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ATTN: SCOTT ISLIP  
ROUND ENGINEERING INC.  
10 SEGWUN ROAD  
WATERDOWN ON L8B 0K6

**Date:** 14-Dec-2023  
**TSBC Account #:** 062478  
**TSBC Admin Number:** 103308  
**Canadian Registration Number:** 0F24854.521

### Re: Application for Design Registration

The design, as detailed in your Design Portal application R-1823 Endress Hauser for a Pressure Fitting is registered with the following notes and considerations:

<b>Registered To:</b>	Endress+Hauser SE+Co. KG
<b>Project Name:</b>	R-1823 Endress Hauser
<b>Drawing #:</b>	DIAPHRAGM SEALS Scope of CRN Registration & Worldwide locations appendix
<b>Drawing Revision:</b>	N/A

### Conditions of Registration:

(1) Fitting Registration Expiry Date: 30-Oct-2028 (2) The registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of quality management system lapse before the expiry date indicated above, this registration shall become void.

### Reviewer's Notes:

Any additional conditions and considerations from the initial province of registration shall apply to this BC registration.

Full details of this submission including the scope of registration, design conditions, fabrication details, and calculations pertaining to this design are located in the above Admin Number on the Design Portal. For all other enquiries, please contact [eim@technicalsaftybc.ca](mailto:eim@technicalsaftybc.ca).

The Engineering Information Management Team

November 02, 2023

**Attention:** Scott Islip  
ROUND ENGINEERING INC  
10 SEGWUN ROAD  
WATERDOWN, ON L8B 0K6

The design submission, Tracking Number 2023-06457, Web Portal Number 2023-S4294, originally received on October 20, 2023 was surveyed and accepted for registration as follows:

**CRN :** 0F24854.52 **Accepted on:** November 02, 2023

**Reg Type:** NEW DESIGN **Expiry Date:** October 30, 2028

**Drawing No. :** Design Report R-1823 Rev 0

**Fitting type:** Assembly

Design registered in the name of : ENDRESS + HAUSER SE + CO KG

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

*As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction are ASME B31.1 and 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 (780) 433-0281 ext 3388 or fax (780) 437-7787 or e-mail Liu@absa.ca.

Sincerely,




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

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

I, Christopher Proios, Division Manager Quality Management  
(name of applicant) (position title) (must be in a position of authority)  
of Endress+Hauser SE+Co KG  
(name of manufacturer)  
located at Hauptstrasse 1, 79689 Maulburg, see "Worldwide Locations"  
(plant address)

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



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

- comply with the requirements of ASME B31.1, ASME B31.3 which specifies the dimensions, (title of recognized North American Standard) 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 \_\_\_\_\_ as supported by the (title of code of construction or other applicable document) 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.	Diaphragm Seal Devices	ISO 9001 2015	SEE QA CERT	04-03-2025	SQS	See attached Worldwide Locations Appendix
2.						

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

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

iv. [Signature]  
(Signature of the Declarer) \_\_\_\_\_ (Date) \_\_\_\_\_

DECLARED before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_\_\_\_  
(city) (province, territory, or state)

this \_\_\_\_\_ day of \_\_\_\_\_  
(Month) (Year)

(print) \_\_\_\_\_  
(a Commissioner of Oaths or Notary Public)

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

\_\_\_\_\_  
(expiry date (mm/dd/yy))

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

**For ABSA Office Use Only:**

NOTES: \_\_\_\_\_

<p>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 _____</p> <p>CRN: _____</p> <p>Registered Date: _____</p> <p>Expiry Date: _____</p> <p>Signature: _____ (Signature of the Administrator/SCO)</p> <p>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</p>	<div style="border: 2px solid red; padding: 5px; text-align: center;"> <p><small>2023-06457</small></p> <p><b>ABSA</b></p> <p><small>SAFETY CODES ACT - PROVINCE OF ALBERTA</small></p> <p><b>ACCEPTED: CF24854 52</b></p> <p><b>See acceptance letter for conditions of registration.</b></p> <p>Date: 2023-11-02 By: <i>[Signature]</i></p> <p><small>XING LIU, P. Eng. DOP: D0000861</small></p> <p><small>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.</small></p> </div>
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**ENDRESS+HAUSER SE+Co. KG**

HAUPTSTRASSE 1  
79689 MAULBURG  
GERMANY

**Endress+Hauser**

People for Process Automation



August 2, 2023

Page 1 of 7

<b>Doc. No.:</b>
<b>961007057</b>

**SCOPE OF CRN REGISTRATION**

<b>Product Description: Metallic Pressure Device Diaphragm Seals</b>
<b>Main Drawing(s): Drawing 961007152 Rev. A, 961007153 Rev. A, 961007154 Rev. A, 961007155 Rev. A</b>
<b>Code of Construction: ASME B31.1, ASME B31.3, ASME B40.100</b>
<b>Design Report: R-1823 Revision 0</b>

**PRODUCT DESCRIPTION**

The Metallic Pressure Device Diaphragm Seals are composed of various individual components that are assembled together.

The Pressure-Temperature rating of any configured Metallic Pressure Device Diaphragm Seal assembly is limited by the lowest Pressure-Temperature rating of any component used in the assembly. In all cases individual components shall have their own individual CRN.

Other components as manufactured by E+H or any other manufacturer may be substituted for a component listed below as long as that component has its own valid CRN.

