

November 30, 2023

Attention: Cecylia Garbacz
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, Tracking Number 2023-06999, Web Portal Number 2023-S4665, originally received on November 16, 2023 was surveyed and accepted for registration as follows:

CRN : 0H16574.52 **Accepted on:** November 30, 2023
Reg Type: RENEWAL **Expiry Date:** October 24, 2033
Drawing No. : SCOPE OF CRN REGISTRATION [Jul 25, 2023] & REPORT R-1886 Rev 0 As Noted
Fitting type: SENSOR

Design registered in the name of : ENDRESS + HAUSER CONDUCTA INC

Description	MAWP	Design Temperature	MDMT
MAWP	3999kPa	250 °C	-20 °C

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

- As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.1 and ASME B31.3.
- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, 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 3356 or fax (780) 437-7787 or e-mail Habteyes@absa.ca.

Sincerely,



HABTEYES, KASSA, P. Eng.
DOP Cert. No. D00009639

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

I, LEONARD AMBROSINI, GENERAL MANAGER
(name of applicant) (position title) (must be in a position of authority)
of ENDRESS+HAUSER CONDUCTA, INC.
(name of manufacturer)
located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX
(plant address)

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



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only 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 (title of code of construction or other applicable document) attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

Quality Program Verification and Manufacturing Sites

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Sensors	ISO 9001:2015	Research, Development, Manufacturing and Sales	March 31, 2026	SQS	See Attached Worldwide Locations Appendix
2.						

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

[Signature] (Signature of the Declarer)

5-10-23 (Date)

DECLARED before me at [city] in the [state] of [province, territory, or state]

this [day] day of [Month], [Year]

(print) [Signature] (a Commissioner of Oaths or Notary Public)

See attached acknowledge

(sign) [Signature] (a Commissioner of Oaths or Notary Public)

[Expiry date (mm/dd/yy)]

Commissioner of Oaths / Notary Public in and for: [state] (province, territory, or state)

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, Part 1, Clause 4.2, and is accepted for registration in Category

CRN:

Registered Date:

Expiry Date: October 24, 2033

Signature:

(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

2023-06999 ABSA SAFETY CODES ACT - PROVINCE OF ALBERTA ACCEPTED: CH16574. 52 See acceptance letter for conditions of registration. Date: 2023-11-30 By: [Signature] KASSA HABTEYES, P. Eng. DOP: D00009639

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

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 05/10/2023 before me, Laurel Boles
(Here insert name and title of the officer)

personally appeared Leonard Ambrosini
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

Alberta Declaration Registration

(Title or description of attached document)

of Fittings

(Title or description of attached document continued)

Number of Pages 2 Document Date 05/10/2023

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.

WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

**ENDRESS+HAUSER CONDUCTA GMBH & CO. KG LOCATIONS
& CERTIFYING AUTHORITIES**

(rev. June 17, 2020)

Endress+Hauser Conducta GmbH & Co. KG
Dieselstrasse 24 / Postfach 100 154
70839 Gerlingen
Germany
ISO 9001 Certified by SQS

Endress+Hauser Conducta GmbH & Co. KG
Siemensstraße 2
64823 Groß-Umstadt
Germany
ISO 9001 Certified by SQS

Endress+Hauser Conducta Waldheim
Gewerbegebiet Richzenhain
Landsberger Straße 28
04736 Waldheim
Germany
ISO 9001 Certified by SQS

Endress+Hauser Conducta, Inc.
4123 East La Palma Ave, Suite 200
Anaheim, CA 92807
United States of America
ISO 9001 Certified by SQS

**Endress+Hauser Analytical Instruments
(Suzhou) Co., Ltd.**
No. 31 JiangTianLiLu
Suzhou Industrial Park 215126
People's Republic of China
ISO 9001 Certified by SQS

