

Accepted on: November 26, 2018

Expiry Date: November 26, 2028

November 26, 2018

Email:cozens.tim@arthomson.com

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

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

**CRN:** 0C19107.2

Reg Type: NEW DESIGN

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 guality 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,

melan

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

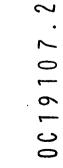
A. R. Thomson	Group	A.R. THON SYSTEM CON	QSC503 SYSTEM PROCEDURE NO.		B rev.			
R. Walker Sept. 10, 2018 WRITTEN BY DATE	T. Coz REVISE		T. Cozens REVIEWED BY	Sept. 18, 2018 DATE	Se	ept. 18, 2018	2 PAGE	3 0F
SUBJECT Superlo	k Valve	es – Scope of Reg	gistration			DCN		

	Primary Pressure		-	Design C	ondition		Pressure Class	Design Code of	Catalog Page or
Product Description	Bearing/Retaining Component	Material of Construction	End Connections and Size Range	Pressure at Amblent Temp. *	Pressure at Design Temp.	MDMT	or Schedule	Construction or Standard	Drawing Numbers
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 Mate NPT X" to X"	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 816.34 ASME 831.1	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 816.34 ASME 831.1	Superiok 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 Bail 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	Supertok Tube Fitting CRN 0A18364.SC 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	Superiok Canada "Instrumentation Bail 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 Superiok Canada catalog.

Table 1: Ball, 3-	Way Valve Pressure	Ratings Table	(SBVH360)
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	End	ASTM A276, grade 316				
Body Size	Connection	@70F	@446F			
	Sizes	psig`	• psig			
3601	1/4 to 1/2	5000	5000			
3602	1/2 to 3/4	4000	3900			
3603	³¼ to 1	4000	3800			



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ରି୮ିA. R. Thomson G	Froup S	A.R. THON SYSTEM CON					C503	E NO.	B REV.
R. Walker Sept. 10, 2018	T. Cozens	· ·	T. Cozens	Sept. 18, 2018	Se	ept. 18, 2		3 PAGE	3 ₀⊧
WRITTEN BY         DATE         REVISED BY         DATE         REVIEWED BY         DATE         EFFECTIVE           SUBJECT         Superlok Valves – Scope of Registration         DCN									

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

Body Size	End		grade 316 or 2, grade 316	ASTM A276, grade 316 or ASTM A351, grade CF8M		
	Connection	SBVF360	SBVF360	SBVL360	SBVL360	
	Sizes	psig @70F	psig @450F	psig @70F	psig @400F	
3601	1/8 to 1⁄4	6000	6000	6000	700	
3602	1⁄4 to 3/8	5000	5000	6000	700	
3603	3/8 to 3/4	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
В	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
В	Seperated SBVF and SBVL into seperate rows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens

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	SAFETY CODES ACT - PROVINCE OF ALBERTA
	REGISTRATION OF FITTINGS
	REGISTRATION NO. DC 19107.2
	REGISTRATION NO.
	DWG. NO. or CAT. NO. D.SC 503 RavB
	TYPE OF FITTINGS Value
	2018-11-26 INITIALS M
	Date INITIALS

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Registered No. 2018 - 1829

# NOTARIAL CERTIFICATE

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See.

### SAMSUNG LAW & NOTARY OFFICE INC.

Belong to Ulsan District Prosecutor's Office

168, Jungang-Ro, Yangsan-City, Gyeongsangnam-Do, Korea

TEL: +82 55 372-5599

Mberta Municipal Affairs

# STATUTORY DECLARATION Registration of Fittings

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AB-41 2016-01

				In this space, show facsimile of
I, <u>M</u>	r Jong Chan, Yoon	, President		will appear on the fitting.
	(name of applicant)	(position title) (must be in a pos	ition of authority)	" CHOCOLOV"
	BMT Co., Ltd	(name of manufacturer)		<b>%</b> SUPERLOK <sup>®</sup>
locat	ed at 21-1 Buk leong-Dong Y	angSan-si, GyungSangNam-Do, I	Когеа	Í Para de la coma
local		(plant address)		E B B B B B B B B B B B B B B B B B B B
	plemnly declare that the fittings ck one)	listed hereunder, which are subje	ect to the Safety	Codes Act
$\boxtimes$	comply with the requirement	s of ASME B31.1 and ASME B16 (title of recognized North American		specifies the dimensions,
	materials of construction, pr	essure/temperature ratings and id	dentification mar	king of the fittings, or
	are not covered by the provi	sions of a recognized North Amer	ican standard ar	nd are therefore manufactured
	to comply with		្រុំខ្លួន	s supported by the attached
	(title of c	ode of construction or other applicable do	cument)	and Second
	data which identifies the dim	ensions, materials of construction	n, pressure/temp	erature ratings and the basis
	for such ratings, and the ma	rking of the fittings for identification	on.	
l furt	her declare that the manufactu	re of these fittings is controlled by	a quality contro	I program which has been
verifi	ed by the following authority, <u>}</u>	ISB Registration Service	as being suitab	le for the manufacture of
these	e fittings to the stated standard	. The fittings covered by this dec	laration, for whic	h I seek registration, are
Ble	ed Ball Plug Toggle Needle	Purge, Manifold Valves - see atta	ached scope sta	tement
	ou, bui, 1 lug, 1 oggio, 100010,	(brief description of fittings)		<u> </u>
In su	pport of this application, the fo	llowing information, calculations a	and/or test data a	are attached:
Su	perlok catalog. Design reports.	AR Thomson System Procedure	# QSC503	
				······································
DEC	LARED before me at	ASKA in the Greensson	a hands of	Kover
	(c	ity)		(province or state)
this	day of	September, 2018		
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(prir	(a Commissioner of Oaths or N	lotary Public)	0	<u>۸</u>
loigr	Jarl woon	leaf	JU>	hm
(sigr		lotary Public)	(signature	of applicant)
For	ABSA Office Use Only:			
NOT	ES:			
To ti Stan	ne best of my knowledge and b dard B51, Clause 4.2, and is a	belief, the application meets the re accepted for registration in Catego	equirements of th	e Safety Codes Act and CSA
Regi	istration Number: 0 C 1 S	107.2	(Signature of	the Administrator/SCO)
			/ Date: 207	18-11-26
	formation you provide is necessary only ure Equipment Discipline.	for the administration of the programs as req	uired by the Alberta S	afety Codes Act and Regulations in the

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위

등부 2018 년 제 1829 호

등록신청서 에 기재된

주식회사 비엠티 대표이사 윤종찬

의 대리인 박세진은 본 공증인의 면전

에서 위 사서증서에 위 본인이 기명날

증

**(**)

인한 것임을 확인하였다.

# 법무법인 삼 성

촉탁인

Registered No. 2018 - **1829** 

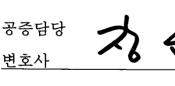
## Notarial Certificate

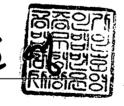
SE JIN PARK attorney-in-fact of JONG CHAN, YOON, President of BMT Co., Ltd. appeared before me and admitted principal's subscription to the attached the STATUTORY DECLARATION REGISTRATION OF FITTINGS.

2018 년 9 월 19 일 이 사무소에 서 위 인증한다.

This is hereby attested on this 19<sup>th</sup>day of SEP., 2018. at this office.

법무법인 삼 성 소속 울산지방검찰청 경남 양산시 중앙로 168. 2층





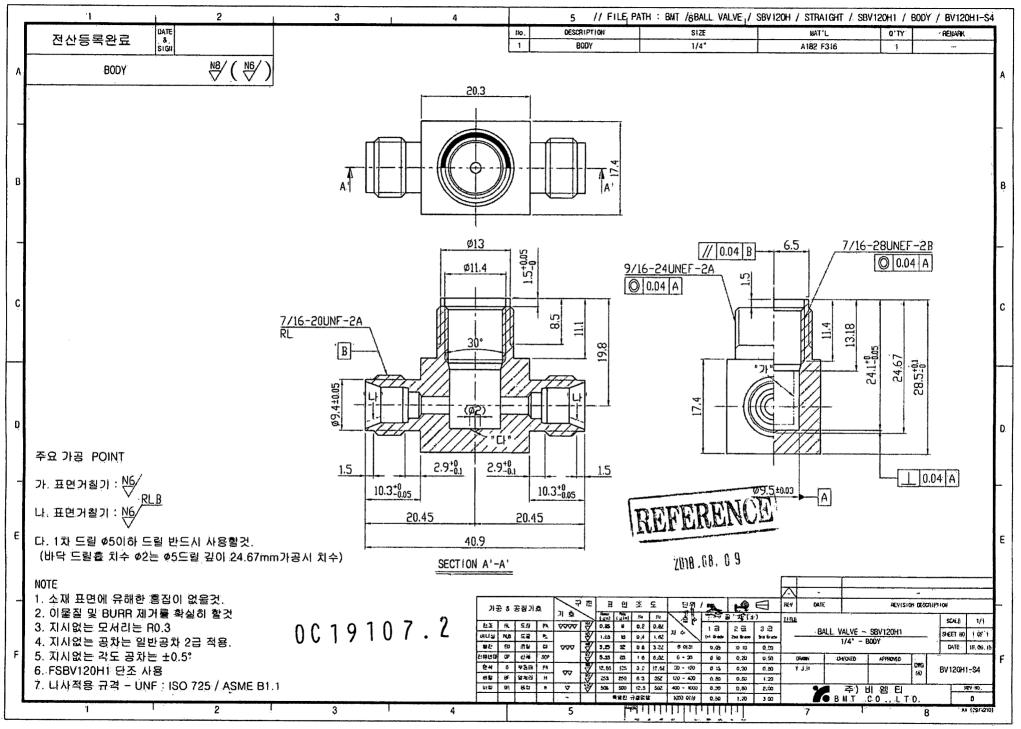
SAMSUNG Law & Notary Office INC. Belong to Ulsan District Prosecutor's Office 168, Jungang-Ro, Yangsan-City, Gyeongsangnam-do, Korea.

