ABSA
the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

November 26, 2018

Attention: Tim Cozens
A R THOMSON GROUP
215 CLEARSKYE WAY
RED DEER, AB T4E 0A1

Email: cozens.tim@arthomson.com

The design submission, tracking number 2018-06625, originally received on October 04, 2018 was surveyed and accepted for registration as follows:

CRN : 0C19107.2
Accepted on: November 26, 2018
Reg Type: NEW DESIGN
Expiry Date: November 26, 2028
Drawing No. : QSC503 Rev B
Fitting type: VALVE

Design registered in the name of : BMT CO LTD

The registration is conditional on your compliance with the following notes:

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.1 and B16.34.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

Unlisted material shall be in compliance with code of construction and suitable for MDMT.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3388 or fax (780) 437-7787 or e-mail Liu@absa.ca.

Sincerely,

LIU, XING, P. Eng.
DOP Cert. No. D00008861

Alberta Municipal Affairs

ABSA
the pressure equipment safety authority

AB-41 2016-01

STATUTORY DECLARATION
Registration of Fittings

I, Mr Jong Chan, Yoon (name of applicant), President (position title) (must be in a position of authority)

of BMT Co., Ltd. (name of manufacturer)

located at 21-1 BukJeong-Dong, YangSan-si, GyungSangNam-Do, Korea (plant address)

In this space, show facsimile of manufacturer's marks will appear on the fitting.

SUPERLOK

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

☒ comply with the requirements of ASME B31.1 and ASME B16.34 (title of recognized North American Standard) 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 _____ (title of code of construction or other applicable document) 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, HSB Registration Service as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

Bleed, Ball, Plug, Toggle, Needle, Purge, Manifold Valves - see attached scope statement (brief description of fittings)

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

Superlok catalog, Design reports, AR Thomson System Procedure # QSC503

DECLARED before me at YangSan (city) in the Gyeongsang namdo of Korea (province or state)

this 19th day of September (Month), 2018 (Year)

(print) JANG WOON YEOUNG (a Commissioner of Oaths or Notary Public)

(sign) Jang woon yeoung (a Commissioner of Oaths or Notary Public)

(signature of applicant)

For ABSA Office Use Only:

NOTES: _____

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

Registration Number: OC19107.2

(Signature of the Administrator/SCO)

Date Registered: 2018-11-26

Expiry Date: 2028-11-26

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.

Product Description	Primary Pressure Bearing/Retaining Component	Material of Construction	End Connections and Size Range	Design Condition		MDMT	Pressure Class or Schedule	Design Code of Construction or Standard	Catalog Page or Drawing Numbers
				Pressure at Ambient Temp.	Pressure at Design Temp.				
Ball Valve SBV120H	Fitting Body	ASTM A182 grade 316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/16" to 3/4"	Up to 3000psig @ 70°F (See catalog)	Up to 3000psig @ 150°F (See catalog)	50°F (10°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 2-5)
Ball Valve SBV210/SBVL210	Fitting Body	ASTM A276 grade 316 / ASTM A182 grade 316 / ASTM A351 grade CF8M	Superlok Tube Fitting CRN 0A18364.5C or Female NPT 1 /4" to 1"	1000psig @ 70°F (See catalog)	280psig @ 450°F (See catalog)	32°F (0°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 6-8, 12-13)
Ball Valve (SBVH360)	Fitting Body	ASTM A276, grade 316	Superlok Tube fitting CRN 0A18364.5C or Female NPT or Male NPT 1/4" to 1"	Up to 5000psig @70°F (See Table 1 below)	Up to 5000psig @446°F (See Table 1 below)	-65°F (-54°C) with PEEK seat	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 9-11)
Trunnion Ball Valve (SBT)	Fitting Body	ASTM A276, grade 316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT 1/8" to 1/2"	Up to 6000psig @ 70°F (See catalog)	Up to 1500psig @ 450°F (See catalog)	0°F (-17°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 17-20)
Trunnion Ball Valve (SBTH)	Fitting Body	ASTM A276 grade 316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT 1/8" to 1/2"	Up to 10,000psig @ 70°F (See catalog)	Up to 500psig @450°F (See catalog)	0°F (-17°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 17-20)
Forged High Pressure Ball Valve SBVF360	Fitting Body	ASTM A182, grade 316 ASTM A276 grade 316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 3/4"	Up to 6000psig (See Table 2 below)	Up to 6000psig @450°F (See Table 2 below)	-65°F (-53°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 29-32)
Forged High Pressure Locking Ball Valve SBVL360	Fitting Body	ASTM A276 grade 316 ASTM A351 grade CF8M	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 3/4"	Up to 6000psig (See Table 2 below)	Up to 700psig @400°F (See Table 2 below)	-65°F (-53°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 14-16)
Integral Bonnet Needle Valves SINV	Fitting Body	ASTM A182, grade 316; ASTM B564, Alloy 400	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 3/4"	Up to 5000psig @70°F (See catalog)	Up to 3130psig @ 600°F (See catalog)	-65°F (-53°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 34-37)
Union Bonnet Needle Valves SUNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy 400; ASTM B574, Alloy C-276;	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 1"	Up to 6000psig @ 70°F (See catalog)	Up to 1715psig @ 1200°F (See catalog)	-65°F (-53°C)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 38-41)
Integral Bonnet Bar Stock Needle Valve SBNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy R-405;	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT or Female ISO 1/4" to 1/2"	6000psig @ 70°F (See catalog)	Up to 4130psig @ 450°F (See catalog)	-65°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 42-45)
High Pressure Bar Stock Needle Valves SHBNV	Fitting Body	ASTM A479 Grade 316 or ASTM A105	Female NPT or Male NPT 1/4" to 1/2"	10,000psig @ 70°F (See catalog)	Up to 4000psig @ 500°F (See catalog)	As low as -65°F (See catalog)	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 46-47)

