



To:	TSSA	From:	Janet Townsend
Company:	Endress + Hauser Conducta Inc.	Phone:	416-747-4291
Pages:	13	Location:	Toronto
Our File:	ANR-4751	Date:	November 21, 2017

Your File: 2180596

Subject: Request for Design Registration

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Endress + Hauser Conducta Inc.

These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0F19698.56.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in blue ink that reads 'Janet Townsend'.

Janet Townsend
Program Manager
CSA Group

178 Rexdale Blvd.
Toronto, ON, M9W 1R3

Canada

www.csagroup.org

REGISTERED
CRN: CSA-OF19698-56
Registration Process administered by
CSA Group per CSA B51

Statutory Declaration Registration of Fittings

(a) Design Qualification

I: MIKE YOUROSKI
(Name of applicant)
QUALITY MANAGER
(Position eg, president, plant manager, chief eng.)
of ENDRESS+HAUSER CONDUCTA INC.
(name of company)
Located at 4123 LA PALMA AVE., ANAHEIM, CA, USA, 92807
(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, material, identification & service for which are required:
- Or
- are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and 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 fittings² covered by this declaration, for which I seek registration, are CATEGORY F

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

DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN

Declared before me at _____
In the of _____ of _____
The _____ day of _____ AD 2000
A (commissioner for oaths) See attached acknowledgment
Michael Youroski
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.
EXPIRY DATE: OCT. 03. 2027

Registered Number CRN CSA-OF19698-56

For the Chief Inspector R. BARNES
Date NOV. 10. 2017

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



Note: See the attachment for the scope of the registration

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On September 8, 2017 before me, Laurel Boles
(Here insert name and title of the officer)

personally appeared Michael Youroski,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (s) are subscribed to the within instrument and acknowledged to me that (he) she/they executed the same in (his) her/their authorized capacity(ies), and that by (his) her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

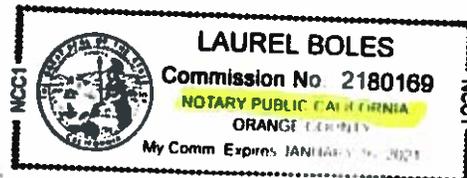
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Laurel Boles

Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Quebec Statutory Declaration
(Title or description of attached document)

Registration of Fittings
(Title or description of attached document continued)

Number of Pages 1 Document Date 09/08/2017

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.



Technical Safety Authority of Saskatchewan

REGISTERED
 CRN: CSA-OF19698.56
 Registration Process administered by
 CSA Group Inc. USA Div.



2202 2nd Ave.
 Regina, SK S4R 1K3
 Toll Free: (866)530-8599
 Email: boilerpermits@tsask.ca
 Website: www.tsask.ca

PH: (306)787-7112
 FAX: (306)787-9273

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, MIKE YOUROSKI

QUALITY MANAGER

(company title, e.g. vice president, plant manager, chief engineer)
 (must be in a position of authority in the manufacturing plant where the fitting is produced)

of: ENDRESS+HAUSER CONDUCTA INC.
 (name of manufacturer)

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



located at: 4123 LA PALMA AVE. ANAHEIM, CA 92807, USA
 (Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the *Saskatchewan Boiler and Pressure Vessel Safety Act* (check one)

Comply with the requirements of ASME B31.1, B31.3 which specifies the dimensions,
 (title of recognized North American Standard)
 Materials of construction, pressure / temperature ratings and identification marking of the fittings, or

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

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001:2008 SQS as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY F

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

DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN

date _____

II. Declaration

DECLARED before me at _____ In the _____ of _____
 this _____ day of _____

Michael Youroski
 (print name)

Michael Youroski
 (Signature)

See attached acknowledgment
 (Signature of Commissioner of Oaths)

III. Office Use Only

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

CSA-OF19698.56
 (Registration Number)

NOV. 10. 2017
 (Date Registered - MM DD YYYY)
 (For the Administrator / Chief Inspector)

OCT. 03. 2027
 (Expiry Date - MM DD YYYY)

R. BARNES



Note: See the attachment for the scope of the registration

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On September 8, 2017 before me, Laurel Boles,
(Here insert name and title of the officer)

personally appeared Michael Youroski,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~(s)~~ are subscribed to the within instrument and acknowledged to me that ~~he~~ she/they executed the same in ~~(his)~~ her/their authorized capacity(ies), and that by ~~(his)~~ her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

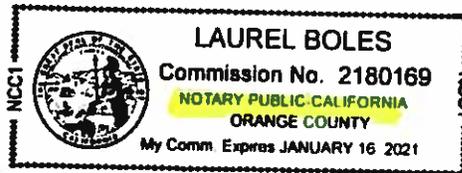
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Laurel Boles

Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Saskatchewan Statutory Declaration

(Title or description of attached document)

Registration of Fittings

(Title or description of attached document continued)

Number of Pages 1 Document Date 09/08/2017

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

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- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/~~they~~, is /~~are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
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 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.



