ABSA
the pressure equipment safety authority

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

October 17, 2024

Attention: Rob McGregor
TITAN RESEARCH GROUP
1920 YONGE STREET 2ND FLOOR
TORONTO, ON M4S 3E2

The design submission, Tracking Number 2024-04940, Web Portal Number 2024-S3550, originally received on August 20, 2024 was surveyed and accepted for registration as follows:

CRN : 0F15982.2 **Accepted on:** October 17, 2024

Reg Type: RENEWAL **Expiry Date:** October 17, 2034

Drawing No. : PER SCOPE OF REGISTRATION, DOC.# SOR-VB REV. 1 As Noted

Fitting type: VEGABAR 82 AND VEGABAR 83

Design registered in the name of : VEGA GRIESHABER KG

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

The scope of this registration is the CRN renewal. The registration is given based on the understanding that there is no change to the pressure components design.

As per the original CRN the registration includes the NPT Threaded and B16.5 Flanged versions only. The Sanitary Ends versions are excluded from this registration.

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is ASME B31.3.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- 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 or AB-351 Declaration of Conformity 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, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

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

If you have any question don't hesitate to contact me by phone at (587) 686-9358 or fax (780) 437-7787 or e-mail Onshchenko@absa.ca.

Sincerely,

ONSHCHENKO, TETYANA, P. Eng.
PQR Cert. No. P00010125

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DOP Cert. No. D0001U125

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

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

VEGA

I, Holger Sack (name of applicant), Head of Product Compliance & Safety (position title) (must be in a position of authority)

of VEGA Grieshaber KG (name of manufacturer)

located at Am Hohenstein 113, 77761 Schiltach, Germany (plant address)

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

☐ comply with the requirements of _____ (title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or

☑ are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3 - 2022 (title of code of construction or other applicable document) as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

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

Quality Program Verification and Manufacturing Sites

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

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	VEGABAR 82/83	ISO 9001:2015	See QA cert.	2025-01-02	DEKRA	See QA cert.
2.						

Tracking #: 2024-04940

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

SOR-VB, Rev. 1: VEGABAR82 and 83 Scope of Registration Summary

(Signature of the Declarer)

22.07.2024
(Date)

DECLARED before me at Mason (city) in the State of Ohio (province, territory, or state)

this 22 day of July (Month), 2024 (Year)

(print) Donald R Jackson
(a Commissioner of Oaths or Notary Public)

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

5/9/2029
(expiry date (mm/dd/yy))

NOTARY PUBLIC STATE OF OHIO

DONALD R JACKSON
Notary Public
State of Ohio
My Comm. Expires
May 9, 2029

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

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category _____.

CRN: _____

Registered Date: _____

Expiry Date: 2034-10-17

Signature: _____
(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

2024-04940
ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0F15982.2
See acceptance letter for conditions of registration.
Date: 2024-10-17 By:
TETYANA ONSHCHENKO, P. Eng.
DOP: D00010125

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

Tracking #: _____

Table 1 Scope of Fitting Designs**

Item #	Primary Pressure Bearing / Retaining Component	Material of Construction	Port Connections and Size Range	MDMT	Rated Pressure		Pressure Class(es) / Schedule(s)	Design Code(s) of Construction	Reference Catalogue (pages) or Drawing(s)
					At Ambient Temperature	At Maximum Temperature			

Table 2 Additional Scope Information

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

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

Tracking #:_____

VEGA Americas Incorporated
4170 Rosslyn Drive, Cincinnati, OH 45209, USA

2024-04940
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SAFETY CODES ACT - PROVINCE OF ALBERTA
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SOR-VB, Rev. 1: VEGABAR 82 and 83 Scope of Registration Summary

Product Assembly Type	Fitting Design	Fitting Description	Materials of Construction [1B]	Maximum Design Pressure (bar) and Temperature (°C)
VEGABAR 82 (CERTEC Cell)	ASME B1.20.1 NPT Thread	1/2" MNPT x 1/4" FNPT	UNS S31603, SA-479 (316L, 1.4404, 1.4435)	Up to 160 bar Maximum -40°C up to 150°C
	ASME B1.20.1 NPT Thread	1-1/2" MNPT	UNS S31603, SA-479 (316L, 1.4404, 1.4435)	Up to 100 bar Maximum -40°C up to 150°C
	ASME BPE (ISO 2852) DIN 32676	Sanitary: 1", 1-1/2", 2", 2-1/2", 3" and 4"	~~UNS S31603, SA-182 (F316L, 1.4404)~~ UNS S31603, SA-240 (316L, 1.4435) T.O.	Per ASME BPE 2012 Table DT-2
	ASME B16.5	NPS 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 6" and 8" Type: RF, FF	Group 2.3, UNS S31603, SA-182 (F316L, 1.4404) Group 3.8, UNS N06022, SB-462, (C22, 2.4602)	By Flange Class (150 thru 600) and Material -40°C up to 150°C