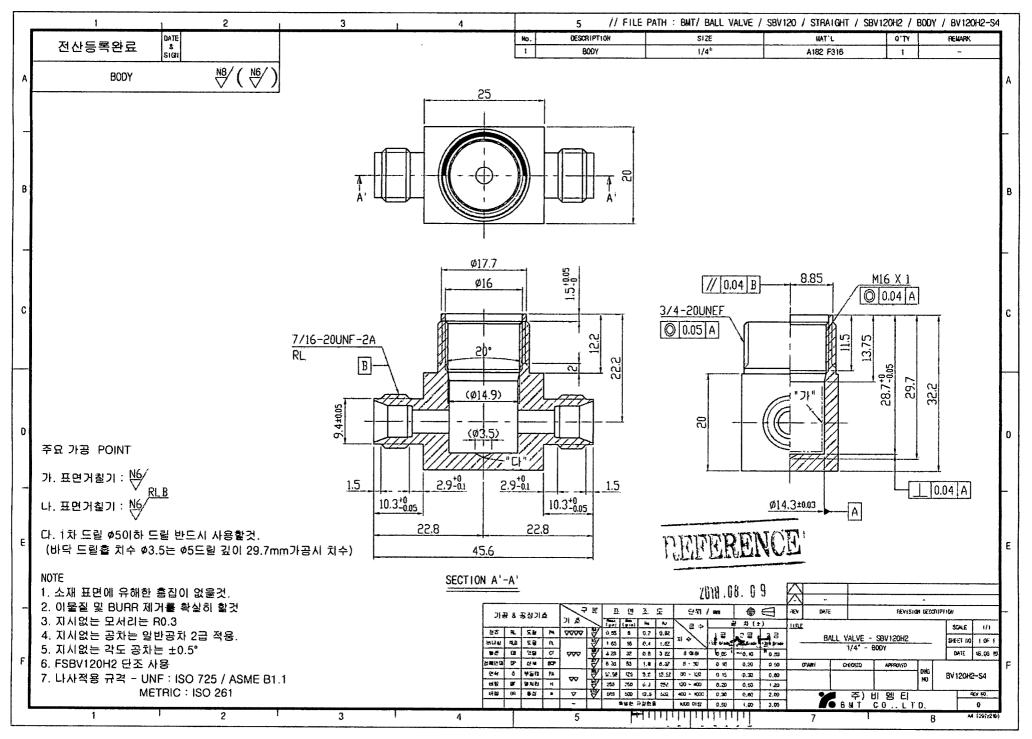
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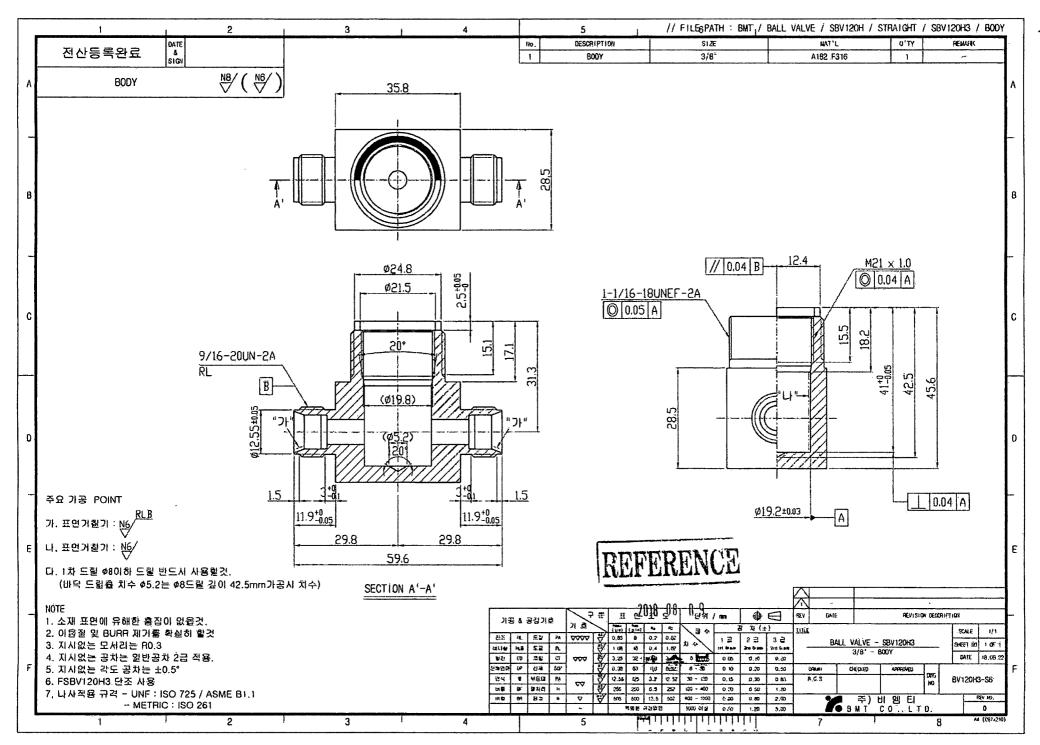
Signature of the Notary Public

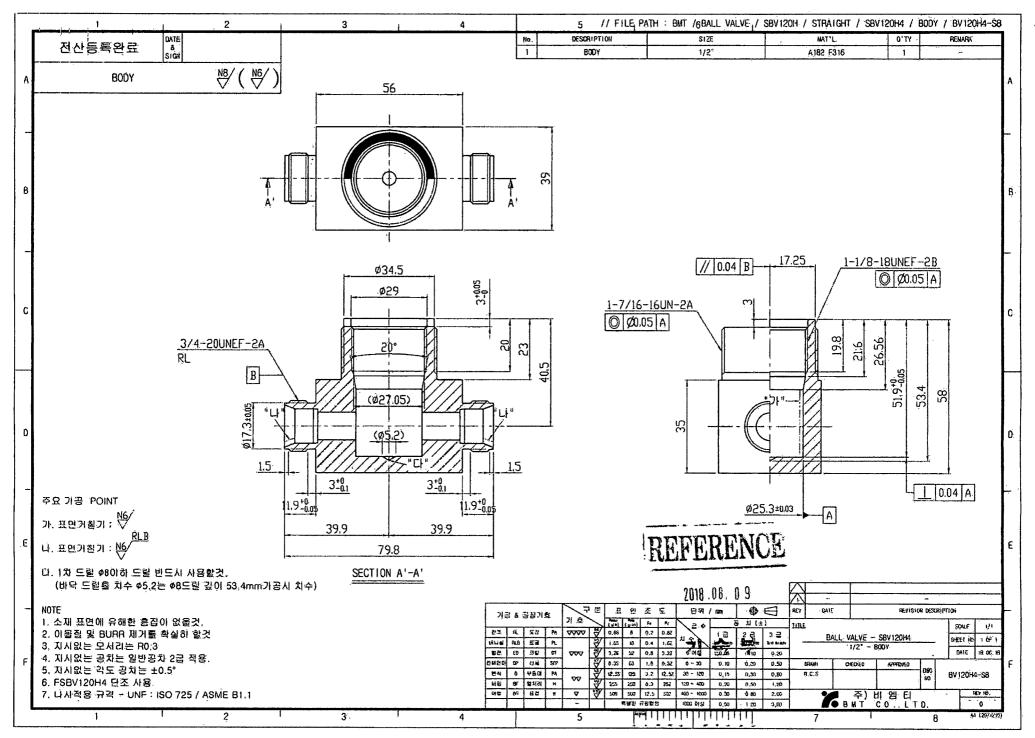
JANG WOON YEOUNG

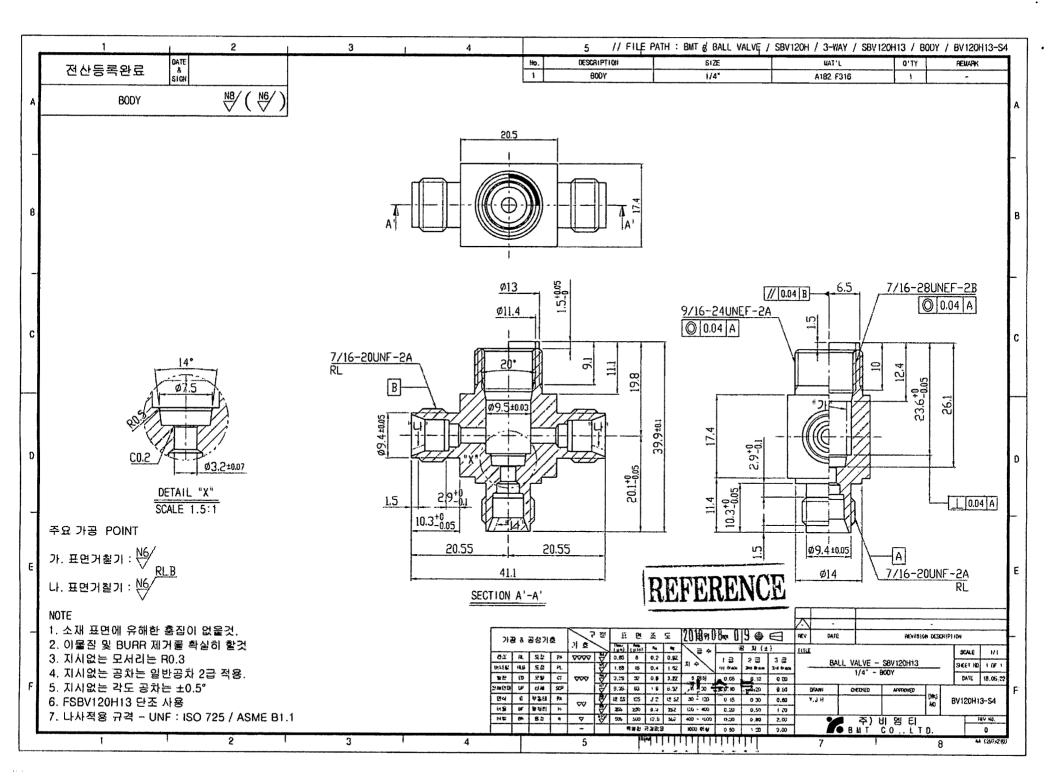
This office has been authorized by the Minister of Justice, the Republic of Korea to act as Notary Public since Feb. 7. 2015. under Law No. 220.