345 Carlingview Drive
Toronto Ontario M9W 6N9
Tel: 416 734 3300
Fax: 416 231 1626
Toll Free: 1 877 682 8772

www.tssa.org

October 03, 2017

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 2162158
Your Reference No.: EH-CRN-27
Registered to: ENDRESS + HAUSER CONDUCTA INC

Dear SCOTT ISLIP,

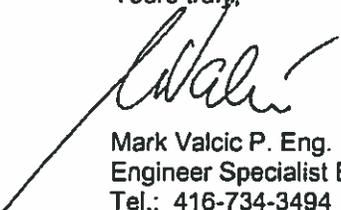
Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

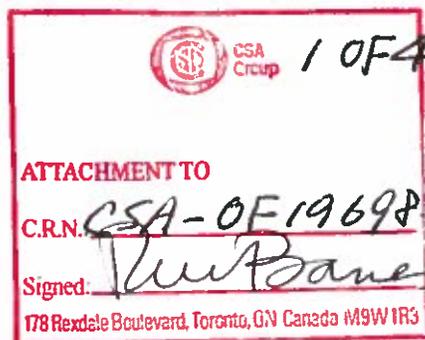
CRN No.: 0F19698.5
Main Design No.: CONDUMAX CLS16D/CLS16, Hygienic Conductivity Sensor (see attachment to the Statutory Declaration Form for full scope of registration)
Expiry Date: 03-Oct-2027

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



ENDRESS+HAUSER CONDUCTA INC.
 4123 LA PALMA AVE.
 ANAHEIM, CA
 92807, USA

13-Sep-17



ATTACHMENT TO
CRN: CSA-01-19098-16
 Signed: *[Signature]*
 TRS (Bavaria) Boulevard, Toronto, ON Canada M9W 1R3
EH TT Document

SCOPE OF CRN REGISTRATION

PRODUCT DESCRIPTION

Description	Design Standard	End Connections	EH TT Document
CONDUMAX CLS16D/CLS16	ASME B31.3, ASME B31.1, ASME BPE, ASME VIII-1 UG-101	1", 1-1/2" and 2" ASME BPE, ISO2852, DIN 3276 Ferrule (Note 1), DN50 Varivent (Note 1), BioControl D50	414105, 414113, 134267-0002, 134267-0003, 134267-0004, 134267-T100227C/07/EN/15.14 0005

PRESSURE - TEMPERATURE RATINGS

MDMT	MAWP AT 68 F	MAWP AT 248 F	MAWP AT 302 F	NOTES
23F	188 psia	130 psia	87 psia	It is recommended that the sensor be subjected to sterilization at 302F for only a short time (45 minutes approximately)

MATERIALS OF CONSTRUCTION

PROCESS HOUSING MATERIAL (NOTE 2)	SENSOR SHELL MATERIAL	NOTES
STAINLESS STEEL 1.4435 TYPE 316L UNS S31603	POLYPHENYLENE SULFIDE PLASTIC, ASTM A479-316L, STAINLESS STEEL 1.4435 TYPE 316L, UNS S31603, ELASTOMERS	Optional process housing materials may be used. See Note 2.

MANUFACTURING LOCATIONS

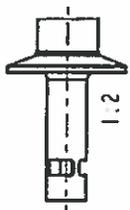
Endress+Hauser Conducta 70839 Geringen incl. manufacturing sites 04736 Waldheim and 64823 Gross-Umstadt, Germany Endress+Hauser Conducta 4123 LA Palma Ave., Anaheim, CA 92807, USA	Endress+Hauser Conducta 215021 Suzhou, Endress+Hauser Analytical Instruments Suzhou Co. Ltd. P.R. China
--	---

Note 1) The ASME BPE 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.

