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

Date: November 24, 2021
Account #: 35231
Journal #: 79118

Attn: TSSA

Re: Application for Design Registration

The design, as detailed in your, 0F23358.5 - ENDRESS + HAUSER GMBH + CO K, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS + HAUSER GMBH **CRN:** 0F23358.51
GERMANY/USA/CHINA/INDIA

Drawing #: Scope of Registration

Conditions Of Registration:

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.

Scope of Registration, Manufacturers list, Components drawings

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on 20-Jul-2031. 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# 0F23358.5 registration shall apply to BC registration.

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

Janina Mihailescu

janina.mihailescu@technicalsafetybc.ca
Design Administration

cc:

October 04, 2021

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

The design submission, tracking number 2021-04988, originally received on September 16, 2021 was surveyed and accepted for registration as follows:

CRN : 0F23358.52	Accepted on: October 04, 2021
Reg Type: NEW DESIGN	Expiry Date: October 20, 2030
Drawing No. : SCOPE OF CRN REGISTRATION	
Fitting type: CERAMIC PRESSURE SENSORS	
Design registered in the name of : ENDRESS + HAUSER GMBH & CO KG	

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

*** Design Report #: R-1301-PT Rev 0, R-1301E Rev 0, R-1301G Rev 0, R-1301C Rev 0, R-1301A Rev 0, R-1301B Rev 0, R-1301F Rev 0*

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

- 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 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,



DICK, ASHLING, P. Eng.
DOP Cert. No. D00007936

**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 WORLWIDE 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.	Ceramic 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)

03. Mai 2021

(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: ** See attached Scope of CRN Registration.

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

2021-04988

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: OF 23358 52

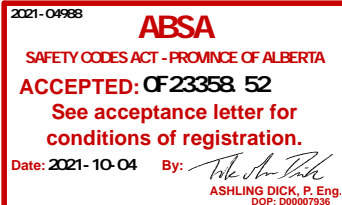
See acceptance letter for conditions of registration.

Date: 2021-10-04

By:


ASHLING DICK, P. Eng.
DOP: D00007936

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.



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.

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. #961005216

SCOPE OF CRN REGISTRATION

Product Description:	Category F Fittings: Ceramic Pressure Devices
Product Models:	Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B, PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71B
Code of Construction:	ASME B31.1, ASME B31.3.
Standard Materials of Construction:	Body/Process Connections: UNS S31603 ASTM A479 (316L, 1.4404, 1.4435) Flanges: UNS S31600 ASTM A240 (316, 1.4401)

PRODUCT DESCRIPTION

Report Number	Drawing	Process Connection Size and Type	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1301A	961002417 Modular Thread Adapter Assembly Sensors C5/C8	Thread ISO228 G1/2 EN837, Thread ISO228 G1/2 G1/4 female, Thread ISO228 G1/2 hole 11.5 mm, Thread ANSI MNPT 1/4" hole 3.0 mm, Thread ANSI MNPT 1/2" hole 3.0 mm, Thread ANSI FNPT 1/2" Thread ANSI MNPT 1/2" FNPT 1/4" Thread ANSI MNPT 1/2" hole 11.5 mm, Thread M20 EN837 Thread M20 hole 11.4 mm	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
R-1301B	961002414 Standard Assembly Short Sensors C5/C8	2" ASME BPE / ISO 2852 Clamp Ferrule, 2-1/2" ASME BPE / ISO 2852 Clamp Ferrule, 3" ASME BPE / ISO 2852 Clamp Ferrule, 3-1/2" ISO 2852 Clamp Ferrule, 4" ASME BPE / ISO 2852 Clamp Ferrule, Varivent N	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN65, Bio Control DN80	16 barg at 150°C		
		ASME B16.5 Flanged Class 150 Size 1" and larger	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 barg at 150°C		
		ASME B16.5 Flanged Class 300 Size 1" and larger	40.0 barg at 38°C 40.0 barg at 50°C 40.0 barg at 100°C 40.0 barg at 130°C 38.5 barg at 150°C		
		ASME B16.5 Flanged Class 600 and higher Size 1" and larger	40.0 barg at 150°C		
R-1301C	961002415 Standard Assembly Long Sensors C5/C8	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule, Varivent F, Thread ANSI MNPT 1-1/2", Thread ANSI MNPT 2", Thread ISO228 G1-1/2, Thread ISO228 G2	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Thread M44	25 barg at 150°C		
		Bio Control DN50	16 barg at 150°C		

2021-04968
ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0F23358.52
See acceptance letter for conditions of registration.
Date: 2021-10-04 By: *Ashling Dick*
ASHLING DICK, P. Eng.
DOP: D00007936