<b>Product Model(s)</b>	<b>DELTABAR (O)PMD55(B), (O)PMD63(B), (O)PMD75(B), (O)PMD78(B), (O)FMD77(B), (O)FMD78(B)</b> option "O" means OEM version; option B means different electronic and housing versions outside of the process, i.e. not pressurized
<b>Existing E+H CRN(s)</b>	<b>0F20813.5C</b>
<b>Standard Materials of Construction:</b>	Body: Cast Stainless Steel Type 316L ASTM A351-CF3M UNS J92800, Type 316L UNS S31603. Bolting: ASTM A193-B8-2. <b>(Note 2)</b>

<b>Process Connection Size and Type</b>	<b>MAWP (Barg) at MAWT (°C)</b>	<b>MDMT</b>	<b>Type</b>
1/4-18 NPT, Filling Port, Sockets to accept Capillary Diaphragm Seal, Sockets to accept Mounted Diaphragm Seal, Process Connection Oval Blind Flange, Manifold Valve Bolt-On (IEC and others)	262 barg at 120°C	-60°C	(O)PMD55(B), (O)PMD63(B), (O)PMD75(B), (O)PMD78(B), (O)FMD77(B), (O)FMD78(B) <b>Without Side Airvents</b>
1/4-18 NPT, 1/4-18 NPT with Airvent, M12 with Vent Filter, Process Connection Oval Blind Flange, Manifold Valve Bolt-On (IEC and others), Filling Port, Sockets to accept Capillary Diaphragm Seal, Sockets to accept Mounted Diaphragm Seal	179.26 barg at 120°C	-60°C	(O)PMD55(B), (O)PMD63(B), (O)PMD75(B), (O)PMD78(B), (O)FMD77(B), (O)FMD78(B) <b>With Side Airvents</b>
1/4-18 NPT, 1/4-18 NPT with Airvent, Filling Port, M12 with Vent Filter, Sockets to accept Capillary Diaphragm Seal, Sockets to accept Mounted Diaphragm Seal, Process Connection Oval Blind Flange, Manifold Valve Bolt-On (IEC and others)	124.11 barg at 120°C	-60°C	(O)PMD55(B), (O)PMD63(B), (O)PMD75(B), (O)PMD78(B), (O)FMD77(B), (O)FMD78(B) <b>With Copper sealing</b>



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<b>Doc. No.:</b>
<b>961007057</b>

<b>Product Model(s)</b>	Cerabar PMP43, PMP43B, PMP50, PMP50B, PMP51, PMP51B, PMP53, PMP53B, PMP63, PMP63B, PMP71, PMP71B, PMP73, PMP73B, OPMP43, OPMP43B, OPMP50, OPMP50B, OPMP51, OPMP51B, OPMP53, OPMP53B, OPMP63, OPMP63B; OPMP71, OPMP71B, OPMP73, OPMP73B; Deltabar FMD72, PMD72B, OFMD72, OPMD72B, PMP55, OPMP55, PMP75, OPMP75			
<b>Existing E+H CRN(s)</b>	0F22502.5C			
<b>Standard Materials of Construction:</b>	Body: UNS S31603 ASTM A479 (316L,1.4404,1.4435), UNS N10276 ASTM B574 (C276,2.4819) Flanges: UNS S31600 ASTM A240 (316,1.4401), UNS N10276 ASTM B575 (C276,2.4819)			
	<b>Process Connection Size and Type</b>	<b>MAWP (Barg) at MAWT (°C)</b>	<b>MDMT</b>	<b>Type</b>
	Olvorlage HD400 Sockets to accept capillary and mounted diaphragm seals	400 barg at 150°C	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP71(B), (O)PMP55, (O)PMP75
	Olvorlage HD100 Sockets to accept capillary and mounted diaphragm seals	100/40 barg at 150°C <b>(Note 3)</b>	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP53(B), (O)PMP63(B), (O)PMP71(B), (O)PMP73(B), (O)FMD72(B), (O)PMD72(B), (O)PMP55, (O)PMP75
	Olvorlage ND Sockets to accept capillary and mounted diaphragm seals	10 barg at 150°C	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP53(B), (O)PMP63(B), (O)PMP71(B), (O)PMP73(B), (O)FMD72(B), (O)PMD72(B), (O)PMP55, (O)PMP75



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<b>Doc. No.:</b>
<b>961007057</b>

<b>Product Model(s)</b>	<b>Diaphragm Seal Accessories</b>
<b>Existing E+H CRN(s)</b>	<b>0F24266.5C</b>
<b>Standard</b>	Accessory Body: UNS S31603 ASTM A479 (316L, 1.4404, 1.4435)
<b>Materials of Construction:</b>	Capillary: Steel Grade X6CrNiMoTi17-12-2 (cold fin.) (1.4571) meeting the requirements of DIN EN 10216-5 <b>(Note 2)</b>

**Accessories (Middle Parts with Ball and Screw Filling Port) used on Deltabar Sensors:  
Drawing 961002505 Rev. A**

Description	MAWP (Barg) at MAWT (°C)	MDMT
Temperature Isolator	160 barg at 400°C	-70°C
Capillary Pipe	400/160 barg at 400°C	
Capillary Adapter - Sensor Side	400/160 barg at 400°C	
Capillary Adapter - Diaphragm Side	400/160 barg at 400°C	
Thermo Expander	160 barg at 400°C	
Welding	Dependent on pressure rating of item being welded	

**Accessories (Middle Parts with Ball and Screw Filling Port) used on Cerabar Sensors:  
Drawing 961002508 Rev. A**

Description	MAWP (Barg) at MAWT (°C)	MDMT
Temperature Isolator	400 barg at 400°C	-70°C
Capillary Pipe	400 barg at 400°C	
Capillary Adapter - Sensor Side	400 barg at 400°C	
Capillary Adapter - Diaphragm Side	400 barg at 400°C	
Thermo Expander	160 barg at 400°C	
Welding	Dependent on pressure rating of item being welded	