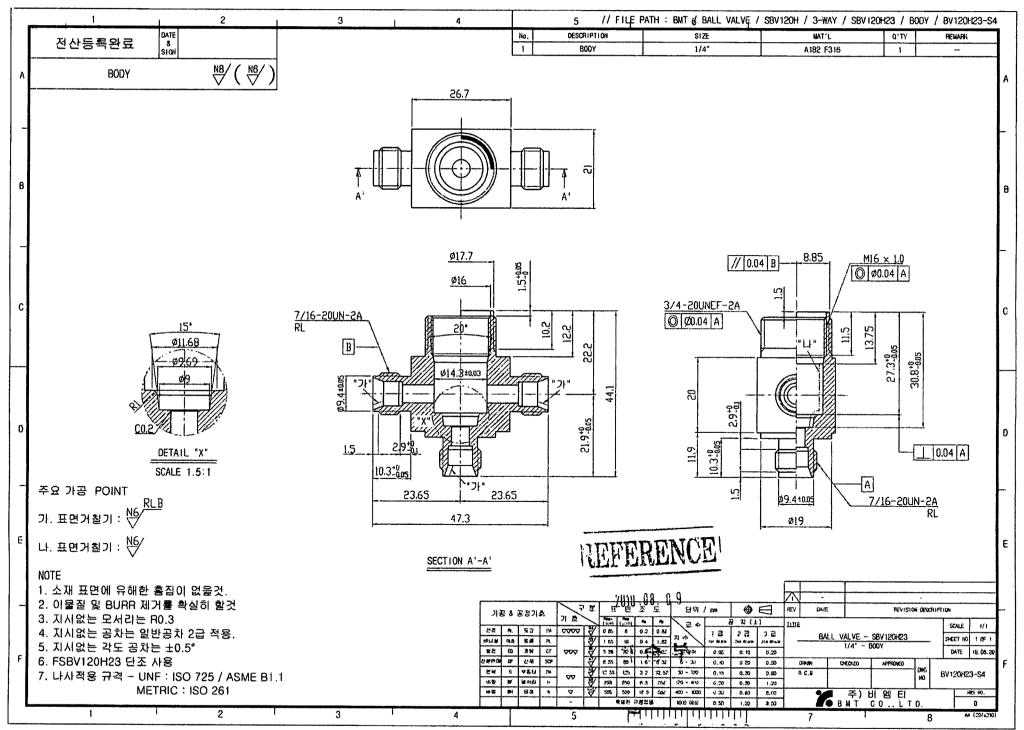


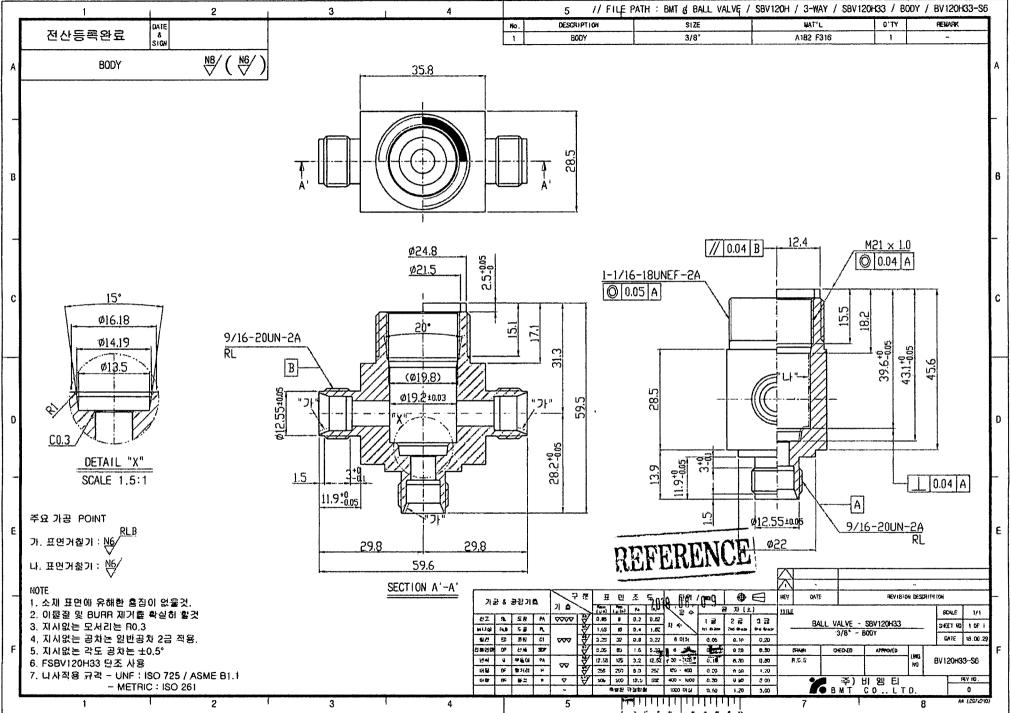


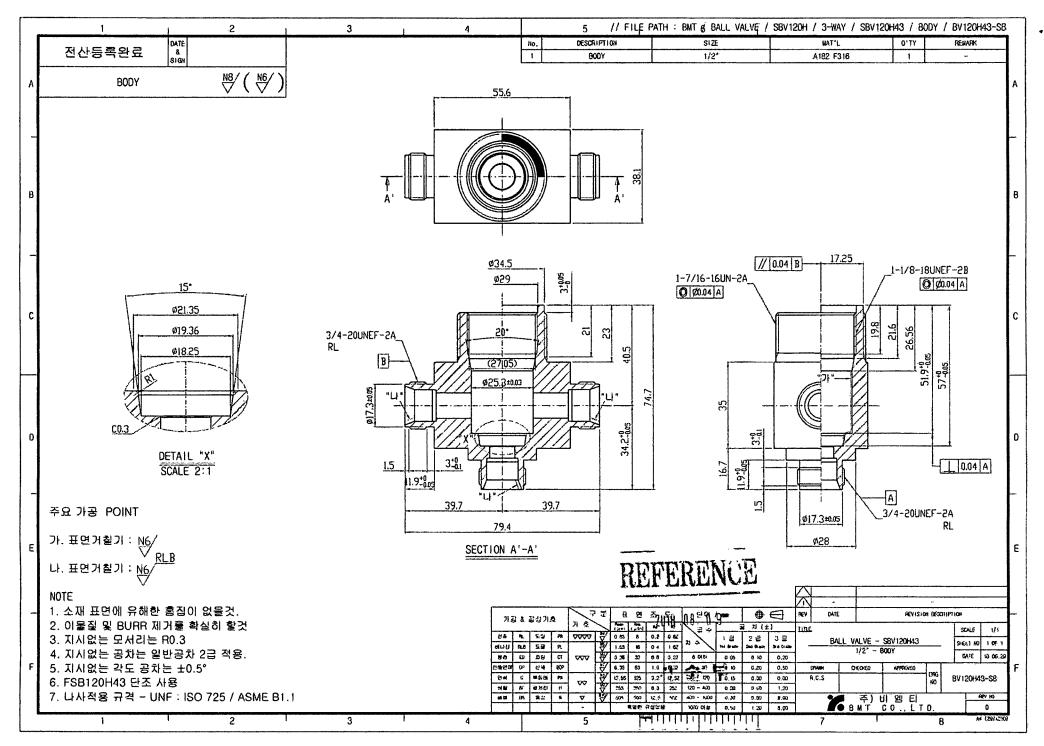














Suite 600 - 2889 E 12th Ave Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

ALBERTA BOILERS SAFETY ASSOCIATION 9410 20 AVENUE NW EDMONTON AB T6N 0A4 Date: February 19, 2019 Account #: 34986 Journal #: 72557

Attn: CYNTHIA FORMANIUK

Re: Application for Design Registration

The design, as detailed in your, 2018-06625, for a Fitting is accepted for registration as follows:

CRN:

Registered To: BMT CO LTD

Drawing #: QSC503

Drawing Revision: B

0C19107.21

#### **Conditions Of Registration:**

Registration of a Superlok Valves s per attached SOR.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

#### **Reviewer's Notes:**

As per ABSA: The code of construction is ASME B31.1 and B16.34.

As required by CSA B51 4.2.1, this registration expires on November 26, 2028. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

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



Suite 600 - 2889 E 12th Ave Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

Emilia Tam

emilia.tam@technicalsafetybc.ca Design Administration

cc:

GILL A P Thomeon Group			MSON – Red Deer NTROL PROCEDUF	RE	QSC503 SYSTEM PROCEDURE NO.		B
R. Walker Sept. 10, 2018 T. Coz WRITTENBY DATE REVISE		DBY DATE	REVIEWED BY DATE		Sept. 18, 2018 1 EFFECTIVE PAGE		3
SUBJECT Supe	rlok Valv	es - Scope of Re	gistration		DCN	1	- 4

Product	Primary Pressure	Material of	End Connections and	and the second sec	Condition	1. 1	Pressure Class	Design Code of	Catalog Page or
Description	Bearing/Retaining Composent	Construction	Size Range	Pressure at Ambient Temp.	Pressure at Design Temp	MDMT	or Schedule	Construction or Standard	Drawing Numbers
Ball Valve SBV120H	Fitting Body	ASTM A182 grade 315	Superiok Tube Fitting CRN CA18354.5C or Female NPT or Male NPT I/15" to 3/4"	Up to 3000psig @ 70*F (See catalog)	Lip ta 3000psig @ 150°F (Sea catalog)	50°F (10°C)	n/a	ASME B16.34 ASME B31.1	Superfok Canada "Instrumentation Ball Valves" (Page 2-5)
Ball Valve 58V210/SBVL210	Fitting Body	ASTM A276 grade 316 / ASTM A182 grade 315 / ASTM A351 grade CF8M	Superlok Tube Fitting CRN 0A18964.5C or Femala NPT 1 /4" to 1"	1000psig 문 70°F (See catalog)	280psig @ 450"F (See catalog)	33'F (0'C)	n/a	ASME 816,34 ASME 831,1	Superlok Canada "Instrumentation Ball Valvas" (Page 6-8, 12-13)
Ball Vatye (SBVH360)	Fitting Body	ASTM A276, grade 316	Supariok Tube fitting CRN 0A18354.5C or Female NPT or Male NPT 1/4" to 1"	Up to 5000psig @70°F (See Tabls 1 below)	Up to 5000psig @446'F (See Table 1 below)	-65*F (-54*C) with PEEK seat	n/a	ASME 816,34 ASME 832.1	Superick Canada "Instrumentation Ball Valves" {Page 9-11}
Trummion Bali Valve (SET)	Fitting Body	ASTM A276, grade 916	Superiok Tube Fitting CRN GA18364.5C or Female NPT 1/8" to 1/2"	Up to 6000ps)g @ 70°F (See catalog)	Up to 1500psig @ 450°F (See catalog)	0°F (-17°C)	n/a	ASME 816.34 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 17-20)
Trunnion Ball Valve (SBTH)	Fitting Body	ASTM AZ76 grade 316	Superiok Tube Fitting CRN 0A18364.5C or Famale NPT 1/8" to 1/2"	Up to 10,000psig @ 70°F (See catalog)	Up to 500 psig @456"F (See catslog)	0°F (-17°C)	n/s	ASME 816.94 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 17-20)
Forged High Pressure Ball Valva SBVF360	Fitting Body	ASTM A182, grade 316 ASTM A276 grade 316	Superiok Tube Fitting CRN 0A18964.5C or Fernate NPT or Male NPT 1/8" to 3/4"	Up to 6000psig (Sea Table 2 balow)	Up to 6000psig @450°F (See Table 2 below)	-65°F (-53°C)	n/a	ASME 816.34 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 29-32)
Forged High Pressure Locking Ball Yahre SBVL360	Fitting Body	ASTM A276 grade 315 ASTM A351 grade CF8M	Superiok 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 816.34 ASME 831.1	Superiok Canada "Instrumentation Bail Valves" (Page 14-16)
Integral Bonnet Needle Valves SINV	Fitting Body	ASTM A182, grade 316; ASTM 8564, Alloy 400	Superlok Tube Fitting CRN 0A18354.5C or Female NPT or Male NPT 1/8" to 3/4"	Up to S000psig @70"F (See catalog)	Up to 3130psig @ 600'F (See catalog)	-65"F (-53"C)	n/a	ASME B16.34 ASME B31.1	Superiok Canada "Instrumentation Ball Valves" (Page 34-37)
Union Bonnet Needie Valvas SUNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alioy 400; ASTM B574, Alioy C-276;	Superiok Tube Fitting CRN 0A18364.5C or Female NPT or Male NPT 1/8" to 1"	Up to 6000pr)g @ 70*F (See catalog)	Up to 1715psig @ 1200°F (See catalog).	-65'F (-53°C)	n/a	ASME 816.34 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 38-41)
Integral Bonnet Bar Stock Needle Valve SBNV	Fitting Body	ASTM A479, grade 316; ASTM 8164, Alloy R-405;	Superiok Tube Fitting GRIN 0A18364.5C or Female NPT or Mele NPT or Female ISO 1/4" to 1/2"	6000pelg & 70°F (See catalog)	Up to 4130psig @ 450°F (See catalog)	-65°F	n/a	A3ME 816.34 ASME 831.1	Superiok Canada "instrumentation Bail 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 816.94 ASME 831.1	Superick Canada "Instrumentation Ball Valyes" (Page 46-47)

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ମିନ. R. Thomson G	aroup 5		A.R. THOMSON - Red Deer STEM CONTROL PROCEDURE				B REV.
R. Walker Sept. 10, 2018 WRITTEN BY DATE	T. Cozens REVISED BY	DATE	REVIEWED BY DATE		SYSTEM PROCEDURE NO Sept. 18, 2018		3
SUBJECT Superlok	Valves	<ul> <li>Scope of Reg</li> </ul>	istration		DCN		

Product	Primary Pressure	Material of	End Connections and	Design	Design Condition		Pressure Class	Design Code of	Catalog Page or
Description	Bearing/Retaining Component	Construction	Size Range	Pressure at Ambient Temp.	Pressure at Design Temp.	MDMT	or Schedule	Construction or Standard	Drawing Numbers
instrumentation Manifold Values SM2/3/5	Fitting Bödy	ASTM A276 or A479 Grade S16	Female NPT or Flange 1/4" to 1/2"	6000psig @ 70'F (See catalog)	Up to 1715psig @ 1200'F (See cstalog)	-65*F	n/a	ASME 816.94 ASME 891.1	Superiok Canada "Instrumentation Ball Valves" (Page 48-55)
instrumentation Gauge Valves SGBV/SGBV2	Fitting Body	ASTM A276, grade 916	Female NPT or Male NPT X" to X"	6000psig 순 70°F	6000psig @ 450*F	-65°F	n/a	ASME B16.34 ASME B31.1	Superiok Canada "Instrumentation Ball Valves" (Page 56-57)
Swing Out Ball Valves SWB320	Fätting Body	ASTM A351, CF8M	Superiok Tube Fittlag CRN 0A18364.5C or Femaie NPT or Socket Weld or Butt Weld 1/8" to 2"	Up to 3000psig @ 70*F	Up to 800psig @ 450*F	-20°F	n/z	ASME 816.34 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 21-25)
Plug Valves SPV130	Fitting Body	ASTM A276, grade 316	Superlok Tube Fating CRN 0A18864.5C or Femsle 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 816,34 ASME 831,1	Superiok Canada "Instrumentation Ball Valves" (Page 58-59)
Rising Plug Valvos SRPV	Fitting Body	ASTM AZ76, grøde 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 816.34 ASME 831.1	Superlok Canada "Instrumentation Ball Valves" (Page 60-61)
Toggle Valves STV	Fitting Body	ASTM A182 Grade F316	Superiok 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 816.94 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 62-63)
Blend Veives SBLV	Fitting Body	ASTM A276 Grade 316	Msie NPT or ISO Thread End 1/8" to 3/4"	Up to 10,000psig g0 70*F (See catalog)	Up to 6085psig @ 850*F (See cetalog)	-65'F	n/s	ASME 816.34 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 64)
Purge Valve SPUV	Fitting Body	ASTM A276 Grade 316	Superiok Tube Fitting CRN 0A18964.5C or Female NPT or Male NPT 1/8" to 1/2"	4000.psig @ 70°F (See catalog)	Up to 2500psig @ 600*F (See catalog)	-65°F	n/a	ASME 816.34 ASME 831.1	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 Superiok Canada catalog.

