

NO.	PROVINCE	TSINGSHAN CRN NO.
1	NEW BRUNSWICK	0A12282.8T
2	NOVA SCOTIA	0A12282.8
3	PRINCE EDWARD ISLAND	0A12282.89
4	NEWFOUNDLAND & LABRADOR	0A12282.80
5	NUNAVUT	0A12282.8N
6	YUKON	0A12282.8Y
7	NORTHWEST TERRITORIES	0A12282.8T
8	ONTARIO	WAITING
9	ALBERTA	0A12282.82
10	MANITOBA	NOT REQUIRED
11	QUEBEC	NOT REQUIRED
12	British Columbia	NOT REQUIRED
13	Saskatchewan	NOT REQUIRED

**STATUTORY DECLARATION
 Registration of Fittings**
 Single or Multiple Fitting Designs within one Fitting Category

I, XIE YI, QUALITY MANAGER
(name of applicant) (position title) (must be in a position of authority)
 of ZHEJIANG TSINGSHAN STEEL PIPE CO., LTD.
(name of manufacturer)
 located at XIACZHI INDUSTRIAL ZONE, WENXI TOWN, QINGTIAN COUNTY, LIS-UI CITY, ZHEJIANG PROVINCE 323903, P.R. CHINA
(plant address)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

TSINGSHAN

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

- comply with the requirements of ASME B16.9 - 2018 which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the (title of code of construction or other appl cable document) attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

Quality Program Verification and Manufacturing Sites

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	SOR-SMF-REVO TEES AND ELBOWS B16.9	ISO 9001:2015	SEE QA CERT	2023-05-19	TUV RHEINLAND	SEE QA CERT.
2.						

In support of this application, the following information, calculations and/or test data are attached:

SOR-SMF-REV0, FITTING DRAWING, ISO 9001:2015, TD-SMF-REV0

He Y.
(Signature of the Declarer)

11 JANUARY 2021
(Date)

DECLARED before me at _____ in the _____ of _____
(city) (province, territory, or state)
this _____ day of _____, _____
(Month) (Year)

(print) _____
(a Commissioner of Oaths or Notary Public)

DUE TO COVID NOTARIZATION IS NOT POSSIBLE

(sign) _____
(a Commissioner of Oaths or Notary Public)

(expiry date (mm/dd/yy))

Commissioner of Oaths / Notary Public in and for: _____
(province, territory, or state)

For ABSA Office Use Only:

NOTES: _____

<p>To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category _____.</p> <p>CRN: _____</p> <p>Registered Date: _____</p> <p>Expiry Date: <u>Jan 22, 2031</u></p> <p>Signature: _____ (Signature of the Administrator/SCO)</p> <p>The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline</p>	<p>2021-00858</p> <p>ABSA</p> <p>SAFETY CODES ACT - PROVINCE OF ALBERTA</p> <p>ACCEPTED: 0A12282.82</p> <p>See acceptance letter for conditions of registration.</p> <p>Date: 2021-03-02 By: _____ IAN WANG, P. Eng.</p> <p>This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.</p>
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Table 1 Scope of Fitting Designs**

Item #	Primary Pressure Bearing / Retaining Component	Material of Construction	Port Connections and Size Range	MDMT	Rated Pressure		Pressure Class(es) / Schedule(s)	Design Code(s) of Construction	Reference Catalogue (pages) or Drawing(s)
					At Ambient Temperature	At Maximum Temperature			
1	FITTING	SEE SCOPE SUMMARY SOR-SMF-REV0	SEE SCOPE SUMMARY	PER CODE MATL	SEE SCOPE SUMMARY SOR-SMF-REV0	SEE SCOPE SUMMARY		ASME B16.9-2018	SOR-SMF-REV0

Table 2 Additional Scope Information

List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.)
Example:
Series X Options

** For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

ZHEJIANG TSINGSHAN STEEL PIPE CO., LTD.
 Xiaozhi Industrial Zone, Wenxi Town, Qingtian County.
 Lishui City, Zhejiang Province 323903, P. R. China



1.0 Scope of Registration SOR-SMF-REV0

Product	Types	Sizes (in)	MAWP & Design Temperature	Schedule	Materials
ASME B16.9-2018 Pipe Fittings	Straight Tee	2, 2.5, 3, 3.5, 4, 5, 6, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	ASME B16.9-2018 Para. 2.1 & 2.2	10S, 40S, 80S, 160	ASTM A234, A403, A420, A815, B361, B363, B366
	90° Long Radius Elbow	2, 2.5, 3, 3.5, 4, 5, 6, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24			
	45° Long Radius Elbow	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40			

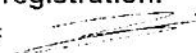
2021-00858

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0A12282.82

See acceptance letter for conditions of registration.

Date: 2021-03-02 By: 

IAN WANG, P. Eng.