Tracking #: 2023-06999



SCOPE OF CRN REGISTRATION

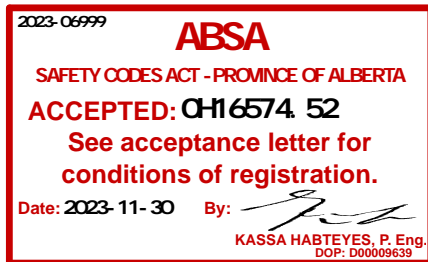
Description	EH TI Document	Drawings	Design Standard	Process Connections
Condumax CLS13	TI00083C/07/EN/14.22-00 71576069 2022-06-30	134125-0415-2A Rev "-" 136538-3A Rev "-" EH-CRN-2 Rev. 0	ASME B31.3, ASME B31.1	1" MNPT, BSP G1 Thread

Material of Construction	MAWP at 100°F	MAWP at 482°F	MDMT	Design Report
UNS S31635 ASTM A240-316TI, ASTM A479-316TI, ASTM A182-316TI	580 psig at 100°F (595 psi absolute at 100°F)	580 psig at 482°F (595 psi absolute at 482°F)	-4°F	R-1886 Rev. 0

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

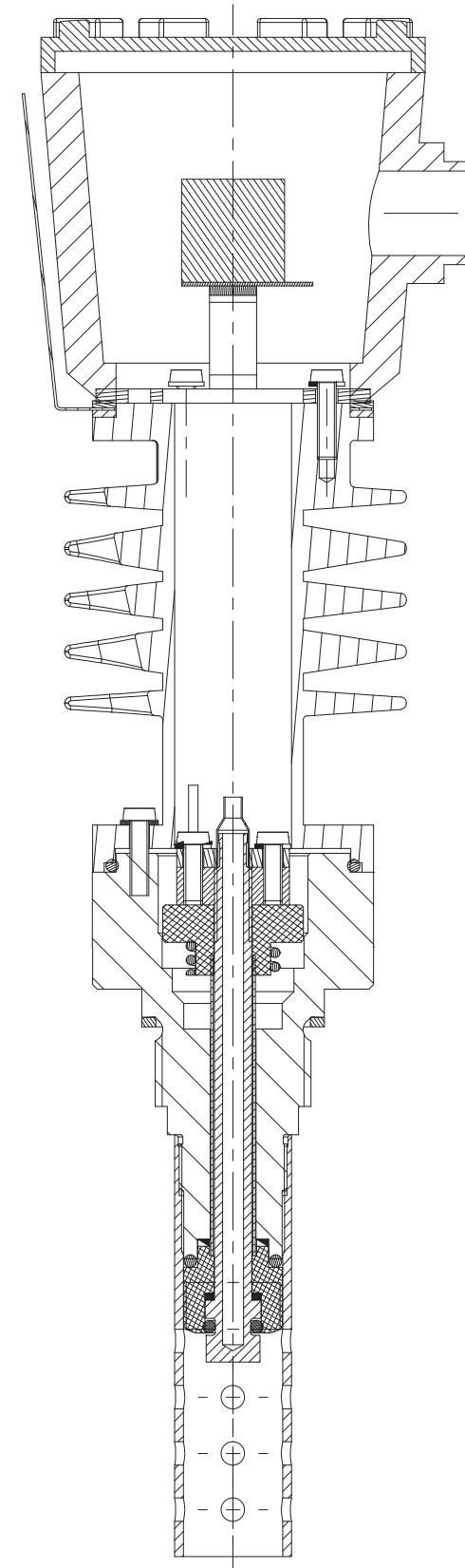
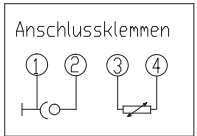
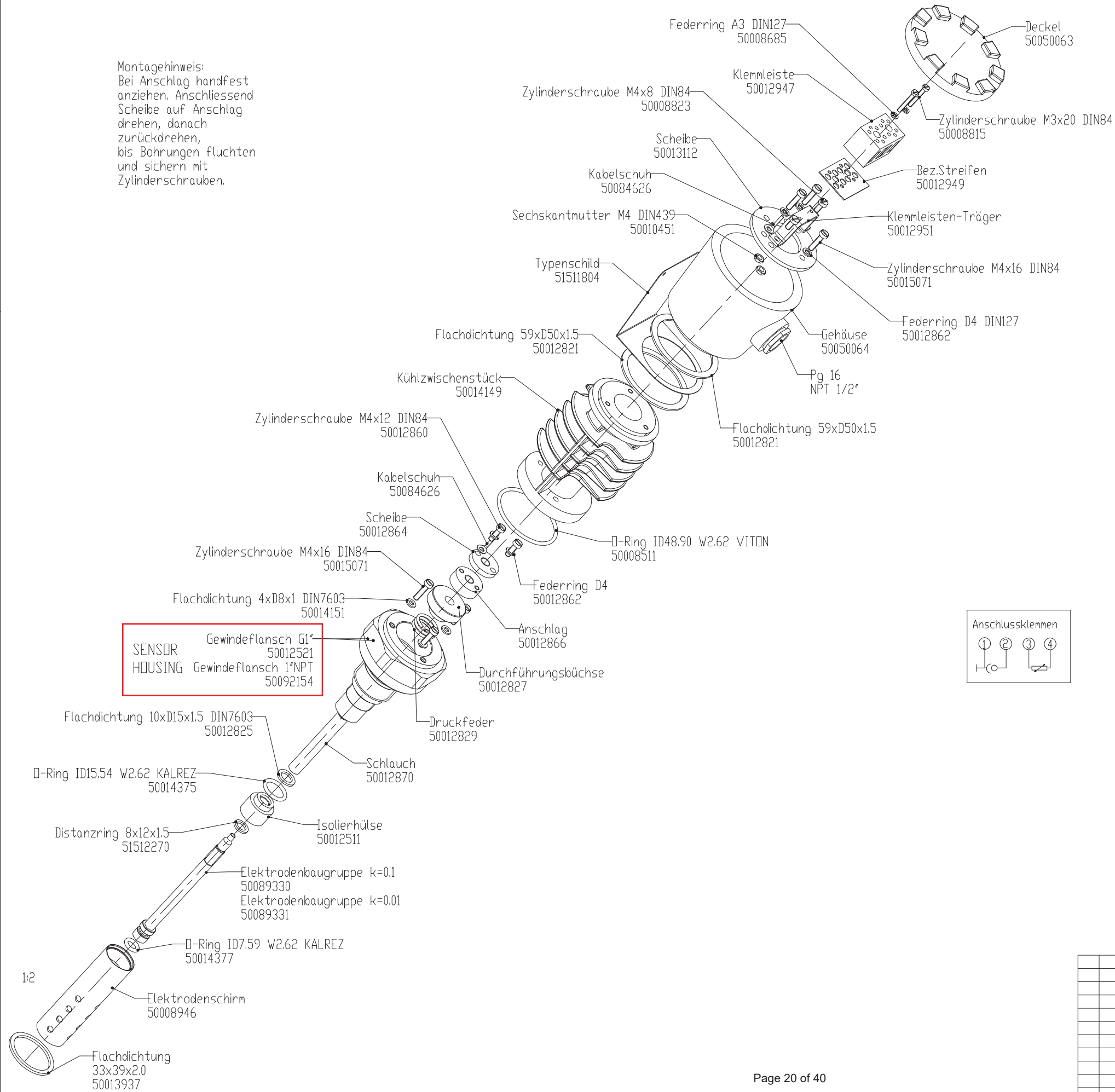
Note 2) In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from the ASME B31.1 unlisted material ASTM A240-316TI, A479-316TI or A182-316TI and used under the ASME B31.1 code the facility owner must accept the use of the unlisted material.

Note 3) See Attached List of Endress+Hauser Manufacturing locations applicable to this CRN.

