

ENDRESS + HAUSER WETZER GMBH + CO KG
OBERE WANK 1
87484 NESSELWANG
GERMANY D-87484

Date: February 25, 2021
Account #: 59105
Journal #: 77488

Attn: ANDREAS MICIELI

Re: Application for Design Registration

The design, as detailed in your, TT412 reciprocal addendum, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS + HAUSER WETZER **CRN:** 0F17572.51
GMBH + CO KG

Drawing #: SOR TW-E+H

Drawing Revision: 0

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:

SOR: Addition of Thermowell TT412, DWG. No. 10000008805 - see Statutory Declaration for full SOR.

As required by CSA B51 4.2.1, this registration expires on 02-Apr-2025. 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# 0F17572.ADD1 registration shall apply to BC registration.

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

Emilia Tam

emilia.tam@technicalsaftybc.ca
Design Administration

cc:



the pressure equipment safety authority

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

March 28, 2019

Attention: Scott Islip
ROUND ENGINEERING INC
10 SEGWUN ROAD
WATERDOWN, ON L8B 0K6

Email: scott.islip@roundeng.com

The design submission, tracking number 2019-01599, originally received on March 05, 2019 was surveyed and accepted for registration as follows:

CRN : 0F17572.52

Accepted on: March 28, 2019

Reg Type: NEW DESIGN

Expiry Date: April 02, 2025

Drawing No. : SCOPE OF REGISTRATION SUMMARY

Fitting type: THERMOWELL TT411 & TT412

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

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

- It is our understanding that the fittings shall be pressure tested in accordance with the Code of construction prior to initial operation.

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

- 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 3382 or fax (780) 437-7787 or e-mail Stojanovic@absa.ca.

Sincerely,

STOJANOVIC, STEVAN, P. Eng.
DOP Cert. No. D00008849

URN: M00063 2019

Alberta Municipal Affairs

ABSA
the pressure equipment safety authority
AB-41 2016-01

STATUTORY DECLARATION
Registration of Fittings

I, Bernd Kunert, Quality Manager
(name of applicant) (position title) (must be in a position of authority)

of Endress + Hauser Wetzler GmbH+Co KG
(name of manufacturer)

located at Obere Wank 1, DE-87484 Nesselwang, Germany
(plant address)

In this space, show facsimile of
manufacturer's logo or trademark
as it will appear on the fitting.

Endress+Hauser 

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act
(check one)

☐ comply with the requirements of _____ which specifies the dimensions,
(title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, or
☒ are not covered by the provisions of a recognized North American standard and are therefore manufactured
to comply with ASME B31.3, ASME Bioprocessing Equipment as supported by the attached
(title of code of construction or other applicable document)
data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis
for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been
verified by the following authority, SQS (ISO 9001) as being suitable for the manufacture of these
fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

Category F

(brief description of fittings)

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

DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN

DECLARED before me at Nesselwang in the Germany of _____
(city) (province or state)
this 15 day of January, 2019
(Month) (Year)

(print) _____
(a Commissioner of Oaths or Notary Public)

(sign) _____
(a Commissioner of Oaths or Notary Public)


(signature of applicant)

For ABSA Office Use Only:

NOTES: _____

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA
Standard B51, Clause 4.2, and is accepted for registration in Category F

Registration Number: OF 17572.52

STEVAN STOJANOVIC
(Signature of the Administrator/SCO)

Date Registered: MAR 28 2019

Expiry Date: April 02, 2025

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.

URNr. M00063 /2019

(M/cw)

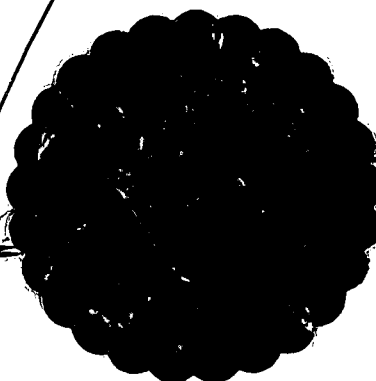
I hereby certify that the above standing is the true signature, signed before me of

Mr. Bernd Josef KUNERT,
born on the 22nd of December 1962,
resident 87466 Oy-Mittelberg, Hauptstr. 29,

personally known to me.

Nesselwang, the 15 of January 2019


Dr. Hans Michael Malzer, notary



OF 17572.52

Scope of Registration Summary

Product: Sanitary Thermowells Code: ASME B31.3

Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805

Catalogue: iTHERM TT411, TT412

SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS

REGISTRATION NO. **0F17572.52**DWG. NO. or CAT. NO. **Scope of Registration Summary**TYPE OF FITTINGS **Thermowells TT411 & TT412****MAR 28 2019**

Date

INITIALS

STEVAN STOJANOVIC, P.Eng.
DESIGN SURVEY ENGINEER

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Tri-Clamp Sanitary Ferrule [1]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN8-18 (0.5"-0.75")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN12-21.3 (1/2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25-38 (1"-1.5") DN40-51 (2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN63.5 (2.5"), DN70-76.5 (3")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN32, DN40, *DN50	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Spherical- Cylindrical Weld-in adapter [3]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x D40mm OF 17572.52	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Spherical Weld-in adapter [3]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	D25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Cylindrical Weld-in adapter [3]	10000007051 10000007052 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x 40mm (D1" NPS) D1/2" NPS, D3/4" NPS	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Weld-in adapter	10000007051	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D12 x 40mm	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
ISO228 Thread-in adapter	10000007051 10000007052 [2]	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G3/8 M12x1 metal-to-metal G1/2 metal-to-metal	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
ISO228 Thread-in adapter	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G1 for FLT50 G3/4 for FLT50 G3/4 for FLT20	40 bar [6] (580 psi)	-40 to 500 °C (-40 to 932 °F)
Type B Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	31 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Type F, N Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	50 mm, 68 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)
DN11864-1-A [1]	10000007052	A276/A479 316L A269 TP316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN40	40 bar (580 psi)	-40 to 500 °C (-40 to 932 °F)
SMS1147	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN38, *DN51	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
APV	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN50 0F17572.5	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Ingold	10000007052	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	Ø25mm x 30mm Ø25mm x 46mm	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Neumo Biocontrol	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D25, D50, D65	16 bar (232 psi)	-40 to 600 °C (-40 to 1112 °F)

NOTES:

- [1] Ferrule supplied exactly as per drawing indicated in table above. Clamp to be provided by others. Clamp not included. Clamp shall have a valid CRN registered by the clamp supplier and with a pressure rating appropriate to the application but no greater than the ferrule MAWP indicated above. Note that Tri-Clamp is dimensionally compatible with ISO2852 and ASME Bioprocessing Equipment Standards.
- [2] Drawing 10000007052 includes only G1/2 metal-to-metal connection.
- [3] Weld-in adapter provided as per drawing indicated in table above. Weld to be specified by others and the weld pressure equipment/tank/vessel to which the weld-in adapter is attached to be provided by others and separately CRN approved.
- [4] Factory full penetration weld interface between probe and adapter tested. See calculations for further analysis.
- [5] For details of probe lengths and/or instrumentation connections, see respective drawings.
- [6] G1 for FLT50 MAWP 25 bar (362 psi) at max 150 °C (302 °F); G3/4 for FLT50/FLT20 MAWP 40 bar at max 100 °C (212 °F)

OF 17572.52

Approved by: Michael Pfanzelt Title: Approval engineer

Approval Signature: i.A.  Date Signed: 2017-02-19

The above signed declares that the contents of this document are accurate, complete and true.



Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg Manitoba R3C 0P8

T (204) 945-3373

F (204) 948-2309

www.firecomm.gov.mb.ca/codes_steam_pressure.html

April 26, 2017

ENDRESS+HAUSER WETZER GMBH + CO. KG
OBERE WANK 1, NESSELWANG, D-87484
GERMANY

Attn: MICHAEL PFANZELT

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: ENDRESS+HAUSER WETZER GMBH + CO. KG

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
Dwg No. 10000007051, 10000007052, 10000007053, 10000007064 & 1000008805 Catalogue: iTHERM TT411 & TT412.	0F6744.4	37510

An invoice covering survey and registration fees is enclosed.

NOTE: This registration expires **June 9, 2025**.

This registration is valid until the indicated expiry date 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.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Regards,

Ryan Orlesky, C.E.T.

Design Surveyor

Office of the Fire Commissioner

Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg, Manitoba, R3C 0P8

Phone: 204-945-3373

Email: ryan.orlesky@gov.mb.ca

URNr. M00962 12016

MANITOBA

DEPARTMENT OF LABOUR
AND IMMIGRATION
500 - 401 York Avenue
Winnipeg, Manitoba R3C 0P8



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a) Design Qualification

I, Bernd Kunert, Quality Manager
(See Note 2)

Quality Manager

(Position e.g.: president, plant manager, chief eng.)

of Endress + Hauser Wetzer GmbH+Co KG

(Name of company)

located at DE-87484 Nesselwang

(Plant Address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act,

comply with all the requirements of the ANSI/ASME codes as to their dimensions.

or

- ☒ are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with
ASME B31.3; ASME Bioprocessing Equipment code or standard, and are designed to the best current
engineering practice, as shown by the supporting test data.

(b) Quality Control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of
ISO 9001:2008, and has been verified by the following authority or authorized agency SQS

The fittings covered by this declaration, for which I seek registration, are F

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

ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary:
SR-TW-E+H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.

Declared before me at _____ in the province/state of _____ the _____

day of _____ AD 20 _____

A (commissioner for oaths)

Signature of Declarer

(For Official Use Only)

The application is accepted for registration in Category F in accordance with the Boilers and Pressure Vessels Act
and CSA Standard B51.

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

EXPIRES JUNE 9, 2025

Registered Number CRN 056744.4

For the Chief Inspector

Date: April 26, 2017

Notes:

- (1) This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.
- (2) Two completed copies of Statutory Declaration form together with two copies of Catalogs, drawings or Bulletins illustrating above fittings shall be submitted.
- (3) All fittings are required to be registered in the name of the Manufacturer.

URNr. M00962 /2016

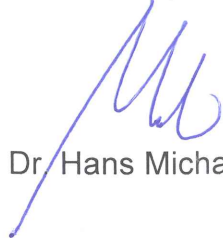
(M/cw)

I hereby certify that the above standing is the true signature, signed before me of

Mr. Bernd Josef KUNERT,
born on the 22nd of December 1962,
resident 87466 Oy-Mittelberg, Haupstr. 29,

identified through presentation of his german identification card.

Nesselwang, the 14th of June 2016



Dr. Hans Michael Malzer, notary public



Scope of Registration Summary

Product: Sanitary Thermowells

Code: ASME B31.3

Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805

Catalogue: iTHERM TT411, TT412



Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Tri-Clamp Sanitary Ferrule [1]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN8-18 (0.5"-0.75")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN12-21.3 (1/2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25-38 (1"-1.5") DN40-51 (2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN63.5 (2.5"), DN70-76.5 (3")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN32, DN40, *DN50	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Spherical- Cylindrical Weld-in adapter [3]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x D40mm	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Spherical Weld-in adapter [3]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	D25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Cylindrical Weld-in adapter [3]	10000007051 10000007052 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x 40mm (D1" NPS) D1/2" NPS, D3/4" NPS	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Weld-in adapter	10000007051	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D12 x 40mm	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
ISO228 Thread-in adapter	10000007051 10000007052 [2]	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G3/8 M12x1 metal-to-metal G1/2 metal-to-metal	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
ISO228 Thread-in adapter	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G1 for FLT50 G3/4 for FLT50 G3/4 for FLT20	40 bar [6] (580 psi)	-40 to 500 °C (-40 to 932 °F)
Type B Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	31 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Type F, N Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	50 mm, 68 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)
DN11864-1-A [1]	10000007052	A276/A479 316L A269 TP316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN40	40 bar (580 psi)	-40 to 500 °C (-40 to 932 °F)
SMS1147	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN38, *DN51	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
APV	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN50	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Ingold	10000007052	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	Ø25mm x 30mm Ø25mm x 46mm	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Neumo Biocontrol	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D25, D50, D65	16 bar (232 psi)	-40 to 600 °C (-40 to 1112 °F)

NOTES:

- [1] Ferrule supplied exactly as per drawing indicated in table above. Clamp to be provided by others. Clamp not included. Clamp shall have a valid CRN registered by the clamp supplier and with a pressure rating appropriate to the application but no greater than the ferrule MAWP indicated above. Note that Tri-Clamp is dimensionally compatible with ISO2852 and ASME Bioprocessing Equipment Standards.
- [2] Drawing 10000007052 includes only G1/2 metal-to-metal connection.
- [3] Weld-in adapter provided as per drawing indicated in table above. Weld to be specified by others and the weld pressure equipment/tank/vessel to which the weld-in adapter is attached to be provided by others and separately CRN approved.
- [4] Factory full penetration weld interface between probe and adapter tested. See calculations for further analysis.
- [5] For details of probe lengths and/or instrumentation connections, see respective drawings.
- [6] G1 for FLT50 MAWP 25 bar (362 psi) at max 150 °C (302 °F); G3/4 for FLT50/FLT20 MAWP 40 bar at max 100 °C (212 °F)

Approved by: Michael PfanzeltTitle: Approval engineerApproval Signature: i.A.Date Signed: 2017-02-19

The above signed declares that the contents of this document are accurate, complete and true.



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 23, 2017

MICHAEL PFANZELT
ENDRESS + HAUSER WETZER GMBH+CO. KG
1 OBERE WANK
NESSELWANG D-87484
DE

Service Request Type: BPV-Fitting Registration

Service Request No.: 2035260

Your Reference No.: ITherm TT411, ADDENDUM ITherm TT412

Registered to: ENDRESS + HAUSER WETZER GMBH+CO. KG

Dear MICHAEL PFANZELT,

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

CRN No.: 0F17572.ADD1

Main Design No.: Addition of Thermowell TT412, Dwg. No. 10000008805 Page 1-4 (see the attachment to the Statutory Declaration Form for full scope of registration)

Expiry Date: 02-Apr-2025

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,

Mark Valcic P. Eng.
Engineer Specialist BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org

URN. M00960 2016



TECHNICAL STANDARDS &
SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4

Endress+Hauser 
People for Process Automation

STATUTORY DECLARATION Registration of Fittings

I, Bernd Kunert, Quality Manager Quality Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Endress + Hauser Wetzer GmbH+Co KG
(Name of Manufacturer)

Located at DE-87484 Nesselwang +49 (8361) 3 08-0 +49 (8361) 3 08-110
(Plant Address) (Telephone No.) (Fax No.)

☐ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(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 ASME B31.3; ASME Bioprocessing Equipment 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 9001:2008 which has been verified by the following authority, SQS

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:

ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary: SR-TW-E+H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.

Declared before me at _____ in the _____ of _____

the _____ day of _____ AD 20_____.

Commissioner for Oaths:

(Printed name)

(Signature)

(Signature of Declarer)

M00960

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 F1.

CRN:

Registered by:

Dated:

NOTE: This registration expires on

APRIL 2, 2025
NOTE: SEE ATTACHED FOUR (4) PAGES DATED FEB 19, 2017 FOR THE SCOPE OF REGISTRATION. ADDITION OF TT412 DWG.# 10000008805 - Mike Mura 23/17

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.

Signed:

Date:

OF17572.5A001
MARK VALCIC, P.ENG.
MARCH 23, 2017

URNr. M00960 /2016

(M/cw)

I hereby certify that the above standing is the true signature, signed before me of

Mr. Bernd Josef KUNERT,
born on the 22nd of December 1962,
resident 87466 Oy-Mittelberg, Haupstr. 29,

identified through presentation of his german identification card.

Nesselwang, the 14th of June 2016


Dr. Hans Michael Malzer, notary public



Scope of Registration Summary

Product: Sanitary Thermowells

Code: ASME B31.3

Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805

Catalogue: iTHERM TT411, TT412

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Tri-Clamp Sanitary Ferrule [1]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN8-18 (0.5"-0.75")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN12-21.3 (1/2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25-38 (1"-1.5") DN40-51 (2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN63.5 (2.5"), DN70-76.5 (3")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)



Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN32, DN40, *DN50	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Spherical- Cylindrical Weld-in adapter [3]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x D40mm	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Spherical Weld-in adapter [3]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	D25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Cylindrical Weld-in adapter [3]	10000007051 10000007052 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x 40mm (D1" NPS) D1/2" NPS, D3/4" NPS	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
Weld-in adapter	10000007051	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D12 x 40mm	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)
ISO228 Thread-in adapter	10000007051 10000007052 [2]	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G3/8 M12x1 metal-to-metal G1/2 metal-to-metal	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
ISO228 Thread-in adapter	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G1 for FLT50 G3/4 for FLT50 G3/4 for FLT20	40 bar [6] (580 psi)	-40 to 500 °C (-40 to 932 °F)
Type B Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	31 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)

THIS IS PART OF
CRN 017572.5 ADD1
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
Wetzel
March 23/17

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Type F, N Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	50 mm, 68 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)
DN11864-1-A [1]	10000007052	A276/A479 316L A269 TP316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN40	40 bar (580 psi)	-40 to 500 °C (-40 to 932 °F)
SMS1147	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN38, *DN51	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
APV	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN50	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Ingold	10000007052	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	Ø25mm x 30mm Ø25mm x 46mm	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Neumo Biocontrol	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D25, D50, D65	16 bar (232 psi)	-40 to 600 °C (-40 to 1112 °F)

