



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

www.tssa.org

March 05, 2020

ASTRID VIRNICH
ENDRESS + HAUSER GMBH + CO KG
1 HAUPTSTRASSE
MAULBURG 79689
DE

Service Request Type: BPV-Fitting Registration
Service Request No.: 2782336
Your Reference No.: 15002591
Registered to: ENDRESS + HAUSER GMBH + CO KG

Dear ASTRID VIRNICH,

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

CRN No.: 0F14101.5R1

Main Design No.: Renewal - Deltapilot M Model FMB50, FMB51 & FMB52 (FMB53) – See Scope of Registration

Expiry Date: 05-Mar-2030

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. 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,

Wendy Du, P.Eng.
Technical Standards & Safety Authority
Boilers & Pressure Vessels Safety Program
Tel.: 416-734-3566
Fax: 416-231-6183
Email: wdu@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, Dr. Karl Barton, Expert Quality Management Processes
(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

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

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

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, Swiss Association for Quality and Management Systems SA.

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 Registration, Reports, Drawing, Calculations

(drawings, calculations, test reports, etc.)

Declared before me at _____ in the _____ of _____

the _____ day of _____ AD 20 _____.

Commissioner for Oaths:

(Printed name)

(Signature)


(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category F.

CRN: DF14101-5R1

Registered by: Wendy Jee

Dated: Mar. 05, 2020

NOTE: This registration expires on: Mar. 05, 2030

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: DF14101-5R1

Signed: Wendy Jee

Date: Mar. 05, 2020

*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)

Renewal Model FMB50, FMB51, FMB52 (FMB53) - See attached
Scope of Registration. WJ
03/05/2020

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)

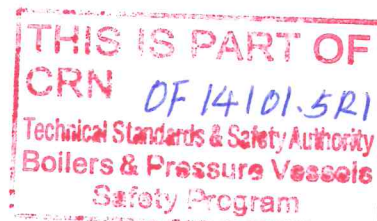
Automation Instrumentation Inc.
2340 Endress Place
Greenwood, Indiana 46143, USA
ISO 9001 Certified by SQS

Endress+Hauser (Brazil)

Instrumentacao e Automacao 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



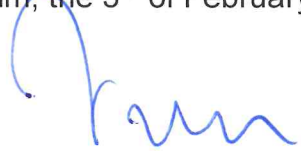
Certification

I hereby certify that the document above was signed in my presence on this day, the 3rd of February 2020, by

Dr. Karl Barton, born on the 2nd of September 1960,
Im Wolfischbühl 44, 79585 Steinen, Germany,

who is identified by his valid german identity card.

Schopfheim, the 3rd of February 2020



Dr. Fabian Hetmeier LL.M.
notary public in Schopfheim





Endress+Hauser

People for Process Automation

CRN Registration Deltapilot M, FMB50, FMB51, FMB52 (FMB53)