**Accessories (Middle Parts with Pin and Weld Filling Port) used on Deltabar Sensors:  
Drawing 961006043 Rev. A**

Description	MAWP (Barg) at MAWT (°C)	MDMT
Temperature Isolator	160 barg at 400°C	-70°C
Capillary Pipe	400/160 barg at 400°C	
Capillary Adapter - Sensor Side	400/160 barg at 400°C	
Capillary Adapter - Diaphragm Side	400/160 barg at 400°C	
Thermo Expander	160 barg at 400°C	
Welding	Dependent on pressure rating of item being welded	



<b>Doc. No.:</b>
<b>961007057</b>

**Accessories (Middle Parts with Pin and Weld Filling Port) used on Cerabar Sensors:  
Drawing 961006040 Rev. A**

Description	MAWP (Barg) at MAWT (°C)	MDMT
Temperature Isolator	400/160/40 barg at 400°C	-70°C
Capillary Pipe	400 barg at 400°C	
Capillary Adapter - Sensor Side	400 barg at 400°C	
Capillary Adapter - Diaphragm Side	400 barg at 400°C	
Thermo Expander	160 barg at 400°C	
Welding	Dependent on pressure rating of item being welded	

<b>Doc. No.:</b>
<b>961007057</b>

<b>Product Model(s)</b>	<b>Diaphragm Seals</b>		
<b>Existing E+H CRN(s)</b>	<b>0F23969.513467890YTN, 0F22938.2</b>		
<b>Standard</b>	Body/Process Connections: UNS S31603 ASTM A479 (316L, 1.4404, 1.4435)		
<b>Materials of Construction:</b>	ASME B16.5 Flanged Connection: UNS S31600/S31603, ASTM A182 (F316/F316L, 1.4401/1.4404) <b>(Note 2)</b>		
	<b>Process Connection Size and Type</b>	<b>MAWP (Barg) at MAWT (°C)</b>	<b>MDMT</b>
			<b>Type</b>
	ASME B16.5 Wafer (Sandwich) Sizes NPS 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4" ASME CL150, CL300, CL400, CL600, CL900, CL1500, CL2500	ASME B16.5 CL 2500 Table A-2 Rating Ceiling Pressures <b>(Note 5)</b>	-70°C  Cell
	Thread MNPT 1/2"	160 barg at 400°C	-70°C  Separator Welded
	Universal Adapter 44mm	10 barg at 260°C	-70°C  Universal Adapter
	Varivent F, N	40 barg at 260°C <b>(Note 4)</b>	-70°C  Varivent
	1", 1-1/2", 2", 2-1/2", 3" ASME BPE Clamp Ferrule	70 barg at 260°C <b>(Note 4)</b>	-70°C  ASME BPE Clamp Ferrule
	ASME B16.5 Blind Flange Sizes NPS 1", 1-1/2", 2", 3", 4" ASME CL150, CL300, CL400, CL600, CL900, CL1500, CL2500 <b>(Note 10)</b>	ASME B16.5 CL 2500 Table 2-2.2, II-2-2.2 Pressure Ratings. In all cases limited to 400°C / 752°F Maximum Temperature	-70°C  ASME B16.5 Flange
	Thread MNPT 1", 1-1/2", 2"	400 barg at 400°C	-70°C  Thread ANSI
	Sanitary Tank Spud 4"	40 barg at 150°C <b>(Note 4)</b>	-70°C  Sanitary Tank Spud 4"
	Neumo Biocontrol DN50, DN80	16 barg at 200°C	-70°C  Neumo Biocontrol



People for Process Automation

<b>Doc. No.:</b>
<b>961007057</b>

<b>Product Model(s)</b>	<b>Diaphragm Seals</b>			
<b>Existing E+H CRN(s)</b>	<b>0F23993.513467890YTN, 0F22751.2</b>			
<b>Standard</b>	Body/Process Connections: UNS S31603 ASTM A479 (316L, 1.4404, 1.4435)			
<b>Materials of Construction:</b>	ASME B16.5 Flanged Connection: UNS S31600/S31603, ASTM A182 (F316/F316L, 1.4401/1.4404)			
	<b>(Note 2)</b>			
	<b>Process Connection Size and Type</b>	<b>MAWP (Barg) at MAWT (°C)</b>	<b>MDMT</b>	<b>Type</b>
	Thread MNPT 1/2", Thread FNPT 1/2", Thread FNPT 1"	100 barg at 250°C, 91 barg at 400°C	-70°C	Separator Bolted
	Thread MNPT 1/2", Thread FNPT 1/2", Thread FNPT 1"	100 barg at 250°C, 91 barg at 400°C	-70°C	Separator Bolted with Flushing Connections

<b>Product Model(s)</b>	<b>Diaphragm Seals</b>			
<b>Existing E+H CRN(s)</b>	<b>0F23993.513467890YTN</b>			
	<b>Process Connection Size and Type</b>	<b>MAWP (Barg) at MAWT (°C)</b>	<b>MDMT</b>	<b>Type</b>
	ASME B16.5 Flanged 1/2", 3/4", 1", 1-1/2", 2", 2-1/2" through 12"	CL150	-70°C	ASME B16.5 Flanged Separator Bolted
		ASME B16.5 CL 150 Table 2-2.2, II-2-2.2 Pressure Ratings		
	ASME B16.5 Flanged 1/2", 3/4", 1", 1-1/2", 2", 2-1/2" through 12"	CL300		
		ASME B16.5 CL 300 Table 2-2.2, II-2-2.2 Pressure Ratings		
	ASME B16.5 Flanged 1/2", 3/4", 1", 1-1/2", 2", 2-1/2" through 12"	CL600		
		ASME B16.5 CL 600 Table 2-2.2, II-2-2.2 Pressure Ratings		
	ASME B16.5 Flanged 3" through 12"	CL900		
	ASME B16.5 Flanged 1/2", 3/4", 2-1/2" through 12"	CL1500		
	ASME B16.5 Flanged 2-1/2" through 12"	CL2500		

<b>Doc. No.:</b>
<b>961007057</b>

**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

**Note 2:** The individual component CRN documentation lists additional alloys of superior or equivalent properties that are also included in the scope of CRN registration.