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

	End	ASTM A276, grade 316			
Body Size	Connection	@70F	@446F		
	Sizes	psig	psig		
3601	1/4 to 1/2	5000	5000		
3602	1/2 to 3/4	4000	3900		
3603	3/4 to 1	4000	3800		



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CA. R. Thomson		SYSTEM CON	MSON - Red Deer	are l'	QSC503	15 MO	B
R. Walker Sept. 10, 2018	T. Coz	ens Nov. 22, 2018	T. Cozens Sept. 18, 2018	Sept	. 18, 2018	AGE	3 OF
SUBJECT   Superio	k valve	s - Scope of Rec	gistration		DCN	- Fride	<u>W</u> F

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

Body Size	End Connection	ASTM A18	grade 316 or 2, grade 316	ASTM A276	grade 316 or grade CFBM
	Sizes	SBVF360	SBVF360	SBVL360	SBVL360
	and a second second second	psig @70F	psig @450F	psig @70F	psig @400F
3601	1/8 to 1/4	6000	6000	6000	
3602	1/4 to 3/8	5000	5000		700
3603	3/8 to 3/4	4500		6000	700
	0/0 (0 /4	4500	4400	4500	700

### **Document Revision History**

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

Added Table 1 and 2 and updated design conditions for SBVH, SBVF and SBVL raives in scope table	Date Nov. 22, 2018	Author Tim Cozens	Approver Tim Cozens
		1	Tim Cozens
Seperated SBVF and SBVL Into seperate ows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens
0	eperated SBVF and SBVL into seperate ws in scope table	eperated SBVF and SBVL into seperate Nov. 22, 2018 ws in scope table	eperated SBVF and SBVL into seperate Nov. 22, 2018 Tim Cozens ws in scope table

<b>ADSA</b> SAFETY CODES ACT - PROVINCE OF ALBERTA FILLIGITI ATTION OF FITTINGS ALGISTRATION NO. D C 19107.2 DVIG. NO. OF CAT. NO. D SC 503 RavB TYPE OF FITTINGS VALUE 2015-11-26 INITIALS M XING LIU, PENG. Date XING LIU, PENG. DESIGN SURVEY ENGINEER	CRN #: 0 CI9/07.21 Date: FEB 19,2019 BC J#: 72557
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June 3rd, 2019

Dear Cynthia Formaniuk

### Re: Reciprocal CRN Registration in Manitoba

Your application indicates that a CRN has been received in another Canadian Jurisdiction, and therefore your CRN has been registered in Manitoba as follows:

File Number:39650CRN:0C19107.24Scope:Valve (Drawing No. QSC503 Rev. B)Manufacturer:BMT CO. LTD

Please find attached invoice for registration.

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, a CRN issued in any Canadian Jurisdiction will be accepted for use in Manitoba.

In accordance with Steam and Pressure Plants Regulation and CSA B51, it is the manufacturer's responsibility to file a Manufacturers Data Report, including partial data reports, with our office, prior to shipping pressure equipment to Manitoba.

Please contact me directly via email at Cheryl.Lashek@gov.mb.ca for any questions or concerns.

Cheryl Lashek, P.Eng Director, ITSM Inspection and Technical Services Office of the Fire Commissioner 508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8 T (204) 945-3507 | F (204) 948-2309

# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

r 1

New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Island Northwest Territories	Newfoundland and Labrador
Manufacturers Nan	NE: BMT Co., Ltd.		
Manufacturers Add	ress: ASME35, Sanmakgongdar	nnam 11-gil Yangsan-Si,Gyeongsangnam	-do Korea
	Sanmakgongdannam 11-gil Yangs		
A Pipe fittings, including B Flanges: all flanges	g couplings, tees, elbows, Ys	ared. Circle one Category on , plugs, unions, pipe caps, or reduc	Y         Title of the Standard of           ers         Construction
Valves: all line valves D Expansion joints, flex	ible connections, and hose a	ssemblies: all types	ASME B31.1
E Strainers, filters, sepa	rators, and steam traps		ASME B16.34
transmitters		el gauges, sight glasses, levels, or	
G Certified capacity-rate boilers, pressure vess	d pressure relief devices acc els, piping and fusible plugs	eptable as primary over pressure p	rotection on
H Pressure retaining con	mponents that do not fall into	one of the above categories	(Childree Off
N Nuclear components:	Class 1 🗆 Class 2 🗆 Cla	ss 3 🗆 , (Meeting CNSC or ASME	requirements)
Show Manufacturers	Name, Trademark, or L	ogo as it will appear on the p	
			Forged B Welded D Wrought D Cast D Other B
	SUPERL	OK	Describe other:
-			Bar stock
List of supporting do	cumentation and identif	fication of the actual items to	be registered:
Bleed, Ball, Plug, Superlok catalog,	Toggle, Needle, Pu Design reports, AF	urge, Manifold Valves - R Thomson System Pro	see attached scope statement cedure # QSC503
L			
Declaration:			
ratings, and identification fittings is regulated by a ( verified by ISO 9001-HSB	quality of the end produc s the product for which re markings are in accorda Quality Control Program v as b	pistration is sought. The dimer nce with the herein named stan which extends to each plant who	and being the person having full authority nformation contained in this form is true to the best of nsions, materials of construction, pressure temperature dards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been nd I make this solemn declaration conscientiously fe under oath.
Signature of Declarer:	So m		
Declared before me at	CALICUNG LAW & NO	THEY OFFICE THE	बहिशा र
This 19th day of		2017	
Commissioner of Oaths			
Or Notary Public: (sign)	Jagwoo	yeing 1	
of reotary r ublic. (sight)	(Affix Official seal to the	NG WOON VEA	INA CONTRACTOR
		his space for Regulatory Authority	UN UDEPT OF JU
	This registration must be	e revalidated after ten (10) years in	om the date of acceptance.
CRN: 0C19107.	2		REGISTRATION ONLY
FID#: 15715	8		CRN OC 9107,27
Notes:			
h Hardinger	red in the name of the Manufact		Ky Curt
<ol> <li>Each Category shall be an and one copy of supporting</li> </ol>	ported with two Statutory Declar documentation.	aration forms	CHIEF BOILER INSPECTOR
3. The Declaration shall be m	ade by the person having full au	ithority and	1/11/2019
responsibility for the quality 4. Quality Control programs	of the end product.		DATE 1/11/02019
- consurt choused by consume a	The point of the submitted for validation	n.	Sect 1.0 - Fittings Rev.2
11/2016	**}		BLRs PVs
			FITTINGS TNUCLEAR COMPONENTS

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# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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Nunavul	Yukon	Prince Edward Isl Northwest Territo		Newfoundland and Labrador
Manufacturers Na	ME; BMT Co., Ltd			
Manufacturers Add	dress; ASME35, Sanmakgongdar	nnam 11-gil Yangsan-Si Gyaphosa	nonam-do Korea	
Plant Locations: 35,	Sanmakgongdannam 11-gil Yangs	an-Si,Gyeongsangnam-do Korea		
Categor	y of Fittings to be registe	ered. Circle one Categor	y only	Title of the Standard of
B Flanges: all flanges	ig couplings, tees, elbows, Ys,	, plugs, unions, pipe caps, or	reducers	Construction
CValves; all line valves	s			
D Expansion joints, flex	kible connections, and hose as	ssemblies: all types		ASME B31.1
F Measuring devices in	arators, and steam traps including pressure gauges, lev	al pausos, sight stassas, tau	1	ASME B16.34
transmitters				
Dollers, pressure vess	ed pressure relief devices acce sels, piping and fusible plugs imponents that do not fall into		ure protection of	" RINSINGSI
N Nuclear components:	Class 1 🗋 Class 2 🗍 Clas	ss 3 TI (Meeting CNSC or A	SME requirement	ate)
Show Manufacturers	Name, Trademark, or Lo	ogo as it will appear on t	be product	
			in product	Forged Welded Wrought :)
George .	CIBERE	Phile .		Cast O Other #
10	SUPERL	15		Describe other:
				Bar stock
List of supporting do	cumentation and identifi	cation of the actual item	s to be regist	ered:
eclaration: Iong Chan, Yoon	(see note 3) emp	loyed by BMT Co., Ltd.		and being the nerson baving full outback
tong Chan, Yoon d responsibility for the v knowledge represents ings, and identification ings is regulated by a C iffied by ISO 8001-HSE ieving it to be true, and nature of Declarer:	quality of the end product the product for which reg markings are in accordant Quality Control Program wh	do solemnly declare that t istration is sought. The di ce with the herein named nich extends to each plant ing suitable for that purpo ame force and effect as if	standards. I ft where fabrica se and I make made under o	and being the person having full authority contained in this form is true to the best of terials of construction, pressure temperature uther declare that the manufacture of these tion occurs in whole or in part and has been
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Product	Primary Pressure Bearing/Retaining	Material of	End Connections and	1	Condition		Dragours Class	Design Code of	Catalog Page or
Description	Component	Construction	Size Range	Pressure at Ambient Temp.	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Construction or Standard	Drawing Numbers
Ball Valve SBV120H	Fitting Body	ASTM A182 grade 316	Superiok 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	Superiok 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 ar Female NPT 1/4" to 1"	1000psig @ 70°F (See catalog)	280psig @ 450'F (See catalog)	32"F (0"C)	n/a	A5ME B16.34 A5ME 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	Superick 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	Superiok 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	Superiok 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 Bady	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 Vaives" (Page 34-37)
Union Bonnet Needle Valves SUNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy 400; ASTM B574, Alloy C-276;	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 38-41)
ntegral Bonnet ar Stock Needle Valve SBNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy R-405;	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 42-45)
gh 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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A. R. Thomso	n Group		MSON – Red Deer NTROL PROCEDUR		QSC503 SYSTEM PROCEDUR	ENO	B
R. Walker Sept. 10, 2018 T. Co WRITTEN BY DATE REVISE		Zens Nov. 22, 2018	T. Cozens Sept. 18, 2018	Sept	t. 18, 2018	2 PAGE	3 0F
SUBJECT   Super	ok Valv	es - Scope of Reg	gistration		DCN	TAGE	OF

Product	Primary Pressure Bearing/Retaining	Material of	End Connections and	Design	Condition			Design Code of	Catalog Page or
Description	Component	Construction	Size Range	Pressure at Ambient Temp	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Construction or Standard	Drawing Numbers
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 816.34 ASME 831.1	Superlok Canada "Instrumentatior Ball Valves" (Page 48-55)
Instrumentation Gauge Valves SGBV/SGBV2	Fitting Body	ASTM A276, grade 316	Female NPT or Male NPT %" to %"	6000psig @ 70°F	6000psig @ 450*F	-65*F	n/a	ASME 816.34 ASME 831.1	Superlok Canada "Instrumentation Ball Valves" (Page 56-57)
Swing Out Ball Valves SWB320	Fitting Body	ASTM A351, CF8M	Superiok 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	Superiok Canada "instrumentation Ball Valves" (Page 58-59)
Rising Plug Valves SRPV	Fitting Body	ASTM A276, grade 316	Fernale 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	Superiok 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	Superiok 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 Superiok Canada catalog.