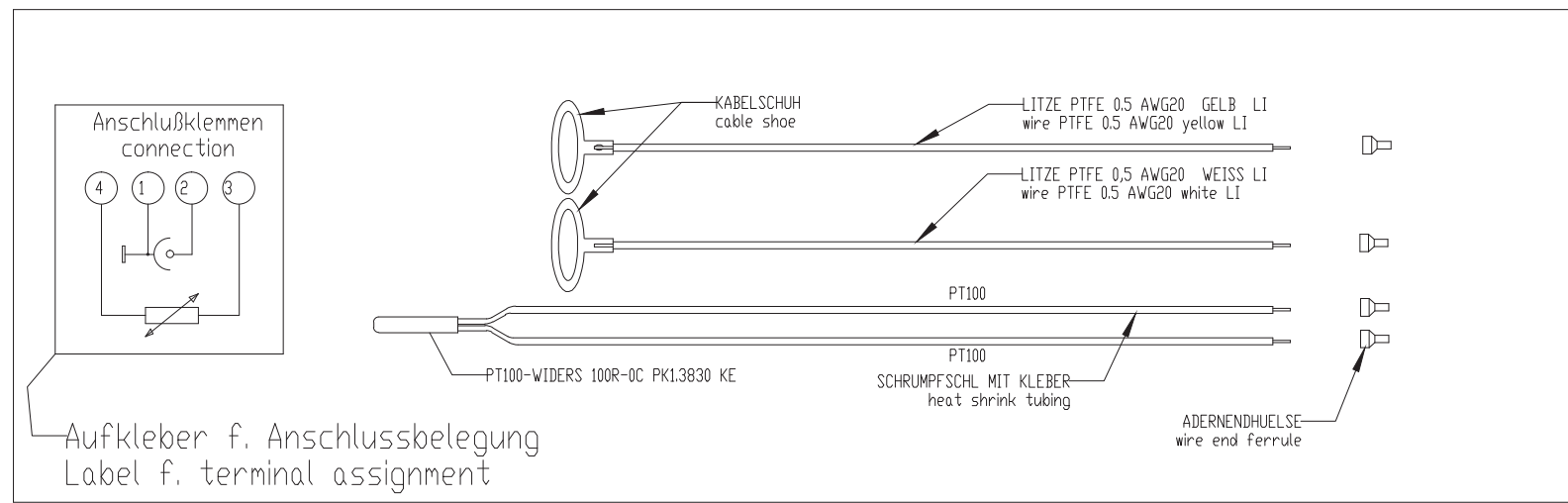
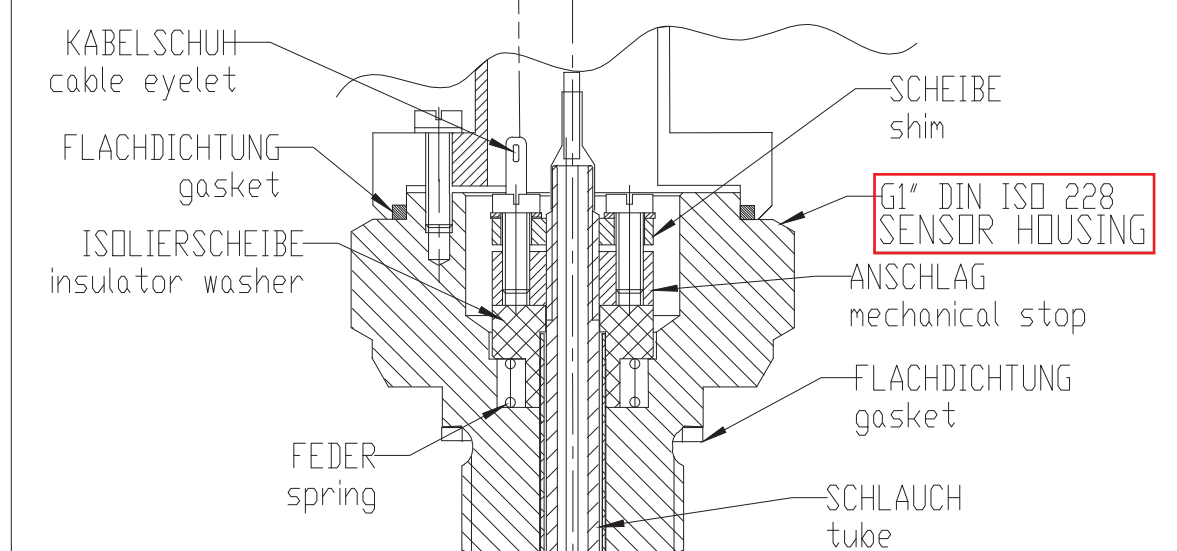
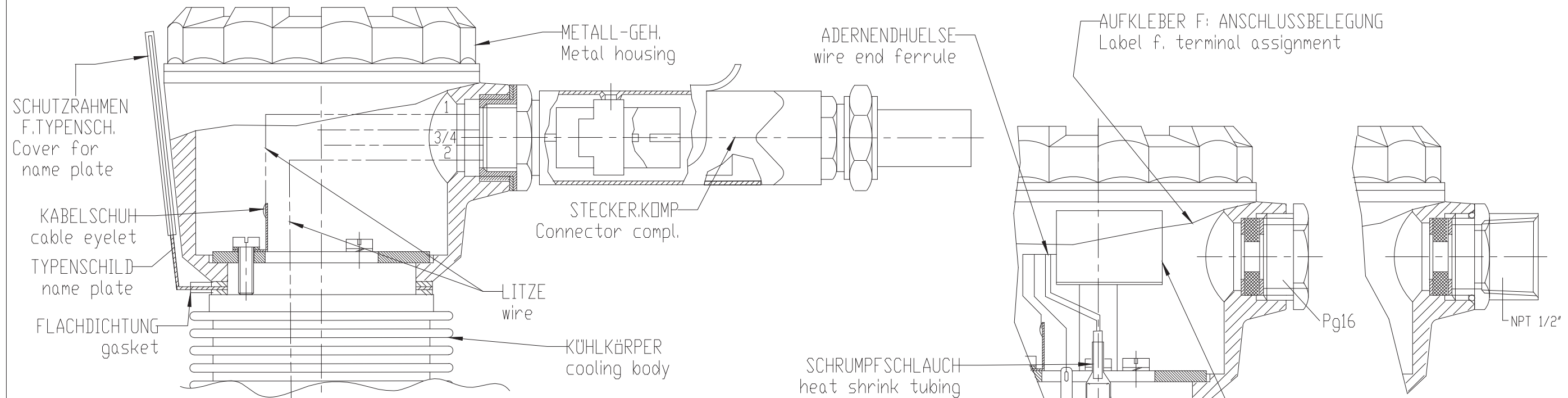