Doc. #961005216

PRODUCT DESCRIPTION CONTINUED

Report Number	Drawing	Process Connection Size and Type	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1301D	961004433 Standard Assembly Short Sensor C5 Hy	2" ASME BPE / ISO 2852 Clamp Ferrule, 2-1/2" ASME BPE / ISO 2852 Clamp Ferrule, 3" ASME BPE / ISO 2852 Clamp Ferrule, 3-1/2" ISO 2852 Clamp Ferrule, 4" ASME BPE / ISO 2852 Clamp Ferrule, Varivent N	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN65, Bio Control DN80	16 barg at 150°C		
R-1301E	961004434 Standard Assembly Long Sensor C5 Hy	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule, Varivent F	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN50	16 barg at 150°C		
R-1301F	961002419 Universal Adapter	Universal Adapter 44mm	10 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
R-1301G	961002416 Flange with Barrel (Tubus)	ASME B16.5 Flanged Class 150 Size 3" and larger	16.0 barg at 38°C 16.0 barg at 50°C 16.0 barg at 100°C 16.0 barg at 107°C 14.8 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		ASME B16.5 Flanged Class 300 and higher Size 3" and larger	16.0 barg at 150°C		

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

Note 2: The following additional alloys of superior or equivalent properties to those listed above are also included in the scope of CRN registration. See **Note 3** for alternative materials applicable to ASME B16.5 flanged connections.

Note: In references to Report R-1301G only the alternative materials for ASTM A479-316L bar are listed below. Tube with the same UNS number as the materials listed below shall also be acceptable as an alternative to ASTM A312-316L as long as the allowable stress value of the chosen tube is greater than that listed for ASTM A312-316L welded tube.

- Forged Stainless Steel ASTM A182-F316L UNS S31603
- Forged Stainless Steel ASTM A182-F304 UNS S30400
- Bar ASTM A479-304 UNS S30400
- Forged Stainless Steel ASTM A182-F304L UNS S30403
- Bar ASTM A479-304 UNS S30400
- Forged Stainless Steel ASTM A182-F316L UNS S31600
- Bar ASTM A479-316 UNS S31600
- Forged Hastelloy C276 ASTM B462 UNS N10276
- Forged Hastelloy C276 ASTM B564 UNS N10276
- Bar Hastelloy C276 ASTM B574 UNS N10276
- Forged Monel 400 ASTM B564 UNS N04400 (Limited to 38°C max under this CRN)
- Bar Monel 400 ASTM B164 UNS N04400 (Limited to 38°C max under this CRN)
- Forged Alloy 20 ASTM B462 UNS N08020

**Doc. #961005216****Note 2 continued**

- Forged Alloy 20 ASTM B366 UNS N08020
- Forged Hastelloy C22 ASTM B366 UNS N06022
- Forged Hastelloy C22 ASTM B564 UNS N06022
- Forged Hastelloy B3 ASTM B462 UNS N10675
- Forged Hastelloy B3 ASTM B564 UNS N10675
- Bar Hastelloy B3 ASTM B335 UNS N10675
- Forged Inconel 600 ASTM B564 UNS N06600
- Bar Inconel 600 ASTM B166 UNS N06600
- Forged Inconel 625 ASTM B564 UNS N06625
- Bar Inconel 625 ASTM B446-1 UNS N06625
- Forged Inconel 825 ASTM B564 UNS N08825
- Bar Inconel 825 ASTM B425 UNS N08825
- Forged Duplex Stainless Steel ASTM A182-F51 UNS S31803
- Bar Duplex Stainless Steel ASTM A479 UNS S31803
- Forged Super Duplex Stainless Steel ASTM A182-F53 UNS S32750
- Bar Super Duplex Stainless Steel ASTM A479 UNS S32750
- Forged Super Duplex Stainless Steel ASTM A182-F55 UNS S32760
- Bar Super Duplex Stainless Steel ASTM A479 UNS S32760
- Forged Grade 3 Titanium ASTM B381-F3 UNS R50550 (*Under this CRN limited to 119°C max for ASME B31.3 service and 78°C max. for ASME B31.1 Service*)

Note 3: Flanges process connections may be manufactured from any material listed in ASME B16.5 Table 1A. When this is the case the maximum pressure and temperature of the sensor assembly is limited to the applicable ASME B16.5 Table 2 ratings for the material and pressure class chosen for the flange, however in no case shall the pressure-temperature ratings exceed the sensor housing ratings shown above.

Note 4: In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the non listed material.

