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TITAN RESEARCH GROUP  
200-1920 YONGE STREET  
TORONTO ON M4S 3E6  
CANADA

**Date:** August 24, 2022  
**Account #:** 60267  
**Journal #:** 80909

**Attn:** TITAN RESEARCH GROUP

**Re:** Application for Design Registration

The design, as detailed in your, Liquitrend QMW43; Liquipoint FTW33, SOR , for a Fitting is accepted for registration as follows:

**Registered To:** ENDRESS + HAUSER SE + CO. **CRN:** 0F15498.51  
KG

**Drawing #:** SOR-960014827

**Drawing Revision:** A

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

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on 18-Jul-2032. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0F15498.5R2 registration shall apply to BC registration.

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

Emilia Tam

emilia.tam@technicalsafetybc.ca  
Design Administration

**cc:**

August 24, 2022

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

The design submission, tracking number 2022-04504, originally received on August 10, 2022 was surveyed and accepted for registration as follows:

<b>CRN :</b> 0F15498.52	<b>Accepted on:</b> August 24, 2022
<b>Reg Type:</b> ADDITION TO ACC. FITTING	<b>Expiry Date:</b> July 18, 2032
<b>Drawing No. :</b> SOR-960014827 Rev A As Noted	
<b>Fitting type:</b> Measuring devices	
Design registered in the name of : ENDRESS + HAUSER SE + CO KG	

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

*Clamps shall have ABSA CRN before operation. .*

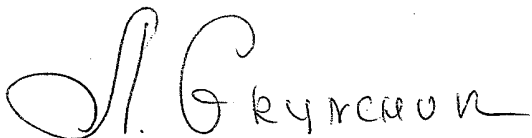
*As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction are ASME B31.1 and ASME B31.3.*

- *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 3330 or fax (780) 437-7787 or e-mail grynchuk@absa.ca.

Sincerely,



GRYNCHUK, MILLA, P. Eng.  
DOP Cert. No. D00005217

## STATUTORY DECLARATION Registration of Fittings

Single or Multiple Fitting Designs within one Fitting Category

I, Christopher Proios, Quality Manager  
(name of applicant) (position title) (must be in a position of authority)  
 of Endress+Hauser se+Co KG, see "Worldwide Locations"  
(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.

Endress+Hauser 

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

- ☐ comply with the requirements of \_\_\_\_\_ 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 ASME B31.3-2020; ASME B31.1-2000 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.	SOR: 960014827	ISO 9001:2015	SEE QA CERT	04-04-2025	SQS	SEE QA CERT.
2.						

Tracking #: \_\_\_\_\_



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

Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50;  
SMS 1-1/2; E+H proprietary weld adapter ≤65mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4";  
ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348

i.v.  
(Signature of the Declarer)

12 Mai 2022  
(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))

**DUE TO COVID NOTARIZATION IS NOT POSSIBLE**

Commissioner of Oaths / Notary Public in and for: \_\_\_\_\_  
(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 \_\_\_\_\_.

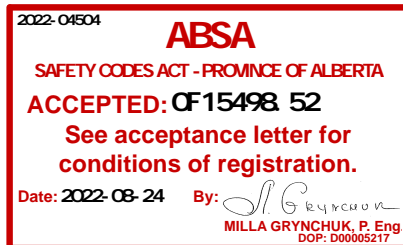
CRN: \_\_\_\_\_

Registered Date: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

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



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 #: \_\_\_\_\_

Scope of Registration (SOR-960014827, Rev. A)

Liquipoint FTW33, Liquitrend QMW43

Code of Construction ASME B31.3

	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Relevant Drawing
Type	Design	Pressure components			
LIQUIPOINT FTW33  LIQUITREND QMW43	ISO 2852 Tri-Clamp	Sanitary: 1", 1.5", 2"	UNS S31603, SA-479, (316L 1.4435, 1.4404) UNS N06455, SB-574, C-4(2.4610)	25 bar, -20°C to 150°C	Drawing No: 960014484 960014714 960015348
	DIN 11851 Tube connection and slotted nut	DN25, DN32, DN40, DN50			
	SMS Adaptor connection and slotted nut	1-1/2"			
	E+H proprietary weld adapter	≤ Ø65mm			
	Varivent N/F	DM25, DN32, DN40, DN50			
	Whitworth Pipe Thread standard DIN/ISO 228	G1", G3/4"			
	ASME B1.13M	M24×1.5			

Notes:

1. Refer to E+H Technical Description 960014827- for design calculations and test results.
2. The above fittings are for use with expansible fluids and fluids more hazardous than water and do not meet exemption requirements under current Canadian regulations.