Table 1. Dall, 5-Way valve Pre	essure Ratings Table (SBVH360)
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200 C	End	ASTM A276, grade 316			
Body Size	Connection	@70F	@446F psig		
	Sizes	psig			
3601	1/4 to 1/2	5000	5000		
3602	1/2 to 3/4	4000	3900		
3603	3¼ to 1	4000	3800		

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OII A. R. Thomson Group OVETER CONTROL DROCEDURE							QSC503 SYSTEM PROCEDURE NO.		B REV.
R. Walker Sept. 10, 2018	T. Cozens	Nov. 22, 2018	T. Cozens	Sept. 18, 2018	Se	ept. 18, EFFECTR		3 PAGE	3 ₀ғ
		Scope of Reg	jistration				DCN		

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

	End		grade 316 or , grade 316	ASTM A276, grade 316 or ASTM A351, grade CF8M		
Body Size	Connection	SBVF360	SBVF360	SBVL360	SBVL360	
	Sizes	psig @70F	psig @450F	psig @70F	psig @400F	
3601	1/8 to 1⁄4	6000	6000	6000	700	
3602	1⁄₄ to 3/8	5000	5000	6000	700	
3603	3/8 to 3/4	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
В	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
В	Seperated SBVF and SBVL into seperate rows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens

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	SAFETY CODES ACT - PROVINCE OF ALBERTA
	REGISTRATION OF FITTINGS
	REGISTRATION NO. 0 C 1 9 1 0 7 . 2
	REGISTRATION NO.
	DWG. NO. or CAT. NO. D.SC 503 Rav B
	TYPE OF FITTINGS Value
	2018-11-26 INITIALS
	Date XING LIU, P.Eng.
	Date DESIGN SURVEY ENGINEER

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### UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Proposiels	Name O. M			THON OF FITTING DESIGNS
New Brunswick Nunavut	Nova Scotla Yukon	Prince Edward Is Northwest Territe	sland M pries	Newfoundland and Labrador
Manufacturers Name				
Manufacturers Addre	SS: ASME35, Sanmakgongdar	nam 11-gil Yangsan-Si,Gyaongs	angnam-do Korea	
Plant Locations: 35, 58	nmakgangdannam 11-gil Yanga	an-Si,Gyeongsangnam-do Korea		
A Pipe fittings, including	of Fittings to be register suplings, less, elbows, Ys	plugs, unions, pipe caps, o		Title of the Standard of
B Flanges: all flanges		re-ger entens, pipe oaps, o	10000013	Construction
CValves: all line valves D Expansion joints, flexible	e connections, and hose a	stemblies: oll hunor		ASME B31.1
E Strainers, filters, separa	lors, and sleam trans			ASME B16.34
F Measuring devices, incl transmitters	iding pressure gauges, lav	el gauges, sight glasses, lev	els, or pressure	
G Certified capacity-rated	pressure relief devices acce s, piping and fusible plugs	eplable as primary over pres	sure protection on	ISTRO- ST
H Pressure rateining comp	ionents that do not fail into	one of the above categories		UNIIOH2OI
N Nuclear components: 0	lass 1 🛛 Class 2 🗖 Clas	is 3 🗆 , (Meeting CNSC or a	ASME requirements)	
Show Manufacturers N	ame, Trademark, or Lo	ogo as it will appear on	the product	Type of Construction
				Forged Welded D Wrought D
	UPERL	UK.		Cast  Other  Describe other;
				Bar stock
List of supporting docu	mentation and Identifi	ention of the natural fire		Dar Slock
Bleed, Ball, Plug, T	oggle, Needle, Pu	irge, Manifold Valv	es - see attach	ned scope statement
Superlok catalog, D	esign reports, AR	Thomson System	Procedure #	QSC503
L				
Declaration:				Constant in the second s
Jong Chan, Yoon	(see note 3) emp	loyed by BMT Co., Ltd.	200	being the names have a little to the
and responsibility for the qu	ality of the end product	do solemnly declare that	the information on	d being the person having full authority ntained in this form is true to the best of
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believing it to be true, and ki	nowing that it is of the s	ame force and effect as i	made under oath.	solenin declaration conscientiously
Signature of Declarer:	Sc.m.		Contraction of the second	
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Quality Quarto programe shall	be resubmitted for validation.	1	A- 10	107.25
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### UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick Nunavut

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Nova Scotia Yukon Prince Edward Island Northwest Territories Newfoundland and Labrador

Manufacturers Name: BMT Co., Ltd.	
Manufacturers Address; ASME35, Senmakgongdannam 11-gil Yangsen-Si, Gyeongaangnam-do Korea	
Plant Locations; 35, Sannakgongdannam 11-gil Yangsan-Si, Gyeongsangnam-do Korea	
Category of Fittings to be registered. Circle one Category only	Title of the Directory I
A Pipe fittings, including couplings, tees, albows, Ys, plugs, unions, pipe caps, or reducers	Title of the Standard of Construction
B Flanges: all flanges	
CValves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types	ASME B31.1
E Strainers, filters, separators, and steam traps	ASME B16.34
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure	
transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on	Anna a still
boilers, pressure vessele, piping and fusible pluga	Risias
H Pressure retaining components that do not fail into one of the above categories	C
N Nuclear components: Class 1 Class 2 Class 3 C, (Meeting CNSC or ASME requirements)	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	Type of Construction
	Forged Welded a Wrought a
A CLIDCOLOU!	Cast D Other A
SUPERLOK .	Describe other:
	Bar stock
List of supporting documentation and identification of the actual items to be registered	l:
Bleed, Ball, Plug, Toggle, Needle, Purge, Manifold Valves - see attach	ed scope statement
Superlok catalog, Design reports, AR Thomson System Procedure # (	QSC503
	a different
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# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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New Brunswick	Nova Scotia Yukon	Prince Edward I Northwest Terril		Newfoundland and Labrador
Manufacturers Nam	10: BMT Co., Ltd.			
	ess; ASME35, Sanmakgongdan	nam 11-gil Yangsan-Si, Gyeong	sanonam-do Korea	
Plant Locations: 35, 8	anmakgongdannam 11-gil Yangsi	an-Si, Gyeongsangnam-do Korea	1	
Category	of Fittings to be registe	red Circle one Caten	on only	Title of the Standard of
A Pipe fittings, including	couplings, tees, elbows, Ys,	, plugs, unions, pipe caps, r	or reducers	Construction
B Flanges: all flanges CValves: all line valves				
D Expansion joints, flexi	ble connections, and hose as	ssemblies: all types		ASME B31.1
E Strainers, filters, separ	ators, and sleam traps			ASME B16.34
F Measuring devices, inc	cluding pressure gauges, levi	el gauges, sight glasses, le	vels, or pressure	
transmitters G Certified capacity-rated	pressure relief devices acce			1
boilers, pressure vesse	ils, piping and fusible plugs			Ribbard
H Pressure retaining con	ponents that do not fall into	one of the above categorie	8	e anone off
N Nuclear components	Class 1 🗆 Class 2 🗔 Clas	SE 3 1 /Montine CNEC as		. 1
Show Manufacturers	Name, Trademark, or Lo	no as it will appear or	ASME requirement	
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		revalidated after ten (10) y	aars from the date o	of acceptance
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4 15715			- ine ??	Boilers and
#: _15715	-		Vunavut	Pressure Vessels Act
S:			- Andrewski - A	
	d in the name of the Manufactur		R	EGISTERED
Each Calegory shall burning	octed with two Statutory Declar			
and one copy of supporting a		0	RN OCI	9107,21
The Declaration shall by man responsibility for the quality of	te by the person having full auth	hority and	T	
Quality Opinical amarane she	be resubmitted for validation		vale Jar	n 11, 2019
The province of		S	igned	Aller and A
11/2016	(n)			Fittings Rev.2
			3	Charinspector
	*****			
			Ierritoria	al Registration Fee
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345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel 416 734.3300 Fax 416.231 1626 Toll Free 1 877 682 8772

www.tssa.org

January 16, 2019

CYNTHIA FORMANIUK ALBERTA BOILERS SAFETY ASSOCIATION 9410-20 AVENUE EDMONTON AB T6N 0A4 CA

Service Request Type:BPV-Fitting RegistrationService Request No.:2469546Your Reference No.:2018-06625Registered to:BMT CO LTD

JAN 2 4 2019

Dear CYNTHIA FORMANIUK,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

### CRN No.:

Expiry Date:

### 0C19107.25

Main Design No .:

Superlok Instrumentation Ball Valve (see the attachment to the Statutory Declaration Form for the scope of registration) 26-Nov-2028

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Mark Valcic P. Eng. Engineer Specialist BPV Tel.: 416-734-3494 Fax: 416-231-1626 Email: <u>mvalcic@tssa.org</u>

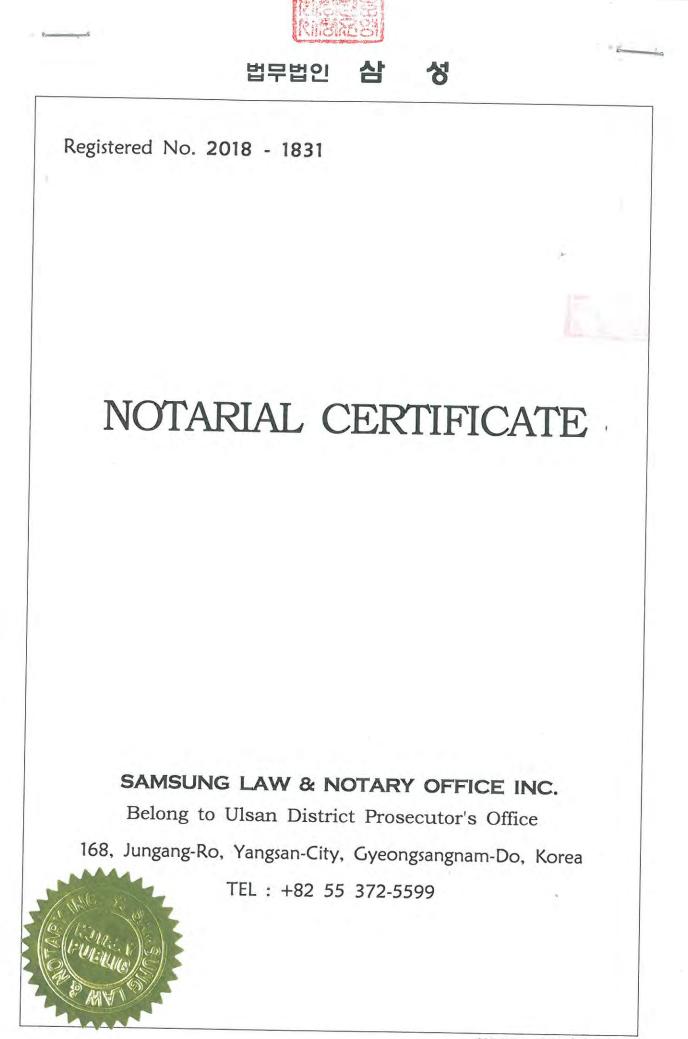


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### STATUTORY DECLARATION Registration of Fittings

	Ir Jong Chan, Yoon (name of applicant)	President	manufathgrades will appear on the fitting.
of	BMT Co., Ltd.	(position title) (must be in a position of authority)	10 CILOCOLOV
		name of manufacturer)	SUPERLOK
loca	ted at 21-1 BukJeong-Dong, Ya	ngSan-si, GyungSangNam-Do, Korea	
do o		(plant address)	5655000
(che	ck one)	isted hereunder, which are subject to the Safety	Codes Act
$\boxtimes$	comply with the requirements	of ASME B31.1 and ASME B16.34 which s (title of recognized North American Standard)	specifies the dimensions,
	materials of construction, pre	ssure/temperature ratings and identification mar	king of the fittings, or
		ons of a recognized North American standard ar	
	to comply with		s supported by the attached
		de of construction or other applicable document)	s supported by the attached
		nsions, materials of construction, pressure/temp	erature ratings and the basis
		ing of the fittings for identification.	o realing o unit the bullo
fue			internation and the second
		of these fittings is controlled by a quality contro	
verif	ied by the following authority, HS	B Registration Service as being suitable	e for the manufacture of
thes	e fittings to the stated standard.	The fittings covered by this declaration, for whic	h I seek registration, are
Die	ad Ball Dive Teach Marcillo D		
DIE	ed, Bail, Plug, Toggle, Needle, P	Purge, Manifold Valves - see attached scope stat	ement
In su	pport of this application, the follo	(brief description of fittings) (brief information, calculations and/or test data a	re attached:
		owing information, calculations and/or test data a	Boilers and Boilers and
			re attached: Boilers and Pressure Vessels Seferty Program
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## 법무법인 삼 성

등부 2018 년 제 1831 文 증  $\mathbf{0}$ 위 등록신청서 에 기재된 촉탁인 주식회사 비엠티 대표이사 윤종찬 의 대리인 박세진은 본 공증인의 면저 에서 위 사서증서에 위 본인이 기명날 인한 것임을 확인하였다. 2018 년 9 월 19 일 이 사무소에 서 위 인증한다. 법무법인 삼 성 소속 울산지방검찰청 경남 양산시 중앙로 168. 2층

공증담당

변호사

Registered No. 2018 - 1831

### Notarial Certificate

SE JIN PARK attorney-in-fact of JONG CHAN, YOON, President of BMT Co., Ltd. appeared before me and admitted principal's subscription to the attached the STATUTORY DECLARATION REGISTRATION OF FITTINGS.

This is hereby attested on this 19<sup>th</sup>day of SEP., 2018. at this office.