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

Test report -

Burst test <input checked="" type="checkbox"/>	Final inspection <input type="checkbox"/>	Proof test <input type="checkbox"/>			
Test Report No.: T190128767					
Manufacturer: ZHEJIANG TSINGSHAN STEEL PIPE CO., LTD.	Address: Xiaozhi Industrial Zone, Wenxi Town, Qingtian County, Lishui city, Zhejiang Province, 323903, P. R. China.	Supplier:			
PURPOSE: To perform a proof (burst test) as ASME B16.9 to qualify the fittings manufactured acc. To ASME B16.9 Intended use: W.O.G Year built: 2020					
Burst test conducted	description	Heat no.	Material grade	quantities	Serial no.
Straight Tee	4" SCH40S	160110T08	WP304/304L-S	5	YB20200808-1-1
Straight Tee	12" SCH40S	FK1601-020	WP321/321H-S	5	YB20200808-2-2
Straight Tee	12" SCH40S	190723B03E	WPS32205-S	5	YB20200808-3-4
90-deg Long Radius Elbow	4" SCH40S	160110T08	WP304/304L-S	5	YB20200808-4-2
90-deg Long Radius Elbow	12" SCH40S	FK1601-020	WP321/321H-S	5	YB20200808-5-1
90-deg Long Radius Elbow	12" SCH40S	190723B03E	WPS32205-S	5	YB20200808-6-5
Straight Tee	20" SCH40S	2010976	WP304/304L-WX	5	YB20200808-7-1
45-deg Long Radius Elbow	20" SCH40S	2010976	WP304/304L-WX	5	YB20200808-8-3
SPECIFICATIONS:					
1. Regulations/Codes:		ASME B16.9			
Applied in full		<input checked="" type="checkbox"/>			
Applied in part		<input type="checkbox"/>			
Parts not applied:					
2. Standards/other Specifications: Material specification ASTM A403/ASME SA403 and ASTM A815 for grade WPS32205-S					
3. TEST PROCEDURE:					

Although the burst test allows for the component to burst in deriving the design pressure, the test report outlined herein does not permit loss of pressure boundary integrity. The test shall be performed as per Paragraph 9 of ASME B16.9.

- Test medium – water, pressurize the components gradually until one-half the design pressure is reached;
- The test pressure shall be increased in steps of approximately one tenth of the test pressure until the required test pressure obtained.
- However, test shall stop whenever leakage happens.
- Hold the pressure at the end of each increment for sufficient time to allow the observations.
- Observe for any leakage and record.

INSPECTION BEFORE TESTING:

Visual inspection	Without crack, lamination, burrs, scales etc. defect.
Geometry Dimension check	Meet requirements of ASME B16.9 table 1 and table 7
Thickness check	Without objection
Chemical composition	Without objection (checked by verification Material Test Report)
Tensile test	Without objection

BURST TEST:

Pressure rating of test pump: 100MPa Medium: Water Test temp.: 20°C
 pressure gauge serial no.: HF610001 Range of transducer: 0-100 MPa accuracy class: 1.6

Fitting description	Pressure Hold time	f factor	Specified OD (in)	Thickness (in)	Actual Tensile Strength (MPa)	Required Burst pressure (MPa)	Actual Burst pressure (MPa)
Straight Tee 4" SCH40S	3.5 min	1.05	4.5	0.237	542	59.95	61.9
Straight Tee 12" SCH40S	50 min*	1.05	12.75	0.375	545	33.67	38.5
Straight Tee 12" SCH40S	65 min*	1.05	12.75	0.375	750	46.34	48.1
90-deg Long Radius Elbow 4" SCH40S	3.5 min	1.05	4.5	0.237	540	59.73	61.8
90-deg Long Radius Elbow 12" SCH40S	4 min	1.05	12.75	0.375	548	33.86	39.8
90-deg Long Radius Elbow 12" SCH40S	72 min*	1.05	12.75	0.375	755	46.65	48.5
Straight Tee 20" SCH40S	3.5 min	1.05	20	0.375	560	22.06	24.1
45-deg Long Radius Elbow 20" SCH40S	3.5 min	1.05	20	0.375	555	21.86	24.2

Remark:

- required burst pressure calculated acc. To requirements of ASME B16.9 section 9.3: $P=2S\sqrt{D}\cdot f$
 f-testing factor; S-actual tensile strength of the test fitting; t-nominal pipe wall thickness; D-specified outside diameter of pipe
- * the time is the length of time from test initiation to the time of burst

TEST RESULT:

Straight Tee 4" SCH40S	no burst on whole fitting
Straight Tee 12" SCH40S	burst on fitting body
Straight Tee 12" SCH40S	burst on fitting body
90-deg Long Radius Elbow 4" SCH40S	no burst on whole fitting
90-deg Long Radius Elbow 12" SCH40S	no burst on whole fitting



90-deg Long Radius Elbow 12" SCH40S	burst on welding joint
Straight Tee 20" SCH40S	no burst on whole fitting
45-deg Long Radius Elbow 20" SCH40S	no burst on whole fitting

		Test Report No.: T190128767		
	MEASUREMENTS / EXAMINATIONS AND RESULTING EVALUATIONS (CHECKLIST)	Accept-able	Not applicable	Remarks
1.	Material test report		X	
2.	Calibration of measurement and test equipment		X	
Remarks: --				
MARKING ON: N.A.				
RESULT:				
The above-mentioned inspections were performed in accordance with the provisions of the stated test requirements/specifications.				
The issue of the certificate of conformity is recommended.				<input type="checkbox"/>
The Burst Test comply with requirements of ASME B16.9				<input checked="" type="checkbox"/>
Notes: --				
Location:	Beijing	Date:	Oct. 05 2020	Test Laboratory for Pressure Equipment
Attachments:				

For the 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 test laboratory is not permitted.

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 1733602**

Certificate Holder:



ZHEJIANG TSINGSHAN STEEL PIPE CO., LTD.
Unified Social Credit Code: 91331121766438559W
Registration Address: Xiaozhi Industrial Zone,
Wenxi Town, Qingtian County, Lishui City,
Zhejiang Province 323903, P. R. China
Operation Address: same as above

Scope: **Manufacture and Sales of Cold Finished Seamless Stainless Steel Tubes and Pipes, Welded Stainless Steel Tubes and Pipes, Butt-Welding Stainless Steel Pipe Fittings**

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: **The certificate is valid from 2020-05-20 until 2023-05-19. It remains valid subject to satisfactory surveillance audits. First certification 2005**

This certificate information can be searched on CNCA official website <http://www.cnca.gov.cn>

2020-03-17

TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln