



To:	TSSA	From:	Janet Townsend
Company:	Sungkwang Bend Co., Ltd	Phone:	416-747-4291
Pages:	8	Location:	Toronto
Our File:	ANR-5564	Date:	December 11, 2019

Your File: 2719400

Subject: Request for Design Registration

CSA has reviewed the documentation submitted by TSSA on behalf of Sungkwang Bend Co., Ltd. These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0A13361.56R2.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in blue ink that reads 'Janet Townsend'.

Janet Townsend
Program Manager
CSA Group
178 Rexdale Blvd.
Toronto, ON, M9W 1R3
Canada
www.csagroup.org



Statutory Declaration Registration of Fittings

(a) Design Qualification



I' Seong Yong, Kim / Head of QC Dept.
 (Position eg, president, plant manager, chief eng.)
 Of Sungkwang Bend Co., Ltd.
 (name of company)
 Located at 26, Noksansandan 262-ro, Gangseo-gu, Busan, Korea
 (plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:
- Or
- are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001, and has been verified by the following authority or authorized agency Hartford Steam Boiler RS

The fittings² covered by this declaration, for which I seek registration, are Pipe Fittings(including Elbows, Tees, Reducers, Caps, Nipples, Unions, etc.)

In support of the application, the following information, calculations and/or test data are attached:
Catalog(22th Ed.), ISO 9001(Q 127), Scope of Product Registration, Report of Design Proof Test, Calculation, Drawing

Declared before me at Busan

In the of _____ of Korea

The 19th Day of August AD 19 2019

Park Yongsoo
 A (Committee member for oaths)

Park Yong Soo

[Signature]
 Signature of Declarer

For Official Use Only

The application is accepted for registration in Category A in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ~~ten~~ 10 years from the date of acceptance. EXP: 11TH Nov 2029

Registered Number CRN CSA-0A13361.5GR2 For the Chief Inspector A. BANWATT
 Date DEC. 04. 2019

- 1 Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
- 2 All fittings are required to be registered in the name of the Manufacturer.
- 3 This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.



REGISTERED



CRN: CSA-0A13361.56R2



Technical Safety Authority of Saskatchewan

Registration Process administered by CSA Group of Canada

2202 2nd Ave. Regina, SK S4R 1K3 PH: (306)798-7112 Toll Free: (866)530-8599 FAX: (306)787-9273 Toll Free: (866)760-9255 Email: boilerpermits@tsask.ca Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Seong Yong, Kim Head of QC Dept. (company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority in the manufacturing plant where the fitting is produced)

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

of: SUNGKWANG BEND CO., LTD. (name of manufacturer)

located at: 26, Noksansandan 262-ro, Gangseo-gu, Busan, Korea 46757 (Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the Saskatchewan Boiler and Pressure Vessel Safety Act (check one) ASTM, ASME SECT II, ASME B16.9/B16.11/B16.25/B31.3/B36.10/B36.19, MSS SP-95, -99, -83, -95, -97



- Comply with the requirements of ASTM, ASME SECT II, ASME B16.9/B16.11/B16.25/B31.3/B36.10/B36.19, MSS SP-95, -99, -83, -95, -97 which specifies the dimensions, 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 attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, Hartford Steam Boiler Registration Services as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Pipe Fittings (including Elbows, Tees, Reducers, Caps, Nipples, Unions, etc.)

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

Catalog (22th Ed.), ISO 9001 (Q 127), Scope of Product Registration, Report of Design Proof Test, Calculation, Drawing

II. Declaration

DECLARED before me at Busan In the of Korea this 19th day of August, 2019.

Park Yong Soo (print name) Park Yong Soo (Signature) (Signature of Commissioner of Oaths)

III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Boiler and Pressure Vessel Safety Act and CSA B51, Clause 4.2, and is accepted for registration in Category

CSA-0A13361.56R2 (Registration Number) DEC 04 2019 (Date Registered) 11-11-2029 (Expiry Date - MM DD YYYY) A. BANWATT (For the Administrator / Chief Inspector)

- Note: 1. See attachment as the scope of registration. 2. Renewal registration without design change. 3. Technical review performed in the previous registration.



THIS IS PART OF
CRN 0A13361-5R2

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

Doc.No.: SKB-CRN-2019 Rev.0

Scope of Product Registration

Company Name : Sungkwang Bend Co., Ltd.

Category of Fitting	Name of Fittings	Designation of Applicable Codes and Standards	Material Specifications	Dimensions	Pressure-Temperature Ratings	Maximum Allowable Working Pressure and Temperature	Remarks
Pipe fittings	Elbows	ASME B16.9	ASTM/ASME A/SA 234, A/SA 420, A/SA 403, B/SB 366	1/2" to 48"	N/A	N/A	- Catalogue(22th Ed.) Page: 20-25, 78, 84
		ASME B16.9 / Drawing No. : SKB-R19072301 Rev.0	ASTM/ASME A/SA 234, A/SA 420, A/SA 403	50" to 96"	N/A	N/A	- Report of Design Proof Test: SKDPT-20141023-01
		ASME B31.3 / Drawing No. : SKB-S19022501 Rev.0	ASTM/ASME A/SA 403	96", 102", 110"	N/A	N/A	- Calculation: SKB-C190220-06 Rev.0
		ASME B31.3 / Drawing No. : SKB-S19022502 Rev.0	ASTM/ASME A/SA 403	96", 102", 110"	N/A	N/A	- Calculation: SKB-C190220-05 Rev.0
Tees		ASME B16.9	ASTM/ASME A/SA 234, A/SA 420, A/SA 403, B/SB 366	1/2" to 48"	N/A	N/A	- Catalogue(22th Ed.) Page: 26-41, 79-81
		ASME B16.9 / Drawing No.: SKB-R19072302 Rev.0	ASTM/ASME A/SA 234, A/SA 420, A/SA 403	50" to 84"	N/A	N/A	- Report of Design Proof Test: SKDPT-20141031-02
		ASME B31.3 / Drawing No. : SKB-S19022503 Rev.0 SKB-S19022504 Rev.0	ASTM/ASME A/SA 403	88", 88"x72", 96", 102", 110"	N/A	N/A	- Calculation: SKB-C190220-07 Rev.0