**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

**WORLDWIDE LOCATIONS APPENDIX**

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

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(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**

09-Sep-22

Titan Research Group  
1920 Yonge Street  
Toronto, Ontario  
M4S 3E2**Attention: Rob McGregor****File Number: 13243 [ 0 F]****Re: Manufacturer: Endress+Hauser SE+CO KG**  
**Item: Liquipoint FTW33, Liquitrend QMW43**  
**Catalog or Drawing: Scope of Registration (SOR-960014827, Rev. A)**

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:

**0F15498.53                      Expiry Date: July 18, 2032**

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:**

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.



## Statutory Declaration (Registration of Fittings)

**TSK-1008**

### I. Declaration Information

I, Christopher Proior,

Quality Manager

(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, see "Worldwide Locations"  
(name of manufacturer)

Endress+Hauser 

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 \_\_\_\_\_ 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 ASME B31.3-2020, ASME B31.1- 2020 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 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

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

Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter ≤65mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827

### II. Declaration

DECLARED before me at \_\_\_\_\_ In the \_\_\_\_\_ of \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

(print name)

(Signature) 

12. Mai 2022

(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 \_\_\_\_\_

(Registration Number)

(Date Registered – MM DD YYYY)  
(For the Chief Inspector)

(Expiry Date – MM DD YYYY)



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. OF15498.53

File No. 13243

☒ Registered

Date: September 09, 2022

Expiry Date: July 18, 2032

Codes & Standards Compliance Office

**WORLDWIDE LOCATIONS APPENDIX**

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

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(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**

Scope of Registration (SOR-960014827, Rev. A)

Liquipoint FTW33, Liquitrend QMW43

Code of Construction ASME B31.3

	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Relevant Drawing
Type	Design	Pressure components			
LIQUIPOINT FTW33  LIQUITREND QMW43	ISO 2852 Tri-Clamp	Sanitary: 1", 1.5", 2"	UNS S31603, SA-479, (316L 1.4435, 1.4404) UNS N06455, SB-574, C-4(2.4610)	25 bar, -20°C to 150°C	Drawing No: 960014484 960014714 960015348
	DIN 11851 Tube connection and slotted nut	DN25, DN32, DN40, DN50			
	SMS Adaptor connection and slotted nut	1-1/2"			
	E+H proprietary weld adapter	≤ Ø65mm			
	Varivent N/F	DM25, DN32, DN40, DN50			
	Whitworth Pipe Thread standard DIN/ISO 228	G1", G3/4"			
	ASME B1.13M	M24×1.5			

Notes:

1. Refer to E+H Technical Description 960014827- for design calculations and test results.
2. The above fittings are for use with expansible fluids and fluids more hazardous than water and do not meet exemption requirements under current Canadian regulations.





August 31, 2022

Titan Research Group  
1902 Yonge Street, 2nd Floor  
Toronto, ON M4S 3E2

**Dear Rob McGregor,**

**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-R2561
CRN:	0F15498.54
Scope:	SOR-960014827 Rev A
Manufacturer:	Endress+Hauser SE+Co. KG, "Worldwide locations"
Expiry Date:	18 July 2032

Along with this letter is the invoice for registration.