**Note 3:** 100 barg is the maximum design pressure which may be limited by the process connection type. In addition some sensors may be factory limited to 40 barg due to reading accuracy.

**Note 4:** The ASME BPE Clamp Ferrule, Varivent and Sanitary Tank Spud 4" connections shall be used with a clamp designed for use with the applicable ASME BPE fitting (process connections), however the assembly clamp is not part of this CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. The clamp used to complete the joint shall have its own CRN.

**Note 5:** The Cell type diaphragm seal is to be installed between an ASME B16.5 flange and blind flange. In all cases the pressure-temperature ratings of the diaphragm seal is limited by the pressure-temperature ratings of the ASME B16.5 flanges it is installed between.

**Note 6:** In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the non listed material.

**Note 7:** In all cases the maximum allowable working pressure and temperature may be limited by seal materials or other considerations. Consult Endress+ Hauser literature.

**Note 8:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

**Note 9:** Metallic Pressure Device Diaphragm Seals shall be pressure tested as part of the assembled piping in accordance with ASME B31.3 para. 345.2.3 and ASME B31.1 para. 137.4.6.

**Note 10:** Flange sizes NPS 1" through 12" accepted under 0F23969.513467890YTN.

**Note 11:** See attached Drawings 961007152 Rev. A, 961007153 Rev. A, 961007154 Rev. A and 961007155 Rev. A applicable to this CRN.

**Note 12:** See Attached List of Endress+Hauser SE+Co. KG manufacturing locations applicable to this CRN.

**WORLDWIDE LOCATIONS APPENDIX**

**ENDRESS+HAUSER SE+Co. KG MANUFACTURING LOCATIONS  
& CERTIFYING AUTHORITIES**

---

(rev. 22/Jan/2020)

**Endress+Hauser SE+Co. KG**

Hauptstrasse 1  
79689 Maulburg, Germany  
**ISO 9001 Certified by SQS**

**Endress+Hauser (Suzhou) Automation Instrumentation Co. Ltd.**

China – Singapore Industrial Park (SIP)  
Su Hong Zhong Lu No. 491  
Jiangsu Province, 215021 Suzhou, P.R. China  
**ISO 9001 Certified by SQS**

**Endress+Hauser (India) Automation Instrumentation Pvt. Ltd.**

M-192, Waluj MIDC  
Aurangabad – 431136,  
Maharashtra State, India  
**ISO 9001 Certified by SQS**

**Endress+Hauser Yamanashi Co., Ltd.**

862-1 Mitsukunugi  
Sakaigawa-cho  
Fuefuki-shi  
406 0846 Yamanashi, Japan  
**ISO 9001 Certified by SQS**

**Endress+Hauser (USA)  
Automation Instrumentation Inc.**

2340 Endress Place  
Greenwood, Indiana 46143, USA  
**ISO 9001 Certified by SQS**

**Endress+Hauser (Brazil)  
Instrumentação e Automação Ltda.**

Estrada Municipal Antonio Sesti  
600 Bairro Recreio Costa Verde  
Itatiba/SP – 13254-085, Brazil  
**ISO 9001 Certified by SQS**

**Endress+Hauser SE+Co. KG**

Queremathe 2  
14532 Stahnsdorf  
Germany  
**ISO 9001 Certified by SQS**

## REGISTRATION OF A PRESSURE FITTING DESIGN

11-Dec-23

Round Engineering Inc.  
10 Segwun Rd.  
Waterdown, Ontario  
L8B 0K6

**Attention: Scott Islip**

**File Number: 13910 [ 0 F]**

**Re: Manufacturer: Endress+Hauser SE+Co. KG**  
**Item: Metallic Pressure Device Diaphragm Seals**  
**Catalog or Drawing: Design Report R-1823 Rev. 0**

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:

**0F24854.53                      Expiry Date: October 30, 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,



Williams Uju, P.Eng.  
Codes and Standards Compliance

**Remarks:**

CRN registered conditional upon compliance with the notes on the original registration.

**Statutory Declaration (Registration of Fittings)**

**TSK-1008**

**I. Declaration Information**

I, Christopher Proios  
Division Manager Quality Management  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)  
 of: Endress+Hauser SE + Co KG  
(name of manufacturer)

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



located at: Hauptstrasse 1, 79689 Maulburg, Germany, see "Worldwide Locations"  
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Act** (check one)

- Comply with the requirements of ASME B31.1, ASME B31.3 which specifies the dimensions, (title of recognized North American Standard) 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 \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, SQS ISO 9001: 2015 as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY F - DIAPHRAGM SEAL DEVICES

In support of this application, the following information, calculations and / or test data are attached:  
 SOR Summary 960015837 Rev. A

**II. Declaration**

DECLARED before me at \_\_\_\_\_ In the \_\_\_\_\_ of \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_  
(print name) (Signature)  
(Signature of Commissioner of Oaths)

**III. Office Use Only**

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. 0F24854.53  
 File No. 13910  
 Date: Dec 11, 2023  
 Expiry Date: October 30, 2028  
 Codes & Standards Compliance Office

\_\_\_\_\_  
(Date Registered - MM DD YYYY)  
(For the Chief Inspector)

\_\_\_\_\_  
(Expiry Date - MM DD YYYY)



December 16, 2023

Round Engineering Inc.  
10 Segwun Road  
Waterdown, , ON L8B 0K6

**Dear Scott Islip,**

**Re: Reciprocal CRN Registration in Manitoba**

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, the design reviews conducted and accepted by the Canadian province or territory, or their delegated safety authority, will be mutually recognized in the Province of Manitoba. If a registration is conditionally based on compliance with the notes set by the original issuing Jurisdiction, such compliance shall be applied the same to this Province.

Your submission has been registered, as follows:

File Number:	74-R3689
CRN:	0F24854.54
Scope:	DIAPHRAGM SEALS – Scope of CRN Registration & Worldwide locations appendix
Manufacturer:	ENDRESS+HAUSER SE+Co. KG
Expiry Date:	30 October 2028

Along with this letter is the invoice for registration.

In addition, every Pressure Vessel, Boiler, and Heat Exchanger shall be stamped with the registration number and as required by CSA Code B51, a Manufacturer's Data Report (MDR) must be forwarded to this office immediately at the time a unit is shipped to Manitoba. Send your MDR to [gasupport@gov.mb.ca](mailto:gasupport@gov.mb.ca). In your subject line, indicate "*Manufacturer's Data Report-CRN No.*" A fee shall be billed to the Manufacturer to process data reports in accordance with the Steam and Pressure Plants Regulation section 17.1.

Please contact [gasupport@gov.mb.ca](mailto:gasupport@gov.mb.ca) for any questions or concerns.

**Inspection and Technical Services**

Labour and Immigration  
508 – 401 York Avenue, Winnipeg, MB R3C 0P8  
T (204) 945-3373 | F (204) 948-2089





345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
Tel.: 416.734.3300  
Fax: 416.231.1626  
Toll Free: 1.877.682.8772

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

October 13, 2023

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 14082811  
**Your Reference No.:** R-1823  
**Registered to:** ENDRESS+HAUSER SE+Co. KG

Dear SCOTT ISLIP,

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

CRN : 0F24854.5

Main Design No.: DIAPHRAGM SEALS – Scope of CRN Registration & Worldwide locations appendix

Expiry Date: Oct 30, 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 (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,

A handwritten signature in black ink, consisting of the letters "MT" in a stylized, cursive font.

Mehdi Talebi  
Engineer, BPV  
Tel. : +1 416-734-3413  
Email : [mtalebi@tssa.org](mailto:mtalebi@tssa.org)



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

**Endress+Hauser**

People for Process Automation

**STATUTORY DECLARATION**  
**Registration of Fittings**

I, Christopher Proios, Division Manager Quality Management  
 (Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Endress+Hauser SE + Co KG  
 (Name of Manufacturer)

Located at see attached worldwide locations appendix  
 (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 ASME B31.1, ASME B31.3

(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 \_\_\_\_\_ 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, SQS

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

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS  
 (drawings, calculations, test reports, etc.)

Declared before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_\_\_\_

the \_\_\_\_\_ day of \_\_\_\_\_ AD 20\_\_\_\_\_.

Commissioner for Oaths:

\_\_\_\_\_  
 (Printed name)

\_\_\_\_\_  
 (Signature)

(Signature of Declarer)

**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: 0F24854.5

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_



This Document has been digitally signed and approved.  
 The stamp size has been optimized for 11 x 17 documents.

NOTE: This registration expires on: **Oct 30, 2028**

Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety Program

**REGISTERED**

C.R.N.: 0F24854.5

Signed: MT

Date: **October 13, 2023.**

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

WORLDWIDE LOCATIONS APPENDIX

**ENDRESS+HAUSER SE+Co. KG MANUFACTURING LOCATIONS  
& CERTIFYING AUTHORITIES**

(rev. 22/Jan/2020)

**Endress+Hauser SE+Co. KG**  
Hauptstrasse 1  
79689 Maulburg, Germany  
ISO 9001 Certified by SQS

**Endress+Hauser (Suzhou) Automation Instrumentation Co. Ltd.**  
China – Singapore Industrial Park (SIP)  
Su Hong Zhong Lu No. 491  
Jiangsu Province, 215021 Suzhou, P.R. China  
ISO 9001 Certified by SQS

**Endress+Hauser (India) Automation Instrumentation Pvt. Ltd.**  
M-192, Waluj MIDC  
Aurangabad – 431136,  
Maharashtra State, India  
ISO 9001 Certified by SQS

**Endress+Hauser Yamanashi Co., Ltd.**  
862-1 Mitsukunugi  
Sakaigawa-cho  
Fuefuki-shi  
406 0846 Yamanashi, Japan  
ISO 9001 Certified by SQS

**Endress+Hauser (USA)**  
**Automation Instrumentation Inc.**  
2340 Endress Place  
Greenwood, Indiana 46143, USA  
ISO 9001 Certified by SQS

**Endress+Hauser (Brazil)**  
**Instrumentação e Automação Ltda.**  
Estrada Municipal Antonio Sesti  
600 Bairro Recreio Costa Verde  
Itatiba/SP – 13254-085, Brazil  
ISO 9001 Certified by SQS

**Endress+Hauser SE+Co. KG**  
Queremathe 2  
14532 Stahnsdorf  
Germany  
ISO 9001 Certified by SQS

**THIS IS PART OF CRN**  
**0F24854.5**  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

Montréal, le 9 janvier 2024.

SCOTT ISLIP  
ROUND ENGINEERING  
10 SEGWUN RD  
WATERDOWN ONTARIO  
CANADA L8B OK6

Manufacturer : ENDRESS + HAUSER CANADA GMBH + CO. KG  
HAUPTSTRASSE 1  
MAULBURG GERMANY  
DE-79689

OUR REFERENCE : 944904

Design number : Scope of registration #961007057 -Dated 02-08-2023  
Design Report R-1823 Rev.0

**Subject: Design registration confirmation**

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0F24854.56**.