Scope of Registration Document – 04.03.2020

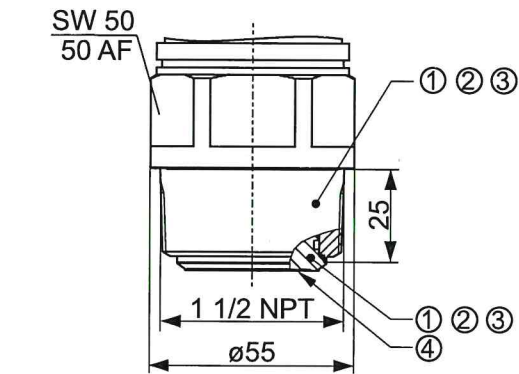
Type	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Code of Construction
	Design	Pressure components			
FMB50	ASME B16.5 – 2009 Flange	Class: 150 Size: 1", 1 1/2", 2", 3", 4"	Group 2.2, UNS S31603, A182, [F316, 1.4435] Group 2.3, UNS S31603, A182, [F316L, 1.4435]	10 Bar, -10°C up to 135°C	ASME B31.3 2018
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, [F316/316L, 1.4435] UNS S31603, A479, [316/316L, 1.4404] UNS N10276, B574, [C276, 2.4819]		
	ISO 2852 Tri-Clamp	2", 3"	UNS S31603, A479, [316/316L, 1.4435]		
	Varivent F.N	1 – 1 1/2" (F), up to 6" (N)	UNS S31603, A182, [F316/316L, 1.4435]		
	DIN 11851	DN50, DN40	UNS S31603, A479, [316/316L, 1.4435] UNS S31603, A182, [F316/316L, 1.4435]		
	Universal Sanitary	Ø43.5mm	UNS N06455, B574 (C4, 2.4610) UNS S31603, A479, [316/316L, 1.4435] UNS S31603, A182, [F316/316L, 1.4435] UNS N10276, B574, [C276, 2.4819]		
FMB51		Diaphragm	UNS N10276, B575, [C276, 2.4819]	10 Bar, -10°C up to 85°C	ASME B31.3 2018
	ASME B16.5 – 2009 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, [F316, 1.4435] Group 2.3, UNS S31603, A182, [F316L, 1.4435]		
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, [F316/316L, 1.4435] UNS S31603, A479, [316/316L, 1.4435] UNS N10276, B574, [C276, 2.4819]		
		Sensor body	UNS N06455, B574 (C4, 2.4610)		
		Diaphragm	UNS N10276, B575, [C276, 2.4819]		
		Tubes	UNS S31603, A213/A312, [316L, 1.4404, 1.4435] UNS N06455, B574 (C4, 2.4610) UNS N06455, B574 (C4, 2.4610)		
FMB52 (FMB53)	ASME B16.5 – 2009 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, [F316, 1.4435] Group 2.3, UNS S31603, A182, [F316L, 1.4435]	10 Bar, -10°C up to 80°C (FEP cable), -10°C up to 70°C (PE cable)	
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, [F316/316L, 1.4435] UNS S31603, A479, [316/316L, 1.4435]		
		Sensor body	UNS N10276, B574, [C276, 2.4819]		
		Diaphragm	UNS N10276, B575, [C276, 2.4819]		

Notes:

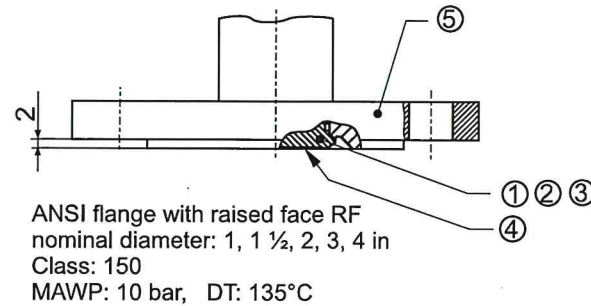
- Maximum allowable working pressures are derived from Technical Description 960014226-A.
- For complete materials of construction allocation please consult overview drawing 960014212-.
- Other product details may be found in Technical Information document TI437P.

THIS IS PART OF
CRN OF 14101-521
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

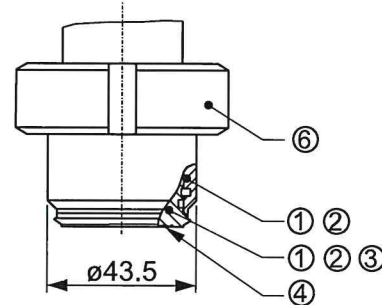
FMB50



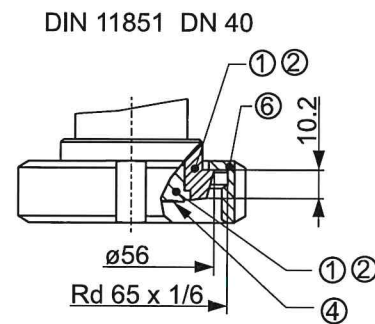
Thread connection with flush mounted diaphragm:
ANSI 1 1/2" MNPT
MAWP: 10 bar
DT: 135°C



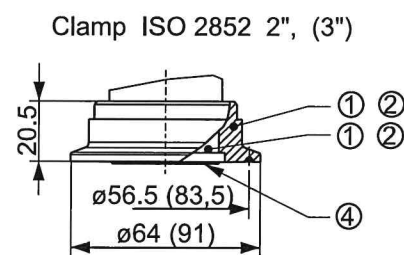
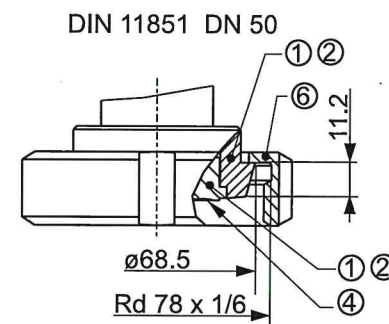
Note: The pressure/ temperature rating of the flange model will be defined by the pressure/ temperature rating of the flange used (B16.5 table 2.2 & 2.3)