This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act

Montagehinweis:
Bei Anschlag handfest
anziehen. Anschliessend
Scheibe auf Anschlag
drehen, danach
zurückdrehen,
bis Bohrungen fluchten
und sichern mit
Zylinderschrauben.



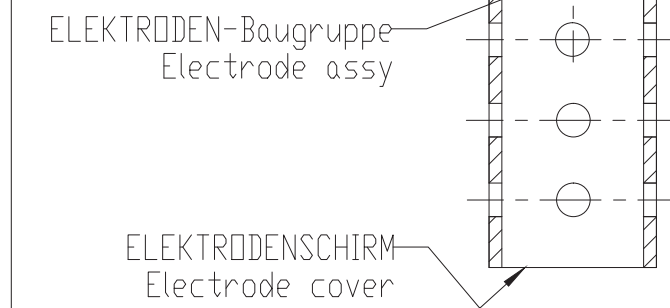
					Kantenverrundung R 0.2			
	Datum	Name	Werkstoff:		Halbzeug			
	Bearb.	02.04.04	Blo					
	Geprüft	02.04.04	SI		Oberfläche: Teilgewicht:			
Freiabtoleranz:								
DIN ISO 2768 - mittel					Maßstab:		Zng.-Nr.	
					(1:2) 1:1		134125-0415 -2A	
 ENDRESS+HAUSER CONDUCTA Besenstraße 24 Postfach 10 01 54 D-70839 Gerlingen Telefon 0715/200-0 Telefax 0715/28108					Benennung:			
					Lf-Messzelle CLS 13			
Ind.	Anderung	Datum	Bearb.	Gepr.	Verwendung:			Blatt 1/ 1