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each boiler or pressure vessel manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

**Montréal**

255, boul. Crémazie Est, 2ième étage  
Montréal (Québec) H2M 1L5  
Téléphone : 514 873-2546  
Sans frais : 1 866 262-2084  
[enregistrementdesplans@rbq.gouv.qc.ca](mailto:enregistrementdesplans@rbq.gouv.qc.ca)  
[www.rbq.gouv.qc.ca](http://www.rbq.gouv.qc.ca)

Montréal, 9 janvier 2024.

SCOTT ISLIP  
ROUND ENGINEERING  
10 SEGWUN RD  
WATERDOWN ONTARIO  
CANADA L8B OK6

Fabricant : ENDRESS + HAUSER CANADA GMBH + CO. KG  
HAUPTSTRASSE 1  
MAULBURG GERMANY  
DE-79689

Numéro de dossier : 944904

Numéro(s) de dessin(s) : Scope of registration #961007057 -Date 02-08-2023  
Design Report R-1823 Rev.0

### **Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement**

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0F24854.56**.

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date d'enregistrement. Les documents de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Salutations distinguées,

Bureau d'expertise et d'homologation en équipements sous pression

#### **Montréal**

255, boul. Crémazie Est, 2<sup>ième</sup> étage

Montréal (Québec) H2M 1L5

Téléphone : 514 873-2546

Sans frais : 1 866 262-2084

[enregistrementdesplans@rbq.gouv.qc.ca](mailto:enregistrementdesplans@rbq.gouv.qc.ca)

[www.rbq.gouv.qc.ca](http://www.rbq.gouv.qc.ca)

## Statutory Declaration Registration of Fittings


Building Act (B-1.1)  
Regulation respecting pressure vessels (B-1.1, r. 6.1)  
Boiler, pressure vessel, and pressure piping code (CSA B51)

This declaration must be filled out and sent to the Régie du bâtiment du Québec (RBQ) by pressure fitting manufacturers when they make an application registration for fittings.

For more information on the application registration for fittings, consult the [www.rbq.gouv.qc.ca/fittings-pv](http://www.rbq.gouv.qc.ca/fittings-pv).

### 1. Fittings to register

List the fittings included in this declaration and that you wish to register.

N°	Description	Additional information (detail, calculations or approval sheets)
1	DIAPHRAGM SEAL DEVICES	
2	SCOPE OF CRN, REPORTS	
3	DRAWINGS	
4	CALCULATIONS	
5	COMPANY LOGO	

### 2. Declaration of the person in charge

The person in charge is someone in a position of authority, such as a vice-president, a plant manager or a chief engineer.

**2.1 Design**

I, the undersigned, Christopher Proios Division Manager Quality Management  
(Name of the person in charge) (Title of the person in charge)

from Endress+Hauser SE+Co. KG, located at see attached worldwide locations appendix  
(Company's name) (Plant's address)

hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:


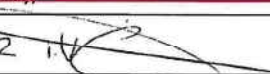
comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose or ASME B31.1, ASME B31.3

are not covered by the ANSI/ASME codes, but are in compliance with \_\_\_\_\_  
(Name of code or standard)

code or standard and are designed according to the best current engineering practice, as proven by the enclosed approval report.

**2.2 Manufacturing quality control**

I further declare that the manufacture of these fittings is controlled by a quality control program that complies with the requirements of the following code: ISO 9001:2015, and has been verified by SQS  
(Name of code) (Authorized agency)

Signature of the person in charge:  Date (yyyy-mm-dd): 2023-12-22 

### 3. Declaration of commissioner for oaths

I certify that this declaration has been administered before me, at _____, on _____.	
(Location)	(Date (yyyy-mm-dd)):
Signature of commissioner for oaths:	Date (yyyy-mm-dd):
Stamp the seal:	

### 4. Registration confirmation (for RBQ's use only)

As far as I know, this application complies with the requirements of the Act and with standard CSA B51, Part 1, section 4.2, and is accepted for registration in the class _____.	
This registration expires in ten (10) years after the date of registration indicated above, and it must be validated again after this period.	
Canadian registration number (CRN):	Registration date (yyyy-mm-dd):



#### Documents to attach

Any application registration for fittings must include these documents:

- Statutory Declaration Registration of Fittings (2 copies)
- Detailed calculations or burst test report (1 copy)
- Detailed technical drawings or catalogues (2 copies)
- Example of the manufacturer's marking (1 copy)
- Proof that a valid and approved quality control program has been implemented (1 copy)
- Form Application for design registration (1 copy)


#### Sending the form

This declaration is necessary to submit an application for design registration. Design registration applications must be sent by email only to [enregistrementdesplans@rbq.gouv.qc.ca](mailto:enregistrementdesplans@rbq.gouv.qc.ca).

Documents must be in PDF format and in separate files.

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

New Brunswick X      Nova Scotia X      Prince Edward Island X      Newfoundland and Labrador X  
 Nunavut X      Yukon X      Northwest Territories X

Manufacturers Name: ENDRESS+HAUSER SE+Co.KG, see attached worldwide locations appendix	
Manufacturers Address: see attached worldwide locations appendix	
Plant Locations: see attached worldwide locations appendix	
<p align="center"><b>Category of Fittings to be registered. Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <input checked="" type="radio"/> 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 boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3                  ASME B31.1</p>
<p><b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b></p> <div style="text-align: center;">  <p><b>Endress+Hauser</b> People for Process Automation</p> </div>	
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:**

I Christopher Proios (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS ISO 9001:2015 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F24854.5


FID#: FID-15708

Notes:

- All Fittings shall be registered in the name of the Manufacturer.
- Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality Control programs shall be resubmitted for validation.