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Product Description	Primary Pressure Bearing/Retaining Component	Material of Construction	End Connections and Size Range	Design Condition		MDMT	Pressure Class or Schedule	Design Code of Construction or Standard	Catalog Page or Drawing Numbers
				Pressure at Ambient Temp.	Pressure at Design Temp.				
Instrumentation Manifold Valves SM2/3/5	Fitting Body	ASTM A276 or A479 Grade 316	Female NPT or Flange 1/4" to 1/2"	6000psig @ 70°F (See catalog)	Up to 1715psig @ 1200°F (See catalog)	-65°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 48-55)
Instrumentation Gauge Valves SGBV/SGBV2	Fitting Body	ASTM A276, grade 316	Female NPT or Male NPT ¼" to ¾"	6000psig @ 70°F	6000psig @ 450°F	-65°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 56-57)
Swing Out Ball Valves SWB320	Fitting Body	ASTM A351, CF8M	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Socket Weld or Butt Weld 1/8" to 2"	Up to 3000psig @ 70°F	Up to 800psig @ 450°F	-20°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 21-25)
Plug Valves SPV130	Fitting Body	ASTM A276, grade 316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 1/2"	Up to 3000psig @ 70°F (See catalog)	Up to 1000psig @ 400°F (See catalog)	-10°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 58-59)
Rising Plug Valves SRPV	Fitting Body	ASTM A276, grade 316	Female NPT or Male NPT 1/4" to 3/4"	Up to 6000psig @ 70°F (See catalog)	Up to 1000psig @ 400°F (See catalog)	-20°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 60-61)
Toggle Valves STV	Fitting Body	ASTM A182 Grade F316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 1/2"	Up to 300psig @ 70°F (See catalog)	Up to 300psig @ 200°F (See catalog)	-20°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 62-63)
Bleed Valves SBLV	Fitting Body	ASTM A276 Grade 316	Male NPT or ISO Thread End 1/8" to 3/4"	Up to 10,000psig @ 70°F (See catalog)	Up to 6085psig @ 850°F (See catalog)	-65°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 64)
Purge Valve SPUV	Fitting Body	ASTM A276 Grade 316	Superlok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 1/2"	4000psig @ 70°F (See catalog)	Up to 2500psig @ 600°F (See catalog)	-65°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 65-66)

The pressure ratings in the tables below apply to the 3-way valves configuration only. The pressure rating for all other valves within the scope of this document are shown in the Superlok Canada catalog.

Table 1: Ball, 3-Way Valve Pressure Ratings Table (SBVH360)

Body Size	End Connection Sizes	ASTM A276, grade 316	
		@70F	@446F
		psig	psig
3601	¼ to ½	5000	5000
3602	½ to ¾	4000	3900
3603	¾ to 1	4000	3800

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Table 2: Forged High Pressure, 3-Way Valve Pressure Ratings Table (SBVF360, SBVL360)

Body Size	End Connection Sizes	ASTM A276, grade 316 or ASTM A182, grade 316		ASTM A276, grade 316 or ASTM A351, grade CF8M	
		SBVF360	SBVF360	SBVL360	SBVL360
		psig @70F	psig @450F	psig @70F	psig @400F
3601	1/8 to ¼	6000	6000	6000	700
3602	¼ to 3/8	5000	5000	6000	700
3603	3/8 to ¾	4500	4400	4500	700

Document Revision History

The following table lists the revision made to this document each time when this document is modified.

Rev.#	Description	Date	Author	Approver
B	Added Table 1 and 2 and updated design conditions for SBVH, SBVF and SBVL valves in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens
B	Seperated SBVF and SBVL into seperate rows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens

ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS
REGISTRATION NO. 0C19107.2
DWG. NO. or CAT. NO. QSC503 RevB
TYPE OF FITTINGS Valve
2018-11-26 INITIALS
Date
XING LIU, P.Eng.
DESIGN SURVEY ENGINEER