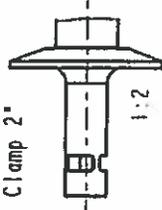
Note 2) The following additional alloys of superior or equivalent properties to those listed above are also included in the scope of registration: Type 304 S.Steel UNS S30400, Type 304L S.Steel UNS S30403, Type 316 S.Steel UNS S31600, Type 316L S.Steel UNS S31603, Alloy 20 UNS N08020, Hastelloy C-276 UNS N10276, Hastelloy C22 UNS N06022, Hastelloy B3 UNS N10676, Monel 400 UNS N04400 (Note Monel 400 limited to 100F max.), Inconel 600 UNS N06600, Inconel 625 UNS N06625, Inconel 825 UNS N08825, Duplex S.Steel UNS S31803, Super Duplex UNS S32750, Super Duplex UNS S32760, Titanium Grade 3 UNS R50550 (Note Titanium limited to 247F max.)

THIS IS PART OF
CRN 01-19098-5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program
[Signature] 09.31.17

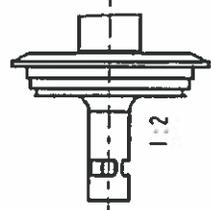
variant
Clamp 1.
Clamp 1.5"
1:2



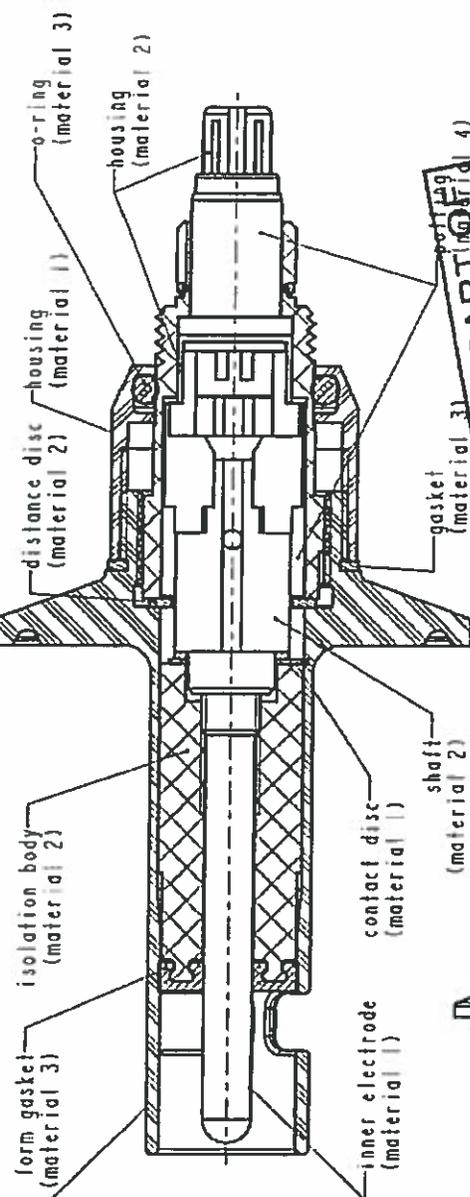
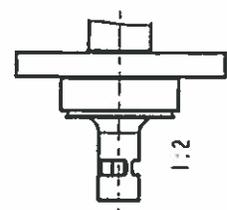
variant
Clamp 2.
1:2



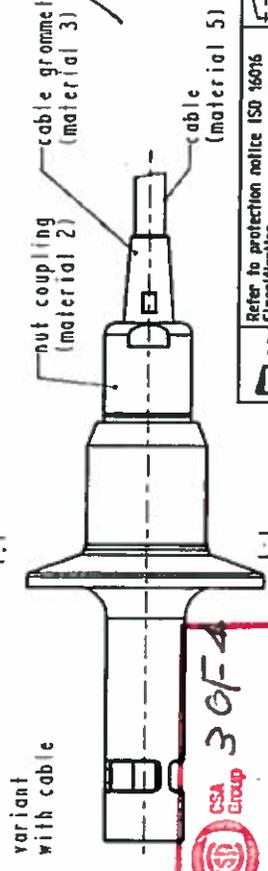
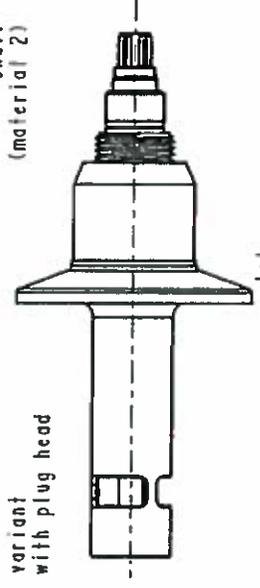
variant
Varivent N DN50-125
1:2



variant
Neumo BioControl
1:2



THIS IS PART OF
CRN OF 19698.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
Ubal. 05.31A



materials	
material 1	stainless steel
material 2	plastics
material 3	elastomer
material 4	epoxy encapsulant
material 5	measuring cable



