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TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ON M9W 6N9

**Date:** August 4, 2022  
**Account #:** 35231  
**Journal #:** 80702

**Attn:** TSSA

**Re:** Application for Design Registration

The design, as detailed in your, 0F22502.5R1 - ENDRESS + HAUSER GMBH + CO, for a Fitting is accepted for registration as follows:

**Registered To:** ENDRESS+HAUSER SE+CO. KG **CRN:** 0F22502.51

**Drawing #:** Scope Document 961004198

**Drawing Revision:** N/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 15-Jun-2030. 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# 0F22502.5R1 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:**

July 06, 2022

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2022-03480, originally received on June 22, 2022 was surveyed and accepted for registration as follows:

**CRN :** 0F22502.52 **Accepted on:** July 06, 2022  
**Reg Type:** RENEWAL **Expiry Date:** June 15, 2030  
**Drawing No. :** SCOPE DOCUMENT 961004198 Rev 09FEB22  
**Fitting type:** Pressure Device  
Design registered in the name of : ENDRESS + HAUSER GMBH & CO KG

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

*As indicated on AB-41 Statutory Declaration 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 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 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 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



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 

## STATUTORY DECLARATION Registration of Fittings

I, CHRISTOPHER PROIOS, DIVISION MANAGER QUALITY MANGEMENT

(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 B31.3, ASME B31.1

(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 which has been verified by the following authority, SQS

The items covered by this declaration, for which I seek registration, are category F - Metallic Pressure 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 08 day of March AD 20 22.

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 \_\_\_\_\_.

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

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

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

NOTE: This registration expires on: \_\_\_\_\_

2022-03480

**ABSA**

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: **OF 22502 52**

See acceptance letter for  
conditions of registration.

Date: 2022-07-06

By: 

XING LIU, P. Eng.  
DOP: D00008861

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.

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

PV 09553 (04/17)



**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**

## STATUTORY DECLARATION Registration of Fittings

Single or Multiple Fitting Designs within one Fitting Category

I, CHRISTOPHER PROIOS, DIVISION MANAGER QUALITY  
(name of applicant) (position title) (must be in a position of authority)  
of ENDRESS+HAUSER SE+Co. KG  
(name of manufacturer)  
located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX  
(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 ASME B31.1, 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.	F - Metallic Pressure Devices	ISO 9001:2015	Development and Production	03.04.2022	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, DRAWINGS, CALCULATIONS, REPORTS

  
(Signature of the Declarer)

08. März 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))

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

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



Doc. #961004198

## SCOPE OF CRN REGISTRATION

<b>Product Description:</b>	Category F Fittings: Metallic Pressure Devices
<b>Product Models:</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
<b>Code of Construction:</b>	ASME B31.1, ASME B31.3.
<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, A182 (316, 1.4401), UNS N10276 ASTM B575 (C276, 2.4819)

## PRODUCT DESCRIPTION

Report Number	Process Connection Size and Type	Drawing	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1158A	Thread MNPT 1/2", FNPT 1/2"	961002543 Olvorlage HD700	621 barg at 38°C 621 barg at 50°C 618 barg at 100°C 595 barg at 150°C	-60°C	(O)PMP51(B), (O)PMP71(B)
R-1158B	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4", Sockets to accept capillary and mounted diaphragm seals	961002547 Olvorlage HD400	400 barg at 150°C	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP71(B)
R-1158C	Thread MNPT 3/4", 1" 1-1/2", 2"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-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)
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	ASME BPE / ISO 2852 Clamp Ferrule 1/2", 1" 1-1/2", 2" (Note 3)	961002513 Olvorlage HD100	14.4 barg at 38°C 14.4 barg at 50°C 14.3 barg at 100°C 13.8 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Bio Control D25, D50	961002513 Olvorlage HD100	16 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Varivent B, F, N (Note 3)	961002513 Olvorlage HD100	40 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread G 1/2", G1" O-Ring Seal, G1" Sealing Cone	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Sockets to accept capillary and mounted diaphragm seals	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	





Doc. #961004198

**PRODUCT DESCRIPTION CONTINUED**

Report Number	Process Connection Size and Type	Drawing	MAWP (barg) at MAWT (°C)	MDMT	Type
R-1158C	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) <b>(Note 4)</b>	961002513 (HD100)	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 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)
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) <b>(Note 4)</b>	961002513 (HD100)	49.6 barg at 38°C 48.1 barg at 50°C 42.2 barg at 100°C 38.5 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	20.0 barg at 38°C 19.5 barg at 50°C 17.7 barg at 100°C 15.8 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	51.7 barg at 38°C 51.7 barg at 50°C 51.5 barg at 100°C 50.3 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	

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

**Note 2:** 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 3:** The Clamp Ferrule and Varivent connection shall be used with a clamp, 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 and shall have pressure-temperature ratings the same or higher than the product ratings.

**Note 4:** Stainless steel flanges are constructed from Type 316/316L dual rated material.

**Note 5:** See Attached List of Endress+Hauser Manufacturing locations applicable to this CRN.

**REGISTRATION OF A PRESSURE FITTING DESIGN**

08-Aug-22

TSSA  
345 Carlingview Drive  
Toronto, Ontario  
M9W 6N9**Attention: Tanya Francis****File Number: 13171 [ 0 F]****Re: Manufacturer: Endress + Hauser SE+Co. KG**  
**Item: Metallic Pressure Devices**  
**Catalog or Drawing: Scope of Registration Doc. #961004198 (09-Feb-22)**

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:

**0F22502.53          Expiry Date: June 15, 2030**

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,

Athan Syrgiannis, P.Eng.  
Codes and Standards Compliance**Remarks:**

Revision to existing design, per scope of registration.

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

CRN issuance based upon registration by another province.

See Worldwide Locations Appendix document (rev. 22/Jan/2020) for list of manufacturing locations.


**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.

**Endress+Hauser** 

located at: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX  
(Plant Address – Apt/Street) (City, Prov) (Postal Code)

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

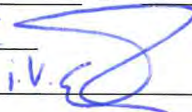
- ☒ Comply with the requirements of ASME B31.3, B31.1 which specifies the dimensions,  
(title of recognized North American Standard)  
Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
- ☐ Are not covered by the provisions of a recognized North 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 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 - METALLIC PRESSURE DEVICES

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

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

**II. Declaration**

DECLARED before me at \_\_\_\_\_ In the \_\_\_\_\_ of \_\_\_\_\_  
this 08 day of March, 2022  
(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 Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_



Registration No. 0F22502.53  
File No. 13171  
Registered  
Date: August 8, 2022  
Expiry Date: June 15, 2030

Codes & Standards Compliance Office

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

(Expiry Date – MM DD YYYY)



**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**


Doc. #961004198

## SCOPE OF CRN REGISTRATION

<b>Product Description:</b>	Category F Fittings: Metallic Pressure Devices
<b>Product Models:</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
<b>Code of Construction:</b>	ASME B31.1, ASME B31.3.
<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, A182 (316, 1.4401), UNS N10276 ASTM B575 (C276, 2.4819)

## PRODUCT DESCRIPTION

Report Number	Process Connection Size and Type	Drawing	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1158A	Thread MNPT 1/2", FNPT 1/2"	961002543 Olvorlage HD700	621 barg at 38°C 621 barg at 50°C 618 barg at 100°C 595 barg at 150°C	-60°C	(O)PMP51(B), (O)PMP71(B)
R-1158B	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4", Sockets to accept capillary and mounted diaphragm seals	961002547 Olvorlage HD400	400 barg at 150°C	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP71(B)
R-1158C	Thread MNPT 3/4", 1" 1-1/2", 2"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-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)
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	ASME BPE / ISO 2852 Clamp Ferrule 1/2", 1" 1-1/2", 2" (Note 3)	961002513 Olvorlage HD100	14.4 barg at 38°C 14.4 barg at 50°C 14.3 barg at 100°C 13.8 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Bio Control D25, D50	961002513 Olvorlage HD100	16 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Varivent B, F, N (Note 3)	961002513 Olvorlage HD100	40 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread G 1/2", G1" O-Ring Seal, G1" Sealing Cone	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Sockets to accept capillary and mounted diaphragm seals	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	

 **Technical Safety Authority of Saskatchewan**

Registration No. 0F22502.53  
File No. 13171  
Registered  
Date: August 8, 2022  
Expiry Date: June 15, 2030  
Codes & Standards Compliance Office



Doc. #961004198

## PRODUCT DESCRIPTION CONTINUED

Report Number	Process Connection Size and Type	Drawing	MAWP (barg) at MAWT (°C)	MDMT	Type
R-1158C	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) (Note 4)	961002513 (HD100)	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 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)
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) (Note 4)	961002513 (HD100)	49.6 barg at 38°C 48.1 barg at 50°C 42.2 barg at 100°C 38.5 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	20.0 barg at 38°C 19.5 barg at 50°C 17.7 barg at 100°C 15.8 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	51.7 barg at 38°C 51.7 barg at 50°C 51.5 barg at 100°C 50.3 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	

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

**Note 2:** 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 3:** The Clamp Ferrule and Varivent connection shall be used with a clamp, 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 and shall have pressure-temperature ratings the same or higher than the product ratings.

**Note 4:** Stainless steel flanges are constructed from Type 316/316L dual rated material.

**Note 5:** See Attached List of Endress+Hauser 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**



July 18, 2022

TSSA  
345 Carlingview Drive  
Toronto, ON M9W 6N9

**Dear Tanya Francis,**

**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-R2452
CRN:	0F22502.54
Scope:	Scope Document 961004198
Manufacturer:	Endress + Hauser GmbH + Co KG
Expiry Date:	15 June 2030

Along with this letter is the invoice for registration.

In addition, every vessel 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, 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)

April 21, 2022

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 8090457  
**Your Reference No.:** R-1480 - REV TO CRN#0F22502.5  
**Registered to:** ENDRESS + HAUSER GMBH + 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 : 0F22502.5R1  
Main Design No.: Scope Document 961004198  
Expiry Date: Jun 15, 2030

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

Note: 1. Revision to existing CRN 0F22502.5 2. Scope of change: Increase pressure ratings of Class 150 and Class 300 (961002513 HD100 & 961002490 ND) pressure gauges per ASME B16.5 Tables 2-2.2 and 3.8 . Items are qualified by proof test 3. 5" sizes are removed from the scope

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Shreyas Madhuranath M.Eng, P.Eng  
Engineer, BPV



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)

Tel. : +1 416-734-3212

Email : [smadhuranath@tssa.org](mailto:smadhuranath@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 

## STATUTORY DECLARATION Registration of Fittings

I, CHRISTOPHER PROIOS, DIVISION MANAGER QUALITY MANGEMENT

(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 B31.3, ASME B31.1

(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 which has been verified by the following authority, SQS

The items covered by this declaration, for which I seek registration, are category F - Metallic Pressure 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 08 day of March AD 20 22.

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: \_\_\_\_\_

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

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

NOTE: This registration expires on: Jun 15, 2030

Technical  
Standards  
and Safety  
Authority

Boilers and  
Pressure Vessels  
Safety Program

**REGISTERED**

C.R.N.: 0F22502.5R1

Signed: 

Date: April 21, 2022.

\* Please see additional notes on  
the design registration letter

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

PV 09553 (04/17)

**THIS IS PART OF CRN**

**0F22502.5R1**

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety  
Program

**Endress+Hauser** 

People for Process Automation

## **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**



Doc. #961004198

## SCOPE OF CRN REGISTRATION

<b>Product Description:</b>	Category F Fittings: Metallic Pressure Devices
<b>Product Models:</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
<b>Code of Construction:</b>	ASME B31.1, ASME B31.3.
<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, A182 (316, 1.4401), UNS N10276 ASTM B575 (C276, 2.4819)

## PRODUCT DESCRIPTION

Report Number	Process Connection Size and Type	Drawing	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1158A	Thread MNPT 1/2", FNPT 1/2"	961002543 Olvorlage HD700	621 barg at 38°C 621 barg at 50°C 618 barg at 100°C 595 barg at 150°C	-60°C	(O)PMP51(B), (O)PMP71(B)
R-1158B	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4", Sockets to accept capillary and mounted diaphragm seals	961002547 Olvorlage HD400	400 barg at 150°C	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP71(B)
R-1158C	Thread MNPT 3/4", 1" 1-1/2", 2"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-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)
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	ASME BPE / ISO 2852 Clamp Ferrule 1/2", 1" 1-1/2", 2" (Note 3)	961002513 Olvorlage HD100	14.4 barg at 38°C 14.4 barg at 50°C 14.3 barg at 100°C 13.8 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Bio Control D25, D50	961002513 Olvorlage HD100	16 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Varivent B, F, N (Note 3)	961002513 Olvorlage HD100	40 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread G 1/2", G1" O-Ring Seal, G1" Sealing Cone	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Sockets to accept capillary and mounted diaphragm seals	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	

Doc. #961004198

**PRODUCT DESCRIPTION CONTINUED**

Report Number	Process Connection Size and Type	Drawing	MAWP (barg) at MAWT (°C)	MDMT	Type
R-1158C	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) <b>(Note 4)</b>	961002513 (HD100)	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 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)
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) <b>(Note 4)</b>	961002513 (HD100)	49.6 barg at 38°C 48.1 barg at 50°C 42.2 barg at 100°C 38.5 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	20.0 barg at 38°C 19.5 barg at 50°C 17.7 barg at 100°C 15.8 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	51.7 barg at 38°C 51.7 barg at 50°C 51.5 barg at 100°C 50.3 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	

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

**Note 2:** 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 3:** The Clamp Ferrule and Varivent connection shall be used with a clamp, 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 and shall have pressure-temperature ratings the same or higher than the product ratings.

**Note 4:** Stainless steel flanges are constructed from Type 316/316L dual rated material.

**Note 5:** See Attached List of Endress+Hauser Manufacturing locations applicable to this CRN.



Montréal, 20 juillet 2022.

MADAME TANYA FRANCIS  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ONTARIO  
CANADA M9W6N9

Fabricant : ENDRESS + HAUSER GMBH + CO KG  
1 HAUPTSTRASSE  
MAULBURG GERMANY  
79689

Numéro de dossier : 947630

Numéro(s) de dessin(s) : PER SCOPEOF CRN REGISTRATION DATED 9FEB2022

**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 : **0F22502.56**.

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 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.

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

Montréal, le 20 juillet 2022.

MRS. TANYA FRANCIS  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ONTARIO  
CANADA M9W6N9

Manufacturer : ENDRESS + HAUSER GMBH + CO KG  
1 HAUPTSTRASSE  
MAULBURG GERMANY  
79689

OUR REFERENCE : 947630

Design number : PER SCOPE OF CRN REGISTRATION DATED 9FEB2022

**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): **0F22502.56**.

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

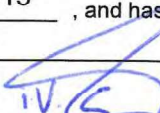
List the fittings included in this declaration and that you wish to register.

N°	Description	Additional information (detail, calculations or approval sheets)
1	METALLIC PRESSURE DEVICES	
2	SCOPE OF CRN, REPORTS	
3	DRAWINGS	
4	CALCULATIONS	
5	COMPANY LOGO - SEE RIGHT	

Endress+Hauser 

### 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>Division Manager Quality Management</u>
(Name of the person in charge)	(Title of the person in charge)
from <u>Endress+Hauser SE+Co.KG</u>	<u>See Attached Worldwide Locations Appendix</u>
(Company's name)	(Plant's address)
hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:	
<input checked="" type="checkbox"/> comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose or ASME B31.3, ASME B31.1	
<input type="checkbox"/> 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.	
<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> , and has been verified by <u>SQS</u>	
(Name of code) (Authorized agency)	
Signature of the person in charge: 	Date (yyyy-mm-dd): <u>2022-03-08</u>



## Declaration of commissioner for oaths

certify that this declaration has been administered before me, at Schopfheim, on 2022-03-08.  
(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**