In addition, every vessel shall be stamp of 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, Consumer Protection and Government Services  
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)

July 18, 2022

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

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 8146774  
**Your Reference No.:** JOB #LIQUITREND GMW43-33  
**Registered to:** TITAN RESEARCH GROUP

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 : 0F15498.5R2  
Main Design No.: SOR-960014827 Rev. A  
Expiry Date: Jul 18, 2032

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,

Andy Concister P. Eng.  
Engineer, BPV  
Tel. : +1 416-734-3349  
Email : [aconcister@tssa.org](mailto:aconcister@tssa.org)



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

Endress+Hauser

## STATUTORY DECLARATION Registration of Fittings

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

of Endress+Hauser SE+CO KG, See also "Worldwide Locations"  
(Name of Manufacturer)

Located at Hauptstrasse 1, 79689 Maulburg, see also "Worldwide Locations"  
(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, ASME B31.1 2020 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 Category F type fittings. In support of this application, the following information and/or test data are attached as follows:  
SOR 960014827

Declared before me at \_\_\_\_\_ in the \_\_\_\_\_ of \_\_\_\_\_  
the \_\_\_\_\_ day of \_\_\_\_\_ AD 20\_\_\_\_.

Commissioner for Oaths:

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

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

i.v.   
(Signature of Declarer) 12. Mai 2022

### 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: 0F15498.5R2

Registered by: A Concister

Dated: July 18, 2022

NOTE: This registration expires on: July 18, 2032

Technical  
Standards  
and Safety  
Authority

Boilers and  
Pressure Vessels  
Safety Program

**REGISTERED**

C.R.N.: 0F15498.5R2

Signed: A Concister

Date: July 18, 2022.

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

Scope of Registration (SOR-960014827, Rev. A)

Liquipoint FTW33, Liquitrend QMW43

Code of Construction ASME B31.3

	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Relevant Drawing
Type	Design	Pressure components			
LIQUIPOINT FTW33  LIQUITREND QMW43	ISO 2852 Tri-Clamp	Sanitary: 1", 1.5", 2"	UNS S31603, SA-479, (316L 1.4435, 1.4404) UNS N06455, SB-574, C-4(2.4610)	25 bar, -20°C to 150°C	Drawing No: 960014484 960014714 960015348
	DIN 11851 Tube connection and slotted nut	DN25, DN32, DN40, DN50			
	SMS Adaptor connection and slotted nut	1-1/2"			
	E+H proprietary weld adapter	≤ Ø65mm			
	Varivent N/F	DM25, DN32, DN40, DN50			
	Whitworth Pipe Thread standard DIN/ISO 228	G1", G3/4"			
	ASME B1.13M	M24×1.5			

Notes:

1. Refer to E+H Technical Description 960014827- for design calculations and test results.
2. The above fittings are for use with expansible fluids and fluids more hazardous than water and do not meet exemption requirements under current Canadian regulations.

**THIS IS PART OF CRN**  
**0F15498.5R2**  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

Montréal, le 23 août 2022.

MR. ROB MCGREGOR  
TITAN RESEARCH GROUP  
1920 YONGE STREET SUITE 200  
TORONTO ONTARIO  
CANADA M4S 3E2

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

OUR REFERENCE : 947363  
Design number : Liquipoint FTW33 SOR 960014827, REV. A

**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): **0F15498.56**.

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 equipment 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**

545, boul. Crémazie Est, 7ième étage  
Montréal (Québec) H2M 2V2  
Téléphone : 514 873-6459  
Sans frais : 1 866 262-2084  
[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	SOR 960014827	Scope of Registration Summary
2		
3		
4		
5		

## 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.

<b>2.1 Design</b>	
I, the undersigned, <u>Christopher Proios</u>	<u>Quality Manager</u>
(Name of the person in charge)	(Title of the person in charge)
from <u>Endress + Hauser SE + CO KG</u>	<u>Hauptstrasse 1, 79689 Maulburg, Germany</u>
(Company's name)	(Plant's address)
hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:	
<input type="checkbox"/> comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose or <input checked="" type="checkbox"/> are not covered by the ANSI/ASME codes, but are in compliance with <u>ASME B31.3-2020 ; ASME B31.1 - 2020</u>	
(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.	
<b>2.2 Manufacturing quality control</b>	
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: <u>ISO 9001:2015</u>	<u>SQS</u>
(Name of code)	(Authorized agency)
Signature of the person in charge: <u>[Signature]</u>	Date (yyyy-mm-dd): <u>12. Mai 2022</u>

## Declaration of commissioner for oaths

I declare 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:

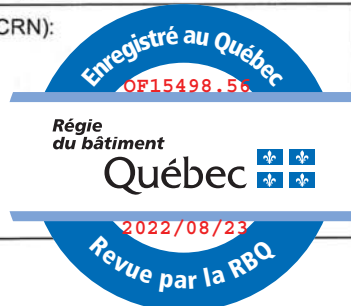
## 4. Registration confirmation (for RBQ's use only)

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

Documents must be in PDF format and in separate files.