30F-4

ATTACHMENT TO

C.R.N. 95A-0F998.5-16

Signed: *W. Urban*

178 Beaudette Boulevard, Toronto, ON Canada M9W 1R3

Endress+Hauser
Endress+Hauser Conducta GmbH, KG
Solingen, Germany

Refer to protection notice ISD 16076
Classification

Title
manufacturing drawing
CLS16 CRN
manufacturing drawing
CLS16 CRN

Scale
2:1

Drawn by
2017-05-05 Blarhults

Number of sheets
0

Sheet
A

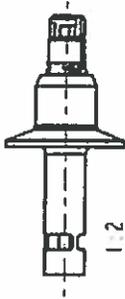
Revision
4/14/105

Project
CLS16 CRN

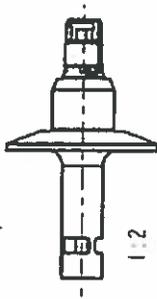
Material

DATE OF WORKING DRAWING
01-01-2017
02-01-2017
03-01-2017
04-01-2017
05-01-2017
06-01-2017
07-01-2017
08-01-2017
09-01-2017
10-01-2017
11-01-2017
12-01-2017

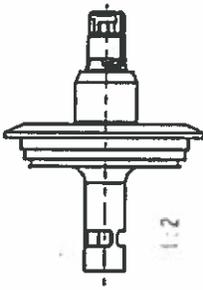
variant 1
Clamp 1.5"



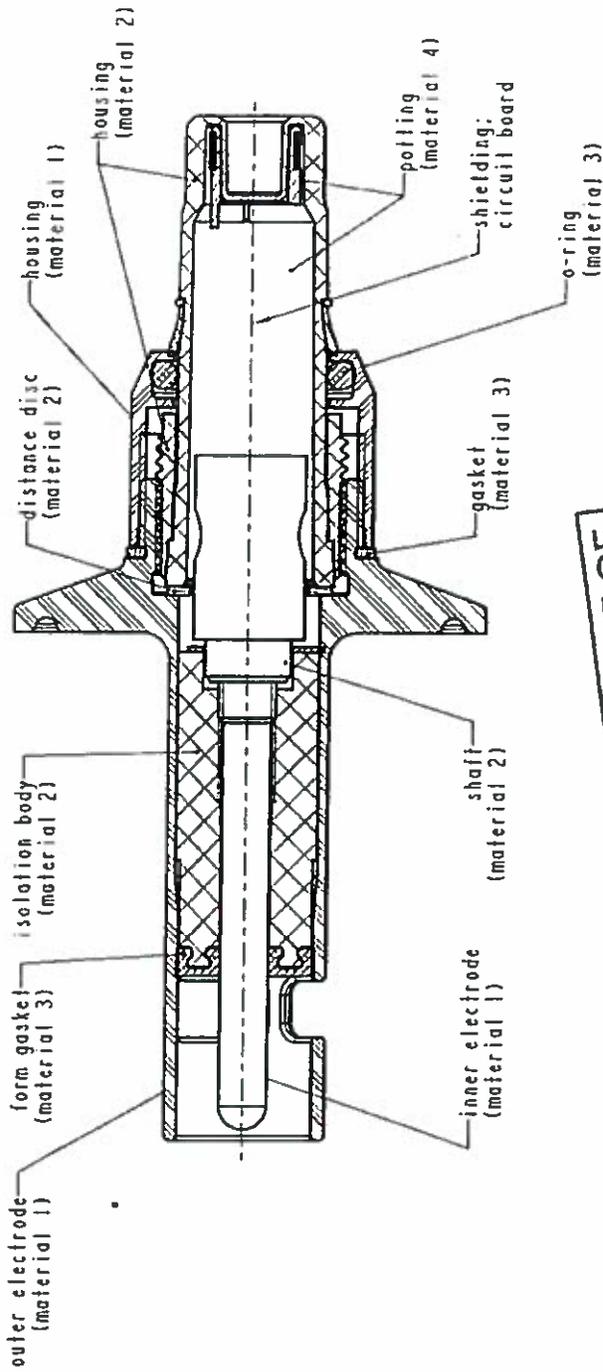
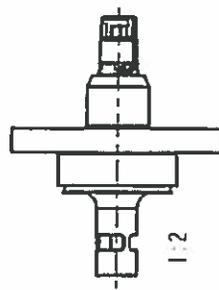
variant 2
Clamp 2"



variant
Variant N DN50-125



variant
Heumo BioControl



materials	Telephone
material 1 stainless steel	
material 2 plastics	
material 3 elastomer	
material 4 epoxy encapsulant	