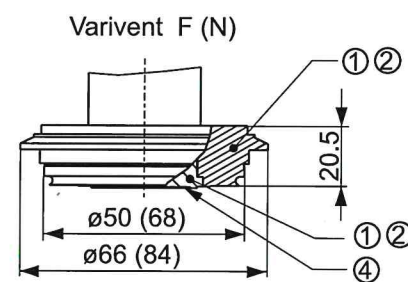
sanitary connection: Universal process connection MAWP: 10 bar
DT: 135°C



sanitary connection: DIN 11851, DN40: MAWP: 10 bar
DN50: MAWP: 10 bar
DT: 135°C

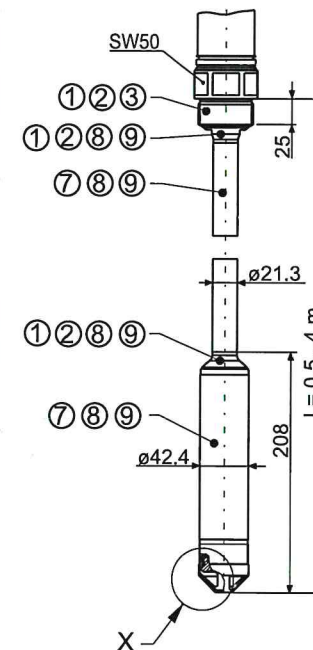


sanitary connection: Clamp 2" (3"), ISO 2852 MAWP: 10 bar
DT: 135°C



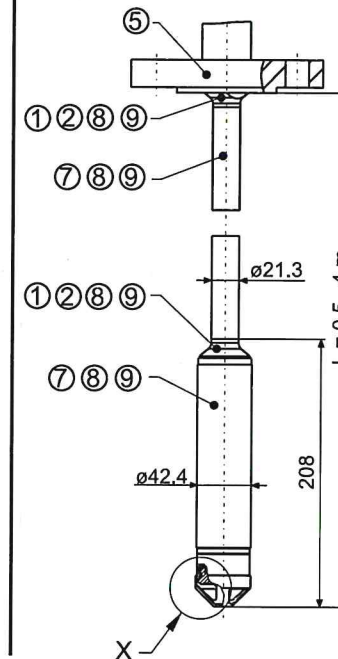
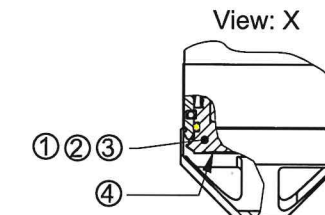
sanitary connection: Varivent F, N MAWP: 10 bar
for pipe sizes 1" (type F) and 1 1/2" up to 6" (type N)
DT: 135°C