Note 5: Flange and process connection coatings such as E-CTFE, ETFE and others have no effect on the CRN.

Note 6: 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 7: Any listed higher strength bolting may substitute for ASTM A193-B8-2.

Note 8: In all cases the maximum allowable working pressure and temperature may be limited by seal materials or other considerations. Consult Endress+ Hauser literature.

Note 9: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 10: See Attached List of Endress+Hauser SE+Co. KG manufacturing locations applicable to this CRN.

REGISTRATION OF A PRESSURE FITTING DESIGN

13-Oct-21

TSSA
345 Carlingview Drive
Toronto, Ontario
M9W 6N9**Attention: Tanya Francis****File Number: 12242 [0 F]****Re: Manufacturer: Endress+Hauser SE+Co. KG**
Item: Ceramic Pressure Devices
Catalog or Drawing: Scope of Registration Doc. #962005216

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:

OF23358.53 Expiry Date: July 20, 2031

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:**

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

See Worldwide Locations Appendix (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 hereinunder, 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 - CERAMIC 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 _____ day of _____

(print name)

(Signature)

(Signature of Commissioner of Oaths)

III. Office Use Only

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



**Technical
Safety Authority
of Saskatchewan**

Registration No. OF23358.53

File No. 12242

Registered

Date: October 13, 2021

Expiry Date: July 20, 2031

Codes & Standards Compliance Office

(Date Registered – MM DD YYYY)

(For the Administrator / Chief Inspector)

(Expiry Date – MM DD YYYY)



Doc. #961005216

SCOPE OF CRN REGISTRATION

Product Description:	Category F Fittings: Ceramic Pressure Devices
Product Models:	Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B, PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71B
Code of Construction:	ASME B31.1, ASME B31.3.
Standard Materials of Construction:	Body/Process Connections: UNS S31603 ASTM A479 (316L, 1.4404, 1.4435) Flanges: UNS S31600 ASTM A240 (316, 1.4401)

PRODUCT DESCRIPTION

Report Number	Drawing	Process Connection Size and Type	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1301A	961002417 Modular Thread Adapter Assembly Sensors C5/C8	Thread ISO228 G1/2 EN837, Thread ISO228 G1/2 G1/4 female, Thread ISO228 G1/2 hole 11.5 mm, Thread ANSI MNPT 1/4" hole 3.0 mm, Thread ANSI MNPT 1/2" hole 3.0 mm, Thread ANSI FNPT 1/2" Thread ANSI MNPT 1/2" FNPT 1/4" Thread ANSI MNPT 1/2" hole 11.5 mm, Thread M20 EN837 Thread M20 hole 11.4 mm	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
R-1301B	961002414 Standard Assembly Short Sensors C5/C8	2" ASME BPE / ISO 2852 Clamp Ferrule, 2-1/2" ASME BPE / ISO 2852 Clamp Ferrule, 3" ASME BPE / ISO 2852 Clamp Ferrule, 3-1/2" ISO 2852 Clamp Ferrule, 4" ASME BPE / ISO 2852 Clamp Ferrule, Varivent N	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN65, Bio Control DN80	16 barg at 150°C		
		ASME B16.5 Flanged Class 150 Size 1" and larger	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 barg at 150°C		
		ASME B16.5 Flanged Class 300 Size 1" and larger	40.0 barg at 38°C 40.0 barg at 50°C 40.0 barg at 100°C 40.0 barg at 130°C 38.5 barg at 150°C		
		ASME B16.5 Flanged Class 600 and higher Size 1" and larger	40.0 barg at 150°C		
R-1301C	961002415 Standard Assembly Long Sensors C5/C8	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule, Varivent F, Thread ANSI MNPT 1-1/2", Thread ANSI MNPT 2", Thread ISO228 G1-1/2, Thread ISO228 G2	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Thread M44	25 barg at 150°C		
		Bio Control DN50	16 barg at 150°C		





Doc. #961005216

PRODUCT DESCRIPTION CONTINUED

Report Number	Drawing	Process Connection Size and Type	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1301D	961004433 Standard Assembly Short Sensor C5 Hy	2" ASME BPE / ISO 2852 Clamp Ferrule, 2-1/2" ASME BPE / ISO 2852 Clamp Ferrule, 3" ASME BPE / ISO 2852 Clamp Ferrule, 3-1/2" ISO 2852 Clamp Ferrule, 4" ASME BPE / ISO 2852 Clamp Ferrule, Varivent N	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN65, Bio Control DN80	16 barg at 150°C		
R-1301E	961004434 Standard Assembly Long Sensor C5 Hy	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule, Varivent F	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN50	16 barg at 150°C		
R-1301F	961002419 Universal Adapter	Universal Adapter 44mm	10 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
R-1301G	961002416 Flange with Barrel (Tubus)	ASME B16.5 Flanged Class 150 Size 3" and larger	16.0 barg at 38°C 16.0 barg at 50°C 16.0 barg at 100°C 16.0 barg at 107°C 14.8 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		ASME B16.5 Flanged Class 300 and higher Size 3" and larger	16.0 barg at 150°C		