**WORLDWIDE LOCATIONS APPENDIX**

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

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(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**



Scope of Registration (SOR-960014827, Rev. A)

Liquipoint FTW33, Liquitrend QMW43

Code of Construction ASME B31.3

	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Relevant Drawing
Type	Design	Pressure components			
LIQUIPOINT FTW33  LIQUITREND QMW43	ISO 2852 Tri-Clamp	Sanitary: 1", 1.5", 2"	UNS S31603, SA-479, (316L 1.4435, 1.4404) UNS N06455, SB-574, C-4(2.4610)	25 bar, -20°C to 150°C	Drawing No: 960014484 960014714 960015348
	DIN 11851 Tube connection and slotted nut	DN25, DN32, DN40, DN50			
	SMS Adaptor connection and slotted nut	1-1/2"			
	E+H proprietary weld adapter	≤ Ø65mm			
	Varivent N/F	DM25, DN32, DN40, DN50			
	Whitworth Pipe Thread standard DIN/ISO 228	G1", G3/4"			
	ASME B1.13M	M24×1.5			

Notes:

1. Refer to E+H Technical Description 960014827- for design calculations and test results.
2. The above fittings are for use with expansible fluids and fluids more hazardous than water and do not meet exemption requirements under current Canadian regulations.




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

New Brunswick  
Nunavut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
Manufacturers Address: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
Plant Locations: Endress+Hauser SE+CO. KG, see also "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</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p><b>F</b> Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>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 - 2020; ASME B31.1 - 2020</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> </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: machined</p>
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter ≤65mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827</p>	

**Declaration:**

I Christopher Prolos (see note 3) employed by **Endress+Hauser** 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 SGS 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: i.v.c.  
 Declared before me at 12 Mar 2022  
 This \_\_\_\_\_ day of \_\_\_\_\_ AD  
 Commissioner of Oaths  
 Or Notary Public: (sign) \_\_\_\_\_

Use this space for the Official Seal

<p>CRN: <u>0F15498.5 Rev.2</u></p> <p>FID#: <u>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 CRN renewal. CRN expires July 18th, 2032 (DGallant)</p>	<p align="center">This space for Regulatory Authority use. New Brunswick This registration must be revalidated after ten (10) years from date of acceptance.</p> <p align="center"><b>DEPT OF JUSTICE BOILER &amp; PR</b></p> <p align="center">REGIS 2010</p> <p align="center">CRN <u>0F15498.57 Rev 2</u></p> <p align="center"><u>Ram</u> CHIEF BOILER &amp; PR</p> <p align="center">Sect. 1.0 - Fittings Rev.2</p> <p align="center">DATE <u>Aug 18, 2022</u></p> <p><input type="checkbox"/> BLRs <input type="checkbox"/>   <input type="checkbox"/> FITTING <input type="checkbox"/></p>
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# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick  
Nunavut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

Manufacturers Address: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

Plant Locations: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

## Category of Fittings to be registered. Circle one Category only

- 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
- 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 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

Show Manufacturers Name, Trademark, or Logo as it will appear on the product

Endress+Hauser 

## Title of the Standard of Construction

ASME B31.3 - 2020;  
ASME B31.1 - 2020

## Type of Construction

Forged ☐ Welded ☐ Wrought ☐  
Cast ☐ Other ☐  
Describe other:


machined

## List of supporting documentation and identification of the actual items to be registered:

Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter  $\leq 65$ mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827

## Declaration:

I, Christopher Prolos (see note 3) employed by Endress+Hauser 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 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 192 May 2022

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

Commissioner of Oaths

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

(Affix Official seal to the right)

Use this space for the Official Seal

This space for Regulatory Authority use.