FMB51



Thread connection:
ANSI 1 1/2" MNPT

MAWP: 10 bar
DT: 85°C

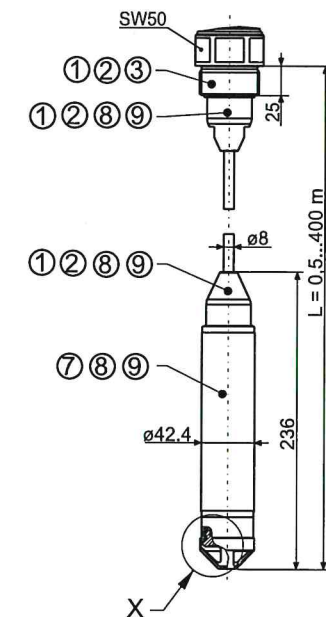


ANSI flange RF
nominal diameter: 2, 3, 4 in
Class: 150

MAWP: 10 bar
DT: 85°C

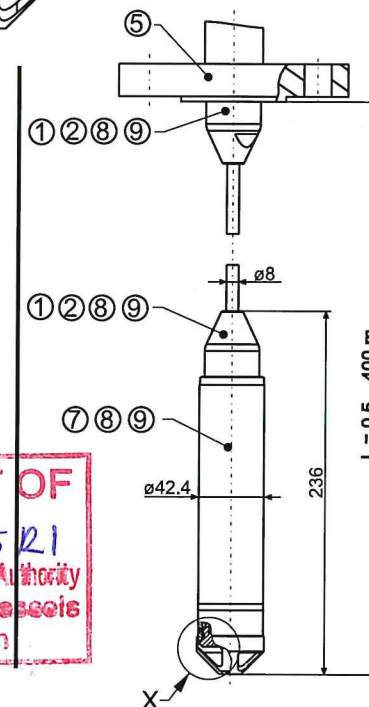
THIS IS PART OF
CRN 0F14101.5 21
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

FMB52 (FMB53)



Thread connection:
ANSI 1 1/2" MNPT

MAWP: 10 bar
DT: 70°C (PE-cable)
80°C (FEP-cable)



ANSI flange RF
nominal diameter: 2, 3, 4 in
Class: 150

MAWP: 10 bar
DT: 70°C (PE-cable)
80°C (FEP-cable)

- ① AISI 316/316L, ASTM A479, UNS S31603, 1.4435
- ② AISI F316/316L, ASTM A182, UNS S31603, 1.4435
- ③ Alloy C276, ASTM B574, UNS N10276, 2.4819
- ④ Alloy C276, ASTM B575, UNS N10276, 2.4819
- ⑤ AISI F316/316L, ASTM A182, UNS S31603

- ⑥ AISI 304/304L, ASTM A479, UNS S30400+UNS S30403, 1.4301+1.4307
- ⑦ AISI 316/316L, ASTM A213+A312+A479, UNS S31603, 1.4404+1.4435
- ⑧ Alloy C22, ASTM B574+B622+B626, UNS N06022, 2.4602
- ⑨ Alloy C4, ASTM B574+B622+B626, UNS N06455, 2.4610

Endress+Hauser

Endress+Hauser GmbH+Co.KG
Germany
Maulburg

Schutzvermerk ISO 16016
beachten

Refer to protection notice
ISO 16016

Benennung / title

Deltapilot M FMB50, FMB51, FMB52
Overview process connections for CRN

Material / material



Toleranz / tolerance

Erzeuger-Sys.
creator-sys.

Format
format

Maßstab / scale

Dokument-Nr. / No. of document

SAP-Material-Nr. / SAP-Material-No.

CorelDRAW

DIN A3

gezeichnet
drawn

entworfen
designed

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Änderung /
changes

○

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MUTHS

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG

Manufacturers Address: Hauptstr. 1, 79689 Maulburg, Germany

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

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

Endress+Hauser



Type of Construction

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

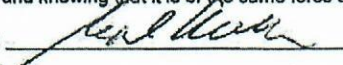
Machined

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

Drawing 96001421--
 Technical Description 960014226-A
 TI00437P
 Scope of Registration

Declaration:

I, Dr. Karl Barón, Expert Quality Management Processes (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 Swiss Association for Quality and Management Systems SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0F14101.5 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. Revision is CRN renewal. Deltapilot M, 11/2016 FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG	ACCEPTED PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT C.R.N. <u>0F14101.59 Rev1</u> DATE: <u>May 29/20</u> INSPECTION SERVICES SECTION BOILER/PRESSURE VESSEL BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG

Manufacturers Address: Hauptstr. 1, 79689 Maulburg, Germany

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
☐ I Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

Title of the Standard of Construction

ASME B31.3

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

Endress+Hauser



Type of Construction

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

Machined

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

Drawing 96001421--
 Technical Description 960014226-A
 TI00437P
 Scope of Registration

Declaration:

I, Dr. Karl Barton, Expert Quality Management Processes (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 Bureau Veritas Certification for Quality and Management Systems 3228 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 _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0F14101.5 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. Revision is CRN renewal. Deltapilot M, 11/2016 FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG	Date <u>May 29/20</u> C.R.N. <u>0F14101.58REV1</u> Dwg. <u>AS described</u> Signed <u>Yvonne Perry</u> 1 of 1 Part ACT & REGULATIONS