THIS IS PART OF
CRN 017572.5 ADD1
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
H. V. V. 23/17
H. V. V. 23/17

NOTES:

- [1] Ferrule supplied exactly as per drawing indicated in table above. Clamp to be provided by others. Clamp not included. Clamp shall have a valid CRN registered by the clamp supplier and with a pressure rating appropriate to the application but no greater than the ferrule MAWP indicated above. Note that Tri-Clamp is dimensionally compatible with ISO2852 and ASME Bioprocessing Equipment Standards.
- [2] Drawing 10000007052 includes only G1/2 metal-to-metal connection.
- [3] Weld-in adapter provided as per drawing indicated in table above. Weld to be specified by others and the weld pressure equipment/tank/vessel to which the weld-in adapter is attached to be provided by others and separately CRN approved.
- [4] Factory full penetration weld interface between probe and adapter tested. See calculations for further analysis.
- [5] For details of probe lengths and/or instrumentation connections, see respective drawings.
- [6] G1 for FLT50 MAWP 25 bar (362 psi) at max 150 °C (302 °F); G3/4 for FLT50/FLT20 MAWP 40 bar at max 100 °C (212 °F)



Endress+Hauser Wetzler GmbH+Co.KG, Obere Wank 1, DE- 87484 Nesselwang

Janet Townsend
CSA International
178 Rexdale Boulevard
Toronto, ON M9W 1R3
Ph: 416.747.4291
Fax: 416.401.6795
Email: janet.townsend@csagroup.org

Contact

Michael Pfanzelt
FES
Phone +498361 308 479
Michael.Pfanzelt@wetzler.endress.com

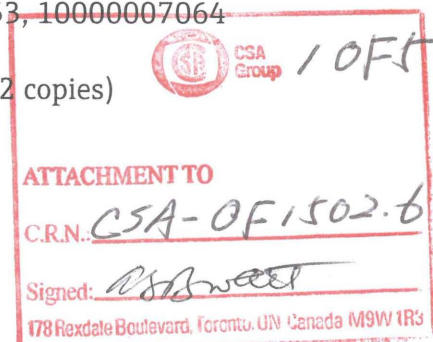
Nesselwang, 19 February 2017

RE: Endress + Hauser Thermowell iTHERM TT411, TT412 CRN registration addendum to
CSA-OF1502.6 (Quebec & Saskatchewan)

Dear Ms. Townsend,

We are pleased to submit our addendum application providing additional variants of thermowells previously CRN registered under the TT411 brand name to include the TT412 brand name which registers drawings 10000007051, 10000007052, 10000007053, 10000007064. The TT412 brand name addition, which is the subject of this addendum pertains solely to drawing 10000008805. In drawing 10000008805 the only change of design that differs from CRN approved drawing under TT411 brand name are the instrumentation connections to the thermowells at the top side of the thermowells. These thermometer/thermocouple instrumentation connections are outside the pressure boundary and are not subject to process pressure. However, for the record we have provided a revised report to include this explanation and to add drawing 10000008805. The attached forms and documentation in support of Ontario Category F fitting addendum application per CSA B51 para. 4.2.8 (b) as follows:

1. Calculation TW-E+H-SAN-Rev1 (2 copies)
2. Previously registered Drawings: (2 copies)
 - 10000007051, 10000007052, 10000007053, 10000007064
3. New addendum drawing 10000008805 (2 copies)
4. Scope of Registration Summary SR-TW-E+H-Rev0 (2 copies)
5. Previously registered iTHERM TT411 catalogue
6. New addendum iTHERM TT412 catalogue
7. TSSA statutory declaration (2 originals notarized)



Scope of Registration Summary

Product: Sanitary Thermowells Code: ASME B31.3

Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805

Catalogue: iTHERM TT411, TT412



Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Tri-Clamp Sanitary Ferrule [1]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN8-18 (0.5"-0.75")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN12-21.3 (1/2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007051 10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25-38 (1"-1.5") DN40-51 (2")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
Tri-Clamp, ISO2852 Sanitary Ferrule [1]	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN63.5 (2.5"), DN70-76.5 (3")	16 bar (232 psi)	-40 to 650 °C (-40 to 1202 °F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN25	40 bar (580 psi)	-40 to 600 °C (-40 to 1112 °F)



CSA GROUP

30F5

ATTACHMENT TO

C.R.N.:

CSA - OF 1502.6

Signed

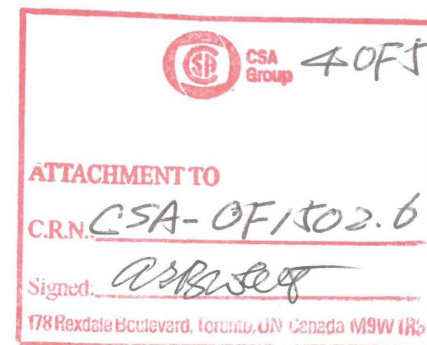
MAWP

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Max Temp. °C (°F)

Thermowell Product	Drawing [5]	Material	Size [5]	Max Temp. °C (°F)
DIN11851 [1]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	DN32, DN40, *DN50	40 bar (580 psi) -40 to 600 °C (-40 to 1112 °F)
Spherical- Cylindrical Weld-in adapter [3]	10000007051 10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x D40mm	40 bar (580 psi) -40 to 600 °C (-40 to 1112 °F)
Spherical Weld-in adapter [3]	10000007051 10000007052 10000007053 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	D25	40 bar (580 psi) -40 to 600 °C (-40 to 1112 °F)
Cylindrical Weld-in adapter [3]	10000007051 10000007052 10000008805	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D30 x 40mm (D1" NPS) D1/2" NPS, D3/4" NPS	40 bar (580 psi) -40 to 600 °C (-40 to 1112 °F)
Weld-in adapter	10000007051	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D12 x 40mm	40 bar (580 psi) -40 to 600 °C (-40 to 1112 °F)
ISO228 Thread-in adapter	10000007051 10000007052 [2]	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G3/8 M12x1 metal-to-metal G1/2 metal-to-metal	16 bar (232 psi) -40 to 650 °C (-40 to 1202 °F)
ISO228 Thread-in adapter	10000007052 10000007053 10000007064 10000008805	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	G1 for FLT50 G3/4 for FLT50 G3/4 for FLT20	40 bar [6] (580 psi) -40 to 500 °C (-40 to 932 °F)
Type B Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	31 mm	10 bar (145 psi) -40 to 650 °C (-40 to 1202 °F)

Thermowell Product	Drawing [5]	Material	Size [5]	MAWP	Max Temp. °C (°F)
Type F, N Varivent [1]	10000007052 10000007064	A276/A479 316L A276 N10276 C-276 A574 N10276 C-276	50 mm, 68 mm	10 bar (145 psi)	-40 to 650 °C (-40 to 1202 °F)
DN11864-1-A [1]	10000007052	A276/A479 316L A269 TP316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN40	40 bar (580 psi)	-40 to 500 °C (-40 to 932 °F)
SMS1147	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN25, DN38, *DN51	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
APV	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	DN50	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Ingold	10000007052	A182 F316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	ø25mm x 30mm ø25mm x 46mm	25 bar (362 psi)	-40 to 600 °C (-40 to 1112 °F)
Neumo Biocontrol	10000007052	A276/A479 316L A269 TP316L A240 316/316L A276 N10276 C-276 A574 N10276 C-276	D25, D50, D65	16 bar (232 psi)	-40 to 600 °C (-40 to 1112 °F)



NOTES:

- [1] Ferrule supplied exactly as per drawing indicated in table above. Clamp to be provided by others. Clamp not included. Clamp shall have a valid CRN registered by the clamp supplier and with a pressure rating appropriate to the application but no greater than the ferrule MAWP indicated above. Note that Tri-Clamp is dimensionally compatible with ISO2852 and ASME Bioprocessing Equipment Standards.
- [2] Drawing 10000007052 includes only G1/2 metal-to-metal connection.
- [3] Weld-in adapter provided as per drawing indicated in table above. Weld to be specified by others and the weld pressure equipment/tank/vessel to which the weld-in adapter is attached to be provided by others and separately CRN approved.
- [4] Factory full penetration weld interface between probe and adapter tested. See calculations for further analysis.
- [5] For details of probe lengths and/or instrumentation connections, see respective drawings.
- [6] G1 for FLT50 MAWP 25 bar (362 psi) at max 150 °C (302 °F); G3/4 for FLT50/FLT20 MAWP 40 bar at max 100 °C (212 °F)

Approved by: Michael Pfanzelt Title: Approval engineer

Approval Signature: i.A.  Date Signed: 2017-02-19

The above signed declares that the contents of this document are accurate, complete and true.



URNr. M00957/2016



TECHNICAL STANDARDS &
SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4

Endress+Hauser



People for Process Automation

STATUTORY DECLARATION Registration of Fittings

I, Bernd Kunert, Quality Manager Quality Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Endress + Hauser Wetzler GmbH+Co KG
(Name of Manufacturer)

Located at DE-87484 Nesselwang +49 (8361) 3 08-0 +49 (8361) 3 08-110
(Plant Address) (Telephone No.) (Fax No.)

☐ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(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 ASME B31.3, ASME Bioprocessing Equipment 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 9001:2008 which has been verified by the following authority, SQS.

The items covered by this declaration, for which I seek registration, are category F type fittings. In support of this application, the following information and/or test data are attached as follows:

ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary: SR-TW-E+H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.

Declared before me at _____ in the _____ of _____
the _____ day of _____ AD 20____.

Commissioner for Oaths:

(Printed name)

(Signature)

M00957

(Signature of Declarer)

FOR OFFICE USE ONLY

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

CRN: CSA-OF 1502.6

Registered by: A. BANWATT

Dated: APRIL 20 2017

NOTE: This registration expires on APRIL 28 2025

REGISTERED



CRN: CSA-OF 1502.6

Registration Process administered by
CSA Group per CSA B51



URNr. M00957 /2016

(M/cw)

I hereby certify that the above standing is the true signature, signed before me of

Mr. Bernd Josef KUNERT,
born on the 22nd of December 1962,
resident 87466 Oy-Mittelberg, Haupstr. 29,

identified through presentation of his german identification card.

Nesselwang, the 14th of June 2016


Dr. Hans Michael Malzer, **notary public**



REGISTERED



CRN: CSA - 0F1505.6

Registration Process administered by
CSA Group per CSA B51

Technical Review performed per CSA B51
Performed by: ANRIC Enterprises Inc.

Signed: 

Date: 20 April, 2017

URN: M00471 | 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

✓ NEW BRUNSWICK
NUNAVUT✓ NOVA SCOTIA
YUKON✓ PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

✓ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzer GmbH+Co KG

MANUFACTURERS ADDRESS: DE-87484 Nesselwang

PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

- A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
 B Flanges: all flanges
 C Valves: all line valves
 D Expansion joints, flexible connections, and hose assemblies: all types
 E Strainers, filters, separators, and steam traps
 F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
 G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.3; ASME B60000 Equipment

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

Endress + Hauser



People for Process Automation

 TYPE OF CONSTRUCTION
 FORGED ☐ WELDED ☒ WROUGHT ☒
 CAST ☐ OTHER ☐
 DESCRIBE OTHER:
 machined

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

 ITherm TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007084, 10000008805; See attached scope of registration summary;
 SR-TW-E-H-Rev0 for MAWP, Design temperature, MDMT, Material of construction.

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzer GmbH+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 and 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 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths

or Notary Public: (sign) _____

(Affix Official seal to the right)

M00471

USE THIS SPACE FOR THE
OFFICIAL SEAL

This space for Regulatory Authority use

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

CRN: OH1242.9 Add.1

FID#: 2115

PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT

C.R.N. OH1242.9 Add.1

DATE: April 13 2017

 INSPECTION SERVICES SECTION
 BOILER/PRESSURE VESSEL BRANCH

Sect. 1.0 - Fittings Rev. 1 06/2003

Notes:

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

URN. MOC 471 / 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

✓ NEW BRUNSWICK
✓ NUNAVUT✓ NOVA SCOTIA
✓ YUKON✓ PRINCE EDWARD ISLAND
✓ NORTHWEST TERRITORIES

✓ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzer GmbH + Co KG

MANUFACTURERS ADDRESS: DE-87484 Nesselwang

PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

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 C Valves: all line valves
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 E Strainers, filters, separators, and steam traps
 F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
 G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.3, ASME Bioprocessing Equipment

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

Endress+Hauser



People for Process Automation

TYPE OF CONSTRUCTION

 FORGED ☒ WELDED ☒ WROUGHT ☒
 CAST ☐ OTHER ☐
 DESCRIBE OTHER:

machined

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

 I THERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary
 SR-TW-E+H-Rev0 for MAVP, Design temperature, MDMT & Material of construction.

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzer GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS 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:

MOC 471

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 of acceptance

CRN: OH1242.9 Add.1

FID#: 2115

Notes:

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

Newfoundland
Labrador

Service NL

Registered OH1242.90 Add.1

Date 13/04/18

Engineering and Inspection Services

Registered by

 UNDER THE AUTHORITY OF THE
 PUBLIC SAFETY ACT AND
 THE REG. IN. PRESSURE VESSEL AND
 CONT. SEC. 1.0 S. Fittings Rev. 06/2003

URN: M00471 | 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

✓ NEW BRUNSWICK
NUNAVUT✓ NOVA SCOTIA
YUKON✓ PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

✓ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzer GmbH+Co KG

MANUFACTURERS ADDRESS: DE-87484 Nesselwang

PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

- A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
 B Flanges: all flanges
 C Valves: all line valves
 D Expansion joints, flexible connections, and hose assemblies: all types
 E Strainers, filters, separators, and steam traps
 F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
 G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.3; ASME B60000 Equipment

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

Endress + Hauser



People for Process Automation

 TYPE OF CONSTRUCTION
 FORGED ☐ WELDED ☒ WROUGHT ☒
 CAST ☐ OTHER ☐
 DESCRIBE OTHER:
 machined

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

 ITherm TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007084, 10000008805; See attached scope of registration summary;
 SR-TW-E-H-Rev0 for MAWP, Design temperature, MDMT, Material of construction.

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzer GmbH + 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 and 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 as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at

This _____ day of _____

AD

Commissioner of Oaths

or Notary Public: (sign) _____

(Affix Official seal to the right)

M00471

USE THIS SPACE FOR THE
OFFICIAL SEAL

This space for Regulatory Authority use

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

CRN: OH1242.9 Add.1

FID#: 2115

PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT

C.R.N. OH1242.9 Add.1

DATE: April 13 2017

Notes:

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.


 INSPECTION SERVICES SECTION
 BOILER/PRESSURE VESSEL BRANCH

Sect. 1.0 - Fittings Rev. 1 06/2003

URN: MOC 471 / 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS✓ NEW BRUNSWICK
NUNAVUT✓ NOVA SCOTIA
YUKON✓ PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

✓ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzler GmbH+Co KG	
MANUFACTURERS ADDRESS: DE-87484 Nesselwang	
PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
<p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.3; ASME Bioprocessing Equipment</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
<p>Endress + Hauser </p> <p>People for Process Automation</p>	
<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input checked="" type="checkbox"/></p> <p>CAST <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>DESCRIBE OTHER: machined</p>	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p>ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary:</p> <p>SR-TW-E-H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.</p>	

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzler GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SGS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

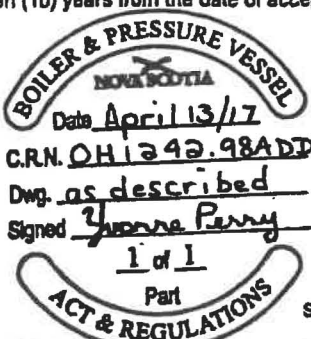
This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

(Affix Official seal to the right)

MOC 471

USE THIS SPACE FOR THE
OFFICIAL SEAL

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: OH1242.9 Add.1	 <p>Boiler & Pressure Vessel NOVA SCOTIA Date April 13/17 C.R.N. OH1242.98ADD1 Dwg. as described Signed Yvonne Perry 1 of 1 Part ACT & REGULATIONS</p>
FID#: 2115	
Notes:	
<p>1. All fittings shall be registered in the name of the Manufacturer.</p> <p>2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</p> <p>3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.</p> <p>4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p>	
Sect. 1.0 - Fittings Rev. 1 08/2003	

URN: M00471 | 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

☒ NEW BRUNSWICK
☒ NUNAVUT

☒ NOVA SCOTIA
☒ YUKON

☒ PRINCE EDWARD ISLAND
☒ NORTHWEST TERRITORIES

☒ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzer GmbH+Co KG

MANUFACTURERS ADDRESS: DE-87484 Nesselwang

PLANT LOCATIONS: Nesselwang, Germany, Greenwood, USA; Suzhou China

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
 B Flanges: all flanges
 C Valves: all line valves
 D Expansion joints, flexible connections, and hose assemblies: all types
 E Strainers, filters, separators, and steam traps
 F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
 G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.3; ASME Bioprocessing Equipment

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

Endress+Hauser 
People for Process Automation

TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☒ WROUGHT ☒
 CAST ☐ OTHER ☐
 DESCRIBE OTHER:
 machined

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary:
 SR-TV-E+H-Rev0 for MAWP, Design temperature, MDMT& Material of construction.

