

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 4



STATUTORY DECLARATION

Registration of Fittings

I, Dr. Karl Barton, Expert Quality Management Processes		
(Name and Position, e.g. President, Plant Manager, Chief E	ngineer)	
of Endress+Hauser SE+Co.KG		
(Name of Manufacturer)		
Located at See attached worldwide locations appendix		
	(Telephone No.)	(Fax No.)
7	' h - i l Ct l l	d Cafata Ant Dailana
do solemnly declare that the fittings listed hereunder, which are subject to the 7 and Pressure Vessels Regulation, comply with all of the requirements of	ecnnicai Standards and	u Salety Act, Bollers
ASME B31.3		
(Title of recognized North American Standard)		
which specifies the dimensions, materials of construction, pressure/temperature ratings	s, identification marking the	fittings and service;
or are not covered by the provisions of a recognized North American standard a	and are therefore manufa	ctured to comply with
as supported by the attached data which ic		
pressure/temperature ratings and the basis for such ratings, the marking of the fit	ting for identification and	service.
		. ISO 9001:2015
I further declare that the manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of these fittings is controlled by a quality system manufacture of the fittings is controlled by a quality system manufacture of the fitting is controlled by the following authority, and the fitting is controlled by the fitt	eeting the requirements of	nent Systems S
The items covered by this declaration, for which I seek registration, are category F - Metallic I	Pressure Devices 5/0	e fittings. In support of
this application, the following information and/or test data are attached as follows:	тур	e illings. In support of
Scope of Registration, Reports, Drawing, Calculations		
(drawings, calculations, test reports, etc.)		
(aratimge, sursulations, toot reports, story		
(alanings) calculations, see repency star,	No contract the	
	of	
Declared before me at in the	of	
	of	
Declared before me at in the the day of AD 20	of	
Declared before me at in the	of	
Declared before me at in the the day of AD 20 Commissioner for Oaths:		
Declared before me at in the the day of AD 20 Commissioner for Oaths:		
Declared before me atin the theday of Commissioner for Oaths: (Printed name)	lad lle	ele
Declared before me at in the the day of AD 20 Commissioner for Oaths:		ele
Declared before me atin the theday of Commissioner for Oaths: (Printed name)	(Signature of Declar	ele
Declared before me atin the theday of Commissioner for Oaths: (Printed name) (Signature)	(Signature of Declar	rer)
Declared before me at	(Signature of Declar	rer) Boilers and
Declared before me atin the theday of Commissioner for Oaths: (Printed name) (Signature) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the	(Signature of Declar Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program
Declared before me at	(Signature of Declar Technical Standards and Safety	Boilers and Pressure Vessels Safety Program
Declared before me at	(Signature of Declar Technical Standards and Safety Authority REGIST	Boilers and Pressure Vessels Safety Program CERED
Declared before me at	(Signature of Declar Technical Standards and Safety Authority REGIST C.R.N.: F14	Boilers and Pressure Vessels Safety Program CERED
Declared before me at	(Signature of Declar Technical Standards and Safety Authority REGIST C.R.N.: F14	Boilers and Pressure Vessels Safety Program CERED
the	(Signature of Declar Technical Standards and Safety Authority REGIST C.R.N.: JF 14 Signed:	Boilers and Pressure Vessels Safety Program CERED
Declared before me at	(Signature of Declar Technical Standards and Safety Authority REGIST C.R.N.: F14	Boilers and Pressure Vessels Safety Program CERED

*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 FMB5D, FMB51, FMB52 (FMB53) - See attached

Seepe of Registration. wo
03/05/2020



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) 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

THIS IS PART OF OF 14101.5R1 Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

Certification

I hereby certify that the document above was signed in my presence on this day, the $3^{\rm rd}$ 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



People for Process Automation

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

Scope of Registration Document - 04.03.2020

		100			
Type	riocess connection	iectioni	- Materials of Construction	Maximum Design Pressure	Code of Construction
•	Design	Pressure components		(bar) and Temperature (°C)	
	ASME B16.5 – 2009 Flange	Class: 150 Size: 1", 1 ½", 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 ½"	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)		
ENABED	Varivent F,N	$1 - 1 \frac{1}{2}$ " (F), up to 6" (N)	UNS S31603, A182, (F316/316L, 1.4435)	10 Bar, -10°C up to 135°C	
OCCUAL			UNS S31603, A479, (316/316L, 1.4435)		
	DIN 11851	DN50, DN40	UNS S31603, A182, (F316/316L, 1.4435)		
	Intercent Constant	247 5	TIME COLOR A 470 (216, 2161)		
	Universal Sanitary	Ø43.5mm	UNS 531003, A479, (310/310L, 1.4435)		
		Sensor Body	UNS S31603, A182, (F316/316L, 1.4435)		
			UINS IN IUZ/0, B3/4, (CZ/0, Z.4619)		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		ASME B31.3 2018
	ACME R16 5 - 2000 Flance	Class: 150	Group 2.2, UNS S31603, A182, (F316, 1.4435)		
	AJIVIE DIO.3 – 2009 Halige	Size: 2", 3", 4"	Group 2.3, UNS S31603, A182, (F316L, 1.4435)		
	ASME B1.20.1-1983 NPT Thread	NPT – 1 ½"	UNS S31603, A182, (F316/316L, 1.4435)		
			UNS S31603, A479, (316/316L, 1.4435)	10 Bo 1 00 00 1	
EM/R51		Sensor body	UNS N10276, B574, (C276, 2.4819)	10 bai, -10 c up io oo c	
COMMIT			UNS N06455, B574 (C4, 2.4610)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		
			UNS S31603, A213/A312, (316L, 1.4404, 1.4435)		
	20	Tubes	UNS N06455, B574 (C4, 2.4610)		
			UNS N06455, B574 (C4, 2.4610)		
	ASME B16 5 2000 Elance	Class: 150	Group 2.2, UNS S31603, A182, (F316, 1.4435)		
	ASIMIL DIO.3 - 2009 mange	Size: 2", 3", 4"	Group 2.3, UNS S31603, A182, (F316L, 1.4435)	10 0	
FMB52	ASME B1.20.1-1983 NPT Thread	NPT - 1 ½"	UNS S31603, A182, (F316/316L, 1.4435)	10°C '::: 10 BdI',	
(FBM53)		Sensor body	UNS S31603, A479, (316/316L, 1.4435)	-10°C up to 70°C (PE cable)	
		Dianhraom	IINS N10276 R575 (C276 2 4810)		
	Notes:				

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.

