

345 Carting/new Drive Toronto: Ontario M9W 6N9 Tel: 416 734 3300 Fax: 416 231 1626 Toll Free: 1 877 682 8772

www.tssa.org

May 17, 2018

SURESH BALACHANDRAN VALVTECHNOLOGIES INC 5904 BINGLE HOUSTON TX 77092 US

Service Request Type: BPV-Fitting Registration Service Request No.: 2267870 Your Reference No.: Registered to: VALVTECHNOLOGIES INC

Dear SURESH BALACHANDRAN,

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

CRN: 0C11555.5R1 Main Design No.: BALL VALVES V1-1, V1-2, V1-3, V1-4 see attached documents Expiry Date: 16-May-2028

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

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, 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,

Alan Wu P. Eng. Mechanical Engineer, BPV Tel.: 416-734-3443 Fax: 416-231-6183 Email: <u>awu@tssa.org</u>

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|---|------|
| ATTACHMENT TO | |
| C.R.N.C.SA-OCINTES. 56 | PI |
| Signed: assure | 0.00 |
| 178 Rexdate Boulsward, Toronto, UN Canada M9W 1R3 | |

Putting Public Safety First



Technical Standards and Safety Authority 345 Carlingview Drive Toronto, Ontario M9W 6N9 www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

| STATUTORY DECLA Registration of Fitt | | |
|--|--|---|
| Suresh Balachandran, Sr. QAE Manager | 0 | |
| (Name and Position, e.g. President, Plant Manager, I | Chief Engineer) | |
| of ValvTechnologies, Inc. | | |
| (Name of Manufacturer) | | |
| Located at 5904 Bingle Road, Houston, TX 77092 | +1 713 860 0400 | +1 713 860 0499 |
| (Plant Address) | (Telephone No) | (Fax No) |
| do solemnly declare that the fittings listed hereunder, which are subject to and Pressure Vessels Regulation, comply with all of the requirements of ANSI/ASME B16,34- 2017. | the Technical Standards | s and Safety Act, Boilers |
| (Title of recognized North American Standar which specifies the dimensions, materials of construction, pressure/temperature r | d) atings identification marking | the fittings and service. |
| | | |
| or are not covered by the provisions of a recognized North American stand | ich identifies the dimension | s material of construction |
| pressure/temperature ratings and the basis for such ratings, the marking of t | he fitting for identification a | and service. |
| I further declare that the manufacture of these fittings is controlled by a quality syste | em meetina the requirement | nts of ISO 9001:2015 |
| which has been verified by the following authority, DNV GL | | |
| The items covered by this declaration, for which I seek registration, are category | C" | type fittings. In support of |
| V1-1, V1-2, V1-3 GA drawings, scope of registration, wall thickness table. | | |
| (drawings, calculations, test reports, etc |) | |
| E004 Diverte Develation | | |
| Declared before me at _5904 Bingle Road, Houston in the _state | 0 | f_Texas |
| he 16^{th} day of March AD 20 18 | Commun. | |
| | BY PILL | MELBA STELLA KEL |
| | Le Contraction | Notary Public, State of |
| | * | Comm. Expires 07-02-2 |
| Complissioner for Oaths: | X | |
| | A | Comm. Expires 07-02-2 |
| Printed name) | A | Comm. Expires 07-02- Notary ID 13028170 |
| Complissioner for Oaths: | (Signature of De | Comm. Expires 07-02- Notary ID 13028170 |
| Complissioner for Oaths: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Comm. Expires 07-02- Notary ID 13028170 |
| Complissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the | Technical Standards | Comm. Expires 07-02- Notary ID 1302817(clarer) Boilers and |
| Comprissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Fechnical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and | Technical Standards and Safety | Comm. Expires 07-02- Notary ID 1302817(clarer) Boilers and Pressure Vessels |
| Comprissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Fechnical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category | Technical Standards | Comm. Expires 07-02- Notary ID 13028170 clarer) Boilers and Pressure Vessels Safety Program |
| Comprissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the fechnical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: DC1155555R1 | Technical Standards and Safety Authority | Comm. Expires 07-02- Notary ID 1302817(clarer) Boilers and Pressure Vessels Safety Program TERED |
| Complissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: DC[155555R] Registered by: May 17,18 | Technical Standards and Safety Authority REGIST | Comm. Expires 07-02- Notary ID 13028170 Inclarer) Boilers and Pressure Vessels Safety Program |
| Commissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: DC1155555R1 Registered by: ALAWW | Technical Standards and Safety Authority REGIST C.R.N.: 0 CUI | Comm. Expires 07-02- Notary ID 1302817(Indexent) Boilers and Pressure Vessels Safety Program |
| Comprissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Fechnical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: OCI155555R1 Registered by: May 17418 NOTE: This registration expires on: May 16, 2028 Information provided in this application is releasable, under the Formation provided in this application is releasable. | Technical Standards and Safety Authority REGIST C.R.N.: 0 CU Signed: A Date: May 12 | Comm. Expires 07-02- Notary ID 1302817(Inclarer) Boilers and Pressure Vessels Safety Program CERED |
| Comprissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Fechnical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: DCI155555R1 Registered by: ALAV WV Dated: May 17,18 MOTE: This registration expires on: May 16, 2028 offormation provided in this application is releasable under the Footection Act and may be disclosed upon reguest. | Technical Standards and Safety Authority REGIST C.R.N.: O.C.II Signed: A. Date: May D Treedom of Information | Comm. Expires 07-02- Notary ID 13028170 Inclarer) Boilers and Pressure Vessels Safety Program CERED |
| Comprissioner for Oaths: (Printed name) (Printed name) (Signature) FOR OFFICE USE ONLY o the best of my knowledge and belief, the application meets the requirements of the rechnical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and the rechnical Standard B51 and is accepted for registration in Category RN: DC1155555R1 egistered by: ALAV WV ated: May 17,18 OTE: This registration expires on: May 16, 2028 formation provided in this application is releasable under the Forection Act and may be disclosed upon request. | Technical Standards and Safety Authority REGIST C.R.N.: 0 CU Signed: A Date: May 12 | Comm. Expires 07-02- Notary ID 1302817(Indexent) Boilers and Pressure Vessels Safety Program CERED |