[1] NOTE:
A. Flange standards according to ASME B16.5. Flange Sizes: 1'' to 8'', Flange Face Styles: RF and FF, Flange Classes: 150, 300 and 600.
B. Materials for chemical compatibility and pressure: F316L (1.4404) and Hastelloy C-22 (2.4602).

VEGA Americas Incorporated
4170 Rosslyn Drive, Cincinnati, OH 45209, USA

Product Assembly Type	Fitting Design	Fitting Description	Materials of Construction [1B]	Maximum Design Pressure (bar) and Temperature (°C)
VEGABAR 82 (Mini-CERTEC)	ASME B1.20.1 NPT Thread	1" NPT	UNS S31603, SA-479 (316L, 1.4404, 1.4435)	Up to 60 bar Maximum -40°C up to 150°C
	ASME BPE (ISO 2852) DIN 32676	Sanitary: 1"	UNS S31603, SA-182 (F316L, 1.4404) UNS S31603, SA-240 (316L, 1.4435) T.O.	Per ASME BPE 2012 Table DT-2
	ASME B16.5	NPS 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 6" and 8" Type: RF, FF	Group 2.3, UNS S31603, SA-182 (F316L, 1.4404) Group 3.8, UNS N06022, SB-462, (C22, 2.4602)	By Flange Class (150 thru 300) and Material -40°C up to 150°C

[1] NOTE:
A. Flange standards according to ASME B16.5. Flange Sizes: 1'' to 8'', Flange Face Styles: RF and FF, Flange Classes: 150 and 300.
B. Materials for chemical compatibility and pressure: F316L (1.4404) and Hastelloy C-22 (2.4602).

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Product Assembly Type	Fitting Design	Fitting Description	Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)
VEGABAR 83 (METEC Cell)	ASME B1.20.1 NPT Thread	1/2" MNPT x 1/4" FNPT 1-1/2" NPT	UNS S31603, SA-479 (316L, 1.4404, 1.4435)	Up to 50 bar Maximum -40°C up to 200°C
	ASME BPE (ISO 2852) DIN 32676	Sanitary: 2", 2-1/2" and 3"	~~UNS S31603, SA-182 (F316L, 1.4404)~~ UNS S31603, SA-240 (316L, 1.4435) T.O.	Per ASME BPE 2012 Table DT-2
	ASME B16.5	NPS 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 6" and 8" Type: RF, FF	Group 2.3, UNS S31603, SA-182 (F316L, 1.4404) Group 3.8, UNS N06022, SB-462, (C22, 2.4602)	By Flange Class (150 thru 600) and Material, limited to 50 bar pressure maximum -40°C up to 200°C

[1] NOTE:
A. Flange standards according to ASME B16.5. Flange Sizes: 1'' to 8'', Flange Face Styles: RF and FF, Flange Classes: 150, 300 and 600. Materials for chemical compatibility and pressure: 316L (1.4404) and Hastelloy C-22 (2.4602).

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Product Assembly Type	Fitting Design	Fitting Description	Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)
VEGABAR 83 (TIS21.I1 and TIS21.I5 Cells)	ASME BPE (ISO 2852) DIN 32676	Sanitary: 1-1/2" and 2"	UNS S31603, SA-182 (F316L, 1.4404) UNS S31603, SA-240 (316L, 1.4435) T.O.	Per ASME BPE 2012 Table DT-2
	ASME B16.5	NPS 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 6" and 8" Type: RF, FF	Group 2.3, UNS S31603, SA-182 (F316L, 1.4404) Group 3.8, UNS N06022, SB-462, (C22, 2.4602)	By Flange Class (150 thru 600) and Material -40°C up to 200°C

[1] NOTE:
A. Flange standards according to ASME B16.5. Flange Sizes: 1'' to 8'', Flange Face Styles: RF and FF, Flange Classes: 150, 300 and 600. Materials for chemical compatibility and pressure: 316L (1.4404) and Hastelloy C-22 (2.4602).

Approved by: Bill Shreve **Title:** Lead Engineer

Signed: **Date approved:** 26 May 2015