Technical Standards & Safety Authority Boilers & Pressure Vescels THIS IS DARY OF CRN OF 14101.521 Safety Program Page 171

Endress+Hauser SE+Co.KG

023

Thread connection with flush mounted diaphragm: ANSI 1 ½" MNPT MAWP: 10 bar

DT: 135°C

sanitary connection: Universal process connection MAWP: 10 bar

ø43.5

1)2

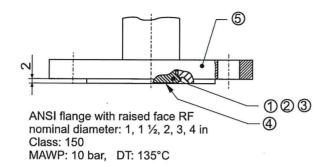
1023

Clamp ISO 2852 2", (3") ø56.5 (83,5)

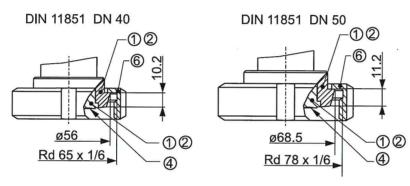
ø64 (91)

sanitary connection: Clamp 2" (3"), ISO 2852 MAWP: 10 bar

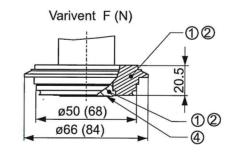
FMB50



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

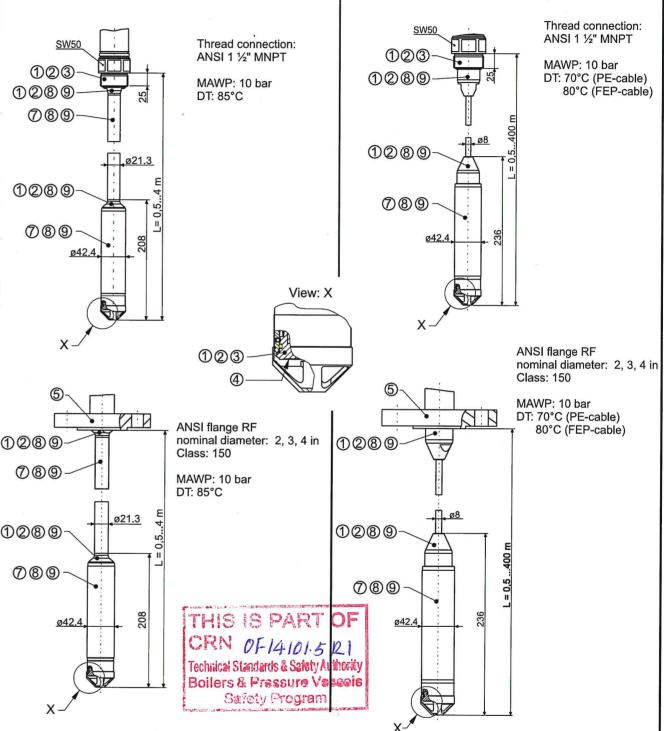


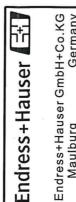
sanitary connection: Varivent F, N MAWP: 10 bar for pipe sizes 1" (type F) and 1 1/2" up to 6" (type N)

- 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
- ② AISI 316/316L, ASTM A213+A312+A479, UNS S31603, 1.4404+1.4435
- 8 Alloy C22, ASTM B574+B622+B626, UNS N06022, 2.4602
- Alloy C4, ASTM B574+B622+B626, UNS N06455, 2.4610

FMB51

FMB52





beachten

Benennung / title

Material / material

Refer to protection notice Schutzvermerk ISO 16016 ISO 16016

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

oleranz / tolerance $(\dot{\Phi})$ CorelDRAW 12.01.11 URBANH DIN A3 28.10.10 MUTHS MUTHS 28.06.10 % 28.06.10 **MUTHS** Dokument-Nr. / No. of documen Doku-Nr. alt / Docu-No. old