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

Note 2: The following additional alloys of superior or equivalent properties to those listed above are also included in the scope of CRN registration. See **Note 3** for alternative materials applicable to ASME B16.5 flanged connections.

Note: In references to Report R-1301G only the alternative materials for ASTM A479-316L bar are listed below. Tube with the same UNS number as the materials listed below shall also be acceptable as an alternative to ASTM A312-316L as long as the allowable stress value of the chosen tube is greater than that listed for ASTM A312-316L welded tube.

- Forged Stainless Steel ASTM A182-F316L UNS S31603
- Forged Stainless Steel ASTM A182-F304 UNS S30400
- Bar ASTM A479-304 UNS S30400
- Forged Stainless Steel ASTM A182-F304L UNS S30403
- Bar ASTM A479-304 UNS S30400
- Forged Stainless Steel ASTM A182-F316L UNS S31600
- Bar ASTM A479-316 UNS S31600
- Forged Hastelloy C276 ASTM B462 UNS N10276
- Forged Hastelloy C276 ASTM B564 UNS N10276
- Bar Hastelloy C276 ASTM B574 UNS N10276
- Forged Monel 400 ASTM B564 UNS N04400 (Limited to 38°C max under this CRN)
- Bar Monel 400 ASTM B164 UNS N04400 (Limited to 38°C max under this CRN)
- Forged Alloy 20 ASTM B462 UNS N08020

Registration No.	OF23358.53
File No.	12242
Registered	
Date:	October 13, 2021
Expiry Date:	July 20, 2031
Codes & Standards Compliance Office	

**Doc. #961005216****Note 2 continued**

- Forged Alloy 20 ASTM B366 UNS N08020
- Forged Hastelloy C22 ASTM B366 UNS N06022
- Forged Hastelloy C22 ASTM B564 UNS N06022
- Forged Hastelloy B3 ASTM B462 UNS N10675
- Forged Hastelloy B3 ASTM B564 UNS N10675
- Bar Hastelloy B3 ASTM B335 UNS N10675
- Forged Inconel 600 ASTM B564 UNS N06600
- Bar Inconel 600 ASTM B166 UNS N06600
- Forged Inconel 625 ASTM B564 UNS N06625
- Bar Inconel 625 ASTM B446-1 UNS N06625
- Forged Inconel 825 ASTM B564 UNS N08825
- Bar Inconel 825 ASTM B425 UNS N08825
- Forged Duplex Stainless Steel ASTM A182-F51 UNS S31803
- Bar Duplex Stainless Steel ASTM A479 UNS S31803
- Forged Super Duplex Stainless Steel ASTM A182-F53 UNS S32750
- Bar Super Duplex Stainless Steel ASTM A479 UNS S32750
- Forged Super Duplex Stainless Steel ASTM A182-F55 UNS S32760
- Bar Super Duplex Stainless Steel ASTM A479 UNS S32760
- Forged Grade 3 Titanium ASTM B381-F3 UNS R50550 (*Under this CRN limited to 119°C max for ASME B31.3 service and 78°C max. for ASME B31.1 Service*)



Note 3: Flanges process connections may be manufactured from any material listed in ASME B16.5 Table 1A. When this is the case the maximum pressure and temperature of the sensor assembly is limited to the applicable ASME B16.5 Table 2 ratings for the material and pressure class chosen for the flange, however in no case shall the pressure-temperature ratings exceed the sensor housing ratings shown above.

Note 4: In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the non listed material.

Note 5: Flange and process connection coatings such as E-CTFE, ETFE and others have no effect on the CRN.

Note 6: 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 7: Any listed higher strength bolting may substitute for ASTM A193-B8-2.

Note 8: In all cases the maximum allowable working pressure and temperature may be limited by seal materials or other considerations. Consult Endress+ Hauser literature.

Note 9: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 10: See Attached List of Endress+Hauser SE+Co. KG manufacturing locations applicable to this CRN.

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

(rev. 22/Jan/2020)

Endress+Hauser SE+Co. KG

Hauptstrasse 1
79689 Maulburg, Germany
ISO 9001 Certified by SQS

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

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

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

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

Endress+Hauser Yamanashi Co., Ltd.