**THIS IS PART OF
CRN OF 19698.5**
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
WJL oct. 3/17

CSA Group 46FA
ATTACHMENT TO
C.R.N. *CSA-OF-19698.5*
Signed: *[Signature]*
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Refer to protection notice ISO 16016 Classification:	Scale 2:1	Telephone
Title manufacturing drawing CLS16D CRN	Proj. No. 2017-05-05 Biohelix	
Manufacturer Endress+Hauser	Number of changes 0	Designing Org. WJL
Address Endress+Hauser	Scale A3	Approved date
Project CLS16D CRN	Proj. No. 414113	Pressure code
Version A	Disc. date	Revision
Sheet 1 of 1	Formal A3	Page 1 of 1

005 of 10/13 DWG
REVISIONS
13 002 05-05-17
13 002 05-05-17
13 002 05-05-17
13 002 05-05-17
13 002 05-05-17



Certificate

SQS herewith certifies that the company named below has a management system which meets the requirements of the standards specified below.



Endress+Hauser Conducta GmbH & Co. KG

Dieselstrasse 24
70839 Gerlingen
Germany

Scope of certification

According to appendix

Field of activity

Research and development, manufacturing and sales
of measurement technology for liquid analysis

Normative basis

ISO 9001:2015

ISO 14001:2015

OHSAS 18001:2007

Quality Management System

Environmental Management System

Occupational Health and
Safety Management System

Scope(s) 18, 19

Validity 01.04.2017 – 31.03.2020
Issue 01.04.2017

Reg. no. 10705

X. Edelman, President SQS

R. Glajser, CEO SQS



sqsb.ch



Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, 3052 Zollikofen, Switzerland



Swiss Made





Endress+Hauser Conducta GmbH & Co. KG
Dieselstrasse 24
70839 Gerlingen
Germany

Central Function	Field of activity	Scope(s)	Norm / Revision	Reg. no.	Validity
Endress+Hauser Conducta GmbH & Co. KG Dieselstrasse 24 / Postfach 100 154 70839 Gerlingen Germany	Research and development, manufacturing and sales of measurement technology for liquid analysis	18, 19	ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007	10705	01.04.2017 31.03.2020

Locations	Field of activity	Scope(s)	Norm / Revision	Reg. no.	Validity
Endress+Hauser Conducta GmbH & Co. KG Siemensstraße 2 64823 Groß-Umstadt Germany	Research and development, manufacturing and sales of measurement technology for liquid analysis	18, 19	ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007	10705	01.04.2017 31.03.2020
Endress+Hauser Conducta Waldheim Gewerbegebiet Richzenhain Landsberger Straße 2B 04736 Waldheim Germany	Research and development, manufacturing and sales of measurement technology for liquid analysis	18, 19	ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007	10705	01.04.2017 31.03.2020
Endress+Hauser Conducta, Inc. 4123 East La Palma Ave. Suite 200 Anaheim, CA 92807 United States of America	Research and development, manufacturing and sales of measurement technology for liquid analysis	18, 19	ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007	10705	01.04.2017 31.03.2020
Endress+Hauser Analytical Instruments (Suzhou) Co., Ltd. 491 Su-Hong Zhong Lu China-Singapore Industrial Park Suzhou, Jiangsu Province China	Research and development, manufacturing and sales of measurement technology for liquid analysis	18, 19	ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007	10705	01.04.2017 31.03.2020

X. Edelmann, President SQS

R. Glajser, CEO SQS



Swiss Association for Quality and Management Systems SQS
Bernstrasse 103, 3052 Zollikofen, Swiss



178 Rexdale Blvd.
Toronto, Ontario
Canada M9W 1R3
Tel: (416) 747-4000
www.csagroup.org



March 2017

CRN – Canadian Registration Numbers - Saskatchewan

The Province of Saskatchewan participates with Quebec and the Canadian Standards Association (CSA Group) for the registrations of “Fittings”.

Per an agreement with CSA Group in April 1998, Saskatchewan recognizes registrations done by CSA Group and accepts such fittings for use in Saskatchewan.

The letters “CSA” are applied as a prefix to the CRN to indicate which “Fittings” have been registered in this manner. You should inform your clients of this additional marking requirement and that “Fittings” registered by CSA Group are accepted for use in Saskatchewan Canada.