960014212 - -

Mitt.-Nr. / Notif.-No. SAP-Material-Nr. / SAP-Material-No

NOO

ISO 1101 ISO 1302 6784

New Brunswick Nunavut	⊠Nova Scotia ⊠Yukon	☑ Prince Edward Island ☑ Northwest Territories	☑Newfoundland and Labrador
Manufacturers Nar	Me: Endress+Hauser SE+Co.KG		
	iress: Hauptstr. 1, 79689 Maulbu	urg, Germany	
77	ettached worldwide locations appe		
Categor	y of Fittings to be registe	ered. Circle one Category only s, plugs, unions, pipe caps, or reduce	
B Flanges: all flanges	g couplings, tees, elbows, Ys	s, plugs, unions, pipe caps, or reduce	Construction Construction
C Valves: all line valve			ASME B31.3
	xible connections, and hose a arators, and steam traps	assemblies: all types	C. (CO. STOCK 12 ON. SOCIETY)
K Measuring devices, in		vel gauges, sight glasses, levels, or p	pressure
transmitters	ad menagura saliaf daylaan nar	ceptable as primary over pressure pri	pleation on
bollers, pressure ves	sels, piping and fusible plugs		Second of
N Nuclear components	: Class 1 Class 2 Cla	ess 3 🔲 , (Meeting CNSC or ASME r	requirements)
		Logo as it will appear on the pr	
End	ress+Ha	user 🖽	Forged # Welded # Wrought = Cast # Other # Describe other:
		ification of the actual items to	pe registered;
Drawing 960014	21		
Technical Descr	iption 960014226-A		
TI00437P			
11007071			
Scope of Registr	ration		
Scope of Registr		mployed by Endress+Hauser Si	E+Co.KG and heige the person housing full multiparity
Declaration: Div. Mark Barkin, Expert Quality Miles and responsibility for the my knowledge represe ratings, and identificati fittings is regulated by verified by Small Association to believing it to be true, a Signature of Declarer: Declared before me at This	anagoment Processes (see note 3) of the equality of the end product for which is on markings are in accord a Quality Control Program County and Management Systems 503 as and knowing that it is of the of	uct do solemnly declare that the i registration is sought. The dimer lance with the herein named star I which extends to each plant wh	E+Co.KG and being the person having full authority information contained in this form is true to the best of resions, materials of construction, pressure temperature adards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal
Declaration: Dr. Kan Bartón, Export Quality Microsponsibility for the my knowledge representatings, and identificatifittings is regulated by verified by Small Accounts to believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) er ne quality of the end produ ents the product for which is on markings are in accord a Quality Control Program (Outly and Management Systems 508) as and knowing that it is of the ofAD	uct do solemnly declare that the I registration is sought. The dimeriance with the herein named star which extends to each plant who being suitable for that purpose are same force and effect as if many	information contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath.
Declaration: Dr. Korl Barkin. Expert Quality Mind and responsibility for Mind responsibility for Mi	onagement Processes (see note 3) or ne quality of the end product for which is on markings are in accord a Quality Control Program rously and Management Systems 50% as and knowing that it is of the of the control program of the c	uct do solemnly declare that the i registration is sought. The dimer iance with the herein named star a which extends to each plant wh being suitable for that purpose a e same force and effect as if man	information contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath.
Declaration: Dr. Kan Bartón, Export Quality Microsponsibility for the my knowledge representatings, and identificatifittings is regulated by verified by Small Accounts to believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) er ne quality of the end produ ents the product for which is on markings are in accord a Quality Control Program (Outly and Management Systems 508) as and knowing that it is of the ofAD	uct do solemnly declare that the i registration is sought. The dimer iance with the herein named star a which extends to each plant wh being suitable for that purpose a e same force and effect as if man	information contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath.
Declaration: Dr. Kent Barton, Expert Quality Middle responsibility for the my knowledge represeratings, and identificatifittings is regulated by verified by Serial Association to believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) ene quality of the end product for which is on markings are in accord a Quality Control Program (Outly and Management Systems 505) as and knowing that it is of the of the control program (Affix Official seal to the	uct do solemnly declare that the i registration is sought. The dimeriance with the herein named star which extends to each plant which extends to each plant which being suitable for that purpose are same force and effect as if many and the start of the same force and effect as if many are right. This space for Regulatory Authority	information contained in this form is true to the best of risions, materials of construction, pressure temperature adards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal
Declaration: Dr. Karl Bardon, Expert Quality Mand responsibility for the my knowledge represeratings, and identificatifittings is regulated by verified by Serias Association to believing it to be true, a Signature of Declarer: Declared before me at This	anagement Processes (see note 3) er ne quality of the end produ nts the product for which i on markings are in accord a Quality Control Program routly and Maragement Stots as and knowing that it is of the ofAD (Affix Official seal to the	uct do solemnly declare that the i registration is sought. The dimeriance with the herein named star is which extends to each plant who being suitable for that purpose are same force and effect as if many and the start of the	information contained in this form is true to the best of risions, materials of construction, pressure temperature ndards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal y use. from the date of acceptance.
Declaration: Dr. Kert Beardon, Expert Quality Mand, responsibility for the my knowledge represers ratings, and identificatifittings is regulated by verified by Serial Association to believing it to be true, a Signature of Declarer: Declared before me at This day Commissioner of Oath: Or Notary Public: (signature)	anagement Processes (see note 3) ended and product for which is on markings are in accord a Quality Control Program (Quely and Maragement Stotal as and knowing that it is of the control program (Affix Official seal to the	uct do solemnly declare that the i registration is sought. The dimeriance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many the state of the sta	information contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Use. ACCEPTED ACCEPTED ACCEPTED
Declaration: Dr. Karl Bardon, Expert Quality Mand responsibility for the my knowledge represeratings, and identificatifittings is regulated by verified by Serias Association to believing it to be true, a Signature of Declarer: Declared before me at This	anagement Processes (see note 3) ended and product for which is on markings are in accord a Quality Control Program (Quely and Maragement Stotal as and knowing that it is of the control program (Affix Official seal to the	uct do solemnly declare that the i registration is sought. The dimeriance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many the state of the sta	information contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Use. ACCEPTED ACCEPTED ACCEPTED
Declaration: Dr. Korl Barkin, Expert Quality Mil and, responsibility for tr my knowledge represe ratings, and identificati fittings is regulated by verified by Similar Association to believing it to be true, a Signature of Declarer: Declared before me at This	anagement Processes (see note 3) ended and product for which is on markings are in accord a Quality Control Program (Quely and Maragement Stotal as and knowing that it is of the control program (Affix Official seal to the	uct do solemnly declare that the i registration is sought. The dimeriance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many the state of the sta	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature dards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal yuse. from the date of acceptance. ACCEPTED VINCE OF PRINCE EDWARD ISLAND
Declaration: Dr. Korl Barkin, Expert Quality Microscope of Registral and responsibility for the my knowledge represers ratings, and identificatifittings is regulated by verified by Smiles Association to believing it to be true, a Signature of Declarer: Declared before me at This	anagement Processes (see note 3) ended and product for which is on markings are in accord a Quality Control Program (Quely and Maragement Stotal as and knowing that it is of the control program (Affix Official seal to the	uct do solemnly declare that the I registration is sought. The dimer lance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many and the state of th	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Vivie. ACCEPTED VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND IMUNITIES, LAND & ENVIRONMENT IMUNITIES, LAND & ENVIRONMENT
Declaration: Dr. Karl Barkin, Expent Quality Mand responsibility for the my knowledge represeratings, and identificatifittings is regulated by verified by Sant Accordance to believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) of the quality of the end product for which is on markings are in accord a Quality Control Program of Processes and knowing that it is of the control Processes and knowing that it is of the	uct do solemnly declare that the I registration is sought. The dimei fance with the herein named start which extends to each plant who being suitable for that purpose are same force and effect as if many and the suitable for the purpose are same force and effect as if many and the purpose are right. This space for Regulatory Authority at be revalidated after ten (10) years in the purpose of t	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Vivie. ACCEPTED VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND IMUNITIES, LAND & ENVIRONMENT IMUNITIES, LAND & ENVIRONMENT
Declaration: Dr. Karl Bardon, Expert Quality Mand, responsibility for the my knowledge representatings, and identificatifittings is regulated by verified by Smias Association to believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) end the quality of the end product for which is on markings are in accord a Quality Control Programs and knowing that it is of the county and Management Systems 503 as and knowing that it is of the county and Management Systems 503 as and knowing that it is of the county and Management Systems 503 as and knowing that it is of the county of the Management Systems 503 as and knowing that it is of the county of the Management Systems 503 as and knowing that it is of the county of the Management Systems 503 as a second syst	uct do solemnly declare that the I registration is sought. The dimeriance with the herein named start which extends to each plant who being suitable for that purpose are same force and effect as if many and the start of the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and the same force and effect as if many and effect a	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature dards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Vivie. ACCEPTED VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND IMUNITIES, LAND & ENVIRONMENT IMUNITIES, LAND & ENVIRONMENT IN. ACCEPTED ACCEPTED
Declaration: Dr. Kert Barton, Expert Quality Mand, responsibility for the my knowledge represeratings, and identificatifittings is regulated by verified by Savia Associators to believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) ending a quality of the end product for which is on markings are in accord a Quality Control Programs of a quality Control Programs of and knowing that it is of the office of the processes of th	uct do solemnly declare that the I registration is sought. The dimer lance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many lands are same force and effect as if many lands are registed. This space for Regulatory Authority at be revalidated after ten (10) years in the revalidated after ten (20). The company lands are considered. PROY COM.	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Vince of PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND
Declaration: Dr. Karl Barkin, Expent Quality Mr. and responsibility for the my knowledge representatings, and identificatifittings is regulated by verified by Savia Association in believing it to be true, a Signature of Declarer: Declared before me at This	onegoment Processes (see note 3) end the quality of the end product for which is on markings are in accord a Quality Control Programs and knowing that it is of the county and Management Systems 503 as and knowing that it is of the county and Management Systems 503 as and knowing that it is of the county and Management Systems 503 as and knowing that it is of the county of the Management Systems 503 as and knowing that it is of the county of the Management Systems 503 as and knowing that it is of the county of the Management Systems 503 as a second syst	uct do solemnly declare that the I registration is sought. The dimer lance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many lands are same force and effect as if many lands are registed. This space for Regulatory Authority at be revalidated after ten (10) years in the revalidated after ten (20). The company lands are considered. PROY COM.	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature didards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Vince of PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND
Declaration: Dr. Karl Barkin, Expert Quality Mand responsibility for the my knowledge represeratings, and identificatifittings is regulated by verified by Park Accordance to believing it to be true, a signature of Declarer: Declared before me at This	onegoment Processes (see note 3) of the quality of the end product for which is on markings are in accord a Quality Control Program of the Management Systems 508 as and knowing that it is of the control Program of the Management Systems 508 as and knowing that it is of the control of the Management Systems 508 as and knowing that it is of the control of the Management Systems 508 as and knowing that it is of the Systems 508 as and knowing that it is of the Systems 508 as and knowing that it is of the Systems 508 as and knowing Systems 508 as and knowing Systems 508 as a supported with two Statutory Dorling documentation.	uct do solemnly declare that the I registration is sought. The dimer lance with the herein named state in which extends to each plant who being suitable for that purpose are same force and effect as if many lands are same force and effect as if many lands are registed. This space for Regulatory Authority at be revalidated after ten (10) years in the revalidated after ten (20). The company lands are considered. PROY COM.	nformation contained in this form is true to the best of risions, materials of construction, pressure temperature dards. I further declare that the manufacture of these ere fabrication occurs in whole or in part and has been and I make this solemn declaration conscientiously de under oath. Use this space for the Official Seal Vivie. ACCEPTED VINCE OF PRINCE EDWARD ISLAND VINCE OF PRINCE EDWARD ISLAND IMUNITIES, LAND & ENVIRONMENT IMUNITIES, LAND & ENVIRONMENT IN. ACCEPTED ACCEPTED

New Brunswick	⊠Nova Scotia ⊠Yukon			XNev	vfoundland and Labrador
7				-	
The same of the sa	9: Endress+Hauser SE+Co.KG 958; Heuptstr 1, 79689 Maulburg,	· · · · · · · · · · · · · · · · · · ·			
4	ttached worldwide locations append				
A Pipe fittings, including	of Fittings to be registere couplings, tees, elbows, Ys, pi	d. Circle one Cate	gory only		Title of the Standard of Construction
B Flanges: all flanges C Valves: all fine valves				1	ASME B31.3
E Strainers, filters, separ	ele connections, and hose assi ators, and steam traps				
transmitters	luding pressure gauges, level			- 1	
boilers, pressure vesse	pressure relief devices accep is, piping and fusible plugs aponents that do not fall into or	0 8 0	7.	on on	
N Nuclear components:	Class 1 Class 2 Class	3 D . (Meeting CNSC	or ASME require	ements)	
The Section Section Control of the Section Co		_	Challed	1	Type of Construction Forged & Welded & Wrought a Cast & Other & Describe other:
Enar	'ess+Haเ	iser a	للت		Machined
List of supporting do-	cumentation and Identific	ation of the actual	items to be re	gistered	1
Drawing 9600142	1 tion 960014226-A				
TI00437P	1001 3000 14220-7				
Scope of Registra	tion				
ratings, and identification fittings is regulated by a verified by believing it to be true, an	markings are in accordan- Quality Control Program whether according to the second according to the sec	ce with the herein na hich extends to each ling suitable for that ame force and effec	amed standards plant where fa purpose and I r	s. I furthe abrication make this	als of construction, pressure temperature of declare that the manufacture of these occurs in whole or in part and has been solemn declaration conscientiously
Signature of Declarer:	leil lle	The same of the sa			
Declared before me at					
This day of	AD		Use	e this sp	ace for the Official Seal
Commissioner of Oaths					
Or Notary Public: (sign)		A PROPERTY OF THE PARTY OF THE			
	(Affix Official seal to the rig		***		
		his apace for Regulato	ry Authority use	ha data es	acceptance.
CRN: 0F14101.5	This registration must be REV1	o vevamaten alter ten i	(10) years from the	DECCI.	awaytalico.
15708	WITH A		CR&P	KE33U	KE VE
FID#:			NO NO	WA SCOT	W SS W
Notes:			Date M	tou b	9/20
CONTROL DESIGNATION OF THE PARTY OF THE PART	tared in the name of the Manufact		CRN. OF	0.	1.58REVI
Each Catagory shall be and one copy of support	supported with two Statutory Declar ing documentation	Manou Iduna	Dan CE	*	cribad
responsibility for the qua			Signed 3	onvia	erry .
Revision is CRN 192016FMB50, I	s shall be resubmitted for validation renewal. Deltapilot FMB51, FMB52 (FM	: М,	Car	Part REGUL	Sect 1.0 - Fittings Rev.2
CRN expires Mar	ch 5, 2030 - DG		de R	REGUL	ATTO
				Name and Post Of the Owner, where the Owner, which the Ow	