ATTACHMENT TO
C.R.N. 0A13361-5R2
[Signature]
 178 Hurontario Boulevard, Toronto, ON Canada M9W 1R3

Category of Fitting	Name of Fittings	Designation of Applicable Codes and Standards	Material Specifications	Dimensions	Pressure-Temperature Ratings	Maximum Allowable Working Pressure and Temperature	Remarks
Pipe Fittings	Reducers	ASME B16.9	ASTM/ASME A/SA 234, A/SA 420, A/SA 403, B/SB 366	1/2" to 48"	N/A	N/A	- Catalogue(22th Ed.) Page: 42-53, 82-83
		ASME B16.9 / Drawing No.: SKB-R19072303 Rev.0	ASTM/ASME A/SA 234, A/SA 420, A/SA 403	50" to 96"	N/A	N/A	- Report of Design Proof Test: SKDPT-20141107-03, SKDPT-20141110-03
		ASME B31.3 / Drawing No. : SKB-S19022505 Rev.0	ASTM/ASME A/SA 403	102"x80", 102"x88", 102"x96", 110"x88", 110"x96", 110"x102"	N/A	N/A	- Calculation: SKB-C190220-03 Rev.0
Caps		ASME B16.9	ASTM/ASME A/SA 234, A/SA 420, A/SA 403, B/SB 366	1/2" to 48"	N/A	N/A	- Catalogue(22th Ed.) Page: 54-55, 84
		ASME B16.9 / Drawing No.: SKB-R19072304 Rev.0	ASTM/ASME A/SA 234, A/SA 420, A/SA 403	50" to 96"	N/A	N/A	- Report of Design Proof Test: SKDPT-20141107-06
		ASME B31.3 / Drawing No. : SKB-S19022506 Rev.0	ASTM/ASME A/SA 403	102", 110"	N/A	N/A	- Calculation: SKB-C190220-04 Rev.0
Lateral Pipe Fittings		ASME B31.3 / Drawing No. : SKB-R19072305 Rev.0	ASTM/ASME A/SA 105, A/SA 182, A/SA 350, A/SA 234	1" to 4"	N/A	N/A	-Report of Design Proof Test: SKDPT-SQ2-08

THIS IS PART OF
 CRN 0A13361-5R2
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Division

20F3

CSA GROUP

ATTACHMENT TO
 CRN: CSA-0A13361-5GR2
 Signed: [Signature]
 580, 5160
 50 Adelaide Boulevard, Toronto, ON Canada M5R 1B6

Category of Fitting	Name of Fittings	Designation of Applicable Codes and Standards	Material Specifications	Dimensions	Pressure-Temperature Ratings	Maximum Allowable Working Pressure and Temperature	Remarks
A: Pipe Fittings	Forged Fittings, Socket-Welding and Threaded, Lateral Forged Fittings	ASME B16.11 / Drawing No. : SKB-J19080601 Rev.0	ASTM/ASME A/SA 105, A/SA 182, A/SA 350 THIS IS PART OF CRN 0A13361-5R2 Technical Standards & Safety Authority Boilers & Pressure Vessels	1/8" to 4"	Pressure Ratings : Class 2000, 3000, 6000 for threaded end fittings, Class 3000, 6000, 9000 for socket-weld end fittings	N/A	- Catalogue(22th Ed.) Page: 98-103, 108-111, 114-115 -Report of Design Proof Test: SKDPT-S02-09
	Nipples	ASME B36.10, B36.19/ Drawing No. : SKB-R19072306 Rev.0	ASTM/ASME A/SA 53, A/SA 106, A/SA 312, A/SA 335	1/8" to 6"	S80, S160, XXS	N/A	
	Swaged Nipples	MSS SP-95	ASTM/ASME A/SA 105, A/SA 182, A/SA 350	1/2" to 6"	S80, S160, XXS	N/A	- Catalogue(22th Ed.) Page: 117 -Report of Design Proof Test: SKDPT-S02-10 ~ -15
	Socket-Welding Reducer Inserts	MSS SP-79	ASTM/ASME A/SA 105, A/SA 182, A/SA 350	3/8"x1/4" to 4x1 1/4"	Pressure Ratings : Class 3000, 6000	N/A	- Catalogue(22th Ed.) Page: 104-105
	Integrally Reinforced Forged Branch Outlet Fittings, Latrolet Fittings	MSS SP-97 / Drawing No. : SKB-J19080602 Rev.0	ASTM/ASME A/SA 105, A/SA 182, A/SA 350	Weldolet: 1" to 12" Sockolet: 1/2" to 4" Latrolet: 1/2" to 2"	Class of Fittings : N/A Weldolet : STD, X-S, S80, S160, XX-S Sockolet : 3000, 6000, 9000 Latrolet : 3000	N/A	- Catalogue(22th Ed.) Page: 118-120 -Report of Design Proof Test: SKDPT-S02-11 ~ -07
	Union	MSS SP-83	ASTM/ASME A/SA 105, A/SA 182	1/8" to 3"	Pressure Ratings : Class 3000	N/A	- Catalogue(22th Ed.) Page: 106-107, 111-113

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CRN 0A13361-16R2
 307-3
 100 King Street West, Toronto, ON Canada M5X 1C4