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0F15498.5 Rev.2

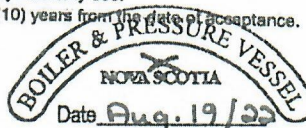
FID#: 15708

## 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.

11/2018

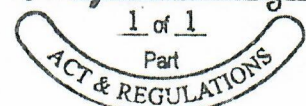
CRN renewal. CRN expires July 18th, 2032 (DGallant)



C.R.N. 0F15498.58 REV2

Dwg. as described

Signed Yvonne Perry



Secl 1.0 - Fittings Rev.2




# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick  
Nunavut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
Manufacturers Address: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
Plant Locations: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
<p><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</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p><b>F</b> Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>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><b>Title of the Standard of Construction</b></p> <p>ASME B31.3 - 2020; ASME B31.1 - 2020</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p>Endress+Hauser </p>	
<p><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: machined</p>	
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter s65mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827</p>	

## Declaration:

I Christopher Priolo (see note 3) employed by Endress+Hauser 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 SOS 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: 192, Mai 2022

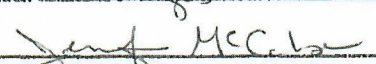
This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

Use this space for the Official Seal

Commissioner of Oaths

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

(Affix Official seal to the right)

<p>This space for Regulatory Authority use.</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>GRN: 0F15498.5 Rev.2</p> <p>FID#: 15708</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>CRN renewal. CRN expires July 18th, 2032 (DGallant)</p>		<p>ACCEPTED</p> <p>PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND &amp; ENVIRONMENT</p> <p>C.R.N. 0F15498.59 Rev 2</p> <p>DATE: August 18 2022</p> <p></p> <p>INSPECTION SERVICES SECTION BOILER/PRESSURE VESSEL BRANCH</p> <p>Seal 1.0 - Fittings Rev.2</p>
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# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick  
Nunavut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
Manufacturers Address: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
Plant Locations: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
<b>Category of Fittings to be registered. Circle one Category only</b> 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)	<b>Title of the Standard of Construction</b>  ASME B31.3 - 2020; ASME B31.1 - 2020
<b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b>  <div style="text-align: center;"> <b>Endress+Hauser</b>  </div>	
<b>Type of Construction</b> Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other: machined	
<b>List of supporting documentation and identification of the actual items to be registered:</b>  Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter s65mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827	

## Declaration:

I Christopher Prolos (see note 3) employed by Endress+Hauser 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 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

12 May 2022

This day of

AD

Use this space for the Official Seal

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: <u>0F15498.5 Rev.2</u> FID#: <u>15708</u> 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.	Digital Government and Service NL Registered <u>0F15498.50 Rev.2</u> Date <u>23-Aug-2022</u> Engineering and Inspection Services Registered by <u>David Jackson</u> 11/2018 CRN renewal. CRN expires July 18th, 2032 (DGallant)

UNDER THE AUTHORITY OF THE  
PUBLIC SAFETY ACT AND  
THE BOILER, PRESSURE VESSEL AND  
COMPRESSED GAS REGULATIONS

Sect 1.0 - Fittings Rev.2




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

New Brunswick  
Nunavut

Nova Scotia  
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Manufacturers Name: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
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Plant Locations: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"	
<p><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</p> <p>B. Flanges: all flanges</p> <p>C. Valves: all line valves</p> <p>D. Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E. Strainers, filters, separators, and steam traps</p> <p><b>F. Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</b></p> <p>G. Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>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><b>Title of the Standard of Construction</b></p> <p>ASME B31.3 - 2020; ASME B31.1 - 2020</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p align="center"><b>Endress+Hauser</b> </p>	<p><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: machined</p>
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter ≤65mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827</p>	

**Declaration:**

I, Christopher Prolos (see note 3) employed by Endress+Hauser 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 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: i.v. c.

