WCB
Clond	ASTM A276 410
Gianu	ASTM A276 410
Backseat	4-150LB-1 REV00
Design Drawing No.:	



Shanghai, July 31, 2024 (Place, date) TÜV SÜD Certification and Testing (China) Co., Ltd. Floor 3-13, No.151, Heng Tong Road, Shanghai, 200070, P. R. China

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Floor 3-13, No.151, Heng Tong Road, Shanghai, 200070, P. R. China Tel.: +86(0) 21 6141 0123 Fax: +86(0) 21 6140 8600 Internet: www.tuvsud.cn



CERTIFICATE

(Certificate of conformity with technical requirements in:) API STANDARD 6FA FIFTH EDITION, MAY 2020

Certificate No.: 309403

Ref. Test report No.: 309404

Name and postal address of manufacturer: FX Flow Control BV

No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, P. R. China

We hereby certify that the fire test on below valves have been conducted at the laboratory designated by manufacturer and witnessed by TÜV inspector according to requirements of API STANDARD 6FA FIFTH EDITION, MAY 2020 manufacturer's special requirements, the testing results of valves meet the requirements of API STANDARD 6FA FIFTH EDITION, MAY 2020

1. Description of Test Valve :

Type of Test Valve	4" CL150 Gate Valve	
Description of Valve	Gate Valve	
Valve Size (NPS)	4"	
Pressure Rating (Class)	Class 150	
Valve Body Material	ASTM A216 WCB	

2. Qualified Range of Valves :

Туре	Gate Valves
Description of Valves	Gate Valves
Qualified Sizes (NPS) (according to API 6FA Table 4)	4"; 6"; 8"
Qualified Pressure Ratings (Class) (according to API 6FA Table 6)	150;300
Qualified Marking (according to API 6FA Para.4.5)	Qualified valves shall be permanently marked: 6FA

Remark: the technical data of test valve see back of this certificate appendix 1.

This certificate is issued according to API STANDARD 6FA FIFTH EDITION, MAY 2020, based upon the result of testing report on above mentioned test valve. The additional valves qualification shall be limited on similar valves of same basic design as the test valve and same nonmetallic materi als as the test valve in the seat-to-closure member seal, seat-to-body seal, stem seal, and body joint and seal according to API STANDARD 6FA FIFTH EDITION, MAY 2020, Para.5.

Shanghai, July 31, 2024 (Place, date)



TÜV SÜD Certification and Testing (China) Co., Ltd. Floor 3-13, No.151, Heng Tong Road, Shanghai, 200070, P. R. China



Certificate No.: 309403 Ref. Test report No.: 309404

Name and postal address of manufacturer: FX Flow Control BV No.88, East Lianxing Road, Tangtou Industrial Zone, Oubei Street, Yongjia County, Wenzhou City, Zhejiang Province, P. R. China Technical Data of Valve

1. Type of Test Valve: 4" CL150 Gate Valve

2. Description of Test Valve: Gate Valve

3. Details of Valve:

Valves Size (NPS)	
Material Part Name	4"
Bonnet	ASTM A216 WCB
Wedge	ASTM A216 WCB+13Cr
Seat Ring	ASTM A105N+STL6
Stem	ASTM A182 F6a
Gasket	SS304 + Graphite
Stem Packing	Graphite
Bonnet Nut	ASTM A194 2H
Bonnet Bolt	ASTM A193 B7
Gland Flange	ASTM A216 WCB
Gland	ASTM A276 410
Backseat	ASTM A276 410
Design Drawing No.:	4-Z41-150LB-1 REV00



Shanghai, July 31, 2024 (Place, date)

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