11/2016


Use this space for the Official Seal



**DEPT OF JUSTICE PUBLIC SAFETY  
BOILER & PRESSURE VESSEL ACT**

**REGISTRATION ONLY**

CRN 0F24854.57

  
**CHIEF BOILER INSPECTOR**

DATE 11/24/23 Sec 1.0 Fittings Reg 23


BLRs       PVs

FITTINGS       NUCLEAR COMPONENTS



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

New Brunswick X      Nova Scotia X      Prince Edward Island X      Newfoundland and Labrador X  
 Nunavut X      Yukon X      Northwest Territories X

Manufacturers Name: <u>ENDRESS+HAUSER SE+Co.KG, see attached worldwide locations appendix</u>	
Manufacturers Address: <u>see attached worldwide locations appendix</u>	
Plant Locations: <u>see attached worldwide locations appendix</u>	
<p align="center"><b>Category of Fittings to be registered. Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <input checked="" type="radio"/> 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 boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3                  ASME B31.1</p>
<p align="center"><b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b></p> <p align="center"><b>Endress+Hauser</b>                   People for Process Automation</p>	<p align="center"><b>Type of Construction</b></p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/>                  Cast <input type="checkbox"/> Other <input type="checkbox"/>                  Describe other: _____</p>
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:**

I Christopher Proios (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS ISO 9001: 2015 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

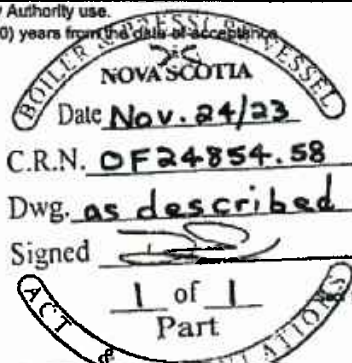

Declared before me at \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

<p align="center">This space for Regulatory Authority use.</p> <p align="center">This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>OF24854.5</u></p> <p>FID#: <u>FID-15708</u></p> <p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer.</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation.</li> </ol> <p>11/2016</p>	<p align="center"></p> <p align="center">Date <u>Nov. 24/23</u></p> <p align="center">C.R.N. <u>OF24854.58</u></p> <p align="center">Dwg. <u>as described</u></p> <p align="center">Signed <u></u></p> <p align="center"><u>1 of 1</u> Part</p> <p align="right">Form 1.0 - Fittings Rev.2</p>
--	--

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

New Brunswick X      Nova Scotia X      Prince Edward Island X      Newfoundland and Labrador X  
 Nunavut x      Yukon x      Northwest Territories x

Manufacturers Name: ENDRESS+HAUSER SE+Co.KG, see attached worldwide locations appendix	
Manufacturers Address: see attached worldwide locations appendix	
Plant Locations: see attached worldwide locations appendix	
<p align="center"><b>Category of Fittings to be registered. Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <input checked="" type="radio"/> 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 boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3                  ASME B31.1</p>
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	
<p><b>Endress+Hauser</b> </p> <p>People for Process Automation</p>	<p align="center"><b>Type of Construction</b></p> <p>Forged <input checked="" type="checkbox"/> Welded <input checked="" type="checkbox"/> Wrought <input checked="" type="checkbox"/>                  Cast <input type="checkbox"/> Other <input type="checkbox"/>                  Describe other:</p>
List of supporting documentation and identification of the actual items to be registered:	
- DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.	


**Declaration:**  
 I Christopher Prolos (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SAS ISO 9001:2015 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:   
 Declared before me at \_\_\_\_\_  
 This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_ Use this space for the Official Seal  
 Commissioner of Oaths  
 Or Notary Public: (sign) \_\_\_\_\_  
 (Affix Official seal to the right)

<p align="center">This space for Regulatory Authority use.                  This registration must be revalidated after ten (10) years from the date of issuance.</p> <p>CRN: <u>0F24854.5</u>                  FID#: <u>FID-15708</u></p> <p>Notes:                  1. All Fittings shall be registered in the name of the Manufacturer.                  2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.                  3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.                  4. Quality Control programs shall be resubmitted for validation.</p> <p>11/2018</p>	<p align="center"><b>ACCEPTED</b></p> <p align="center"><b>PROVINCE OF PRINCE EDWARD ISLAND                  COMMUNITIES, LAND &amp; ENVIRONMENT</b></p> <p>C.R.N. <u>0F24854.59</u>                  DATE: <u>Nov 24 2023</u></p> <p align="center">  <b>INSPECTION SERVICES SECTION</b>  <b>BOILER/PRESSURE VESSEL BRANCH</b></p> <p align="right">Fittings Rev.2</p>
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**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**

New Brunswick x      Nova Scotia x      Prince Edward Island x      Newfoundland and Labrador x  
 Nunavut x      Yukon x      Northwest Territories x

Manufacturers Name: ENDRESS+HAUSER SE+Co.KG, see attached worldwide locations appendix	
Manufacturers Address: see attached worldwide locations appendix	
Plant Locations: see attached worldwide locations appendix	
<p align="center"><b>Category of Fittings to be registered. Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <input checked="" type="radio"/> 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 boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> , (Meeting CNSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3                  ASME B31.1</p>
<p align="center"><b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b></p> <p align="center"><b>Endress+Hauser</b>                   People for Process Automation</p>	<p align="center"><b>Type of Construction</b></p> <p>Forged <input checked="" type="checkbox"/> Welded <input checked="" type="checkbox"/> Wrought <input checked="" type="checkbox"/>                  Cast <input type="checkbox"/> Other <input type="checkbox"/>                  Describe other:</p>
<p align="center"><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:**

I, Christopher Prolos (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by 305 ISO 9001:2015 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at \_\_\_\_\_


This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

(Use this space for the Official Seal)