Set 1.0 - Fittings Rev.2

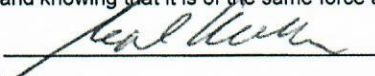
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG	
Manufacturers Address: Hauptstr. 1, 79689 Maulburg, Germany	
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
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 	Type of Construction Forged ☐ Welded ☒ Wrought ☐ Cast ☐ Other ☒ Describe other: Machined
List of supporting documentation and identification of the actual items to be registered: Drawing 96001421-- Technical Description 960014226-A TI00437P Scope of Registration	

Declaration:

I, Dr. Karl Barton, Expert Quality Management Processes (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 Swiss Association for Quality and Management Systems SGS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

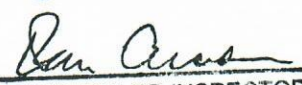
Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

CRN: 0F14101.5 REV1 FID#: 15708 Notes: 1. All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality Control programs shall be resubmitted for validation. Revision is CRN renewal. Deltapilot M, 11/2016 FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG	Use this space for the Official Seal  DEPT OF JUSTICE PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT REGISTRATION ONLY CRN 0F14101.57 Rev1  CHIEF BOILER INSPECTOR DATE 5/29/20 Sect 1.0 - Fittings Rev.2 ☐ BLRs ☐ PVe ☒ FITTINGS ☐ NUCLEAR COMPONENTS
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG	
Manufacturers Address: Hauptstr. 1, 79689 Maulburg, Germany	
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 K 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
Show Manufacturers Name, Trademark, or Logo as it will appear on the product Endress+Hauser	
Type of Construction Forged ☐ Welded ☐ Wrought ☐ Cast ☐ Other ☐ Describe other: Machined	
List of supporting documentation and identification of the actual items to be registered: Drawing 96001421-- Technical Description 960014226-A TI00437P Scope of Registration	

Declaration:

I, Dr. Karl Barton, Expert Quality Management Processes (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 Swiss Association for Quality and Management Systems SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: _____
 Declared before me at: _____
 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 acceptance.	
CRN: <u>0F14101.5 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. Revision is CRN renewal. Deltapilot M, 11/2016 FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG	Newfoundland Labrador Service NL Registered <u>0F14101.50 Rev.1</u> Date <u>20/06/02</u> Engineering and Inspection Services Registered by <u>[Signature]</u> UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG

Manufacturers Address: Hauptstr. 1, 79689 Maulburg, Germany

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

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

Endress+Hauser 

Type of Construction

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

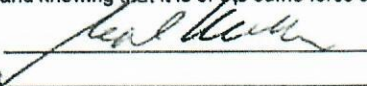
Machined

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

Drawing 96001421--
 Technical Description 960014226-A
 TI00437P
 Scope of Registration

Declaration:

I, Dr. Karl Barlon, Export Quality Management Processes (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 Swiss Association for Quality and Management Systems SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

This space for Regulatory Authority use.

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

CRN: 0F14101.5 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.

Revision is CRN renewal. Deltapilot M,
11/2016 FMB50, FMB51, FMB52 (FMB53).
CRN expires March 5, 2030 - DG

GOVERNMENT OF YUKON
BY 
CRN 0F14101.5Y REV1
DATE 06/02/2020
Sect 1.0 - Fittings Rev.2
BOILERS BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG

Manufacturers Address: Hauptstr. 1, 79689 Maulburg, Germany

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

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

Endress+Hauser 

Type of Construction

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

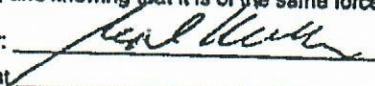
Machined

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

Drawing 96001421-
 Technical Description 960014226-A
 TI00437P
 Scope of Registration

Declaration:

I, Dr. Karl Beron, Expert Quality Management Processes (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 Swiss Association for Quality and Management Systems SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

This space for Regulatory Authority use.

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

CRN: 0F14101.5 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.

Revision is CRN renewal. Deltapilot M,
11/2018 FMB50, FMB51, FMB52 (FMB53).
CRN expires March 5, 2030 - DG

65.00.