DECLARATION:

I Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzer GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

(Affix Official seal to the right)

M00471

USE THIS SPACE FOR THE
OFFICIAL SEAL


New Brunswick

This space for Regulatory Authority use

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

CRN: OH1242.9 Add.1

FID#: 2115

REGISTRATION ONLY

CRN

EXAMINER: 

for
CHIEF BOILER INSPECTOR

DATE:

April 13/2017

☐

BLRs

☐

FS Sect. 1.0 - Fittings Rev. 1 06/2003

☒

FITTINGS

☐

COMPONENTS


Notes:

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

URN: MOC 471 / 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS✓ NEW BRUNSWICK
NUNAVUT✓ NOVA SCOTIA
YUKON✓ PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

✓ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzler GmbH+Co KG	
MANUFACTURERS ADDRESS: DE-87484 Nesselwang	
PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
<p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.3; ASME Bioprocessing Equipment</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
<p>Endress + Hauser </p> <p>People for Process Automation</p>	
<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input checked="" type="checkbox"/></p> <p>CAST <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>DESCRIBE OTHER: machined</p>	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p>ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary:</p> <p>SR-TW-E-H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.</p>	

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzler GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SGS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

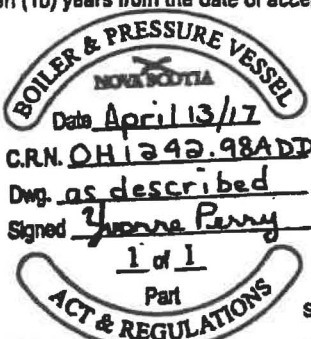
This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

(Affix Official seal to the right)

MOC 471

USE THIS SPACE FOR THE
OFFICIAL SEAL

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: OH1242.9 Add.1	 <p>Boiler & Pressure Vessel NOVA SCOTIA Date April 13/17 C.R.N. OH1242.98ADD1 Dwg. as described Signed Yvonne Perry 1 of 1 Part ACT & REGULATIONS</p>
FID#: 2115	
Notes:	
<p>1. All fittings shall be registered in the name of the Manufacturer.</p> <p>2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</p> <p>3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.</p> <p>4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p>	
Sect. 1.0 - Fittings Rev. 1 08/2003	

URN: M00471 / 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

☒ NEW BRUNSWICK
☒ NUNAVUT

☒ NOVA SCOTIA
☒ YUKON

☒ PRINCE EDWARD ISLAND
☒ NORTHWEST TERRITORIES

☒ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzer GmbH+Co KG

MANUFACTURERS ADDRESS: DE-87484 Nesselwang

PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

- A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
B Flanges: all flanges
C Valves: all line valves
D Expansion joints, flexible connections, and hose assemblies: all types
E Strainers, filters, separators, and steam traps
☒ F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H Pressure retaining components that do not fall into one of the above categories
N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐. (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

ASME B31.3, ASME Bioprocessing Equipment

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

Endress+Hauser 
People for Process Automation

TYPE OF CONSTRUCTION

FORGED ☐ WELDED ☒ WROUGHT ☒
CAST ☐ OTHER ☐
DESCRIBE OTHER:
machined

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary:
SR-TW-E+H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzer GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

(Affix Official seal to the right)

M00471

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OFFICIAL SEAL

This space for Regulatory Authority use

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

CRN: OH1242.9 Add.1

FID#: 2115

Notes:

- All fittings shall be registered in the name of the Manufacturer.
- Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.



Sect. 1.0 - Fittings Rev. 1 06/2003

URN. MCG 471 / 2017


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

☒ NEW BRUNSWICK
☒ NUNAVUT

☒ NOVA SCOTIA
☒ YUKON

☒ PRINCE EDWARD ISLAND
☒ NORTHWEST TERRITORIES

☒ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzer GmbH+Co KG	
MANUFACTURERS ADDRESS: DE-87484 Nesselwang	
PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
<p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p><input checked="" type="radio"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.3; ASME Bioprocessing Equipment</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
<p>Endress + Hauser </p> <p>People for Process Automation</p>	
TYPE OF CONSTRUCTION	
<p>FORGED <input type="checkbox"/> WELDED <input checked="" type="checkbox"/> WROUGHT <input checked="" type="checkbox"/></p> <p>CAST <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>DESCRIBE OTHER:</p> <p>machined</p>	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p>ITHERM TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007064, 10000008805; See attached scope of registration summary.</p> <p>SR-TW-E+H-Rev0 for MAWP, Design temperature, MDMT & Material of construction.</p>	

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzer GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SQS 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: 

MCG 471

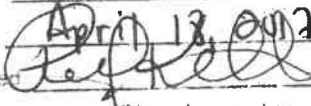
Declared before me at _____

USE THIS SPACE FOR THE
OFFICIAL SEAL

This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

(Affix Official seal to the right)


<p>This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>0H1242.9 Add.1</u></p> <p>FID#: <u>2115</u></p> <p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. 	<p>NUNAVUT</p> <p>Boilers and Pressure Vessels Act</p> <p>REGISTERED</p> <p>CRN <u>0H1242.9N Add.1</u></p> <p>Date <u>April 18, 2017</u></p> <p>Signed </p> <p>Chief Inspector</p> <p>Sect. 1.0 - Fittings Rev. 1 06/2003</p> <p>Territorial Registration Fee</p>
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URNr. MOC 471 / 2017

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

✓ NEW BRUNSWICK
NUNAVUT✓ NOVA SCOTIA
YUKON✓ PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

✓ NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Endress + Hauser Wetzler GmbH+Co KG	
MANUFACTURERS ADDRESS: DE-87484 Nesselwang	
PLANT LOCATIONS: Nesselwang, Germany; Greenwood, USA; Suzhou China	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps <input checked="" type="radio"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION ASME B31.3; ASME Bioprocessing Equipment
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT <div style="text-align: center;"> Endress + Hauser  People for Process Automation </div>	
TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER: machined	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: ITherm TT411 Thermowells; Drawings: 10000007051, 10000007052, 10000007053, 10000007054, 10000008005; See attached scope of registration summary. SR-TW-E+H-RvO for MAWP, Design temperature, MDMT & Material of construction.	

DECLARATION:

I, Bernd Kunert, Quality Manager (see note 3) employed by Endress+Hauser Wetzler GmbH + 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 and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by SGS as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: 

Declared before me at _____

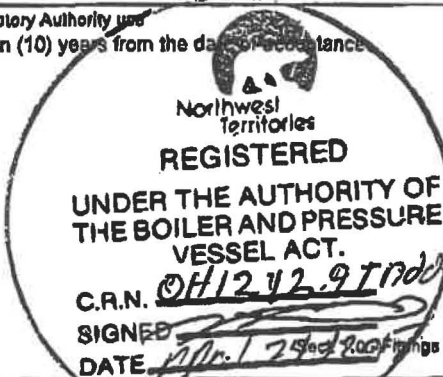
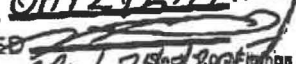
This _____ day of _____ AD _____

Commissioner of Oaths
or Notary Public: (sign) _____

(Affix Official seal to the right)

MOC 471

USE THIS SPACE FOR THE
OFFICIAL SEAL

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of issuance	
CRN: OH1242.9 Add.1	 16300
FID#: 2115	
Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	
UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT. C.R.N. OH1242.9 Tnddy SIGNED  DATE: Apr 1 2017 Rev. 1 06/2003	



505 - 6th Street, Suite 200
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE
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www.safetyauthority.ca

ENDRESS + HAUSER WETZER GMBH+CO KG
OBERE WANK 1
NESSELWANG
GERMANY D-87484

Date: June 11, 2015
Account #: 59105
Journal #: 62858
Our File #: 5542682

Attn: MICHAEL PFANZELT

Re: Application for Design Registration

The design, as detailed in your, iTHERM TT411, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS + HAUSER WETZER **CRN:** 0F17572.51
GMBH+CO KG

Drawing #: 10000007051, 7052, 7053, 7064

Conditions Of Registration:

Registration of Sanitary Thermowells as per scope of registration sheets (2 pages).

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

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on April 02, 2025. 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.

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

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:

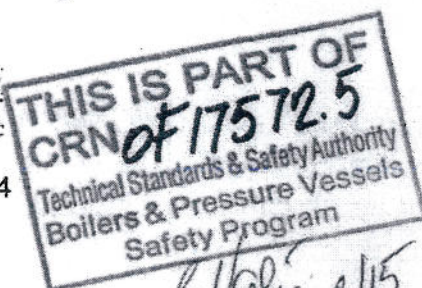
**Scope of Registration Summary**

Product: Sanitary Thermowells

Drawings: 10000007051, 10000007052, 10000007053, 10000007064

Catalogue: ITherm TT411

Code: ASME B31.3



Thermowell Product	Type	Size	MAWP	Max Temp. (°F)
Weld - in Adapter	Spherical	DN25 (25mm)	200 psi [1]	0 to 250
Weld-in Adapter	Spherical - Cylindrical	D40 x 40mm	200 psi [1]	0 to 250
Weld-in Adapter	Cylindrical	D30 x 40mm	200 psi [1]	0 to 250
Microclamp	ISO 2852	DN8-18 mm (0.5-0.75")	16 bar [2]	-40 to 752
Microclamp	Tri-clamp, 3-A ISO 2852	DN8-18 mm (0.5-0.75")	16 bar [2]	-40 to 752
Sanitary Flange	ISO 2852	DN12-21.3	16 bar [2]	-40 to 752
Sanitary Flange	ISO 2852	DN25-38 (1-1.5")	16 bar [2]	-40 to 752
Sanitary Flange	ISO 2852	DN40-51 (2")	16 bar [2]	-40 to 752
Sanitary Flange	ISO 2852	DN63.5 (2.5")	16 bar [2]	-40 to 752
Sanitary Flange	ISO 2852	DN70-76.5 (3")	16 bar [2]	-40 to 752
Varivent D	Type B	31 mm	10 bar	-40 to 752
Varivent D	Type F	50 mm	10 bar	-40 to 752
Varivent D	Type N	68 mm	10 bar	-40 to 752
DIN11851	DIN11851	DN25	40 bar	0 to 250
DIN11851	DIN11851	DN32	40 bar	0 to 250
DIN11851	DIN11851	DN40	40 bar	0 to 250

Thermowell Product	Type	Size	MAWP	Max Temp. (°F)
DIN11851	DIN11851	DN50	40 bar	0 to 250
Ingold	Ingold	25x30mm	25 bar	-40 to 752
Ingold	Ingold	25x46mm	25 bar	-40 to 752
SMS	SMS 1147	DN25	25 bar	-40 to 752
SMS	SMS 1147	DN38	25 bar	-40 to 752
SMS	SMS 1147	DN51	25 bar	-40 to 752
Asceptic	DIN11864-1-A	DN25	40 bar	-40 to 752
Asceptic	DIN11864-1-A	DN40	40 bar	-40 to 752
Threaded	ISO228	G1, G3/4 [4]	25 bar	0 to 302
Threaded	ISO228	G1, G3/4	40 bar	0 to 212

[1] Subject to ASME BPE table DT-2-1, 200 psig @ 100 F; 165 psi @ 250 F

[2] ISO 2852 is compatible with ASME BPE, first established in 1974, pre-dating ASME BPE.

[3] Materials of construction S31603 316L, N10276 C-276

The undersigned hereby confirms that the above information is complete and representative:

Signed by: Michael Pfanzelt

Signature: I.A.

Date: 2015-03-16

Title: Safety engineer