New Brunswick	⊠Nova Scotia ⊠Yukon		⊠Nev	vfoundland and Labrador
Manufacturers Na	me; Endress+Hauser SE+Co.k	(G		
	dress: Hauptstr. 1, 79689 Mau			
	ee attached worldwide locations a			
	ing couplings, tees, elbows,	stered. Circle one Category only Ys, plugs, unions, pipe caps, or reduce		<u>Title of the Standard of</u> <u>Construction</u>
C Valves: all line valv	es			ASME B31.3
E Strainers, filters, se	exible connections, and hose parators, and steam traps			
Measuring devices, transmitters	including pressure gauges,	level gauges, sight glasses, levels, or p	ressure	
G Certified capacity-ra		acceptable as primary over pressure pro	tection on	
	essels, piping and fusible plu components that do not fall i	gs into one of the above categories		
N Nuclear componen	ts: Class 1 Class 2	Class 3 ☐ , (Meeting CNSC or ASME re	equirements)	
		r Logo as it will appear on the pr		Type of Construction
				Forged Welded Wrought Cast Other
Fnc	recc + H	auser لنكا		Describe other:
LIIC	11 (22)	dusci e		Machined
List of supporting	documentation and ide	entification of the actual items to	be registered	<u>t</u>
Drawing 96001	421			
The same of the sa	cription 960014226	-A		
TI00437P				
Scope of Regis	tration			
fittings is regulated by verified by Swiss Association	y a Quality Control Progra for Quality and Management Systems SQS , and knowing that it is of	am which extends to each plant who as being suitable for that purpose a the same force and effect as if made	ere fabrication nd I make this	er declare that the manufacture of these n occurs in whole or in part and has been s solemn declaration conscientiously
Signature of Declarer	leal le	ull		
Declared before me a	at/			
This da	y of	AD	Use this sp	ace for the Official Seal
Commissioner of Oat	ths		N	Nouvezu
Or Notary Public: (sig	jn)		Bi	unswick
	(Affix Official seal to	the right)	direct of	WETICE PUBLIC SAFETY
CRN: _0F14101	This registration n	This space for Regulatory Authority nust be revalidated after ten (10) years f	ron Brook later of	JUSTICE PUBLIC SAFETY REPRESURE VESSELACT
All Man Company of the Company of th			R	EGISTRATION ONLY
FID#:			6	3514/01.57 Kev1
Notes:			CRN) , 101,
AND DESCRIPTION OF STANDARDS AND	registered in the name of the Ma		8	7 .
	II be supported with two Statutor pporting documentation.	ry Declaration forms	_C	an cust
3. The Declaration sha	all be made by the person havin	g full authority and	CHIE	F BOILER INSPECTOR
	e quality of the end product. grams shall be resubmitted for v	alidation.	DAT	5/29/20
Revision is CF	RN renewal. Delta	pilot M,	DAI	Sect 1.0 - Fittings Rev.2
11/2016FMB5	0, FMB51, FMB52			
CKN expires N	March 5, 2030 - DC		BLRs	□ PV®
			FITTINGS	NUCLEAR COMPONENTS

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS New Brunswick X Nova Scotia X Prince Edward Island Newfoundland and Labrador Nunavut XYukon X 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 Title of the Standard of A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges Construction C Valves: all line valves ASME B31.3 D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, fillers, separators, and steam traps K Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure 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 Type of Construction Welded ₫ Wrought o Cast # Other 5 Endress + Hauser 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: Dr. Karl Barton, Excert 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 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 Use this space for the Official Seal day of AD Commissioner of Oaths Or Notary Public: (sign) (Affix Official seal to the right) This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance OF14101.5 REV1 CRN: Newfoundland 15708 Labrador FID#: Notes: All Fittings shall be registered in the name of the Manufacturer. Registered 0 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 Engineering and Inspection Services responsibility for the quality of the end product. Registered by Quality Control programs shall be resubmitted for validation Revision is CRN renewal. Deltapilot M. UNDER THE AUTHERITY OF THE PY.2 ^{11/2018}FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL

COMPRESSED GAS REGULATIONS

New Brunswick		☑Prince Edwa	rd Island	☑Newfoundland and Labrador
	me: Endress+Hauser SE+Co.h	(G		
I was to be a second of the se	dress: Hauptstr. 1, 79689 Mau			
Plant Locations: se	ee attached worldwide locations a	ppendix		The second secon
	ry of Fittings to be reging couplings, tees, elbows,			Title of the Standard of Construction
B Flanges: all flanges C Valves: all line valve				ASME B31.3
D Expansion joints, fle	exible connections, and hos	e assemblies: all types		AOME BOTTO
	parators, and steam traps including pressure gauges,	level gauges, sight glass	es, levels, or pres	essure
G Certified capacity-ra	ted pressure relief devices		er pressure prote	ection on
	ssels, piping and fusible plu components that do not fall		gories	
	is: Class 1 Class 2 C			
Show Manufacture	rs Name, Trademark, o	r Logo as it will appe	ar on the prod	Type of Construction Forged Welded Wrought
		6		Cast Other
Fnc	lress+H	ALICAT A	工: //	Describe other:
LIIU	11 (22)	ausci «		Machined
List of supporting	documentation and ide	entification of the actu	al items to be	registered:
				A Commence of the Commence of
Drawing 96001		A		
	ription 960014226	-A		
TI00437P				
Scope of Regis	tration			
fittings is regulated by verified by Swiss Association believing it to be true, Signature of Declarer Declared before me a	a Quality Control Program for Quality and Management Systems SOS and knowing that it is of	am which extends to ea as being suitable for th the same force and ef	ach plant where at purpose and fect as if made	
This day	y of	AD		Use this space for the Official Seal
Commissioner of Oat				
Or Notary Public: (sig	A CANADA CONTRACTOR AND A SECOND CONTRACTOR ASSECTION ASSECTIO			
	(Affix Official seal to			
		This space for Regul nust be revalidated after to		m the date of acceptance.
CRN.	.5 REV1			101
15708				10/
FID#:				13/
Notes: 1. All Fittings shall be i	registered in the name of the Ma	anufacturer.	i	CO BY
The state of the s	be supported with two Statutor		1	1 4
and one copy of sup	porting documentation.			CRN0F14101.5Y REV1
	Il be made by the person havin quality of the end product.	g full authority and		OININ
1	rams shall be resubmitted for v	alidation.	1	06/02/2020
Revision is CR	N renewal. Delta	pilot M,		DATE 06/02/2020 Fittings Rev.2
11/2016 FMB50	0, FMB51, FMB52	2 (FMB53).		
CRN expires M	larch 5, 2030 - DO	3		
5-2-70 LW				COLLEGE
				OLERS BRAND

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS New Brunswick X Nova Scotia X Prince Edward Island Newfoundland and Labrador Nunavut XYukon Northwest Territories Manufacturers Name: Endress+Heuser 8E+Co.KG Manufacturers Address: Heupistr. 1, 79889 Maulburg, Germany Plant Locations: See attached worldwide locations appendix Category of Fittings to be registered. Circle one Category only A Pipe littings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers Title of the Standard of B Flanges; all flanges Construction C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types ASME B31.3 E Strainers, filters, separators, and steam traps K Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on bollers, 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 Type of Construction Forged 8 Welded & Wrought a Endress + Hauser Cast # Other B 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: Or. Karl Berlon, 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 Make Association for Country and Management Systems 505 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath. Signature of Declarer: Declared before me at This day of AD Use this space for the Official Seal Commissioner of Oaths Or Notary Public: (sign) (Affix Official seal to the right) This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date c CRN: 0F14101.5 REV1 15708 FID#: Notes: Northwest Territories All Fittings shall be registered in the name of the Manufacturer. Each Category shall be supported with two Statutory Declaration forms REGISTERED and one copy of supporting documentation, UNDER THE AUTHORITY OF The Declaration shall be made by the person having full authority and THE BOILER AND PRESSURE responsibility for the quality of the end product, VESSEL ACT. Quality Control programs shall be resubmitted for validation C.R.N OF 14/0/5-7 Revision is CRN renewal. Deltapilot M. ^{11/2016}FMB50, FMB51, FMB52 (FMB53). CRN expires March 5, 2030 - DG

DATE TOWN

New Brunswick	⊠Nova Scotia ⊠Yukon	XPrince Edward XNorthwest Terri	Island tories	☑Newfoundland and Labrador	
Manufacturam Ale	ame: Endress+Hauser SE+Co.k				
	Idress; Hauptstr. 1, 79689 Mau				
Plant Locations:s	ee attached worldwide locations a	ppendix			
Catego	ry of Fittings to be regis	stered Circle one Cate	ory only	Title of the Standard of	-
A Pipe fittings, includ B Flanges: all flanges	ing couplings, tees, elbows,	Ys, plugs, unions, pipe caps,	or reducers	Construction	
C Valves: all line valv	es	2.2		ASME B31.3	
E Strainers, filters, se	exible connections, and hose parators, and steam traps	e assemblies: all types			
K Measuring devices,	including pressure gauges,	level gauges, sight glasses, i	evels, or pressu	re	
transmitters G Certified capacity-re	ited pressure relief devices a	cceptable as primary over no	essure omtectio		
Dollers, pressure ve	ssels, ploing and fusible blue	19			
	components that do not fall in	THE CONTRACT OF THE PARTY OF TH			
N Nuclear component	a: Class 1 🗆 Class 2 🗀 C	Class 3 . (Meeting CNSC	or ASME require	ments)	
Supa wanting chile	rs Name, Trademark, or	Logo as it will appear o	n the produc	Forged 5 Welded 6 Wrought 0	
g				Cast # Other #	
- Fno	ress+Ha	aliser /	11/	Describe other:	
	11.000 - 111	44301		Machined	
List of supporting	documentation and ider	ntification of the actual i	ems to be re	ilstered:	-
Drawing 96001	421				ĺ
	ription 960014226-	A			- 1
TI00437P		•			-
Scope of Regist	ration				1
L					
Declaration:					
Dr. Kert Barton, Expert Quebty N	lanegement Processes (see note 3) (employed by Endress+Hi	auser SE+Co.l	(G and being the person having full authority	v
and responsibility for t	ne quality of the end brod	luct do solemniv declare t	ant the informs	ition contained in this form in topo to the best	-8
raungs, and identificat	ion mandnos are in accor	dance with the herein nan	ned standards	materials of construction, pressure temperal I further declare that the manufacture of the	N 405 405
nitures is requiated by	a Quality Control Program	m which extends to each a	lant where for	prication occurr in whale as in and and has be-	een
believing it to be true.	and knowing that it is of the	s being suitable for that pi	irpose and I m	ake this solemn declaration conscientiously	
	1. 011		as a made dito	er oaut.	
Signature of Declarer:					
Declared before me at		WWW.			
This day	ofA	D	Use	this space for the Official Seal	
Commissioner of Oath	s				
Or Notary Public: (sign)	-		A A B BRIDE	
	(Affix Official seal to the	e right)		NUNAVUI	
		This space for Regulatory	Authority Days.	Boilers and	
CRN: 0F14101.	This registration mus	st be revalidated after ten 10	years from the	date of acceptance. Noncols Act	
The state of the s			Nunavut	Pressure Vesseis Act	
FID#: 15708		1		REGISTERED	
Notes:	7	1			
1. All Filtings shall be re-	gistered in the name of the Manu	efecturer.	IRN DF	14101, SNRev1	1
Each Category shall be and one copy of suppressions.	e supported with two Statutory E		W	The state of the s	
The Market Control of the Control of	orang documentation. be made by the person having fu		Date	7 1	
	unifity of the end product.		Signed	174	
	ms shall be resubmitted for valid	lation.		Chief Inspector	
	l renewal. Deltapi FMB51, FMB52 (Michael Lecture Sect 1.0 - Filtings Rev. 2	
CRN expires Ma	rch 5, 2030 - DG	1 141000).	Torrish	orial Registration Fee	
			Term	anal Negistration 1 00	
		L		The state of the s	