Northwest Territories

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

C.R.N. 0F14101.57 Rev1

SIGNED  Sect 1.0 Fittings Rev.2

DATE June 3 2020

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

Manufacturers Name: Endress+Hauser SE+Co.KG

Manufacturers Address: Hauptstr. 1, 79699 Maulburg, Germany

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
 X 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

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

Endress+Hauser



Type of Construction

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

Machined

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

Drawing 96001421--
 Technical Description 960014226-A
 TI00437P
 Scope of Registration

Declaration:

I, Dr. Karl Barton, Expert Quality Management Processes (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 Swiss Association for Quality and Management Systems SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: 0F14101.5 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. Revision is CRN renewal. Deltapilot M, 11/2019 FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG	This space for Regulatory Authority Use. This registration must be revalidated after ten (10) years from the date of acceptance. NUNAVUT Boilers and Pressure Vessels Act REGISTERED CRN 0F14101.SN Rev 1 Date May 29, 2020 Signed Chief Inspector Michael LeDuc Director Safety Services - CGS Territorial Registration Fee
---	---



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	Deltapilot M FMB50, FMB51, FMB52, FM53	CRN Registration File 0F14101.5R1 of TSSA
2		Drawing 96001421--
3		Technical Description 960014226-A
4		TI00437P
5		Scope of Registration

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, Dr. Karl Barton Expert Quality Management Processes
(Name of the person in charge) (Title of the person in charge)
 from Endress+Hauser SE+Co.KG, located at see attached worldwide location appendix
(Company's name) (Plant's address)

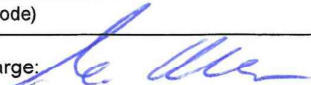
hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:

☒ comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose
 or
☐ 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 Swiss Association for Quality Management Systems
(Name of code) (Authorized agency)

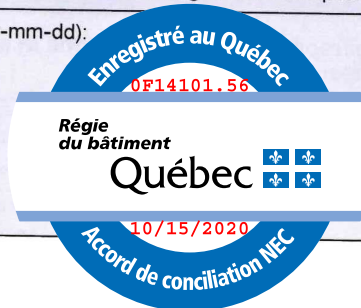
Signature of the person in charge:  Date (yyyy-mm-dd): 02. Juni 2020

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)

Instrumentacao e Automacao 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



Certification

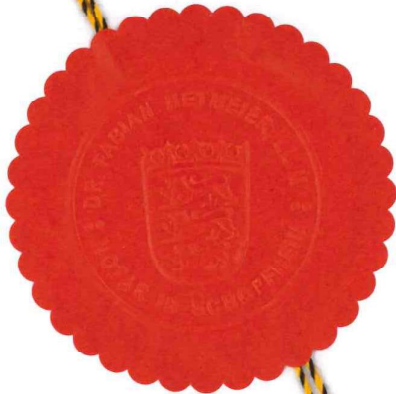
I hereby certify that the document above was signed in my presence on this day, the 2nd of June 2020, by

Dr. Karl Barton, born on the 2nd of September 1960,
Hauptstraße 1, DE-79689 Maulburg, Germany,

who is identified by his valid german identity card.

Schopfheim, the 2nd of June 2020

Dr. Fabian Hetmeier LL.M.
notary public in Schopfheim



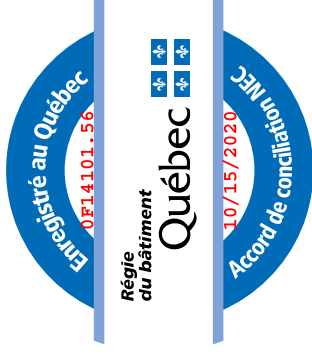


Endress+Hauser

People for Process Automation

CRN Registration Deltapilot M, FMB50, FMB51, FMB52 (FMB53)