Commissioner of Oaths


Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

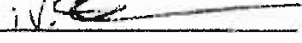
<p>CRN: <u>0F24854.5</u></p> <p>FID#: <u>FID-15708</u></p> <p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation.</li> </ol> <p>11/2015</p>	<p align="center">This space for Regulatory Authority use.</p> <p align="center">This registration must be revalidated after ten (10) years from the date of acceptance</p> <p align="center">Newfoundland                  and                  Labrador</p> <p>Registered <u>0F24854.50</u>                  Date <u>Nov 27, 2023</u>                  Engineering and Inspection Services                  Registered by <u></u></p> <p align="center">UNDER THE AUTHORITY OF THE                  PUBLIC SAFETY ACT AND      Sect 16 - Fittings Rev 2                  THE BOILER, PRESSURE VESSEL AND                  COMPRESSED GAS REGULATIONS</p>
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**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**

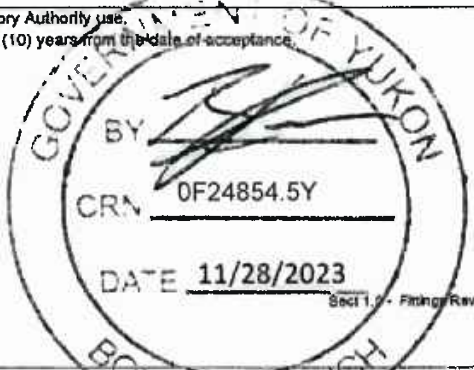
New Brunswick X      Nova Scotia X      Prince Edward Island X      Newfoundland and Labrador X  
 Nunavut X      Yukon X      Northwest Territories X

Manufacturers Name: ENDRESS+HAUSER SE+Co.KG, see attached worldwide locations appendix	
Manufacturers Address: see attached worldwide locations appendix	
Plant Locations: see attached worldwide locations appendix	
<p align="center"><b>Category of Fittings to be registered. Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <input checked="" type="radio"/> 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 boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3                  ASME B31.1</p>
<p align="center"><b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b></p> <p align="center"><b>Endress+Hauser</b>                   People for Process Automation</p>	<p align="center"><b>Type of Construction</b></p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/>                  Cast <input type="checkbox"/> Other <input type="checkbox"/>                  Describe other:</p>
<p align="center"><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:**  
 I, Christopher Proios (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS ISO 9001:2015 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:   
 Declared before me at \_\_\_\_\_  
 This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_  
 Commissioner of Oaths  
 Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

<p align="center">This space for Regulatory Authority use.                  This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>0F24854.5</u>                  FID#: <u>FID-15708</u></p> <p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer.</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation.</li> </ol> <p>11/2016</p>	
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**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**

New Brunswick X      Nova Scotia X      Prince Edward Island X      Newfoundland and Labrador X  
 Nunavut X      Yukon X      Northwest Territories X

Manufacturers Name: <u>ENDRESS+HAUSER SE+Co.KG, see attached worldwide locations appendix</u>	
Manufacturers Address: <u>see attached worldwide locations appendix</u>	
Plant Locations: <u>see attached worldwide locations appendix</u>	
<p align="center"><b>Category of Fittings to be registered, Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <b>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</b>                  G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CHSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3                  ASME B31.1</p>
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	
<p><b>Endress+Hauser</b> </p> <p>People for Process Automation</p>	
Type of Construction Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: _____	
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:**

I Christopher Pross (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001:2015 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

Use this space for the Official Seal

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

<p>CRN: <u>OF24854.5</u></p> <p>FID#: <u>FID-15708</u></p> <p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer.</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation.</li> </ol> <p>11/2018</p>	<p align="center">This space for Regulatory Authority                  This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p align="center"><b>Northwest Territories</b></p> <p align="center"><b>REGISTERED UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT.</b></p> <p align="center">C.R.N. <u>OF24854.5T</u></p> <p align="center">SIGNED <u></u></p> <p align="center">DATE <u>NOV 27 2013</u></p>
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Form 1.0 - Fittings Rev.2

163.00

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

New Brunswick  Nova Scotia  Prince Edward Island  Newfoundland and Labrador   
 Nunavut  Yukon  Northwest Territories

Manufacturers Name: <b>ENDRESS+HAUSER SE+Co.KG</b> , see attached worldwide locations appendix	
Manufacturers Address: see attached worldwide locations appendix	
Plant Locations: see attached worldwide locations appendix	
<p align="center"><b>Category of Fittings to be registered. Circle one Category only</b></p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers                  B Flanges: all flanges                  C Valves: all line valves                  D Expansion joints, flexible connections, and hose assemblies: all types                  E Strainers, filters, separators, and steam traps  <input checked="" type="radio"/> 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 boilers, pressure vessels, piping and fusible plugs                  H Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p align="center"><b>Title of the Standard of Construction</b></p> <p>ASME B31.3 ASME B31.1</p>
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	
<p><b>Endress+Hauser</b> </p> <p>People for Process Automation</p>	<p align="center"><b>Type of Construction</b></p> <p>Forged <input checked="" type="checkbox"/> Welded <input checked="" type="checkbox"/> Wrought <input checked="" type="checkbox"/>                  Cast <input type="checkbox"/> Other <input type="checkbox"/>                  Describe other:</p>
List of supporting documentation and identification of the actual items to be registered: - DIAPHRAGM SEAL DEVICES, SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.	

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Signature of Declarer: [Signature]

Declared before me at \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

<p>CRN: <u>OF24854.5</u></p> <p>FID#: <u>FID-15708</u></p> <p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer.</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation.</li> </ol> <p align="left">11/2016</p>	<p align="center">This space for Regulatory Authority use.                  This registration must be revalidated after 10 years from the date of acceptance.</p> <p align="center"><b>REGISTEED</b></p> <p>CRN <u>OF24854.5N</u></p> <p>Date <u>2023-11-24</u></p> <p>Signed <u>[Signature]</u>                  Chief Inspector <span style="float: right;">Sect 1.0 - Fittings Reg.</span></p> <p align="center"><b>Territorial Registration Fee</b></p>
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