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

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

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

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

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

Endress+Hauser SE+Co. KG

Queremathe 2
14532 Stahnsdorf
Germany
ISO 9001 Certified by SQS

	Technical Safety Authority of Saskatchewan
Registration No.	OF23358.53
File No.	12242
	<div>Registered</div>
Date:	October 13, 2021
Expiry Date:	July 20, 2031
Codes & Standards Compliance Office	



Inspection and Technical Services
Municipal Relations
508-401 York Ave
Winnipeg, Manitoba Canada R3C 0P8
T 204-945-3373 F 204-948-2089
www.firecomm.gov.mb.ca/itsm_main

28 September 2021

TSSA
345 Carlingview Drive
Toronto, ON M9W 6N9

Dear Tanya Francis

Re: Reciprocal CRN Registration in Manitoba

Your application indicates that a CRN has been received in another Canadian Jurisdiction, and therefore your CRN has been registered in Manitoba as follows:

File Number: 74-R1832
CRN: 0F23358.54
Scope: SOR: Doc No 961005216 Sheets 1-3 and List of Manufacturing Locations
Manufacturer: Endress + Hauser GmbH + Co KG
Expiry Date: 20 July 2031

Please find attached invoice for registration.

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, a CRN issued in any Canadian Jurisdiction will be accepted for use in Manitoba.

In accordance with Steam and Pressure Plants Regulation and CSA B51, it is the manufacturer's responsibility to file a Manufacturers Data Report, including partial data reports, with our office, prior to shipping pressure equipment to Manitoba.

Please contact gasupport@gov.mb.ca for any questions or concerns.

Inspection and Technical Services
Municipal Relations
508 - 401 York Avenue, Winnipeg Manitoba 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

July 20, 2021

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8020309
Your Reference No.: R-1301
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 : 0F23358.5

Main Design No.: Scope of Registration, Manufacturers list, Components drawings

Expiry Date: Jul 20, 2031

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. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Ruiming You
Engineer, BPV
Tel. : +1 416-734-3428
Email : ryou@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 - Ceramic 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 _____ day of _____ AD 20____.

Commissioner for Oaths:

(Printed name)

J.V. S. 03. Mai 2021

(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: _____

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0F23358.5

Signed: Rae Y.

Date: July 20, 2021.

See scope of registration, and manufacturers' site list.

NOTE: This registration expires on: JULY 20, 2031

See registration letter for any terms and conditions for this registration.
*Information provided in this application is releasable under the Freedom of Information and Privacy Act, 1982 and may be disclosed upon request.

TSSA

WORLDWIDE LOCATIONS APPENDIX

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

THIS IS PART OF CRN
0F23358.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

(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. #961005216

SCOPE OF CRN REGISTRATION

Product Description:	Category F Fittings: Ceramic Pressure Devices
Product Models:	Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B, PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71B
Code of Construction:	ASME B31.1, ASME B31.3.
Standard Materials of Construction:	Body/Process Connections: UNS S31603 ASTM A479 (316L, 1.4404, 1.4435) Flanges: UNS S31600 ASTM A240 (316, 1.4401)

PRODUCT DESCRIPTION

Report Number	Drawing	Process Connection Size and Type	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1301A	961002417 Modular Thread Adapter Assembly Sensors C5/C8	Thread ISO228 G1/2 EN837, Thread ISO228 G1/2 G1/4 female, Thread ISO228 G1/2 hole 11.5 mm, Thread ANSI MNPT 1/4" hole 3.0 mm, Thread ANSI MNPT 1/2" hole 3.0 mm, Thread ANSI FNPT 1/2" Thread ANSI MNPT 1/2" FNPT 1/4" Thread ANSI MNPT 1/2" hole 11.5 mm, Thread M20 EN837 Thread M20 hole 11.4 mm	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
R-1301B	961002414 Standard Assembly Short Sensors C5/C8	2" ASME BPE / ISO 2852 Clamp Ferrule, 2-1/2" ASME BPE / ISO 2852 Clamp Ferrule, 3" ASME BPE / ISO 2852 Clamp Ferrule, 3-1/2" ISO 2852 Clamp Ferrule, 4" ASME BPE / ISO 2852 Clamp Ferrule, Varivent N	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN65, Bio Control DN80	16 barg at 150°C		
		ASME B16.5 Flanged Class 150 Size 1" and larger	19.0 barg at 38°C 18.4 barg at 50°C 16.2 barg at 100°C 14.8 barg at 150°C		
		ASME B16.5 Flanged Class 300 Size 1" and larger	40.0 barg at 38°C 40.0 barg at 50°C 40.0 barg at 100°C 40.0 barg at 130°C 38.5 barg at 150°C		
		ASME B16.5 Flanged Class 600 and higher Size 1" and larger	40.0 barg at 150°C		
R-1301C	961002415 Standard Assembly Long Sensors C5/C8	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule, Varivent F, Thread ANSI MNPT 1-1/2", Thread ANSI MNPT 2", Thread ISO228 G1-1/2, Thread ISO228 G2	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Thread M44	25 barg at 150°C		
		Bio Control DN50	16 barg at 150°C		



