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[www.tssa.org](http://www.tssa.org)

May 9, 2024

TITAN RESEARCH GROUP  
1920 YONGE ST 2ND FLR  
TORONTO ON M4S 3E2

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 14287300  
**Your Reference No.:**  
**Registered to:** VEGA GRIESHABER KG

Dear ROB MCGREGOR,

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

CRN : 0F3026.35  
Main Design No.: SOR-VEGADIF85-REV0  
Expiry Date: Mar 13, 2034

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

Design registration completed under interprovincial agreement with jurisdictional check only

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). 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](mailto: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,

Shreyas Madhuranath M.Eng, P.Eng  
Engineer, BPV  
Tel. : +1 416-734-3212  
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Technical Standards and Safety Authority  
 345 Carlingview Drive  
 Toronto, Ontario M9W 6N9  
 www.tssa.org

Clear Form  
 Print Form

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



## STATUTORY DECLARATION Registration of Fittings

I, Holger Sack, Head of Product Compliance & Safety  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of VEGA Grieshaber KG  
(Name of Manufacturer)

Located at Am Hohenstein 113, 77761 Schiltach, Germany  
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(Title of recognized North American Standard)  
 which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3 - 2022 as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, DEKRA.

The items covered by this declaration, for which I seek registration, are category F measurement device type fittings. In support of this application, the following information and/or test data are attached as follows:

Scope of Registration Summary: SOR-VEGADIF85-REV0  
(drawings, calculations, test reports, etc.)

Declared before me at Mason in the state of Ohio

the 31 day of January AD 2024.

Commissioner for Oaths:

Donald R Jackson  
(Printed name)  
  
(Signature)

Donald R. Jackson  
 Notary Public  
 In and for the State of Ohio  
 My Commission Expires 5/7/2024  
(Signature of Declarer)

Please Print & Sign before returning to TSSA

### 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 F.

CRN: \_\_\_\_\_  
 Registered by: \_\_\_\_\_  
 Dated: \_\_\_\_\_

The stamp size has been optimized for 11 x 17 documents



REGISTERED

C.R.N.: 0F3026.35

Signed: 

Date: May 9, 2024.

**NOTE: This registration expires on: Mar 13, 2034**

Design registration completed under interprovincial agreement with jurisdictional check only

*\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

**SOR-DIF85-REV0: Scope of Registration Summary VEGADIF 85 with CSS/CSB  
and VEGABAR 81**

Product Assembly Type	Process Connection Description	Example Materials of Construction*	Maximum Design Pressure (bar)	Temperature (°C)
VEGADIF 85 [REDACTED]	NPT ¼-18	Process connection: 316L, Alloy C276 (2.4819), Superduplex (1.4410)  Membrane: 316L, Alloy C276 (2.4819), 316L + 6µ Gold	up to 160 bar (all measuring ranges) 400 bar (only for measuring range 500 mbar, 3bar and 16 bar)	-40 ... +105 °C

Product Assembly Type	Process Connection Description	Example Materials of Construction*	Maximum Design Pressure (bar)	Temperature (°C)
VEGADIF 85 [REDACTED] with CSS	Flanges as per CRN	Process connection: 316L, Alloy C276 (2.4819)  Membrane: 316L, Alloy C276 (2.4819), Tantal, Inconell 600	up to 100 bar	-40 ... +400 °C

**SOR-DIF85-REV0: Scope of Registration Summary VEGADIF 85 with CSS/CSB  
and VEGABAR 81**

<b>Product Assembly Type</b>	<b>Process Connection Description</b>	<b>Example Materials of Construction*</b>	<b>Maximum Design Pressure (bar)</b>	<b>Temperature (°C)</b>
VEGADIF 85 with CSB	Flanges and capillaries as per CRN	Process connection: 316L, Alloy C276 (2.4819), Duplex (1.4462)  Membrane: 316L, Alloy C276 (2.4819), Duplex (1.4462), Tantal, Inconell 600	up to 160 bar	-40 ... +400 °C

<b>Product Assembly Type</b>	<b>Process Connection Description</b>	<b>Example Materials of Construction*</b>	<b>Maximum Design Pressure (bar)</b>	<b>Temperature (°C)</b>
VEGABAR 81	Flanges as per CRN	316L, Alloy C276 (2.4819), Tantal, Gold, Nickel, 316Ti	up to +1000 bar	-90 ... +400 °C

**VEGA**

**SOR-DIF85-REV0: Scope of Registration Summary VEGADIF 85 with CSS/CSB  
and VEGABAR 81**

I the undersigned hereby confirm that the above is accurate, correct and complete,

Approved by: Matthias Kunz  
Title: Product Safety Engineer

Date: March 14, 2024

Signed:

