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

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

TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE

TORONTO ON M9W 6N9

Date: November 24, 2021

Account #: 35231 **Journal #:** 79118

Attn: TSSA

Re: Application for Design Registration

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

registration as follows:

Registered To: ENDRESS + HAUSER GMBH CRN: 0F23358.51

GERMANY/USA/CHINA/INDIA

Drawing #: Scope of Registration

Conditions Of Registration:

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

Scope of Registration, Manufacturers list, Components drawings

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on 20-Jul-2031. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0F23358.5 registration shall apply to BC registration.

(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.

Janina Mihailescu

janina.mihailescu@technicalsafetybc.ca Design Administration

cc:

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



9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

October 04, 2021

Attention: Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

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

CRN: 0F23358.52 **Accepted on:** October 04, 2021

Reg Type: NEW DESIGN Expiry Date: October 20, 2030

Drawing No.: SCOPE OF CRN REGISTRATION **Fitting type:** CERAMIC PRESSURE SENSORS

Design registered in the name of: ENDRESS + HAUSER GMBH & CO KG

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

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

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

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,

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

2021-04988 Page 1 of 1





STATUTORY DECLARATION
Registration of Fittings
Single or Multiple Fitting Designs within one Fitting Category

I, CH	RISTOPHER PROIO	s,	DIVISION MANA MANAGEMENT	GER QUALIT	Y m	this space, show facsimile of anufacturer's logo or tradema it will appear on the fitting.
	(name of applicant)		(position title) (must	be in a position of	authority)	
of EN	IDRESS+HAUSER S					
25			of manufacturer)	Fr	ndress+	·Hauser 🔼
located	at SEE ATTACHED	20		ENDIX -	101035	Tidusci -
4 4		March 1997	int address)			741.6
	emnly declare that the only one)	e tittings listed	nereunder, which	are subject to t	ne Safety Code	es Act
\boxtimes	comply with the requ		ASME B31.1, B31.3			fies the dimensions,
			17			
	materials of constru	ction, pressur	e/temperature ratin	gs and identific	cation marking o	of the fittings, or
	are not covered by the	ne provisions	of a recognized No	rth American s	tandard and are	e therefore
	manufactured to con	nply with			as supp	orted by the
		(title of	code of construction or	other applicable d	ocument)	
	attached data which	identifies the	dimensions, materi	als of construc	tion, pressure/t	emperature ratings
	and the basis for suc	sh ratings and	the identification n	norking of the	fittings	
	and the basis for suc	in ratings, and	the identification i	narking of the	itungs.	
I furthe	r declare that the ma	nufacture of ti	nese fittings is cont	rolled by a qua	ality control prog	ram which has
been v	erified as described i	n the below T	able as being suital	ble for the man	ufacturing of th	ese fittings to the
			70-005 VAN D 70-00 5 ETC AN			
stated	standard, regulation,	code, guidelli	ne or other applicat	de document.	ine tittings cove	ered by the
declara	ation for which I seek	registration a	re as provided in th	e Supplement	ary Sheet(s) att	ached.
	2 77 12 11	S				
Quality	y Program Verificati	on and Manu	facturing Sites			
А сору	of the Quality Certific	cate from eac	h manufacturing sit	e must be inclu	uded	
Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Ceramic Pressure Devices	ISO 9001:2015	Development and Production	03.04.2022	sqs	See Attached Worldwide Locations Appendix
2.					x =	

2021-04988 Tracking #:_





In support of this application, the following information, calculations and/or test data are attached: SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS DECLARED before me at (province, territory, or state) (a Commissioner of Oaths or Notary Public) (a Commissioner of Oaths or Notary Public) (expiry date (mm/dd/yy)) Commissioner of Oaths / Notary Public in and for: (province, territory, or state) For ABSA Office Use Only: NOTES: ** See attached Scope of CRN Registration. To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for 2021-04988 registration in Category__ **ABSA** SAFETY CODES ACT - PROVINCE OF ALBERTA **ACCEPTED: OF 23358. 52** See acceptance letter for conditions of registration. Registered Date: Date: 2021-10-04 By: We She Shih Expiry Date: ____ This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act. Signature: (Signature of the Administrator/SCO) The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

Tracking #:__2021-04988



Endress+Hauser 4

People for Process Automation

WORLDWIDE LOCATIONS APPENDIX

THIS IS PART OF CRN 0F23358.5

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

(rev. 22/Jan/2020)

Endress+Hauser SE+Co. KG

Hauptstrasse 1 79689 Maulburg, Germany ISO 9001 Certified by SQS

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

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

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

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

Endress+Hauser Yamanashi Co., Ltd.

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

Endress+Hauser (USA)

Automation Instrumentation Inc.

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

Endress+Hauser (Brazil)

Instrumentação e Automação Ltda.

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

Endress+Hauser SE+Co. KG

Queremathe 2 14532 Stahnsdorf Germany ISO 9001 Certified by SQS

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People for Process Automation

THIS IS PART OF CRN Page 1 of 3 0F23358.5 Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety
Program

Doc. #961005216

SCOPE OF CRN REGISTRATION

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

PRODUCT DESCRIPTION

Repo	ort	Process Connection	MAWP (Barg)		
Numl	ber Drawing	Size and Type	at MAWT (°C)	MDMT	Туре
R-130	01A 961002417	Thread ISO228 G1/2 EN837,	40 barg at 150°C	-40°C	
	Modular Thread	Thread ISO228 G1/2 G1/4 female,			(O)DMOE4(D)
	Adapter Assembly	Thread ISO228 G1/2 hole 11.5 mm,			(O)PMC51(B) (O)PMC71(B)
	Sensors C5/C8	Thread ANSI MNPT 1/4" hole 3.0 mm,			(O)PMC53(B)
		Thread ANSI MNPT 1/2" hole 3.0 mm,			(O)PMC63(B)
		Thread ANSI FNPT 1/2"			(O)PMC73(B)
		Thread ANSI MNPT 1/2" FNPT 1/4"			(O)FMD71
		Thread ANSI MNPT 1/2" hole 11.5 mm,			(O)PMD71B
		Thread M20 EN837			,
		Thread M20 hole 11.4 mm			
R-130		2" ASME BPE / ISO 2852 Clamp Ferrule,	40 barg at 150°C	-40°C	
	Standard Assembly	2-1/2" ASME BPE / ISO 2852 Clamp Ferrule,			
	Short	3" ASME BPE / ISO 2852 Clamp Ferrule,			
	Sensors C5/C8	3-1/2" ISO 2852 Clamp Ferrule,			
		4" ASME BPE / ISO 2852 Clamp Ferrule,			
		Varivent N	40 5 445000		
		Bio Control DN65,	16 barg at 150°C		(O)PMC51(B)
		Bio Control DN80	40.0 h = == = + 20°C		(O)PMC71(B)
		ASME B16.5 Flanged Class 150 Size 1" and larger	19.0 barg at 38°C 18.4 barg at 50°C		(O)PMC53(B)
		Size i and larger	16.2 barg at 100°C		(O)PMC63(B) (O)PMC73(B)
			14.8 barg at 150°C		(O)FMD71
		ASME B16.5 Flanged Class 300	40.0 barg at 38°C		(O)PMD71B
		Size 1" and larger	40.0 barg at 50°C		(6)57 .5
		Oize i and larger	40.0 barg at 100°C		
			40.0 barg at 130°C		
			38.5 barg at 150°C		
		ASME B16.5 Flanged Class 600	40.0 barg at 150°C		
		and higher Size 1" and larger			
R-130	01C 961002415	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule,	40 barg at 150°C	-40°C	(0) DN 4054 (5)
	Standard Assembly	Varivent F,			(O)PMC51(B)
	Long	Thread ANSI MNPT 1-1/2",			(O)PMC71(B)
	Sensors C5/C8	Thread ANSI MNPT 2",			(O)PMC53(B) (O)PMC63(B)
200	021-04988	Thread ISO228 G1-1/2,			(O)PMC73(B)
	ABSA	Thread ISO228 G2			(O)FMD71
	SAFETY CODES ACT - PROVINCE OF ALBE		25 barg at 150°C		(O)PMD71B
A	ACCEPTED: OF 23358, 52	Bio Control DN50	16 barg at 150°C		(=)

See acceptance letter for conditions of registration. Date: 2021-10-04 By: The Marine Dick, P. Eng. DOP: 000067338

Endress + Hauser 45

THIS IS PA

THIS IS PART OF CRN 0F23358.5 Page 2 of 3

Technical Standards and Safety Authorit Boilers and Pressure Vessels Safety Program

Doc. #961005216

PRODUCT DESCRIPTION CONTINUED

People for Process Automation

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

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

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

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

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

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People for Process Automation

Page 3 of 3

THIS IS PART OF CRN

Note 2 continued

Doc.

- Forged Alloy 20 ASTM B366 UNS N08020

#961005216

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

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

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

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

Note 6: The Clamp Ferrule and Varivent connection shall be used with a clamp, however the assembly clamp is not part of this CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. The clamp used to complete the joint shall have its own CRN and shall have pressure-temperature ratings the same or higher than the product ratings.

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

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

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

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



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

REGISTRATION OF A PRESSURE FITTING DESIGN

13-Oct-21

TSSA 345 Carlingview Drive Toronto, Ontario M9W 6N9

Attention: Tanya Francis File Number: 12242 [0 F]

Re: Manufacturer: Endress+Hauser SE+Co. KG
Item: Ceramic Pressure Devices

Catalog or Drawing: Scope of Registration Doc. #962005216

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OF23358.53 Expiry Date: July 20, 2031

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

Remarks:

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

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



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)

Doolood			TSK-10
Declaration	Information		
CHRISTOPH	ALVAR YEAR IS SHOWN ROOM BUILDING		In this space, show facsimile of
-	ANAGER QUALITY	MANAGEMENT	manufacturer's logo or trademark as it wi appear on the fitting.
	company title, e.g. vice pre	esident, plant manager, chief engineer) manufacturing plant where the fitting is produced	
		manufacturing plant where the name is produced	'Endress+Hauser 🖾
ENDRESS+H	AUSER SE+Co. KG	ame of manufacturer)	
ated at: SE		DWIDE LOCATIONS APPENDIX	
accu ac.	Plant Address - Apt/Street		(Postal Code)
solemnly declar		isted hereinunder, which are subject	to the Saskatchewan Boiler and Pressure
) Comply wit	th the requirements	of ASME B31.3, B31.1	which specifies the dimensions,
		(title of recognized North American Standassure / temperature ratings and identified	rd) ication marking of the fittings, or
Are not conto		ons of a recognized North American	standard and are therefore manufactured as supported by the attached
data which	identifies the dimer		ssure / temperature ratings and the basis
	177	ing of the fittings for identification.	
			uality control program which has been
ified by the fol	lowing authority, S	SQS ISO 9001	as being suitable for the manufacturer
			ation, for which I seek registration, are
TEGORY F - CI	ERAMIC PRESSURE	DEVICES	
	U U	owing information, calculations and /	or test data are attached:
support of this	application, the folio	ownig intomination, careameters	
		TION, REPORTS, DRAWINGS	
COPE OF C	RN REGISTRAT		
Declaratio	RN REGISTRAT		
Declaratio	n ore me at	TION, REPORTS, DRAWINGS	CALCULATIONS
Declaratio	RN REGISTRAT	TION, REPORTS, DRAWINGS	CALCULATIONS
Declaratio	n ore me at	TION, REPORTS, DRAWINGS	of 03. Mai 20
Declaratio	n ore me at	ION, REPORTS, DRAWINGS	of 03. Mai 20
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Declaration CLARED befores (print name) Signature of Common Com	n ore me at day of nissioner of Oaths) e Only knowledge and belief, 4.2, and is accepted for the complete of the c	In the	of 13. Mai 20 If the Boiler and Pressure Vessel Safety Act and (Expiry Date – MM DD YYYY)
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Page 1 of 3

Doc.	#961005216						
	SCOPE OF CRN REGISTRATION						
Product D	Description:	Category F Fittings: Ceramic Pressure Devices					
Product		Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, OPMC63, OPMC63B,					
Models:		PMC51, PMC51B, PMC53B, PMC63, PMC63B, OPMC71, OPMC71B, OPMC73B,					
		PMC71, PMC71B, PMC73B, OFMD71, OPMD71B, FMD71, PMD71B					
Code of C	Construction:	ASME B31.1, ASME B31.3.					
Standard	Materials of	Body/Process Connections: UNS S31603 ASTM A479 (316L,1.4404,1.4435)					
Construc	tion:	Flanges: UNS S31600 ASTM A240 (316,1.4401)					

PRODUCT DESCRIPTION

	Report		Process Connection	MAWP (Barg)		
	Number	Drawing	Size and Type	at MAWT (°C)	MDMT	Type
	R-1301A	961002417	Thread ISO228 G1/2 EN837,	40 barg at 150°C	-40°C	
		Modular Thread	Thread ISO228 G1/2 G1/4 female,			(O)DMO54(D)
		Adapter Assembly	Thread ISO228 G1/2 hole 11.5 mm,			(O)PMC51(B)
		Sensors C5/C8	Thread ANSI MNPT 1/4" hole 3.0 mm,			(O)PMC71(B) (O)PMC53(B)
			Thread ANSI MNPT 1/2" hole 3.0 mm,			(O)PMC63(B)
			Thread ANSI FNPT 1/2"			(O)PMC73(B)
			Thread ANSI MNPT 1/2" FNPT 1/4"			(O)FMD71
			Thread ANSI MNPT 1/2" hole 11.5 mm,			(O)PMD71B
			Thread M20 EN837			(-)
			Thread M20 hole 11.4 mm			
	R-1301B	961002414	2" ASME BPE / ISO 2852 Clamp Ferrule,	40 barg at 150°C	-40°C	
		Standard Assembly	2-1/2" ASME BPE / ISO 2852 Clamp Ferrule,			
		Short	3" ASME BPE / ISO 2852 Clamp Ferrule,			
		Sensors C5/C8	3-1/2" ISO 2852 Clamp Ferrule,			
			4" ASME BPE / ISO 2852 Clamp Ferrule,			
			Varivent N	401 145000		
	Techni Safety	cal / Authority	Bio Control DN65,	16 barg at 150°C		(O)PMC51(B)
	of Sask	katchewan	Bio Control DN80 ASME B16.5 Flanged Class 150	19.0 barg at 38°C		(O)PMC71(B)
Registration			Size 1" and larger	18.4 barg at 50°C		(O)PMC53(B) (O)PMC63(B)
File No	12242	2	Size i aliu larger	16.4 barg at 50 C		(O)PMC73(B)
	Registere	d		14.8 barg at 150°C		(O)FMD71
Date:	October 13	·	ASME B16.5 Flanged Class 300	40.0 barg at 38°C		(O)PMD71B
Expiry Date:	July 20, 2	2031	Size 1" and larger	40.0 barg at 50°C		()
C	Codes & Standards Cor	mpliance Office	oize i and larger	40.0 barg at 100°C		
				40.0 barg at 130°C		
				38.5 barg at 150°C		
			ASME B16.5 Flanged Class 600	40.0 barg at 150°C		
			and higher Size 1" and larger	Ü		
	R-1301C	961002415	1-1/2" ASME BPE / ISO 2852 Clamp Ferrule,	40 barg at 150°C	-40°C	(O)DMO54(D)
		Standard Assembly	Varivent F,			(O)PMC51(B)
		Long	Thread ANSI MNPT 1-1/2",			(O)PMC71(B) (O)PMC53(B)
		Sensors C5/C8	Thread ANSI MNPT 2",			(O)PMC63(B)
			Thread ISO228 G1-1/2,			(O)PMC73(B)
			Thread ISO228 G2			(O)FMD71
			Thread M44	25 barg at 150°C		(O)PMD71B
			Bio Control DN50	16 barg at 150°C		, ,

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PRODUCT DESCRIPTION CONTINUED

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

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

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

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

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



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Note 2 continued

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

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

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

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

Note 6: The Clamp Ferrule and Varivent connection shall be used with a clamp, however the assembly clamp is not part of this CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. The clamp used to complete the joint shall have its own CRN and shall have pressure-temperature ratings the same or higher than the product ratings.

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

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

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

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





WORLDWIDE LOCATIONS APPENDIX

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

(rev. 22/Jan/2020)

Endress+Hauser SE+Co. KG

Hauptstrasse 1 79689 Maulburg, Germany ISO 9001 Certified by SQS

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

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

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

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

Endress+Hauser Yamanashi Co., Ltd.

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

Endress+Hauser (USA) Automation Instrumentation Inc.

2340 Endress Place Greenwood, Indiana 46143, USA

ISO 9001 Certified by SQS

Endress+Hauser (Brazil) Instrumentação e Automação Ltda.

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

Endress+Hauser SE+Co. KG

Queremathe 2 14532 Stahnsdorf Germany ISO 9001 Certified by SQS

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



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

28 September 2021

TSSA 345 Carlingview Drive Toronto, ON M9W 6N9

Dear Tanya Francis

Re: Reciprocal CRN Registration in Manitoba

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

File Number: 74-R1832 CRN: 0F23358.54

Scope: SOR: Doc No 961005216 Sheets 1-3 and List of Manufacturing Locations

Manufacturer: Endress + Hauser GmbH + Co KG

Expiry Date: 20 July 2031

Please find attached invoice for registration.

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

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

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

Inspection and Technical Services Municipal Relations 508 - 401 York Avenue, Winnipeg Manitoba R3C 0P8 T (204) 945-3373 | F (204) 948-2089



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

www.tssa.org

July 20, 2021

ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 8020309 Your Reference No.: R-1301

Registered to: ENDRESS + HAUSER GMBH + CO KG

Dear SCOTT ISLIP,

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

CRN: 0F23358.5

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

Expiry Date: Jul 20, 2031

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

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

Yours truly,

Ruiming You Engineer, BPV

Tel.: +1 416-734-3428 Email:ryou@tssa.org



Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

Endress + Hauser

L CHRISTOPHER PROIOS, DIVISION MANAGER QUALITY MANGEMENT (Name and Position, e.g. President, Plant Manager, Chief Engineer) of ENDRESS+HAUSER SE+Co. KG Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX (Plant Address) (Telephone No.) do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3, ASME B31.1 (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service; or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service. I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 which has been verified by the following authority, SQS The items covered by this declaration, for which I seek registration, are category F - Ceramic Pressure Devices type fittings. In support of this application, the following information and/or test data are attached as follows: SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS (drawings, calculations, test reports, etc.) Declared before me at

STATUTORY DECLARATION **Registration of Fittings**

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

day of AD 20 .

CRN:

(Printed name)

(Signature)

Registered by:

NOTE: This registration expires on: JULY 20, 2031

Technical Standards Authority

(Signature of Declarer)

Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0F23358.5

See scope of registration, and manufacturers' site list.

The registration of Information and Privacy Protection Actaind may be disclosed upon request.

V 09553 (04/17)

Dated:

Commissioner for Oaths:



WORLDWIDE LOCATIONS APPENDIX

THIS IS PART OF CRN

0F23358.5

Technical Standards and Safety Authority

ENDRESS+HAUSER SE+Co. KG MANUFACTURING LOCATIONS and Secretary Control of Cartifolisms and Certifying Authorities

(rev. 22/Jan/2020)

Endress+Hauser SE+Co. KG

Hauptstrasse 1 79689 Maulburg, Germany ISO 9001 Certified by SQS

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

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

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

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

Endress+Hauser Yamanashi Co., Ltd.

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

Endress+Hauser (USA)

Automation Instrumentation Inc.

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

Endress+Hauser (Brazil)

Instrumentação e Automação Ltda.

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

Endress+Hauser SE+Co. KG

Queremathe 2 14532 Stahnsdorf Germany ISO 9001 Certified by SQS

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People for Process Automation

THIS IS PART OF CRN Page 1 of 3 0F23358.5 Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

Doc. #961005216

SCOPE OF CRN REGISTRATION

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

PRODUCT DESCRIPTION

Report		Process Connection	MAWP (Barg)		
Number	Drawing	Size and Type	at MAWT (°C)	MDMT	Type
R-1301A	961002417	Thread ISO228 G1/2 EN837,	40 barg at 150°C	-40°C	
	Modular Thread	Thread ISO228 G1/2 G1/4 female,			(O)DMO54(D)
	Adapter Assembly	Thread ISO228 G1/2 hole 11.5 mm,			(O)PMC51(B)
	Sensors C5/C8	Thread ANSI MNPT 1/4" hole 3.0 mm,			(O)PMC71(B) (O)PMC53(B)
		Thread ANSI MNPT 1/2" hole 3.0 mm,			(O)PMC63(B)
		Thread ANSI FNPT 1/2"			(O)PMC73(B)
		Thread ANSI MNPT 1/2" FNPT 1/4"			(O)FMD71
		Thread ANSI MNPT 1/2" hole 11.5 mm,			(O)PMD71B
		Thread M20 EN837			()
		Thread M20 hole 11.4 mm			
R-1301B	961002414	2" ASME BPE / ISO 2852 Clamp Ferrule,	40 barg at 150°C	-40°C	
	Standard Assembly	2-1/2" ASME BPE / ISO 2852 Clamp Ferrule,			
	Short	3" ASME BPE / ISO 2852 Clamp Ferrule,			
	Sensors C5/C8	3-1/2" ISO 2852 Clamp Ferrule,			
		4" ASME BPE / ISO 2852 Clamp Ferrule,			
		Varivent N			
		Bio Control DN65,	16 barg at 150°C		(O)PMC51(B)
		Bio Control DN80			(O)PMC71(B)
		ASME B16.5 Flanged Class 150	19.0 barg at 38°C		(O)PMC53(B)
		Size 1" and larger	18.4 barg at 50°C		(O)PMC63(B)
			16.2 barg at 100°C		(O)PMC73(B)
		AOME D40 5 El 1 OL 000	14.8 barg at 150°C		(O)FMD71
		ASME B16.5 Flanged Class 300	40.0 barg at 38°C		(O)PMD71B
		Size 1" and larger	40.0 barg at 50°C		
			40.0 barg at 100°C		
			40.0 barg at 130°C		
		ASME B46 & Florged Class 600	38.5 barg at 150°C		
		ASME B16.5 Flanged Class 600	40.0 barg at 150°C		
R-1301C	961002415	and higher Size 1" and larger 1-1/2" ASME BPE / ISO 2852 Clamp Ferrule,	40 barg at 150°C	-40°C	
K-1301C		Varivent F,	40 barg at 150 C	-40 C	(O)PMC51(B)
	Standard Assembly Long	Thread ANSI MNPT 1-1/2",			(O)PMC71(B)
	Sensors C5/C8	Thread ANSI MNPT 2",			(O)PMC53(B)
	06113013 03/00	Thread ISO228 G1-1/2,			(O)PMC63(B)
		Thread ISO228 G2			(O)PMC73(B)
		Thread 130226 G2	25 barg at 150°C		(O)FMD71
		Bio Control DN50	16 barg at 150°C		(O)PMD71B
		סטוווטן סוועוטט	TO bary at 130 C	<u> </u>	

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Technical Standards and Safety Authorit Boilers and Pressure Vessels Safety

Program

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PRODUCT DESCRIPTION CONTINUED

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

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

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

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

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

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F23358.5 Fechnical Standards and Safety Aut

Note 2 continued

Doc.

- Forged Alloy 20 ASTM B366 UNS N08020

#961005216

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

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

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

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

Note 6: The Clamp Ferrule and Varivent connection shall be used with a clamp, however the assembly clamp is not part of this CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. The clamp used to complete the joint shall have its own CRN and shall have pressure-temperature ratings the same or higher than the product ratings.

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

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

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

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



Montréal, 13 octobre 2021.

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

Fabricant: ENDRESS + HAUSER CANADA GMBH + CO. KG

HAUPTSTRASSE 1
MAULBURG GERMANY

DE-79689

Numéro de dossier : 948878

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

Objet: Enregistrement des plans et devis - Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0F23358.56.**

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

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

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

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

Montréal

545, boul. Crémazie Est, 7ième étage Montréal (Québec) H2M 2V2 Téléphone : 514 873-6459 Sans frais : 1 866 262-2084

www.rbq.gouv.qc.ca



Direction générale de l'inspection

Montréal, le 13 octobre 2021.

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

Manufacturer: ENDRESS + HAUSER CANADA GMBH + CO. KG

HAUPTSTRASSE 1 MAULBURG GERMANY

DE-79689

OUR REFERENCE: 948878

SCOPE OF REGISTRATION Design number :

Subject: Design registration confirmation

Hi.

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): 0F23358.56.

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the Manufacturer's Data Report to us for each equipment manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the Manufacturer's Data Report for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

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

Montréal

www.rbq.gouv.qc.ca



Statutory Declaration Registration of Fittings

Building Act (B-1.1) Regulation respecting pressure vessels (B-1.1, r. 6.1) Boiler, pressure vessel, and pressure piping code (CSA B51)

This declaration must be filled out and sent to the Régie du bâtiment du Québec (RBQ) by pressure fitting manufacturers when they make an application registration for fittings.

For more information on the application registration for fittings, consult the www.rbg.gouv.qc.ca/fittings-pv.

1. Fittings to register

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

Nº	Description	Additional information (detail, calculations or approval sheets)
1	SCOPE OF CRN	
2	REPORTS	
3	DRAWINGS	
4	CALCULATIONS	Endroce L Hauser 7
5	COMPANY LOGO - SEE RIGHT	Endress + Hauser Little

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.

I, the undersigned,		Christop	her Proios	Division Manager Quality Management		
		(Name of the pe	rson in charge)	(Title of the person in charge)		
from	Endress	+Hauser SE+Co.KG	, located at	See Attached Worldwide Locations Appendix		
	(Co	mpany's name)		(Plant's address)		
hereb	y declare tha	t the above-mentioned fitt	ings and subject to th	ne Regulation respecting pressure installations:		
or AS	mply with the SME B31.1,	e requirements of the ANS B31.3	SI/ASME codes as to	their dimensions, identification, material and purpose		
ar	e not covered	by the ANSI/ASME code	s, but are in complian	nce with		
☐ an	e not covered		es, but are in complian	(Name of code or standard)		
		d by the ANSI/ASME code				
code	or standard a	d by the ANSI/ASME code		(Name of code or standard)		
code (or standard a	d by the ANSI/ASME code and are designed according	g to the best current	(Name of code or standard) engineering practice, as proven by the enclosed approval report.		
code o	or standard a	and are designed according g quality control at the manufacture of these	g to the best current	(Name of code or standard) engineering practice, as proven by the enclosed approval report. by a quality control program that complies with the requirements of the		
2.2 Ma	or standard a anufacturing	and are designed according g quality control at the manufacture of these	g to the best current	(Name of code or standard) engineering practice, as proven by the enclosed approval report. by a quality control program that complies with the requirements of the		

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):

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

As far as I know, this application complies with the requirements accepted for registration in the class	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 registra	ation indicated above, and it must be validated again after this period.
Canadian registration number (CRN): Canadian re	Registration date (yyyy-mm-dd):
Record of conciliation ME	

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@rbg.gouv.qc.ca.

Documents must be in PDF format and in separate files.



WORLDWIDE LOCATIONS APPENDIX

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

(rev. 22/Jan/2020)

Endress+Hauser SE+Co. KG

Hauptstrasse 1 79689 Maulburg, Germany ISO 9001 Certified by SQS

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

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

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

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

Endress+Hauser Yamanashi Co., Ltd.

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

Endress+Hauser (USA)

Automation Instrumentation Inc.

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

Endress+Hauser (Brazil)

Instrumentação e Automação Ltda.

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

Endress+Hauser SE+Co. KG

Queremathe 2 14532 Stahnsdorf Germany ISO 9001 Certified by SQS



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

	New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Island	Ne	wfoundland and Labrador	
1			Northwest Territories			
•		ENDRESS+HAUSER SE+Co. KG SS:SEE ATTACHED WORLD				
1		TACHED WORLDWIDE LOCATIO	X			
	Category of	Fittings to be registered	d. Circle one Category on	Iv	Title of the Standard of	
-	A Pipe fittings, including co	ouplings, tees, elbows, Ys, plu	cers	Construction		
	B Flanges: all flanges C Valves: all line valves					
	D Expansion joints, flexible	connections, and hose asse		ASME D24.2		
	Strainers, filters, separat	ors, and steam traps ding pressure gauges, level g	r proceuro	- ASME B31.3		
	transmitters				- ASME B31.1	
	G Certified capacity-rated p boilers, pressure vessels	ressure relief devices accepta , piping and fusible plugs	able as primary over pressure p	protection on		
	H Pressure retaining comp	onents that do not fall into on	e of the above categories			
	N Nuclear components: C	Class 1 Class 2 Class	3 ☐ , (Meeting CNSC or ASME	requirements)		
	Show Manufacturers N	ame, Trademark, or Log	o as it will appear on the p	oroduct	Type of Construction	
					Forged Welded Wrought Cast Other	
	Indra	ss+Hai	ICOr II		Describe other:	
	LIIUIC.	33 T 1 1 a 1	USCI	ш	CERAMIC	
	List of supporting doc	montation and identifie	ation of the actual items to			
	- CERAMIC PRES	SURE DEVICES S	COPE OF CRN REG	SISTRATIO	N, REPORTS, DRAWINGS,	
	CALCULATIONS.					
-						
-						
	DIVISIO	N MANAGER				
	Declaration: QUALITY	Y MANAGEMENT	oved by Endress+Hauser S	SE+Co.KG	being the person having full authority	
		quality of the end product of	do solemnly declare that the	information co	ntained in this form is true to the best of	
-	my knowledge represents	the product for which regi	stration is sought. The dime	ensions, materi	als of construction, pressure temperature	
	ratings, and identification i fittings is regulated by a O	markings are in accordance	ce with the herein named sta	andards. I furth	er declare that the manufacture of these occurs in whole or in part and has been	
9	verified by sas iso 9001	as bei	ng suitable for that purpose	and I make this	s solemn declaration conscientiously	
-	believing it to be true, and	knowing that it is of the sa	ame force and effect as if rha	ade under oath		
	Signature of Declarer: 1	1.0	03. Mai 2021			
-	Declared before me at	'			New 52 Nouveaus	
•	This day of _	AD			ace for the Official Seal	
(Commissioner of Oaths				OF JUSTICE PUBLIC SAFETY	
(Or Notary Public: (sign)			BOILER & PRESSURE VESSELACT		
		(Affix Official seal to the righ	ht)	REGISTRATION ONLY		
1	***************************************	Th	nis space for Regulatory Author	ity use. CR	0F23358,57	
	0E22250 5	This registration must be	revalidated after ten (10) years	from the date of	acceptance.	
	CRN: 0F23358.5	BANGE CIN			No O	
	FID#: 15708				HEE BOYER DOCUMENT	
	Gerabar Types: Cerar	mic OPMC51, OPMC5	51B, OPMC53B,	Ci	HIEF BOILER INSPECTOR	
	All Fittings shall be register	C63B, PMC51, PMC51 pred in the name of the Manufactu	IB,(Cont'd below)	D/	ATE 7/29/21	
	Each Category shall be su and one copy of supporting	pported with two Statutory Declar	ration forms		AND AND THE PARTY.	
	3. The Declaration shall be n	nade by the person having full aut	thority and	BLRs	□PVs	
	responsibility for the qualit 4. Quality Control programs:	y of the end product. shall be resubmitted for validation			20 FAULULEAR SOLIROUS	
	, , ,	MC63B, OPMC71, OPI		FITTING	Sect 1.0 - Fittings Rev.2	
	OPMC73B, PMC71. F	PMC71B, PMC73B, O	FMD71,			
1	OPMD71B, FMD71, F	MD71BP. 7 Plant faci	ilities			
1	CRN expires July 20th	n, 2031 - DG				

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

	New Brunswick Nunavut	Nova Scotia	Prince Edward is	aland bi		
V.		Yukon	Northwest Territ		ewfoundland and Labrador	
A	Manufacturers Nam	18: ENDRESS+HAUSER SE+Co.	. КС			
Manufacturers Address: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX Plant Locations: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX						
-						
۲	A Pipe fittings, including B Flanges: all flanges C Valves; all fine valves	of Fittings to be registe couplings, tees, elbows, Ys,	, plugs, unions, pipe caps, o	or reducers	Title of the Standard of Construction	
	E Strainers, filters, sepa E Measuring devices. In	ble connections, and hose a rators, and steam traps cluding pressure gauges, lav	•	wels, or pressure	- ASME B31.3 - ASME B31.1	
	boilers, pressure vess	d pressure reliaf devices acc els, piping and fusible plugs reponents that do not fall into		•		
- 1		Class 1 Class 2 Cla				
-	Show Manufacturers	Name, Trademark, or L	ogo as it will appear of	the product	Type of Construction	
	-	ss+Ha		3	Forged II Welded II Wrought III Cast c Other II Describe other:	
-		cumentation and identi			CERAMIC	
1						
i	CALCULATIONS		SCOPE OF CRN	REGISTRATIC	ON, REPORTS, DRAWINGS,	
- Automatical Control						
m ra fit	eclaration: QUAL CHRATOHER PROIDS of responsibility for the y knowledge represent itings, and identification tings is regulated by a artified by \$23,80,9001	is the product for which it markings are in accorda Quality Control Program	igistration is sought. The ince with the herein near which extends to each p who suitable for that no	e dimensions, mate led standards. I furt lant where fabrication	od being the person having full authority contained in this form is true to the best of risks of construction, pressure temperature her declare that the manufacture of these on occurs in whole or in part and has been its solemn declaration conscientiously	
		id knowing that it is of the	same force and effect a	s if made under oat	h.	
Şi	gnature of Declarer: 🗋	Vice	03. Mai 202	.1		
D	eclared before me at _					
Th	nis day o	AD AD	*****	Usa this s	pace for the Official Seal	
C	ommissioner of Oaths					
O	Notary Public: (sign)		Substituti variani provinci pr			
		(Affix Official seal to the		7-2-7-2		
-		This moistration must	This space for Regulatory in the revalidated after ten (10)		Company	
0	CRN: 0F23358.5	The Tolling and Street	be revalidated after ten (10	EX BOTTON	BOAR Value	
	15708	on the state of th		Other Move of Date Sept	ATTO ATTO	
G	erabar Types: Cera	amic OPMC51, OPMC	051B, OPMC53B, 51B (Copt'd below)	C.R.N. O Fa3	1.94/21 C	
2		supported with two Statutory Dec		Dwg. as de	scribed	
3		made by the person having full	authority and	Signed System		
4		s shall be recubmitted for validati	ion.		_ / }	
0	PMC73B, PMC71,	MC63B, OPMC71, O PMC71B, PMC73B, 6 PMD71BP. 7 Plant fa th, 2031 - DG	OFMD71,	Par REGU	TLATION Sect 1.0 - Fittings Rev.2	

UNIFORM	A STATIITADV DECLA	APATION FORM FOR	THE DECIOYD AN	TION OF FITTING DESIGNS
UNIFORM New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Is Northwest Territo	land N	ewfoundland and Labrador
Manufacturers Nan	ne: ENDRESS+HAUSER SE+Co	, KG		
	ress:SEE ATTACHED WOR		ENDIX	
Plant Locations; see	ATTACHED WORLDWIDE LOCA	ATIONS APPENDIX		
A Pipe fittings, including B Flanges: all flanges C Valves; all fine valves		, plugs, unions, pipe caps, o	ry only reducers	Title of the Standard of Construction
E Strainers, filters, sepa	lble connections, and hose a erators, and steam traps actuding pressure gauges, lev		rels, or pressure	- ASME B31.3 - ASME B31.1
G Certified capacity-rate boilers, pressure vess	ed pressure relief devices acc sels, piping and fusible plugs mponents that do not fall into			
N Nuclear components:	Class 1 Class 2 Cla	ass 3 D , (Meeting CNSC or	ASME requirements)	
Endre Endre	2SS+Ha	Type of Construction Forged Welded Wrought Cast a Other C		
List of supporting do	ocumentation and identi	fication of the actual ite	ms to be registere	<u>d:</u>
- CERAMIC PRE	ESSURE DEVICES).	SCOPE OF CRN I	REGISTRATIO	N, REPORTS, DRAWINGS,
Declaration: QUAL 1 CHRISTOPHER PROIOS and responsibility for the my knowledge represent ratings, and identification fittings is regulated by a verified by sostosom	e quality of the end product its the product for which re in markings are in accorda Quality Control Program as the knowing that it is of the	ct do solemnly declare that egistration is sought. The ance with the herein name which extends to each pla being suitable for that pur	at the information co dimensions, mater ed standards. I furth ant where fabricatio pose and I make thi s if made under oath	d being the person having full authority ontained in this form is true to the best of ials of construction, pressure temperature her declare that the manufacture of these n occurs in whole or in part and has been is solemn declaration conscientiously i.
This day o	fAD		Hea this er	pace for the Official Seal
Commissioner of Oaths		SECONOMIC PROPERTY AND A STATE OF THE SECONOMIC PROPERTY AND A STATE O	जन्म साव व ्	See the mid Churtan 1989i
Or Notary Public: (sign)		THE STATE OF THE S		
	(Affix Official seal to the r	right)		
	This registration must be	This space for Regulatory A be revalidated after ten (10)	uthority use,	
CRN: 0F23358.5			ACCI	EPTED CE EDWARD ISLAND
FID#: 15708 Cerabar Types: Cera OPMC63, OPM	amic OPMC51, OPMC MC63B, PMC51, PMC	C51B, OPMC53B, CO	MMUNITIES, LA	ND & ENVIRONMENT
	supported with two Statutory Dec	claration forms	TE: Soot	24 2021
	made by the person having full	authority and	Senne	McColon.
4. Quality Control programs shall be resubmitted for validation. INSPECTION SERVICES SECTION				
OPMC73B, PMC71,	MC63B, OPMC71, O PMC71B, PMC73B, O PMD71BP. 7 Plant fa th. 2031 - DG	OFMD71,	BOILER/PRESSUI	RE VESSEL BRSENCH Fillings 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:SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX 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 Construction B Flanges: all flanges C Valves; all line valves D Expansion joints, flexible connections, and hose assemblies: all types - ASME B31.3 E Strainers, filters, saparators, and steam traps (F)Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure - ASME B31.1 transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ , (Meeting CNSC or ASME requirements) Show Manufacturers Name, Trademark, or Logo as it will appear on the product Type of Construction Forced # Welded # Cast o Other A าdress+Hauser Describe other: CERAMIC List of supporting documentation and identification of the actual items to be registered: - CERAMIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS. CALCULATIONS. DIVISION MANAGER Declaration: QUALITY MANAGEMENT 1 CHRISTOPHER PROIOS (see note 3) employed by Endress+Hauser SE+Co.KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been 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. 03. Mai 2021 Signature of Declarer: Declared before me at

This	day of	AD	Use this space for the Official Seal			
Commissio	ner of Oaths					
Or Notary F	Public: (sign)					
	(Affix O	flicial seal to the right)				
	······································	This space for Regulatory	Authority use.			
		registration must be revalidated after ten (1	0) years from the date of acceptance	e. #37.		
1	5708		E .	Newfoundland Labrador		
		MC51, OPMC51B, OPMC53B, 2MC51, PMC51B, (Cont'd below)	Regist	Service NL ered DF 23350.50		
2. Each C and on	ategory shall be supported w e capy of supporting docume:	ith two Statutory Declaration forms station.	Date_	ering and Inspection Services		
	iclaration shall be made by th sibility for the quality of the en	s person having full authority and d product.	Regis	tered by K. May		
4. Quality	Control programs shall be re-	submitted for validation.	ING	DER THE AUTHORITY OF THE		
OPMC73	B, PMC71, PMC71	OPMC71, OPMC71B, B, PMC73B, OFMD71, 3P, 7 Plant facilities	THE B	PUBLIC SAFETY AND AND OILER, PRESSURE VESSEL AND PRESSED GAS REGULATIONS		

CRN expires July 20th, 2031 - DG

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: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX 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 Construction B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies; all types - ASME B31.3 Strainers, filters, separators, and steam traps

(F)Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure Strainers, filters, separators, and steam traps - ASME B31.1 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 # Forged & Cast p Other a ndress+Hauser Describe other: CERAMIC List of supporting documentation and identification of the actual items to be registered: - CERAMIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS. CALCULATIONS. DIVISION MANAGER CHRISTOPHER PROIOS _(see note 3) employed by Endress+Hauser SE+Co.KG and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by sos iso soon 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. Mai 2021 Signature of Declarer: Declared before me at Use this space for the Official Seal This 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 CRN: 0F23358.5 15708 FID#: Cerabar Types: Ceramic OPMC51, OPMC51B, OPMC53B, 1. All Fittings shall be recistored in the name of the Manufacturer. (Cont'd below) 0F23358.5Y 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 09/27/2021 responsibility for the quality of the end product.

Quality Control programs shall be resubmitted for validation.