Doc.	#961005216
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PRODUCT DESCRIPTION CONTINUED

Report Number	Drawing	Process Connection Size and Type	MAWP (Barg) at MAWT (°C)	MDMT	Type
R-1301D	961004433 Standard Assembly Short Sensor C5 Hy	2" ASME BPE / ISO 2852 Clamp Ferrule, 2-1/2" ASME BPE / ISO 2852 Clamp Ferrule, 3" ASME BPE / ISO 2852 Clamp Ferrule, 3-1/2" ISO 2852 Clamp Ferrule, 4" ASME BPE / ISO 2852 Clamp Ferrule, Varivent N	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN65, Bio Control DN80	16 barg at 150°C		
R-1301E	961004434 Standard Assembly Long Sensor C5 Hy	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule, Varivent F	40 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		Bio Control DN50	16 barg at 150°C		
R-1301F	961002419 Universal Adapter	Universal Adapter 44mm	10 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
R-1301G	961002416 Flange with Barrel (Tubus)	ASME B16.5 Flanged Class 150 Size 3" and larger	16.0 barg at 38°C 16.0 barg at 50°C 16.0 barg at 100°C 16.0 barg at 107°C 14.8 barg at 150°C	-40°C	(O)PMC51(B) (O)PMC71(B) (O)PMC53(B) (O)PMC63(B) (O)PMC73(B) (O)FMD71 (O)PMD71B
		ASME B16.5 Flanged Class 300 and higher Size 3" and larger	16.0 barg at 150°C		

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

Note 2: The following additional alloys of superior or equivalent properties to those listed above are also included in the scope of CRN registration. See **Note 3** for alternative materials applicable to ASME B16.5 flanged connections.

Note: In references to Report R-1301G only the alternative materials for ASTM A479-316L bar are listed below. Tube with the same UNS number as the materials listed below shall also be acceptable as an alternative to ASTM A312-316L as long as the allowable stress value of the chosen tube is greater than that listed for ASTM A312-316L welded tube.

- Forged Stainless Steel ASTM A182-F316L UNS S31603
- Forged Stainless Steel ASTM A182-F304 UNS S30400
- Bar ASTM A479-304 UNS S30400
- Forged Stainless Steel ASTM A182-F304L UNS S30403
- Bar ASTM A479-304 UNS S30400
- Forged Stainless Steel ASTM A182-F316L UNS S31600
- Bar ASTM A479-316 UNS S31600
- Forged Hastelloy C276 ASTM B462 UNS N10276
- Forged Hastelloy C276 ASTM B564 UNS N10276
- Bar Hastelloy C276 ASTM B574 UNS N10276
- Forged Monel 400 ASTM B564 UNS N04400 (Limited to 38°C max under this CRN)
- Bar Monel 400 ASTM B164 UNS N04400 (Limited to 38°C max under this CRN)
- Forged Alloy 20 ASTM B462 UNS N08020



Doc. #961005216

**Note 2 continued**

- Forged Alloy 20 ASTM B366 UNS N08020
- Forged Hastelloy C22 ASTM B366 UNS N06022
- Forged Hastelloy C22 ASTM B564 UNS N06022
- Forged Hastelloy B3 ASTM B462 UNS N10675
- Forged Hastelloy B3 ASTM B564 UNS N10675
- Bar Hastelloy B3 ASTM B335 UNS N10675
- Forged Inconel 600 ASTM B564 UNS N06600
- Bar Inconel 600 ASTM B166 UNS N06600
- Forged Inconel 625 ASTM B564 UNS N06625
- Bar Inconel 625 ASTM B446-1 UNS N06625
- Forged Inconel 825 ASTM B564 UNS N08825
- Bar Inconel 825 ASTM B425 UNS N08825
- Forged Duplex Stainless Steel ASTM A182-F51 UNS S31803
- Bar Duplex Stainless Steel ASTM A479 UNS S31803
- Forged Super Duplex Stainless Steel ASTM A182-F53 UNS S32750
- Bar Super Duplex Stainless Steel ASTM A479 UNS S32750
- Forged Super Duplex Stainless Steel ASTM A182-F55 UNS S32760
- Bar Super Duplex Stainless Steel ASTM A479 UNS S32760
- Forged Grade 3 Titanium ASTM B381-F3 UNS R50550 (*Under this CRN limited to 119°C max for ASME B31.3 service and 78°C max. for ASME B31.1 Service*)