SAMSUNG Law & Notary Office INC. Belong to Ulsan District Prosecutor's Office 168, Jungang-Ro, Yangsan-City, Gyeongsangnam-do, Korea.

Signature of the Notary Public JANG WOON YEOUNG

This office has been authorized by the Minister of Justice, the Republic of Korea to act as Notary Public since Feb. 7. 2015. under Law No. 220.

A. R. Thoms	on Group	A.R. THOMSON – Red Deer SYSTEM CONTROL PROCEDURE				QSC503 SYSTEM PROCEDURE NO.		в
R. Walker Sept. 10, 2 WRITTEN BY DATE	REVISE	zens Nov. 22, DBY DATE	2018 T. Cozens	Sept. 18, 2018	Sept	t. 18, 2018	1	REV.
SUBJECT Supe	erlok Valv	es – Scope of	f Registration			DCN	PAGE	OF

Product	Primary Pressure	Material of	Trad Provide State	Design	Condition		1		W.S. Dawe
Description	Bearing/Retaining Component	Construction	End Connections and Size Range	Pressure at Ambient Temp.	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Design Code of Construction or Standard	Catalog Page of Drawing Numbers
Ball Valve SBV120H	Fitting Body	ASTM A182 grade 316	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 6-8, 12-13)
Ball Vaive (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 Bail 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	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 17-20)
Forged High Pressure Ball Valve SBVF360	Fitting Body	ASTM A182, grade 316 ASTM A276 grade 316	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 29-32)
Forged High Pressure Locking Ball Valve SBVL360	Fitting Body	ASTM A276 grade 316 ASTM A351 grade CF8M	Superiok 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/ə	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentation Ball Valves" (Page 34-37)
Union Bonnet Needle Vaives SUNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy 400; ASTM B574, Alloy C-276;	Superiok 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	Superiok Canada "Instrumentation Bali Valves" (Page 38-41)
ntegral Bonnet ar 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)
gh 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	Superiok Canada "Instrumentation Ball Valves" (Page 45-47)

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A. R. T	homson G	roup				Red Deer	QSC503 SYSTEM PROCEDUR	5.40	в
WRITTEN BY	pt. 10, 2018 DATE	T. Coz	ens	Nov. 22, 2018	T. Cozens	Sept. 18, 2018	 pt. 18, 2018	2	REV.
SUBJECT	Superlok	Valve	es – S	cope of Reg	istration		DCN	PAGE	OF

Product	Primary Pressure Bearing/Retaining	Material of	End Connections and	Design	Condition	1.00	Land W	Design Code of	Catalan
Description	Component	Construction	Size Range	Pressure at Amblent Temp.	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Construction or Standard	Catalog Page o Drawing Numbers
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 Canad "Instrumentatio Ball Valves" (Page 48-55)
Instrumentation Gauge Valves SGBV/SGBV2	Fitting Body	ASTM A276, grade 316	Female NPT or Male NPT ½" to ½"	6000psig @ 70*F	6000psig @ 450*F	-65°F	n/a	ASME B16.34 ASME B31.1	Superlok Canada "Instrumentatior Ball Valves" (Page 56-57)
Swing Out Ball Valves SWB320	Fitting Body	ASTM A351, CF8M	Superiok 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	Superick Canada "Instrumentation Ball Valves" (Page 21-25)
Plug Valves SPV130	Fitting Body	ASTM A276, grade 316	Superiok 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	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 64)
Purge Valve SPUV	Fitting Body	ASTM A276 Grade 316	Superiok 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	Superiok Canada "Instrumentation Bail 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. IS PAR

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

20.0.00	End		, grade 316
Body Size	Connection	@70F	@446F
	Sizes	psig	psig
3601	1/4 to 1/2	5000	5000
3602	1/2 to 3/4	4000	3900
3603	3¼ to 1	4000	3800

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Boilers & Prossure Vessels

& Safety Authority

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A. R.	Thomson G	Group	A.R. THOI SYSTEM COI			QSC503 SYSTEM PROCEDUR	E NO.	B
WRITTEN BY	Sept. 10, 2018 DATE	REVISED	DBY DATE	REVIEWED BY	Sept. 18, 2018 DATE	 pt. 18, 2018	3 PAGE	3 0F
SUBJECT	Superlok	Valve	es - Scope of Re	gistration		DCN	TAGE	Ur

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

Body Size	End	Connection ASTM A182, grade 316		ASTM A276, grade 316 or ASTM A351, grade CF8M		
Douy Olze	Sizes	SBVF360 psig @70F	SBVF360 psig @450F	SBVL360 psig @70F	SBVL360	
3601	1/8 to 1/4	6000	6000	6000	psig @400F 700	
3602	1⁄4 to 3/8	5000	5000	6000	700	
3603	3/8 to 3/4	4500	4400	4500	700	

THIS IS PART Safety Authority Boilers & Pressure Vessels Safety Program 16 19 Technical Standards

### **Document Revision History**

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

	Date	Author	Approver
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
Seperated SBVF and SBVL into seperate rows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens
	conditions for SBVH, SBVF and SBVL valves in scope table Seperated SBVF and SBVL into seperate	conditions for SBVH, SBVF and SBVL       Nov. 22, 2018         valves in scope table       Seperated SBVF and SBVL into seperate	conditions for SBVH, SBVF and SBVL     Nov. 22, 2018     Tim Cozens       valves in scope table     Seperated SBVF and SBVL into seperate     Nov. 22, 2018     Tim Cozens

	ABSA
SAFETY CODES	S /.CT - PROVINCE OF ALBERTA
<b>Fractor</b>	TATION OF FITTINGS
n.: GISTTATION N	<u>00019107.2</u>
ENG, NO. or CAT	NO. D.SC 503 Rev B
TYPE OF FITTING	s Value
<u>2018- 11-26</u> Date	NITIALS XING LIU, P.Eng. DESIGN SURVEY ENGINEER

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	STATUTORY DECL/	ARATION FORM FOR TH	E REGISTRA	TION OF FITTING DESIGNS
New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Islan Northwest Territorie	id N	lewfoundland and Labrador
Manufacturers Nam			-	
Plant Locations addr	ESS; ASME35, Senmakgongdar	nn≊m 11-gil Yangsen-Si,Gyeongsangn sn-Si,Gyeongsangnam-do Korea	am⊲o Koraa	
Category	of Fiftings to be registe	ared. Circle one Category	nlv	THE SAL DA L
A Pipe fittings, including B Flanges: all flanges	couplings, tees, elbows, Ys,	, pluga, unions, pipe caps, or rec	lucers	Title of the Standard of Construction
Valvas: all line valves	le connections, and hose as	nonmhlion, all turns		ASME B31.1
E Strainers, filters, separa	alors, and sleam traps	District Contraction of the second		ASME B16.34
F Measuring devices, incl transmitters	luding pressure gauges, lev	el gauges, sight glasaes, lavala,	or pressure	<ul> <li>Construction - Reported States and St States and States and Stat</li></ul>
G Certified capacity-rated	pressure relief devices acci	eptable as primary over pressure	protection on	Int any working
boilers, pressure vessel	is, piping and fusible plugs	one of the above categories	8.	RISIES
			-	
Show Manufacturers	Name, Trademark or L	ss 3 🗋 , (Meeting CNSC or ASM ogo as it will appear on the	te requirements)	
		NO BO IL WILL SUPERI UN LIE	product	Forged Welded D Wrought D
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		ication of the actual items Irge, Manifold Valves		
claration:		BMT Co. Ltd		
responsibility for the qu		do solemnly declare that the	Information co	ntained in this form is true to the best of
ngs, and identification m gs is regulated by a Qu fied by 150 0001-1488 awing it to be true, and k alure of Declarer: ared before me at M day of missioner of Oaths otary Public: (sign)	no product in the internet of the second and in the second and the	ce with the herein named sta hich extends to each plent we larg sullable for that purpose same force and effect as if m TARY OFFICE INC 2078	andards. I furth here fabrication and I make this	being the person having full authority ntained in this form is true to the best or als of construction, pressure temperatu er declare that the manufacture of these occurs in whole or in part and has been solemn declaration conscientiously
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To:	ABSA	From:	Janet Townsend	
Company:	BMT Co. Ltd.	Phone:	416-747-4291	
Pages:	7	Location:	Toronto	
Our File:	ANR-5245	Date:	March 19, 2019	

Your File: 2018-06625

#### Subject: Request Design Registration

Ms. Formaniuk,

CSA has received the documentation submitted by ABSA on behalf of BMT Co. Ltd. These fittings have been registered by CSA for the Province of Québec in accordance with an agreement between CSA and the Province of Québec.

The CRN is 0C19107.26.

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

Toursel

Janet Townsend Program Manager CSA Group

178 Rexdale Blvd. Toronto, ON, M9W 1R3 Canada www.csagroup.org



9410 - 20 Ave N.W Edmonton, Alberta, Canada T6N 0A Tel: (780) 437-9100 / Fax: (780) 437-778

November 26, 2018

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

Email:cozens.tim@arthomson.com

WX-900616

Accepted on: November 26, 2018

Expiry Date: November 26, 2028

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

CRN: 0C19107.2

Reg Type: **NEW DESIGN** 

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

- 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

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,

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

ATTACHMENT TO C.R.N. OC. 4 Sprai Signed: 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

	<b>REGISTERED</b> (CRN: 0 C 19 10 7 . 26
Statutory Declarat	tion Registration of Fittings
(a) Design Qualification	Registration Process administered by CSA Group per CSA B51
I <sup>1</sup> Mr. Jong Chan, Yoon	
(Nan	ne of applicant)
President (Position eg, president	t, plant manager, chief eng.)
of BMT Co., Ltd.	
	of company)
Located at 35, Sanmakgongdannam 11-gil Yangsan-S	
(plan	nt address)
do solemnly declare that the fittings listed hereunder, which are su	ubject to the Boilers & Pressure Vessels Act:
	s as to their dimensions, material, identification & service for which a
required: ASME B31.1 and ASME B16.34 Or	
are not covered by the provisions of the ANSI/ASME co	
	odes and are therefore constructed to comply with code at
standard, and are designed to the best current engineering	
standard, and are designed to the best current engineering (b) Quality control of Manufacture	
standard, and are designed to the best current engineering (b) Quality control of Manufacture I further declare the manufacture of these fittings is controlled by a ISO 9001-HSB and has been verified by the following authority or The fittings <sup>2</sup> covered by this declaration, for which I seek registration	a quality control program which complies with the requirements of r authorized agency HSB Registration Service Bleed, Needle, Ball, Plug, Toggle, Purge, Manifo tion, are Valves - see attached scope statement
standard, and are designed to the best current engineering (b) Quality control of Manufacture I further declare the manufacture of these fittings is controlled by a ISO 9001-HSB and has been verified by the following authority or The fittings <sup>2</sup> covered by this declaration, for which I seek registration	a quality control program which complies with the requirements of r authorized agency HSB Registration Service Bleed, Needle, Ball, Plug, Toggle, Purge, Manifo tion, are Valves - see attached scope statement
standard, and are designed to the best current engineering (b) Quality control of Manufacture I further declare the manufacture of these fittings is controlled by a ISO 9001-HSB and has been verified by the following authority or The fittings <sup>2</sup> covered by this declaration, for which I seek registration In support of the application, the following information, calculation Superlok catalog, Design reports, AR Thomson System	a quality control program which complies with the requirements of r authorized agency HSB Registration Service Bleed, Needle, Ball, Plug, Toggle, Purge, Manifol tion, are Valves - see attached scope statement as and/or test data are attached: m Procedure # QSC503
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standard, and are designed to the best current engineering         (b) Quality control of Manufacture         I further declare the manufacture of these fittings is controlled by a         ISO 9001-HSB and has been verified by the following authority or         The fittings <sup>2</sup> covered by this declaration, for which I seek registration         In support of the application, the following information, calculation:         Superlok catalog, Design reports, AR Thomson System         Declared before me at       SAMSUNG LAW & NOTARY OFFI         In the       CFLY of Yangsan of Korea         The       4th day of March       AD         Jay       Jay       Jay	g practice, as shown by the supporting test data. a quality control program which complies with the requirements of r authorized agency HSB Registration Service Bleed, Needle, Ball, Plug, Toggle, Purge, Manifo tion, are Valves - see attached scope statement as and/or test data are attached: m Procedure # QSC503 FLCE INC. 20/9
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CORBINISTATUTORY DECLARATION REGISTRATION OF FITTINGS.DOC