Doc. #961004198

## SCOPE OF CRN REGISTRATION

<b>Product Description:</b>	Category F Fittings: Metallic Pressure Devices
<b>Product Models:</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
<b>Code of Construction:</b>	ASME B31.1, ASME B31.3.
<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, A182 (316, 1.4401), UNS N10276 ASTM B575 (C276, 2.4819)

## PRODUCT DESCRIPTION

Report Number	Process Connection Size and Type	Drawing	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1158A	Thread MNPT 1/2", FNPT 1/2"	961002543 Olvorlage HD700	621 barg at 38°C 621 barg at 50°C 618 barg at 100°C 595 barg at 150°C	-60°C	(O)PMP51(B), (O)PMP71(B)
R-1158B	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4", Sockets to accept capillary and mounted diaphragm seals	961002547 Olvorlage HD400	400 barg at 150°C	-60°C	(O)PMP50(B), (O)PMP51(B), (O)PMP71(B)
R-1158C	Thread MNPT 3/4", 1" 1-1/2", 2"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-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)
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	ASME BPE / ISO 2852 Clamp Ferrule 1/2", 1" 1-1/2", 2" (Note 3)	961002513 Olvorlage HD100	14.4 barg at 38°C 14.4 barg at 50°C 14.3 barg at 100°C 13.8 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Bio Control D25, D50	961002513 Olvorlage HD100	16 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Varivent B, F, N (Note 3)	961002513 Olvorlage HD100	40 barg at 150°C	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread G 1/2", G1" O-Ring Seal, G1" Sealing Cone	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Thread MNPT 1/2", FNPT 1/2", MNPT 1/2" x FNPT 1/4"	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	
	Sockets to accept capillary and mounted diaphragm seals	961002513 Olvorlage HD100	100/40 barg at 150°C (Note 2)	-60°C	
		961002490 Olvorlage ND	10 barg at 150°C	-60°C	



Doc. #961004198

## PRODUCT DESCRIPTION CONTINUED

Report Number	Process Connection Size and Type	Drawing	MAWP (barg) at MAWT (°C)	MDMT	Type
R-1158C	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) (Note 4)	961002513 (HD100)	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 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)
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS S31603, (316L, 1.4404, 1.4435), UNS S31600, (316, 1.4401) (Note 4)	961002513 (HD100)	49.6 barg at 38°C 48.1 barg at 50°C 42.2 barg at 100°C 38.5 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 150 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	20.0 barg at 38°C 19.5 barg at 50°C 17.7 barg at 100°C 15.8 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	
	1", 1-1/2", 2", 3", 4", 6" CL 300 Flanged Manufactured from UNS N10276 (C276, 2.4819)	961002513 (HD100)	51.7 barg at 38°C 51.7 barg at 50°C 51.5 barg at 100°C 50.3 barg at 150°C	-60°C	
		961002490 (ND)	10.0 barg at 150°C	-60°C	

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

**Note 2:** 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 3:** The Clamp Ferrule and Varivent connection shall be used with a clamp, 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 and shall have pressure-temperature ratings the same or higher than the product ratings.

**Note 4:** Stainless steel flanges are constructed from Type 316/316L dual rated material.

**Note 5:** See Attached List of Endress+Hauser Manufacturing locations applicable to this CRN.



# 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

Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX

Plant Locations: SEE ATTACHED 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  
- ASME B31.1

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:

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

- METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.

## Declaration:

DIVISION MANAGER

CHRISTOPHER PROIOS

QUALITY MANAGEMENT

(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 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 08 day of March AD 2022

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 registration.

CRN: 0F22502.5 Rev1

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.
- Scope of change: 1) Increase pressure ratings of Cl.150 & 300 (961002513 HD100 & 961002490 ND) pressure devices per 11/2016 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations.