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
', '' aaga.,	(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
	mpany's name)	(Plant's address)
hereby declare tha	t the above-mentioned fittings and subject to the	Regulation respecting pressure installations:
comply with the	e requirements of the ANSI/ASME codes as to the	eir dimensions, identification, material and purpose
are not covered	by the ANSI/ASME codes, but are in compliance	e with
		(Name of code or standard)
code or standard a	and are designed according to the best current en	gineering practice, as proven by the enclosed approval report.
2.2 Manufacturing	g quality control	
I further declare that	at the manufacture of these fittings is controlled by	y a quality control program that complies with the requirements of the
following code:	ISO 9001:2015 , and has been verified by	Swiss Association for Qualitiy Management Systems
_	(Name of code)	(Authorized agency)
Signature of the pe	erson in charge: & llle_	Date (yyyy-mm-dd): 0 2. 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 (yyy	y-mm-dd):
Stamp the seal:	~

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

As far as I know, this application complies with the requirement accepted for registration in the class	nts of the Act and with standard CSA B51, Part 1, section 4.2, and is
This registration expires in ten (10) years after the date of regis	stration indicated above, and it must be validated again after this period.
Canadian registration number (CRN):	Registration date (yyyy-mm-dd): VINCOSISTRÉ AU QUEÓR OF14101.56 Régie
Rugart O zertę Abtengonte is Produktes	Québec * *

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 SOS

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

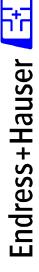
I hereby certify that the document above was signed in my presence on this day, the $2^{\rm nd}$ of June 2020, by

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



People for Process Automation

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





				M	
Type	Process connection	Геспоп	Materials of Construction	Maximum Design Pressure	Code of Construction
21FC	Design	Pressure components		(bar) and Temperature (°C)	
	ASME B16.5 – 2009 Flange	Class: 150 Size: 1", 1 ½", 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 ½"	UNS S31603, A182, (F316/316L, 1.4435) UNS S31603, A479, (316/316L, 1.4404) TINE N11077, B574, (277, 2,010)		
	ISO 2852 Tri-Clamp	2".3"	UNS S31603. A479. (316/316L. 1.4435)		
EMER	Varivent F,N	$1 - 1\frac{1}{2}$ (F), up to 6" (N)	UNS S31603, A182, (F316/316L, 1.4435)	10 Bar, -10°C up to 135°C	
LIMIDOO			UNS S31603, A479, (316/316L, 1.4435)		
	DIN 11851	DN50, DN40	UNS S31603, A182, (F316/316L, 1.4435) UNS N06455, B574 (C4, 2.4610)		
•	Universal Sanitary	Ø43.5mm	UNS S31603, A479, (316/316L, 1.4435)		
-		Sensor Body	UNS S31603, A182, (F316/316L, 1.4435)		
		Dinbucan	11NE N110276 DETE (C276, 2:4019)		ACA C 150 JACA
		Diaphragm	UNS INTUZ/0, B5/5, (CZ/0, Z.4819)		ASME B31.3 2008
	ASME B16.5 - 2009 Flange	Class: 150	Group 2.2, UNS S31603, A182, (F316, 1.4435)		
	1000 E000 1000	Size: 2", 3", 4"	Group 2.3, UNS S31603, A182, (F316L, 1.4435)		
	ASME B1.20.1-1983 NPT Thread	NPT – 1 ½"	UNS S31603, A182, (F316/316L, 1.4435)		
			UNS S31603, A479, (316/316L, 1.4435)	10 B.:. 100 1::. 4: 0500	
FMB51		Sensor body	UNS N10276, B574, (C276, 2.4819)	10 bai, -10 c up to 63 c	
			UNS N06455, B574 (C4, 2.4610)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		
			UNS S31603, A213/A312, (316L, 1.4404, 1.4435)		
		Tubes	UNS N06455, B574 (C4, 2,4610)		
			UNS N06455, B574 (C4, 2,4610)		
	ASME 016 5 2000 Figure 2	Class: 150	Group 2.2, UNS S31603, A182, (F316, 1.4435)		
	ASIVIE D10.3 - 2009 FIAIIBE	Size: 2", 3", 4"	Group 2.3, UNS S31603, A182, (F316L, 1.4435)	10 D.:	
FMB52	ASME B1.20.1-1983 NPT Thread	NPT – 1 ½"	UNS S31603, A182, (F316/316L, 1.4435)	10 Dal; $-10^{\circ}C$ in to $80^{\circ}C$ (EED cable)	
(FBM53)		Sensor body	UNS S31603, A479, (316/316L, 1.4435)	-10 c dp to 90 c (1 E1 caste), $-10^{\circ}\text{C im to }70^{\circ}\text{C (DE cable)}$	
_		Selisol Douy	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. 3. 2.
 - For complete materials of construction allocation please consult overview drawing 960014212—. Other product details may be found in Technical Information document T1437P.



Suite 600 - 2889 E 12th Ave Vancouver, BC V5M 4T5

Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

ENDRESS + HAUSER SE + CO. KG HAUPTSRASSE 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.

(PROD) 30400-20 GST #: 87391 2802 RT0001



Toll Free: 1-866-566-7233 www.technicalsafetybc.ca

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

Emilia Tam

emilia.tam@technicalsafetybc.ca Design Administration

cc:

(PROD) 30400-20 GST #: 87391 2802 RT0001



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



2202 2nd Avenue Regina, SK S4R 1K3 Canada 1 (866) 530-8599 info@tsask.ca www.tsask.ca

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.