du bătiment Québec E3E3

| REGISTERED | |
|--------------------------|---------|
| CRN: <u>CSA- OC 11 5</u> | 55.56R1 |

nistered by

Statutory Declaration Registration Process ad

(a) Design Qualification

| 1 ¹ | Suresh Balachandran | |
|----------------|----------------------------------|--|
| · . | | (Name of applicant) |
| _ | Sr. QAE Manager | (Position eg, president, plant manager, chief eng.) |
| | ValvTechnologies, Inc. | |
| 01 | valviechilologies, mc. | (name of company) |
| Loc | ated at 5904 Bingle Ro | ad, Houston, TX 77092, USA |
| 200 | | (plant address) |
| do s | solemnly declare that the fittir | igs listed hereunder, which are subject to the Boilers & Pressure Vessels Act: |
| | comply with all the require | ements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are |
| | required: | |
| Or | | TERST2101R |
| | | ovisions of the ANSI/ASME codes, and are therefore constructed to comply with and standard, and are designed to the best current engineering practice, as shown by the supporting |
| | test data. | and standard, and are designed to the best current engineering practice, as shown by the supporting |
| (h) | Quality control of Mar | wfacture |
| • • | | 118 694 mm |
| | | of these fittings is controlled by a quality control program which complies with the requirements of has been verified by the following authority or authorized agency DNV GL |
| | | aration, for which I seek registration, are Ball Valves, Model: V1-1, V1-2 & V1-3 |
| | mangs covered by this deci | |
| ln s | upport of the application, the | following information, calculations and/or test data are attached: |
| | | of registration, Sample GA drawings, Product brochures, |
| Dec | clared before me at ValvTe | echnologies, Inc. MELBA STELLA KELLY |
| to th | he of Houton, Texas | of USA |
| | 114 | OF Comm, Expires 07-02-2015 |
| The | day of March | AD 8X8X8X 2018 |
| 1 | fler Stiller | Sellon An = |
| | A (commission | er or oatta Signature of Declarer' |
| | | For Official Use Only |
| Т | he application is accepted for | r registration in CategoryC in accordance with the Boilers and Pressure Vessels Act |
| | nd CSA Standard B51. | |
| τı | his registration must be revali | dated after ten (10) years from the date of acceptance. MAY · 16 · 2028 |
| | | |
| R | | A-OC11555. SGR1 For the Cherry A. BANWATT |
| | ogistered Humber ONN ST | Date Group June · 13 · 2018 |
| | | |
| | | |

CORE-FETATUTORY DECLARATION OF GETAATION OF FITTINGS ONL

- Note:
- See attachment as the scope of registration.
 Renewal registration without design change.



 This registration covers only the valves in full compliance with 16.33 technical review performed in the previous registration.

¹ Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.

² All fittings are required to be registered in the name of the Manufacturer.