CSA Group

on form together with three copies of Catalogs, submitted. <sup>2</sup> All fittings are required to be registered in the name of the Manufacturer. <sup>3</sup> This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced. ng



# 법무법인 삼 성

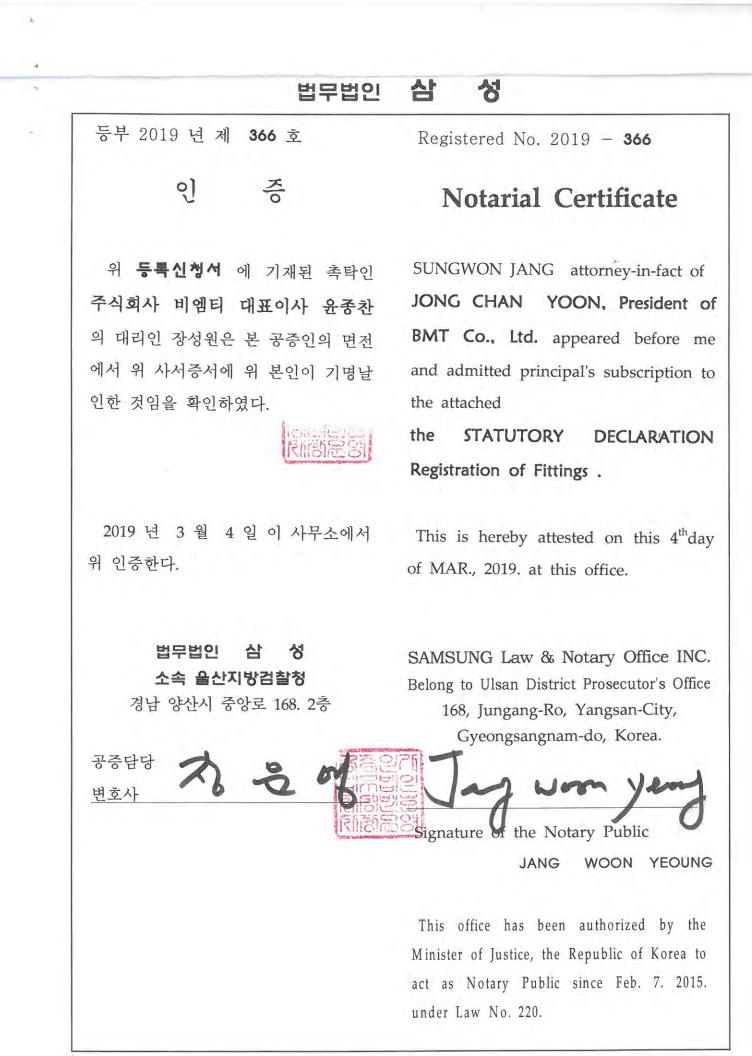
Registered No. 2019 - 366

# NOTARIAL CERTIFICATE

### SAMSUNG LAW & NOTARY OFFICE INC.

Belong to Ulsan District Prosecutor's Office 168, Jungang-Ro, Yangsan-City, Gyeongsangnam-Do, Korea

TEL: +82 55 372-5599



GE CSA Group REGISTERED CRN: 0C19107.26

Registration Process administered by CSA Group per CSA B51



1

I	Technical Review performed per CSA B51 Performed by: ANRIC Enterprises Inc.
5	Signed: ASANTEE
D	late: May. 18 - 2219

	R. Thomson Group A.R. THOMSON – Red SYSTEM CONTROL PRO					QSC503 SYSTEM PROCEDUR	E NO.	B REV.	
WRITTEN BY	Sept. 10, 2018 DATE	T. Coz REVISE	No. 10 No. 10 No. 10 No. 1 No.	T. Cozens REVIEWED BY	Sept. 18, 2018 DATE	Se	pt. 18, 2018	1 PAGE	3
SUBJECT	Superlok	Valve	es - Scope of Re	gistration			DCN	Inda	01

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Product	Primary Pressure	Material of	End Connections and	Design Condition			Pressure Class	Design Code of	Catalog Page or
Description	Bearing/Retaining Component	Construction	Size Range	Pressure at Ambient Temp.	Pressure at Design Temp.	MDMT	or Schedule	Construction or Standard	Drawing Numbers
Ball Valve SBV120H	Fitting Body	ASTM A182 grade 316	Superiok 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 cataiog)	50*F (10*C)	n/a	ASME 816.34 ASME 831.1	Superiok Canada "Instrumentation Ball Valves" (Page 2-5)
Ball Valve SBV210/SBVL210	Fitting Body	ASTM A276 grade 316 / ASTM A182 grade 316 / ASTM A351 grade CFBM	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	Superiok Canada "Instrumentation Ball Valves" (Page 6-8, 12-13)
Ball Valve (SBVH360)	Fitting Body	ASTM A276, grade 316	Superlok Tube fitting CRN 0A18364.SC Dr 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	A5ME B16.34 ASME B31.1	Superiok Canada "Instrumentation Ball Valves" (Page 17-20)
Trunnion Ball Valve (SBTH)	Fitting Body	ASTM A276 grade 316	Superiok 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	A5ME B16.34 A5ME B31.1	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 29-32)
Forged High Pressure Locking Bail Valve SBVL360	Fitting Body	ASTM A276 grade 316 ASTM A351 grade CF8M	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 14-16)
Integral Bonnet Needie Valves SINV	Fitting Body	ASTM A182, grade 316; ASTM 8564, 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	Superiok 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	Superiok 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)
ligh 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)

This document and the information herein contained are the confidential and exclusive property of A.R. Thomson Group. Any person making use of such property except as expressly authorized by A.R. Thomson Group, will be exposed to potential legal action.

ATTACHMENT TO C.R.N. OC19107.26 Signed: asbutte 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

A.R. THOMSON – Red Deer SYSTEM CONTROL PROCEDURE				DE	QSC503 SYSTEM PROCEDURE NO.		B REV.
R. Walker Sept. 10, 201 WRITTEN BY DATE	REVISE	DBY DATE	REVIEWED BY DATE	Sept. 1	1	2 PAGE	3 0F
SUBJECT Superle	ok Valve	es - Scope of Reg	gistration		DCN	TAGE	Ur

Product	Primary Pressure			Design	Design Condition			Design Code of	Catalog Page or
Description	Bearing/Retaining Component	Construction	Size Range	Pressure at Amblent Temp.	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Construction or Standard	Drawing Numbers
instrumentation Manifold Valves SM2/3/5	Fitting Bódy	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 X" to X"	6000psig @ 70*F	6000psig @ 450°F	-65*F	n/a	ASME B16.34 ASME B31.1	Superiok Canada "Instrumentation Bali Valves" (Page 56-57)
Swing Out Ball Valves SWB320	Fitting Body	ASTM A351, CFBM	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	Superiok Canada "Instrumentation Ball Valves" (Page 21-25)
Plug Valves SPV130	Fitting Body	ASTM A276, grade 316	Superiok 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	Superiok Canada "Instrumentatior 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 816.34 ASME 831.1	Superlok Canada "Instrumentation Ball Valves" (Page 60-61)
Toggle Valves STV	Fitting Body	ASTM A182 Grade F316	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 64)
Purge Valve SPUV	Fitting Body	ASTM A276 Grade 316	Superiok 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 Superiok Canada catalog.

Table 1: Ball, 3-Way Valve Pressure Ratings Table (SBVH36	Table 1: Ball, 3-Way	Valve Pressure	Ratings Table (S	BVH36
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	End	ASTM A276	, grade 316
Body Size	Connection	@70F	@446F
1. A.	Sizes	psig	psig
3601	1/4 to 1/2	5000	5000
3602	1/2 to 3/4	4000	3900
3603	3/4 to 1	4000	3800

3074 CSA 2 19107. ATTACHMENT TO C.R.N a Signed: 0 178 Rexdale Boulevard, Tarento, UN Canada M9W 1R3 0

This document and the information herein contained are the confidential and exclusive property of A.R. Thomson Group. Any person making use of such property, except as expressly authorized by A.R. Thomson Group, will be exposed to potential legal action.

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	homson G		A.R. TH SYSTEM C		Red Deer		QSC503		B
WRITTEN BY	ept. 10, 2018 DATE	T. Coz	ens Nov. 22, 20	18 T. Cozens	Sept. 18, 2018	Sep	t. 18, 2018	3	3
SOBJECT	Superlok	Valve	es - Scope of F	Registration			DCN	PAGE	OF

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

Body Size	End Connection	ASTM A18	grade 316 or 2, grade 316	ASTM A276,	grade 316 or grade CF8M
	Sizes	SBVF360 psig @70F	SBVF360 psig @450F	SBVL360 psig @70F	SBVL360
3601	1/8 to 1/4	6000	6000	6000	psig @400F 700
3602	1/4 to 3/8	5000	5000	6000	700
3603	3/8 to 3/4	4500	4400	4500	700

### **Document Revision History**

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

	Date	Author	Approver
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
Seperated SBVF and SBVL into seperate rows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens
	conditions for SBVH, SBVF and SBVL valves in scope table Seperated SBVF and SBVL into seperate	conditions for SBVH, SBVF and SBVL       Nov. 22, 2018         valves in scope table       Seperated SBVF and SBVL into seperate	conditions for SBVH, SBVF and SBVL       Nov. 22, 2018       Tim Cozens         valves in scope table       Seperated SBVF and SBVL into seperate

() CSA 40F4	<b>ADSA</b> SAFETY CODES ACT - PROVINCE OF ALBERTA FLEDISTICATION OF FITTINGS
ATTACHMENT TO C.R.N. DE19107.26 Signed: Massart	EVIS. NO. OF CAT. NO. O.S.C.503 RavB
178 Rexdate Boutevard, Toronto, GN Cenada M9W 1R3	2018-11-26     INITIALS       Date     XING LIU, PEng.       DESIGN SURVEY ENGINEER

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2202 2nd Avenue Regina, SK S4R 1K3 Canada 1 (866) 530-8599 info@tsask.ca www.tsask.ca

#### **REGISTRATION OF A PRESSURE FITTING DESIGN**

06-Feb-19

Item:

ABSA 9410 20th Avenue NW Edmonton, AB T6N 0A4 FEB 1 5 2019

File Number: 11024 [ 0 F]

Re: Manufacturer: BMT Co., Ltd.

Attention: Cynthia Formaniuk

Valves

Catalog or Drawing: Superlok Valaves - Scope of Registration, QSC503 Sht. 1-3 Rev.B

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

0C19107.23 Expiry Date: Nov 26, 2028

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Mohammad Rokanuzzaman, P.Eng. Codes and Standards Compliance

#### **Remarks:**

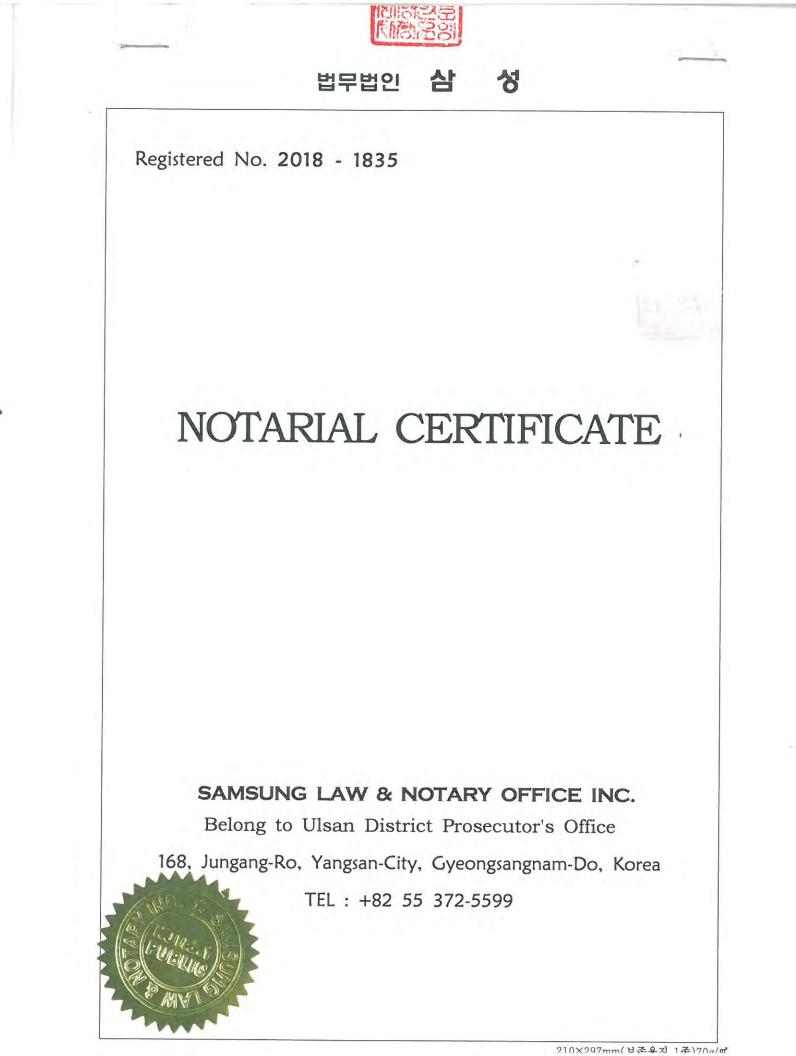
CRN registered under reciprocal agreement and conditional upon compliance with the notes on the original registration.