File No. __11697

Date: September 28, 2020 Expiry Date: March 05, 2030

Registered

Codes & Standards Compliance Office

2202 2nd Ave. Regina, SK S4R 1K3 PH: (306)798-7112 Toll Free: (866)530-8599 FAX: (306)787-9273 Toll Free: (866)760-9255 Email: boilerpermits@tsask.ca Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

			TSK-1008
1.	Declaration Information		
I,	Dr. Karl Barton		In this space, show facsimile of manufacturer's logo or trademark as it will
	Expert Qualitiy Management Processes	_	appear on the fitting.
	(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)		Endress+Hauser 🖼
of:	Endress+Hauser SE+Co.KG	_ [
	(name of manufacturer) ated at: see attached worldwide locations appendix		
100	(City,Prov)		(Postal Code)
do s Ves	solemnly declare that the fittings listed hereinunder, which are subject to the Sesel Safety Act (check one)	Saskati	·
0	y a simply minimal resident entirements of	which	specifies the dimensions,
	(title of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification	markin	g of the fittings, or
C	Are not covered by the provisions of a recognized North American standar	d and a	are therefore manufactured
	to comply with	as	s supported by the attached
	data which identifies the dimensions, materials of construction, pressure / for such ratings, and the marking of the fittings for identification.	temper	ature ratings and the basis
I fur	ther declare that the manufacturer of these fittings is controlled by a quality of	ontrol n	arogram which has been
	fied by the following authority, Swiss Association for Quality Management Systems SQS as		
	nese fittings to the stated standard. The fittings covered by this declaration, for		
	tapilot M FMB50, FMB51, FMB52, FM53		
In s	upport of this application, the following information, calculations and / or test of	data are	e attached:
CR	RN Registration File 0F14101.5R1, Drawing 96001421, Technic	al Des	scription 960014226-A.
	00437P, Scope of Registration		
	Declaration		Vige 13 to 15 to 1
Manual Mills	CLARED before me at SChopineim In the		of
this	0.2 Juni 2020		
นแร	day of ,,	_ /	
(p	print name) (Signature)		e euce
(S	ignature of Commissioner of Oaths)		
		CONTRACTOR	
	Office Use Only		
CSA	ne best of my knowledge and belief, the application meets the requirements of the <i>Boi</i> . B51, Clause 4.2, and is accepted for registration in Category	ier and	
(R	Registration Number) (Date Registered – MM DD YYYY)		(Expiry Date – MM DD YYYY)
•	(For the Administrator / Chief Inspec		(
	Safety Authority of Saskatchewan		
	Registration No. OF14101.53		*



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 $2^{\rm nd}$ 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



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

Scope of Registration Document - 04.03.2020

	Process connection	nection		Maximum Design Pressure	
Design		Pressure components	Materials of Construction	(bar) and Temperature (°C)	Code of Construction
ASME B16.5 – 2009 Flange	lange	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]		
ASME B1.20.1-1983 NPT Thread	NPT Thread	NPT – 1 ½"	UNS S31603, A182, [F316/316L, 1.4435] UNS S31603, A479, [316/316L, 1.4404) IINS N10276, R574, (C276, 2.4810)		
ISO 2852 Tri-Clamp		2", 3" 1 – 1 ½" (F) 110 to 6" (N)	UNS S31603, A479, (316/316L, 1.4435)	00 20 1 24 20 001 mod 01	
DIN 11851			UNS S31603, A182, (1316/3161, 1316) UNS S31603, A182, (1316/3161, 1.4435) UNS N06455, B574 (C4, 2.4610)	י זמן טין מין טין אין טין אין אין טין אין אין אין אין אין אין אין אין אין א	
Universal Sanitary		Ø43.5mm	UNS S31603, A479, (316/316L, 1.4435)		
		Sensor Body	UNS S31603, A182, [F316/3161, 1.4435] UNS N10276, B574, (C276, 2.4819)		
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		ASME B31.3 2018
ASME B16.5 – 2009 Flange	09 Flange	Class: 150 Size: 2", 3", 4"	Group 2.2, UNS S31603, A182, (F316, 1.4435) Group 2.3, UNS S31603, A182, (F316), 1,4435)		
ASME B1.20.1-1983 NPT Thread	33 NPT Thread	NPT - 1 ½"	UNS S31603, A182, (F316/316L, 1.4435)		
		Conce	UNS S31603, A479, (316/316L, 1.4435)	10 Bar10°C up to 85°C	
		Sensor body	UNS N102/0, B5/4, (C2/0, 2.4819) UNS N06455, B574 (C4, 2.4610)		Technical
		Diaphragm	UNS N10276, B575, (C276, 2.4819)		Safety Authority
			UNS 531603, A213/A312, (316L, 1.4404, 1.4435)		Registration No. OF14101.53
		Tubes	UNS N064SS, B574 (C4, 2.4610)		File No. 11697
			UNS N06455, B574 (C4, 2.4610)		Registered
ASME B16.5 - 2009 Flange	109 Flange	Class: 150	Group 2.2, UNS S31603, A182, (F316, 1.4435)		Date: September 28, 2020
ASMF B1 20 1-1083 NPT Thread	83 NPT Thread	NPT - 1 1/5"	11NG C21603 A 182 (F3161, 1.4432)	10 Bar,	Codes & Standards Compleyice Office
		2/1	IINS \$31603, A479, [316/3161, 1.4435]	-10°C up to 80°C (FEP cable),	
		Sensor body	UNS N10276, B574, (C276, 2.4819)	-10°C up to 70°C (PE cable)	
		Diaphragm	UNS N10276, B575, (C276, 2.4819)	STOREST AND AND ADVANCED CONTRACT OF CONTRACT OF	The second secon
	Notes:			CORO CO CONTRACTOR	
		Manie - Ilametic menter	2007	2 2 2 -	

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 T1437P.

Boilers & Pressure Vescals Technical Standards & Salety Authority CRN OF 14101.521

Safety Program

Page T/1

Endress+Hauser SE+Co.KG