Declared before me at 192 May 2022

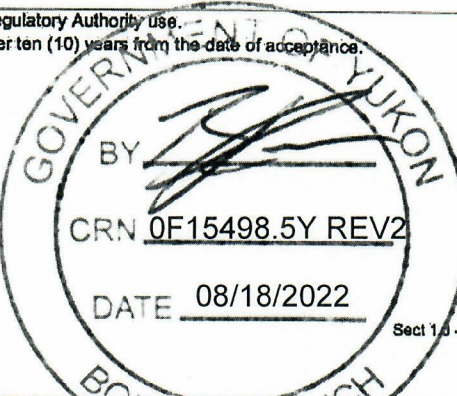
This \_\_\_\_\_ day of \_\_\_\_\_ AD \_\_\_\_\_

Use this space for the Official Seal

Commissioner of Oaths

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

(Affix Official seal to the right)

<p>CRN: <u>0F15498.5 Rev.2</u></p> <p>FID#: <u>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>CRN renewal. CRN expires July 18th, 2032 (DGallant)</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> <div align="center">  <p>GOVERNMENT OF YUKON</p> <p>BY <u>[Signature]</u></p> <p>CRN <u>0F15498.5Y REV2</u></p> <p>DATE <u>08/18/2022</u></p> <p>BOILERS BRANCH</p> </div> <p align="right">Sect 1.4 - Fittings Rev.2</p>
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# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick  
Nunavut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

Manufacturers Address: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

Plant Locations: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

## Category of Fittings to be registered. Circle one Category only

- 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
- ☒ 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 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

## Title of the Standard of Construction

ASME B31.3 - 2020;  
ASME B31.1 - 2020

Show Manufacturers Name, Trademark, or Logo as it will appear on the product

Endress+Hauser 

## Type of Construction

Forged ☐ Welded ☐ Wrought ☐  
Cast ☐ Other ☐

Describe other:

machined

## List of supporting documentation and identification of the actual items to be registered:

Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter ≤55mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA478 316L; SB-574 C-4; 25 bar, -20C to 150 C; drawing 980014484, 980014714, 980015348; SOR 980014827

## Declaration:

I Christopher Prolos (see note 3) employed by Endress+Hauser 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 SGS 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 12 Mar 2022

This day of AD

Commissioner of Oaths

Or Notary Public: (sign)

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: 0F15498.5 Rev.2

FID#: 15708

## 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.

11/2018

CRN renewal. CRN expires July 18th, 2032 (DGallant)

This space for Regulatory Authority Use.

This registration must be revalidated after ten (10) years from the date of acceptance

Northwest  
Territories

REGISTERED  
UNDER THE AUTHORITY OF  
THE BOILER AND PRESSURE  
VESSEL ACT.

C.R.N. 0F15498.5 Rev.2

SIGNED

DATE Aug 27 2022

SEAL 1.0 - 11/2018 Rev.2



# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick  
Alnusut

Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

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Manufacturers Address: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

Plant Locations: Endress+Hauser SE+CO. KG, see also "Worldwide Locations Appendix"

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Show Manufacturers Name, Trademark, or Logo as it will appear on the product

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## Title of the Standard of Construction

ASME B31.3 - 2020;  
ASME B31.1 - 2020

## Type of Construction

Forged ☐ Welded ☐ Wrought ☐  
Cast ☐ Other ☐  
Describe other:  
machined

## List of supporting documentation and identification of the actual items to be registered:

Liquipoint FTW33, Liquitrend QMW43 Sanitary: 1", 1.5", 2"; DIN 11851 DN25, DN32, DN40, DN50; SMS 1-1/2; E+H proprietary weld adapter s85mm diameter; Varivent DN25, DN32, DN40, DN50; DIN 228 G1", G3/4"; ASME B1.13M M24 x 1.5; SA479 316L; SB-574 C-4; 25 bar; -20C to 150 C; drawing 960014484, 960014714, 960015348; SOR 960014827

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Signature of Declarer: i.v.c.  
Declared before me at: 12 Mar 2022

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

Commissioner of Oaths

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

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CRN: 0F15498.5 Rev.2

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.
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- Quality Control programs shall be resubmitted for validation.

11/2016

CRN renewal CRN expires July 18th, 2032 (DGallant)

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



**NUNAVUT**  
Boilers and  
Pressure Vessels Act

REGISTERED

CRN DF15498-5N Rev2

Date 2022-08-18

Sept 1.0 - Fittings Rev.2

Signed \_\_\_\_\_

Chief Inspector

**Territorial Registration Fee**