#### STATUTORY DECLARATION Registration of Fittings

I, <u>N</u>	Ir Jong Chan, Yoon	, President	In this space, show facsimile of manadability of
	(name of applicant)	(position title) (must be in a position of authority)	will appear on the fitting.
of _	BMT Co., Ltd.	ame of manufacturer)	SUPERLOK
locat	a start was a start and the start of the sta	ngSan-si, GyungSangNam-Do, Korea	******
		(plant address)	RICESS
do se (che	olemnly declare that the fittings lis ck one)	sted hereunder, which are subject to the Safet	y Codes Act
$\boxtimes$	comply with the requirements of	of ASME B31.1 and ASME B16.34 which (title of recognized North American Standard)	specifies the dimensions,
	materials of construction, pres	ssure/temperature ratings and identification ma	arking of the fittings, or
		ons of a recognized North American standard	
	to comply with		
		e of construction or other applicable document)	as supported by the attached
		isions, materials of construction, pressure/tem	perature ratings and the basis
		ng of the fittings for identification.	por attaine ratinge and the busis
I furt		of these fittings is controlled by a quality contr	ol program which has been
	ed by the following authority, HSE		
			ble for the manufacture of
tnese	e fittings to the stated standard. T	The fittings covered by this declaration, for whi	ch I seek registration, are
Blee	ed, Ball, Plug, Toggle, Needle, Pu	urge, Manifold Valves - see attached scope sta	atement
		(brief description of fittings)	
In su	pport of this application, the follow	wing information, calculations and/or test data	are attached:
Sup	perlok catalog, Design reports, AR	Thomson System Procedure # QSC503	Technical Safety Authority
1.5.			Boilor & P.V. Safety Unit
DEC	LARED before me at	in the Grang Lang hand o of	Corea
this	(city)	10/00 0019	(province or state) OC19107:23
	day of <u>sof</u>	(Month) ' <u>16</u> (Year)	File 11024
(prin	D JANG WOON V	(EOUNIC	REGISTERED
1	(a Commissioner of Oaths or Notar	y Public)	Data Feb 06,2019
(sign	Jang woon ye	mf Tr	MBAP. Nov 26,2028
(sign	(a Commissioner of Oaths or Notar	y Public) (signature	e of applicatilesign Survey Office
For A	ABSA Office Use Only:		
NOT	ES:		
To th Stand	e best of my knowledge and belie dard B51, Clause 4.2, and is acce	of, the application meets the requirements of the prediction in Category	ne Safety Codes Act and CSA
Regis	stration Number:		
		(Signature of	f the Administrator/SCO)
	Registered:	Expiry Date:	
The info Pressu	ormation you provide is necessary only for th re Equipment Discipline.	e administration of the programs as required by the Alberta S	afety Codes Act and Regulations in the



### 성 삼 법무법인 등부 2018 년 제 1835 호 Registered No. 2018 - 1835 증 0] Notarial Certificate SE JIN PARK attorney-in-fact of 위 등록신청서 에 기재된 촉탁인 JONG CHAN, YOON, President of 주식회사 비엠티 대표이사 윤종찬 BMT Co., Ltd. appeared before me 의 대리인 박세진은 본 공증인의 면전 and admitted principal's subscription to 에서 위 사서증서에 위 본인이 기명날 STATUTORY the attached the 인한 것임을 확인하였다. DECLARATION REGISTRATION OF FITTINGS. 2018 년 9 월 19 일 이 사무소에 This is hereby attested on this 19<sup>th</sup>day 서 위 인증한다. of SEP., 2018. at this office. 법무법인 삼 3 SAMSUNG Law & Notary Office INC. 소속 을산지방검찰청 Belong to Ulsan District Prosecutor's Office 경남 양산시 중앙로 168. 2층 168, Jungang-Ro, Yangsan-City, Gyeongsangnam-do, Korea. 공증담당 R 변호사 Signature of the Notary Public JANG WOON YEOUNG This office has been authorized by the Minister of Justice, the Republic of Korea to act as Notary Public since Feb. 7. 2015. under Law No. 220.

	Thomson G	Group		SON – Red Deer		QSC503 SYSTEM PROCEDUR		B REV.
R. Walker WRITTEN BY	Sept. 10, 2018 DATE	T. Coz REVISED	DBY DATE		Se	ept. 18, 2018	1 PAGE	3 0F
SUBJECT	Superlok	Valve	es - Scope of Reg	gistration		DCN	FAGE	OF

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Product	Primary Pressure Bearing/Retaining	Material of	End Connections and	1	Condition		Dragours Class	Design Code of	Catalog Page or
Description	Component	Construction	Size Range	Pressure at Ambient Temp.	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Construction or Standard	Drawing Numbers
Ball Valve SBV120H	Fitting Body	ASTM A182 grade 316	Superiok 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	Superiok 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 ar Female NPT 1/4" to 1"	1000psig @ 70°F (See catalog)	280psig @ 450'F (See catalog)	32"F (0"C)	n/a	A5ME B16.34 A5ME 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	Superick 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	Superiok 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	Superiok 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 Bady	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 Vaives" (Page 34-37)
Union Bonnet Needle Valves SUNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy 400; ASTM B574, Alloy C-276;	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 38-41)
ntegral Bonnet ar Stock Needle Valve SBNV	Fitting Body	ASTM A479, grade 316; ASTM B164, Alloy R-405;	Superiok 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	Superiok Canada "Instrumentation Ball Valves" (Page 42-45)
gh 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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A. R. Thomson Group			A.R. THOM YSTEM COM		QSC503 SYSTEM PROCEDURE NO.		в	
WRITTEN BY	DATE F	. Cozens REVISED BY	Nov. 22, 2018	T. Cozens Sept. 18, 2018	Sep	ot. 18, 2018		REV.
SUBJECT	Superlok V	alves -	Scope of Reg	gistration		DCN	TAGE	

Product	Primary Pressure Bearing/Retaining	Material of	End Connections and	Design	Condition			Design Code of	Catalan Da
Description	Component	Constanting	Size Range	Pressure at Ambient Temp	Pressure at Design Temp.	MDMT	Pressure Class or Schedule	Construction or Standard	Catalog Page or Drawing Numbers
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	Superiok Canada "Instrumentation Ball Valves" (Page 48-55)
Instrumentation Gauge Valves SGBV/SGBV2	Fitting Body	ASTM A276, grade 316	Female NPT or Male NPT ½" to ¾"	6000psig @ 70°F	6000psig @ 450*F	-65*F	n/a	ASME 816.34 ASME 831.1	Superlok Canada "Instrumentation Ball Valves" (Page 56-57)
Swing Out Ball Valves SWB320	Fitting Body	ASTM A351, CF8M	Superiok 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	Fernale 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	Superiok Canada "Instrumentation Ball Valves" (Page 60-61)
Toggie 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	Superiok 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 Superiok Canada catalog.

Table 1. Dall, 5-Way valve Pre	essure Ratings Table (SBVH360)
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	End	ASTM A276, grade 316			
Body Size	Connection	@70F	@446F		
	Sizes	psig	psig		
3601	1/4 to 1/2	5000	5000		
3602	1/2 to 3/4	4000	3900		
3603	3¼ to 1	4000	3800		

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A. R. Thomson C	Group		SON – Red Deer		QSC503 SYSTEM PROCEDUR	E NO.	B
R. Walker Sept. 10, 2018 WRITTEN BY DATE	REVISED	DBY DATE	T. Cozens Sept. 18, 2018 REVIEWED BY DATE	Se	ept. 18, 2018 EFFECTIVE	3 PAGE	3
SUBJECT Superior	(Valve	es - Scope of Reg	gistration	-	DCN	PAGE	OF

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

Body Size	End Connection		grade 316 or 2, grade 316		grade 316 or grade CF8M
Body Gize	Sizes	SBVF360 psig @70F	SBVF360 psig @450F	SBVL360 psig @70F	SBVL360 psig @400F
3601	1/8 to 1/4	6000	6000	6000	700
3602	1⁄4 to 3/8	5000	5000	6000	700
3603	3/8 to 3/4	4500	4400	4500	700

### **Document Revision History**

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

dded Table 1 and 2 and updated design onditions for SBVH, SBVF and SBVL	Nov. 22, 2018	Author	Approver
alves in scope table	1	Tim Cozens	Tim Cozens
eperated SBVF and SBVL into seperate ows in scope table	Nov. 22, 2018	Tim Cozens	Tim Cozens

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Technical Safety Authority of Saskatchewan Boiler & P.V. Safety Unit	S
CRN. 0C19107:23	- C. F
REGISTERED	
Date Feb 06, 2019	1
Exp. Nov 26,2028 Design Survey Office	

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2 <u>018-11-26</u> INITE Date	ALS XING LIU, PEng. DESIGN SURVEY ENGINEER

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# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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New Brunswick Nunavut	Nova Scotia	Prince Edward Islar Northwest Territorie		
Manufacturers Na	me: BMT Co., Ltd.			
		nam 11-gil Yangsan-Si,Gyeongsangr	am-do Korea	
Plant Locations: 35	, Sanmakgongdannam 11-gil Yangsa	an-Si,Gyeongsangnam-do Korea		
A Pipe fittings, includi B Flanges: all flanges CValves: all line valve	ng couplings, tees, elbows, Ys,	pred. Circle one Category of plugs, unions, pipe caps, or red	ASME B31.1	
<ul> <li>E Strainers, filters, separators, and steam traps</li> <li>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</li> </ul>			or pressure	
<ul> <li>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</li> <li>H Pressure retaining components that do not fall into one of the above categories</li> </ul>			ITIBATE ST	
N Nuclear components	: Class 1 🗆 Class 2 🗆 Clas	as 3 🗆 , (Meeting CNSC or ASM	//E requirements)	
7.	SUPERL	-	Forged Welded Wrought D Cast Other D Describe other: Bar stock	
List of supporting d	ocumentation and identif	ication of the actual items	to be registered:	
Bleed, Ball, Plug, Toggle, Needle, Purge, Manifold Valves - see attached scope statement Superlok catalog, Design reports, AR Thomson System Procedure # QSC503				
Declaration:			™£ar+a*	
I Jong Chen, Yoon				
Commissioner of Oaths	SAMSUNG LAW & NO 1 September AD	20/8 Veral		
Or Notary Public: (sign) (Affix Official seal to the Hold WOON YEOUNG				
	T This registration must be	his space for Regulatory Authors e revalidated after ten (10) year	ity use.	
CRN: 0C19107		revalidated alter ten (10) year.	ity use. s from the date of acceptance CRNNENTON CORPORT BY	
FID#: <u>15715</u>			Still Still	
Notes:	fored in the name of the Manufact		OBY	
	tered in the name of the Manufact pocked with two Statutory Decla documentation.		CRN 0C19107.2Y	
responsibility for the part			DATE 01/14/2019	
4. Quality Control programs	shall be resubmitted for validation	h <sub>i</sub>	Sect 1.0 - Fittings Rev.2	
			BOULERANCH	