CRN expires June 15th, 2030 (DG)

New Brunswick  
Nouveau Brunswick

DEPT OF JUSTICE PUBLIC SAFETY  
BOILER & PRESSURE VESSEL ACT

## REGISTRATION ONLY

CRN 0F22502.57 Rev1

  
CHIEF BOILER INSPECTOR

DATE 6/30/22 Sect 1.0 - Fittings Rev.2

☐ BLRs

☐ PVs

☒ FITTINGS

☐ NUCLEAR COMPONENTS




# **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	
Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	
Plant Locations: SEE ATTACHED 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><input checked="" type="radio"/> F 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</p> <p>- ASME B31.1</p>
Show Manufacturers Name, Trademark, or Logo as it will appear on the product	
<p><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"/></p> <p>Cast <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Describe other:</p>
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:** DIVISION MANAGER  
I, CHRISTOPHER PROIOS, QUALITY MANAGEMENT (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 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

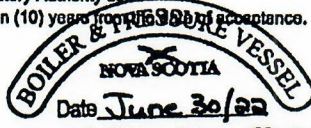

This 18th day of April AD 2022

Commissioner of Oaths

Or Notary Public: (sign)

(Affix Official seal to the right)

Use this space for the Official Seal

<p>CRN: 0F22502.5 Rev1</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>Scope of change: 1) Increase pressure ratings of CI 150 &amp; 300 (961002513 HD100 &amp; 961002480 ND) pressure devices per 11/2018 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations.</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>Date: June 30/22</p> <p>CRN: 0F22502.58 REV1</p> <p>Dwg: as described</p> <p>Signed: Yvonne Perry</p> <p>1 of 1</p> <p>Part</p>  </div> <p align="right">Sect 1.0 - Fittings Rev.2</p>
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CRN expires June 15th, 2030 (DG)




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

New Brunswick  
Nunavut

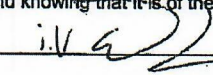
Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: ENDRESS+HAUSER SE+Co. KG	
Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	
Plant Locations: SEE ATTACHED 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</p> <p>- ASME B31.1</p>
<p><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><b>Type of Construction</b></p> <p>Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/></p> <p>Cast <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Describe other:</p>	
<p><b>List of supporting documentation and identification of the actual items to be registered:</b></p> <p>- METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

**Declaration:** DIVISION MANAGER  
CHRISTOPHER PROIOS QUALITY MANAGEMENT (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 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 08 day of March AD 2022

Commissioner of Oaths

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

(Affix Official seal to the right)

Use this space for the Official Seal

<p>CRN: <u>0F22502.5 Rev1</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>Scope of change: 1) Increase pressure ratings of Cl.150 &amp; 300 (961002513 HD100 &amp; 961002490 ND) pressure devices per 172016 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations.</p> <p>CRN expires June 15th, 2030 (DG)</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"><b>PROVINCE OF PRINCE EDWARD ISLAND</b> <b>COMMUNITIES, LAND &amp; ENVIRONMENT</b></p> <p>C.R.N. <u>0F22502.59 Rev1</u></p> <p>DATE: <u>July 5 2022</u></p> <p align="center"> <b>INSPECTION SERVICES SECTION</b> <b>BOILER/PRESSURE VESSEL BRANCH</b></p> <p align="right">Sec 1.9 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

Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX

Plant Locations: SEE ATTACHED 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  
- ASME B31.1

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:

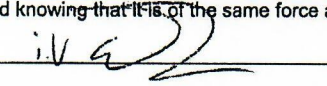
**List of supporting documentation and identification of the actual items to be registered:**

- METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.

**Declaration:** DIVISION MANAGER

CHRISTOPHER PROIOS QUALITY MANAGEMENT

(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 SGS ISO 9001 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 08 day of March AD 2022

Commissioner of Oaths

Or Notary Public: (sign)

Use this space for the Official Seal

(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: 0F22502.5 Rev1

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. Scope of change: 1) Increase pressure ratings of CI.150 & 300 (961002513 HD100 & 961002490 ND) pressure devices per 1172018 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations.

  
 Newfoundland  
 Labrador

Digital Government and Service NL

Registered 0F22502.50 Rev.1

Date 05-Jul-2022

Engineering and Inspection Services

Registered by David Owen

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

Sect 1.0 - Fittings Rev.2

CRN expires June 15th, 2030 (DG)




# 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	
Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	
Plant Locations: SEE ATTACHED 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 - ASME B31.1
<b>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</b>  <div style="text-align: center;">  </div>	<b>Type of Construction</b> 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:
<b>List of supporting documentation and identification of the actual items to be registered:</b> - METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.	