³ This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.

| 4 | and the second | ACCULATION OF TAXABLE PARTY. | SA Group per CSA B5 ation (Registration of I | the party of the p | Website: <u>www.tsesk.ce</u> | |
|--|---|--|--|--|---|--|
| | | | | | TSK-1008 | |
| I. Declar | ation Information | | | | | |
| I. Sure | esh Balachandran, Sr. QAE N | <u>/anager</u> | Nonciel States and States an | manufacturer's | show facsimile of logo or trademark as it will | |
| **** | (company title, e.g. vice presiden | it, plant manager, c | chief engineer) | appear on the | nttang. | |
| | be in a position of authority in the man alvTechnologies, Inc. | ufacturing plant wh | ere the fitting is produced) | | | |
| u | (name o | f manufacturer) | | { | | |
| located at: | 5904 Bingle Road (Plant Address – Apt/Street) | | Houston (City,Prov) | | TX 77092 | |
| do solemniy Vessel Sal | y declare that the fittings listed | l hereinunder, | | • | | |
| - | ply with the requirements of | ASME B1 | 6.34 | which specifies the | a dimensions | |
| | rials of construction, pressure | (title of recognize | ed North American Standard) a ratings and identification | | | |
| | 1 N N N | | _ | a manying of the fittil | - | |
| | | of a reconsise | ad North Amoriaan stands | and and are therefore | - manufasiurad | |
| to co | | of a recognize | ed North American standa | ard and are therefore as supported | | |
| | which identifies the dimension | | | as supported | by the attached | |
| data for si I further dec verified by t | mply with which identifies the dimension uch ratings, and the marking c clare that the manufacturer of he following authority, | ns, materials o of the fittings fo these fittings i V GL | of construction, pressure , or identification. is controlled by a quality (a | as supported / temperature ratings control program white is being suitable for | by the attached s and the basis ch has been the manufacturer | |
| data for si I further dec verified by t of these fitti <u>Ball Val</u> In support c Wall Thic | mply with which identifies the dimension uch ratings, and the marking of clare that the manufacturer of the following authority, <u>DN'</u> ings to the stated standard. T ves model: V1-1, V1-2 & V1- of this application, the following kness table, Scope of registr | ns, materials o of the fittings fo these fittings i V GL he fittings cove 3 g information, ration, Sample | of construction, pressure a or identification. is controlled by a quality of a rered by this declaration, calculations and / or test | as supported / temperature ratings control program white is being suitable for for which I seek regi | by the attached s and the basis ch has been the manufacturer istration, are A MELBA ST Notary Public Comm. Expire | |
| data for si I further ded verified by to of these fitti <u>Ball Val</u> In support of Wall Thio II. Declar DECLARED this (performance) (Signature of | mply with which identifies the dimension uch ratings, and the marking of clare that the manufacturer of the following authority, <u>DN</u> ings to the stated standard. T <u>ves model: V1-1, V1-2 & V1-</u> of this application, the following kness table, Scope of registr | ns, materials o of the fittings fo these fittings i V GL he fittings cove 3 g information, ration, Sample | the Houston, Texas | as supported / temperature ratings control program white is being suitable for for which I seek regin data are attached: Brochures. | by the attached s and the basis ch has been the manufacturer istration, are | |





| the pressure equipment safety authority | In this space, show facsimile o manufacturer's logo or trademark as it will appear on |
|--|--|
| STATUTORY DECLARATION Registration of Fittings | the fitting. |
| | VALVTECHNOLOGIES |
| I, Suresh Balachandran | |
| Sr. QAE Manager | |
| (company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority) | |
| of ValvTechnologies, Inc. | |
| (name of manufacturer) | |
| located at 5904 Bingle Road, Houston, TX 77092, USA | |
| (plant address) | |
| do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Ac (check one) | ot |
| | ifies the dimensions, |
| (title of recognized North American Standard) | , |
| materials of construction, pressure/temperature ratings and identification marking of t | he fittings, or |
| are not covered by the provisions of a recognized North American standard and are the | erefore manufactured to |
| comply with as supported by the attached data whic | h identifies the dimensions, |
| materials of construction, pressure/temperature ratings and the basis for such ratings, a | nd the marking of the fittings |
| for identification. | |
| I further declare that the manufacture of these fittings is controlled by a quality control program | n which has been verified by the |
| following authority, DNV GL as being suitable for the man | afacture of these fittings to the |
| stated standard. The fittings covered by this declaration, for which I seek registration, are M | |
| In support of this application, the following information, calculations and/or test data are attac | |
| HI SUDDOLLOT ULUS ADDILCAUDIL. LIE TOHOWING INFOLMATION. CALCULATIONS AND/OF ICST GATA ATC ATTAC | |
| | |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | |
| | |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. * DECLARED before me at ValvTechnologies, in the Houston. Texas If H | JSA |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | JSA |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | JSA |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | JSA |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | JSA L f Applicant) |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | JSA f Applicant) Codes Act and CSA Standard T. M. (ASHLING) |
| Wall thickness table, scope of registration, sample GA drawings, Product brochures. | Todes Act and CSA Standard T. M. (ASHLING) or Chief Inspector of Alberta) te: May 16, 2028. |