Scope of Registration Document



Type	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Code of Construction
	Design	Pressure components			
FMB50	ASME B16.5 – 2009 Flange	Class: 150 Size: 1", 1 1/2", 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316L, 1.4435)	10 Bar, -10°C up to 135°C	ASME B31.3 2008
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4404) UNS N10276, B574, (C276, 2.4819)		
	ISO 2852 Tri-Clamp	2", 3"	UNS S31603, A479, (316/316L, 1.4435)		
	Varivent F,N	1 – 1 1/2" (F), up to 6" (N)	UNS S31603, A182, (F316/316L, 1.4435)		
	DIN 11851	DN50, DN40	UNS S31603, A479, (316/316L, 1.4435) UNS S31603, A182, (F316/316L, 1.4435) UNS N06455, B574 (C4, 2.4610)		
	Universal Sanitary	Ø43.5mm	UNS S31603, A479, (316/316L, 1.4435) UNS S31603, A182, (F316/316L, 1.4435) UNS N10276, B574, (C276, 2.4819)		
FMB51		Sensor Body	UNS N10276, B575, (C276, 2.4819)	10 Bar, -10°C up to 85°C	ASME B31.3 2008
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		
	ASME B16.5 – 2009 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316L, 1.4435)		
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4435) UNS N10276, B574, (C276, 2.4819) UNS N06455, B574 (C4, 2.4610)		
		Sensor body	UNS N10276, B574, (C276, 2.4819) UNS N06455, B574 (C4, 2.4610)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		
FMB52 (FMB53)		Tubes	UNS S31603, A213/A312, (316L, 1.4404, 1.4435) UNS N06455, B574 (C4, 2.4610) UNS N06455, B574 (C4, 2.4610)	10 Bar, -10°C up to 80°C (FEP cable), -10°C up to 70°C (PE cable)	
	ASME B16.5 – 2009 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316L, 1.4435)		
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4435) UNS N10276, B574, (C276, 2.4819)		
		Sensor body	UNS N10276, B574, (C276, 2.4819)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		
			UNS N10276, B575, (C276, 2.4819)		

Notes:

1. Maximum allowable working pressures are derived from Technical Description 960014226-A.
2. For complete materials of construction allocation please consult overview drawing 960014212--.
3. Other product details may be found in Technical Information document TI437P.

ENDRESS + HAUSER SE + CO. KG
HAUPTSASSE 1, DE-79689
MAULBURG
GERMANY

Date: July 27, 2020
Account #: 58460
Journal #: 76131

Attn: ASTRID VIRNICH

Re: Application for Design Registration

The design, as detailed in your, 960014212, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS + HAUSER SE + CO. **CRN:** 0F14101.51
KG

Drawing #: 960014212

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:

Scope of Registration: Renewal - Deltapilot M Model FMB50, FMB51 & FMB52 (FMB53).

As required by CSA B51 4.2.1, this registration expires on 05-Mar-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# 0F14101.5R1 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@technicalsaftybc.ca
Design Administration

cc:



7/30/2020

ENDRESS + HAUSER SE+Co. KG
1 Hauptstrasse
Maulburg, 79689
DE

Dear Astrid Hage

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-R810
CRN: 0F14101.54
Scope: Renewal Deltapilot M Model FMB50, FMB51 & FMB52 (FMB53) - See Scope of Registration
Manufacturer: ENDRESS + HAUSER GMBH + CO KG
Expiry Date: 5/Mar/30

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 me directly via email at Cheryl.Lashek@gov.mb.ca for any questions or concerns.

Cheryl Lashek, P.Eng
Director, ITSM
Inspection and Technical Services
Office of the Fire Commissioner
508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8
T (204) 945-3507 | F (204) 948-2309

REGISTRATION OF A PRESSURE FITTING DESIGN

28-Sep-20

Endress + Hauser GMBH + Co KG
Hauptstrasse 1
Maulburg
79689 Germany

Attention: Astrid Häge**File Number: 11697 [0 F]**

Re: Manufacturer: Endress + Hauser GMBH + Co KG
Item: Pressure Transmitters
Catalog or Drawing: Scope of Registration Document - 04.03.2020

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:

OF14101.53**Expiry Date: March 05, 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,



Liting (Frank) Huang, P.Eng.
Codes and Standards Compliance

Remarks:

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

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Dr. Karl Barton
Expert Quality Management Processes
(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)

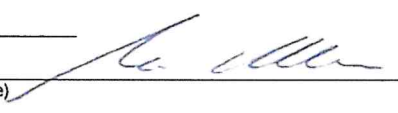
- ☒ Comply with the requirements of ASME B31.3 which specifies the dimensions, (title of recognized North American Standard)
Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
- ☐ Are not covered by the provisions of a recognized North American standard 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, Swiss Association for Quality Management Systems SQS as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Deltapilot M FMB50, FMB51, FMB52, FM53

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

CRN Registration File 0F14101.5R1, Drawing 96001421--, Technical Description 960014226-A, TI00437P, Scope of Registration

II. Declaration

DECLARED before me at Schopthelm In the _____ of _____
this _____ day of 02. Juni 2020
(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 Number)