**Declaration:** DIVISION MANAGER  
 I, CHRISTOPHER PROIOS, QUALITY MANAGEMENT (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 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: [Signature]

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

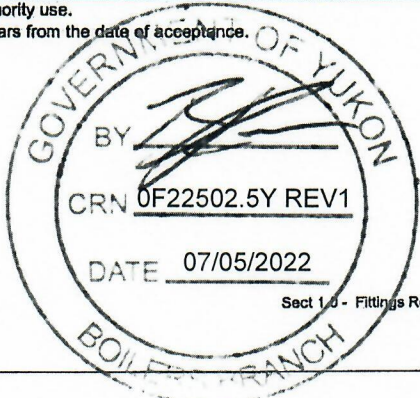
This 08 day of March AD 2022

Commissioner of Oaths

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

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: <u>0F22502.5 Rev1</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. Scope of change: 1) Increase pressure ratings of Cl.150 & 300 (961002513 HD100 & 961002490 ND) pressure devices per 11/2016 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations.	This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance. <div style="text-align: center;">                       BY <u>[Signature]</u>                      CRN <u>0F22502.5Y REV1</u>                      DATE <u>07/05/2022</u>                      Sect 1.4 - Fittings Rev.2                 </div>
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CRN expires June 15th, 2030 (DG)




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

New Brunswick  
Nunavut

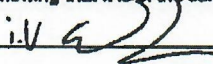
Nova Scotia  
Yukon

Prince Edward Island  
Northwest Territories

Newfoundland and Labrador



Manufacturers Name: ENDRESS+HAUSER SE+Co. KG	
Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	
Plant Locations: SEE ATTACHED 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 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 - ASME B31.1
Show Manufacturers Name, Trademark, or Logo as it will appear on the product  <div 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:	
<b>List of supporting documentation and identification of the actual items to be registered:</b> - METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.	

**Declaration:** DIVISION MANAGER  
I CHRISTOPHER PROLOS QUALITY MANAGEMENT (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 ASME ISO 9001 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 08 day of August AD 2022  
 Commissioner of Oaths  
 Or Notary Public: (sign) \_\_\_\_\_

Use this space for the Official Seal

(Affix Official seal to the right)

CRN: <u>OF22502.5 Rev1</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. Scope of change: 1) Increase pressure ratings of CI, 150 & 300 (981002513 HD100 & 981002490 ND) pressure devices per 1/2018 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations.	This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance.  <div align="center">   <b>Northwest Territories</b>  <b>REGISTERED</b>  <b>UNDER THE AUTHORITY OF</b>  <b>THE BOILER AND PRESSURE VESSEL ACT.</b>  <b>C.R.N. OF22502.5 TR01</b>  <b>SIGNED </b>  <b>DATE <u>July 5/22</u></b> </div>
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CRN expires June 15th, 2030 (DG)

65.00



# **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

Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX

Plant Locations: SEE ATTACHED 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  
- ASME B31.1

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:

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

- METALLIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.

**Declaration:** DIVISION MANAGER  
QUALITY MANAGEMENT

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 ISO 9001 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 01 day of July AD 2022

Commissioner of Oaths

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

(Affix Official seal to the right)

Use this space for the Official Seal



**NUNAVUT**  
Boilers and  
Pressure Vessels Act

CRN: 0F22502.5 Rev1

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. Scope of change: 1) Increase pressure ratings of CI.150 & 300 (961002513 HD100 & 961002490 ND) pressure devices per 11/2018 ASME B16.5 Tables 2-2.2 and 3.8. Items are qualified by proof test 2) 5" sizes are removed from the scope. 7 plant locations

CRN expires June 15th, 2030 (DG)

**REGISTERED**  
CRN 0F22502.5 N Rev 1

Date July 01, 2022

Signed 

Chief Inspector 1.0 - Fittings Rev 2

**Territorial Registration Fee**