Note 3: Flanges process connections may be manufactured from any material listed in ASME B16.5 Table 1A. When this is the case the maximum pressure and temperature of the sensor assembly is limited to the applicable ASME B16.5 Table 2 ratings for the material and pressure class chosen for the flange, however in no case shall the pressure-temperature ratings exceed the sensor housing ratings shown above.

Note 4: In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the non listed material.

Note 5: Flange and process connection coatings such as E-CTFE, ETFE and others have no effect on the CRN.

Note 6: 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 7: Any listed higher strength bolting may substitute for ASTM A193-B8-2.

Note 8: In all cases the maximum allowable working pressure and temperature may be limited by seal materials or other considerations. Consult Endress+ Hauser literature.

Note 9: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 10: See Attached List of Endress+Hauser SE+Co. KG manufacturing locations applicable to this CRN.

Montréal, 13 octobre 2021.

MADAME TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

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

Numéro de dossier : 948878

Numéro(s) de dessin(s) : SCOPE OF REGISTRATION

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 : **0F23358.56**.

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

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

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

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

Montréal, le 13 octobre 2021.

MRS. TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

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

OUR REFERENCE : 948878
Design number : SCOPE OF REGISTRATION

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): **0F23358.56.**

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

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.

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	SCOPE OF CRN	
2	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.

2.1 Design

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

from Endress+Hauser SE+Co.KG, located at See Attached Worldwide Locations Appendix
(Company's name) (Plant's address)

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

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

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

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

2.2 Manufacturing quality control

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

Signature of the person in charge:  Date (yyyy-mm-dd): 03. Mai 2021

3. Declaration of commissioner for oaths

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

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

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



Documents to attach

Any application registration for fittings must include these documents:

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

Sending the form

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

Documents must be in PDF format and in separate files.

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



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:

CERAMIC

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

- CERAMIC 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 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: *[Signature]* 03. Mai 2021

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

New Brunswick
Use this space for the Official Seal
DEPT OF JUSTICE PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

This space for Regulatory Authority use.

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

CRN: 0F23358.5

FID#: 15708

Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B, (Cont'd below)

- 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.

PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP. 7 Plant facilities

CRN expires July 20th, 2031 - DG

CRN 0F23358.57

[Signature]
CHIEF BOILER INSPECTOR

DATE 9/24/21

☐ BLRs

☐ PVs

☒ FITTINGS

☐ NUCLEAR COMPONENTS

Sect 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

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

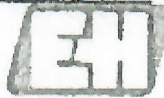
Title of the Standard of Construction

- ASME B31.3
- ASME B31.1

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



Type of Construction
Forged ☐ Welded ☐ Wrought ☐
Cast ☐ Other ☐
Describe other:

CERAMIC

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

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

Declaration: DIVISION MANAGER
QUALITY MANAGEMENT

I CHRISTOPHER PROLOS (see note 3) employed by Endress+Hauser SE+Co. KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by 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]

03. Mai 2021

Declared before me at _____

This _____ day of _____ AD _____

Use this space for the Official Seal

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

This space for Regulatory Authority use.

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

CRN: OF23358.5

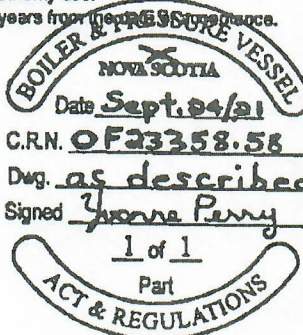
FID#: 15708

Crabbar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B (Cont'd below)

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.

PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP. 7 Plant facilities

CRN expires July 20th, 2031 - DG



Set 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

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:

CERAMIC

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

- CERAMIC 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 SOS 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] 03. Mai 2021

Declared before me at _____

This _____ day of _____ AD _____

Use this space for the Official Seal

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

This space for Regulatory Authority use.

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

CRN: OF23358.5

FID#: 15708

Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, OPMC51B, OPMC51B, (Cont'd below)

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.

OPMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP. 7 Plant facilities

CRN expires July 20th, 2031 - DG

ACCEPTED

PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT

C.R.N. OF23358.59

DATE: Sept 24 2021

[Signature]

INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH

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	
Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	
Plant Locations: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX	
<p>Category of Fittings to be registered. Circle one Category only</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>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>Title of the Standard of Construction</p> <p>- ASME B31.3</p> <p>- ASME B31.1</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p>Endress+Hauser </p>	<p>Type of Construction</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>CERAMIC</p>
<p>List of supporting documentation and identification of the actual items to be registered:</p> <p>- CERAMIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS.</p>	

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:  03. Mai 2021

Declared before me at _____

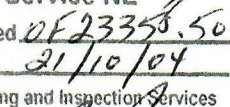
This _____ day of _____ AD _____

Use this space for the Official Seal

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

<p>This space for Regulatory Authority use.</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance.</p>	
<p>CRN: 0F23358.5</p> <p>FID#: 15708</p> <p>Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B, (Cont'd below)</p> <p>1. All Fittings shall be registered in the name of the Manufacturer.</p> <p>2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</p> <p>3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</p> <p>4. Quality Control programs shall be resubmitted for validation.</p> <p>OPMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP, 7 Plant facilities</p> <p>CRN expires July 20th, 2031 - DG</p>	<p>Newfoundland Labrador Service NL</p> <p>Registered 0F23358.50</p> <p>Date 21/10/04</p> <p>Engineering and Inspection Services</p> <p>Registered by </p> <p>UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS</p>

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:

CERAMIC

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

- CERAMIC 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:  03. Mai 2021

Declared before me at _____

This _____ day of _____ AD _____

Use this space for the Official Seal

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

This space for Regulatory Authority use.

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

CRN: **0F23358.5**

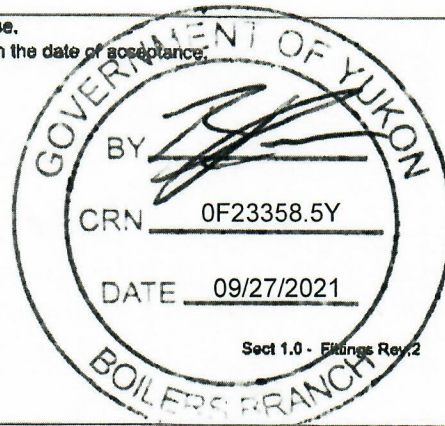
FID#: **15708**

Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B, (Cont'd below)

- 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.

PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP. 7 Plant facilities

CRN expires July 20th, 2031 - 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

Category of Fittings to be registered. Circle one Category only

- A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
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- 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
- ASME B31.1

Type of Construction

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

CERAMIC

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

- CERAMIC 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: *[Signature]* 03. Mai 2021

Declared before me at

This day of AD

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 registration.

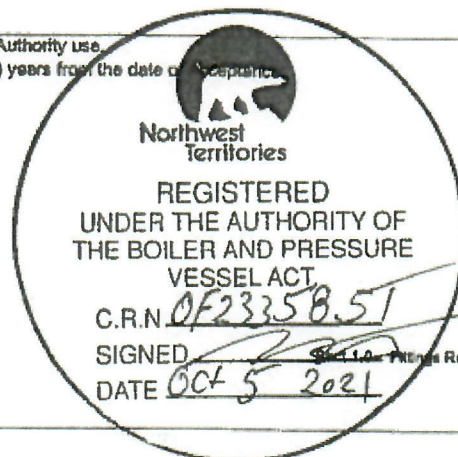
CRN: 0F23358.5

FID#: 15708

Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, OPMC51 (Cont'd below)

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.

PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP. 7 Plant facilities
CRN expires July 20th, 2031 - DG



5/163.00

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)

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

Endress+Hauser 

Title of the Standard of Construction

- ASME B31.3
- ASME B31.1

Type of Construction

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


CERAMIC

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

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

Declaration: DIVISION MANAGER
QUALITY MANAGEMENT

I, CHRISTOPHER PROOS (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:  03. Mai 2021

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

Use this space for the Official Seal

(Affix Official seal to the right)


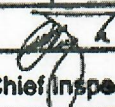
CRN: 0F23358.5

FID#: 15708

Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B, PMC51, PMC51B (Cont'd below)

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.

PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B, PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71BP. 7 Plant facilities
CRN expires July 20th, 2031 - DG

 NUNAVUT	
Boilers and Pressure Vessels Act	
REGISTERED	
CRN <u>0F23358.5 N</u>	
Date <u>Sept 24, 2021</u>	
Signed 	
Chief Inspector - Fittings Rev.2	
Territorial Registration Fee	