(Date Registered – MM DD YYYY)

(Expiry Date – MM DD YYYY)

(For the Administrator / Chief Inspector)



**Technical
Safety Authority
of Saskatchewan**

Registration No. 0F14101.53
File No. 11697
Registered
Date: September 28, 2020
Expiry Date: March 05, 2030
Codes & Standards Compliance Office

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)

Instrumentacao e Automacao 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

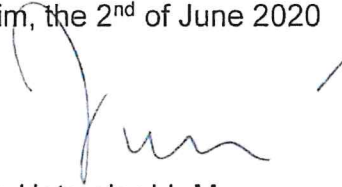
Certification

I hereby certify that the document above was signed in my presence on this day, the 2nd of June 2020, by

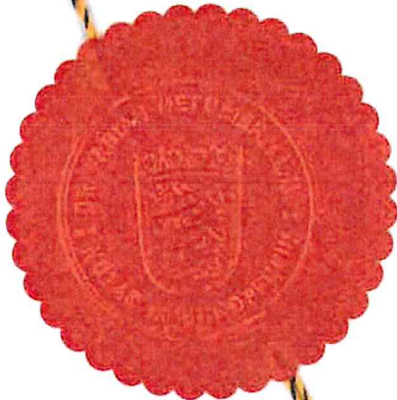
Dr. Karl Barton, born on the 2nd of September 1960,
Hauptstraße 1, DE-79689 Maulburg, Germany,

who is identified by his valid german identity card.

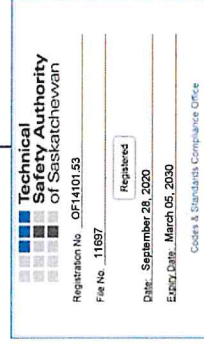
Schopfheim, the 2nd of June 2020



Dr. Fabian Hetmeier LL.M.
notary public in Schopfheim



Type	Process connection		Materials of Construction	Maximum Design Pressure (bar) and Temperature (°C)	Code of Construction
	Design	Pressure components			
FMB50	ASME B16.5 – 2009 Flange	Class: 150 Size: 1", 1 1/2", 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316L, 1.4435)	10 Bar, -10°C up to 135°C	ASME B31.3 2018
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4404) UNS N10276, B574, (C276, 2.4819)		
	ISO 2852 Tri-Clamp	2", 3"	UNS S31603, A479, (316/316L, 1.4435)		
	Varivent F,N	1 – 1 1/2" (F), up to 6" (N)	UNS S31603, A182, (F316/316L, 1.4435)		
	DIN 11851	DN50, DN40	UNS S31603, A479, (316/316L, 1.4435) UNS S31603, A182, (F316/316L, 1.4435) UNS N06455, B574 (C4, 2.4610)		
	Universal Sanitary	Ø43.5mm Sensor Body	UNS S31603, A479, (316/316L, 1.4435) UNS S31603, A182, (F316/316L, 1.4435) UNS N10276, B574, (C276, 2.4819)		
FMB51	ASME B16.5 – 2009 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316L, 1.4435)	10 Bar, -10°C up to 85°C	
	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4435) UNS N10276, B574, (C276, 2.4819) UNS N06455, B574 (C4, 2.4610)		
		Sensor body	UNS N10276, B574, (C276, 2.4819)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		
		Tubes	UNS S31603, A213/A312, (316L, 1.4404, 1.4435) UNS N06455, B574 (C4, 2.4610) UNS N06455, B574 (C4, 2.4610)		
	ASME B16.5 – 2009 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316L, 1.4435)		
FMB52 (FMB53)	ASME B1.20.1-1983 NPT Thread	NPT – 1 1/2"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4435) UNS N10276, B574, (C276, 2.4819)	10 Bar, -10°C up to 80°C (FEP cable), -10°C up to 70°C (PE cable)	
		Sensor body	UNS N10276, B574, (C276, 2.4819)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		



THIS IS PART OF
CRN OF 14101.53
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

- Notes:**
1. Maximum allowable working pressures are derived from Technical Description 960014226-A.
 2. For complete materials of construction allocation please consult overview drawing 960014212-.
 3. Other product details may be found in Technical Information document T1437P.

FMB52
(FMB53)