CRN expires July 20th, 2031 - DG

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

1					
1	UNIFOR	STATUTORY DECLA	ARATION FORM F	OR THE REGISTRA	TION OF FITTING DESIGNS
1	New Brunswick Nunavut	Nova Scotia Yukon	Prince Edwa Northwest To	A bnslal br	lewfoundland and Labrador
	Manufacturers Nan	THE: ENDRESS+HAUSER SE+Co	. KG	-	,
	Manufacturers Add	ress:SEE ATTACHED WOR	RLDWIDE LOCATIONS	APPENDIX	
		ATTACHED WORLDWIDE LOCA			
c	# A Pipe fittings, including B Flanges: all flanges C Valves: all fine valves D Expansion joints, flex D Expansion joints, flex D Expansion joint	y of Fittings to be registe g couplings, tees, elbows, Ye, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	, plugs, unions, pipe ce	tegory only ps, or reducers	Title of the Standard of Construction - ASME B31.3
	(F)Measuring devices, in	icluding pressure gauges, lev	rei gauges, sight glasse	s, levels, or pressure	- ASME B31.1
	H Pressure retaining co	d pressure relief devices acc els, piping and fusible plugs mponents that do not fall into	one of the above cate	gories	
	N Nuclear components:	Class 1 Class 2 Clas	ss 3 🗆 , (Meeting CNS	C or ASME requirements)	
Endress + Hauser Type of Construction Forged & Welded & Wrought Cast to Other & Describe other; CERAMIC					
	List of supporting do	cumentation and identif	lication of the actua	l items to be registere	d:
Annual Printers of the second	- CERAMIC PRE CALCULATIONS	ESSURE DEVICES	SCOPE OF CF	RN REGISTRATIO	N, REPORTS, DRAWINGS,
-				To be an interest of the design of the desig	
日田市市が	Jeclaration: QUAL CHRISTOPHER PROIOS Ind responsibility for the ty knowledge represent alings, and identification titings is regulated by a cerified by sessoom	r quality of the end product is the product for which re n markings are in accorda Quality Control Program v	it do solemnly declar gistration is sought, nce with the herein r which extends to eac eing suitable for that same force and effe	e that the information of The dimensions, mater ismed standards. I furil it plant where fabricatio I purpose and I make th of as if made under oath	d being the person having full authority ontained in this form is true to the best of ials of construction, pressure temperature er declare that the manufacture of these n occurs in whole or in part and has been is solemn declaration conscientiously i.
S	ignature of Declarer: 🔒	11.	03. Mai 2	021	
	eclared before me at _	0			
		AD_		Use this sr	ece for the Official Seal
	ommissioner of Oaths			•	
0	r Notary Public: (sign)				
		(Affix Official seal to the ri	ight}	_	
Γ	and the second s		This space for Regulato		
1		This registration must b	e revalidated after ten	(10) years from the date of	*saggiffine

163.00

Rev.2

Northwest Territories

REGISTERED

UNDER THE AUTHORITY OF
THE BOILER AND PRESSURE

VESSEL ACT

C.R.N. OF233585

DATE OC+ 5 2021

Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.

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

The Declaration shall be made by the person having full authority and responsibility for the quality of the and product.

4. Quality Control programs shall be resubmitted for validation.

CRN: 0F23358.5

FID#:

15708

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

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

	New Brunswick Nunavut	Nova Scotia Yukon	Prince Edward Isla Northwest Territoric		wfoundland and Labrador
1	Manufacturers Name:	ENDRESS+HAUSER SE+Co. KG			
		S:SEE ATTACHED WORLDW	XION		
	A Company of the Comp	TACHED WORLDWIDE LOCATIONS			
A Pipe fittings including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or re B Flanges: all flanges C Valves: all fine valves D Expension joints, flexible connections, and hose assemblies: all types E Strainers, fitters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, level transmitters					Title of the Standard of Construction
				s, or pressure	- ASME B31.3 - ASME B31.1
	G Certified capacity-rated p boilers, pressure vessels,	ressure relief devices acceptab , piping and fusible plugs onents that do not fall into one	ire protection on		
	N Nuclear components: C	ines 1 [] Class 2 [] Class 3	T. (Meeting CNSC or AS	MF requirements)	
N Nuclear components: Class 1 Class 2 Class 3 C. (Meeting CNSC or ASME or Show Manufacturers Name, Trademark, or Long as it will appear on the present					Type of Construction Forged & Welded & Wrought & Cast o Other & Describe other: CERAMIC
	List of supporting docu	mantation and identificat	ion of the actual Item	s to be registered	1:
- CERAMIC PRESSURE DEVICES SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS CALCULATIONS.					N, REPORTS, DRAWINGS,
· Charles and the Control of the Con			All 1		
1 1 1 1	Declaration: QUALITY CHRISTOPHER PROTOS and responsibility for the quity knowledge represents ratings, and identification in titings is regulated by a Quentified by seems were petitived by seems were petitived in the beautification in the control of the contro	uality of the end product do the product for which regist narkings are in accordance uality Control Program which as being knowing that it is of the sam	solemnly declare that ration is sought. The c with the herein named h extends to each plar a suitable for that purpose force and effect as i	the information oo ilmensions, materi i standards. I furth at where fabrication	I being the person having full authority intained in this form is true to the best of als of construction, pressure temperature are declare that the manufacture of these in occurs in whole or in part and has been a solemn declaration conscientiously
-	Signature of Declarer: 👊	1.0	03. Mai Zuzi		
	Declared before me at		without the Addition of the Contract of the Co		
1	This day of _	AD	and a district of the Control of the	Use this sp	pace for the Official Seal
(Commissioner of Oaths				
(Or Notary Public: (sign)			,	
-	FAALA	(Affix Official seal to the right)			NUNAVUT
-		This registration must be re	space for Regulatory Au validated after ten (10) y	part factor the date of	acceptance. Boilers and
-	CRN: 0F23358.5	_		Nunavut	Pressure Vessels Act
-	FID#: 15708				REGISTERED
K	Cerabar Types: Ceram OPMC63_OPMC	nic OPMC51, OPMC51 C63B, PMC51, PMC518	B, OPMC53B, (Cont'd below)		23358.5 N
VIII SALVANIANIANIANIANIANIANIANIANIANIANIANIANIA	2. Each Category shall be sup	pported with two Statutory Declarati		CRN_CF	34.2021
STATE OF PERSONS	and one copy of supporting 3. The Declaration shall be m	ade by the person having full author	irity and	Date Sep-	7.
-	responsibility for the quality	of the end product. hall be resubmitted for validation.		Signed	- C7
Balle	PMC53B, PMC63, PM	C63B, OPMC71, OPM	C71B,	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Chief inspector - Fittings Rev.2
XX	OPMC73B PMC71. P	MC71B, PMC73B, OFF MD71BP. 7 Plant facility	MD71,	Territo	rial Registration Fee