ATEX KONTROLLIERTE ZEICHNUNG,
KEINE ÄNDERUNGEN OHNE
VORHERIGE FREIGABE!
FM/CSA CONTROLLED DRAWING,
NO CHANGES WITHOUT
PRIOR APPROVAL!

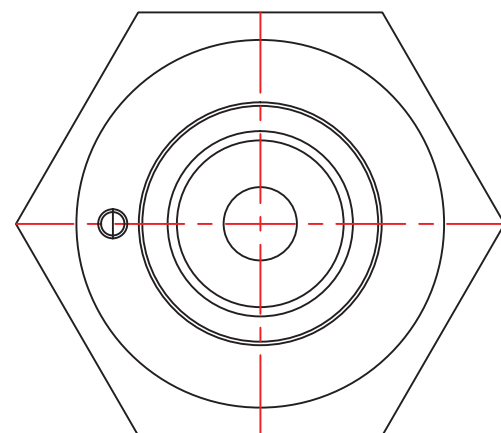


Prozessanschluß / Adaption to the process			
DN40	DN50	G1"	NPT1"

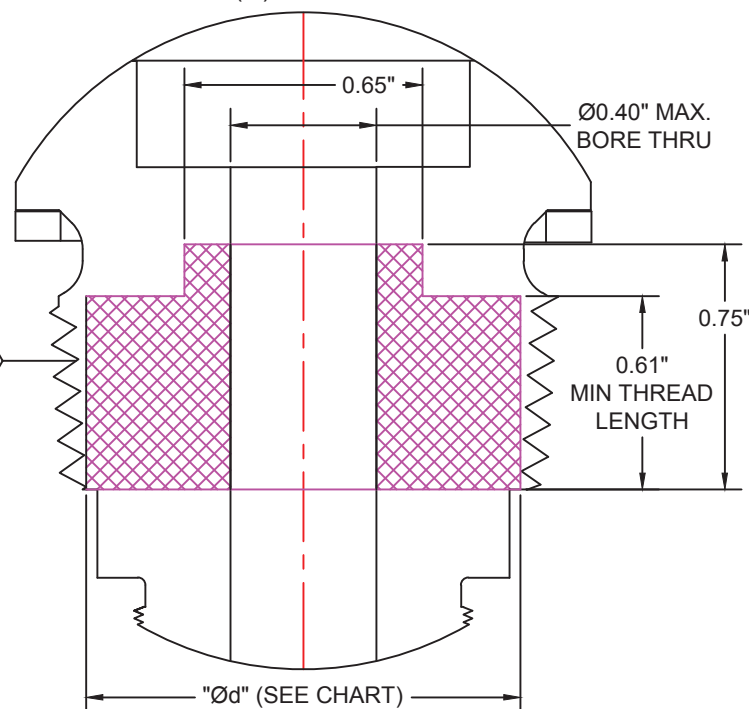


Kantenverrundung R 0.2		Werkstoff:		Halbzeug:	
Bearb.	29.07.02	Name	Si		
Geprüft	10.10.02	Ha	Oberfläche:		Teilgewicht:
Freimaßtoleranz: DIN ISO 2768 - mittel			Maßstab:	1:1	Zng.-Nr. 136538 -3A
ENDRESS+HAUSER CONDUCTA Dieselstraße 24 Postfach 10 01 54 D-70839 Gerlingen Telefon 07156/209-0 Telefax 07156/28158			Benennung: Manufacturing drawing CLS13G		
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					Blatt 1/ 1

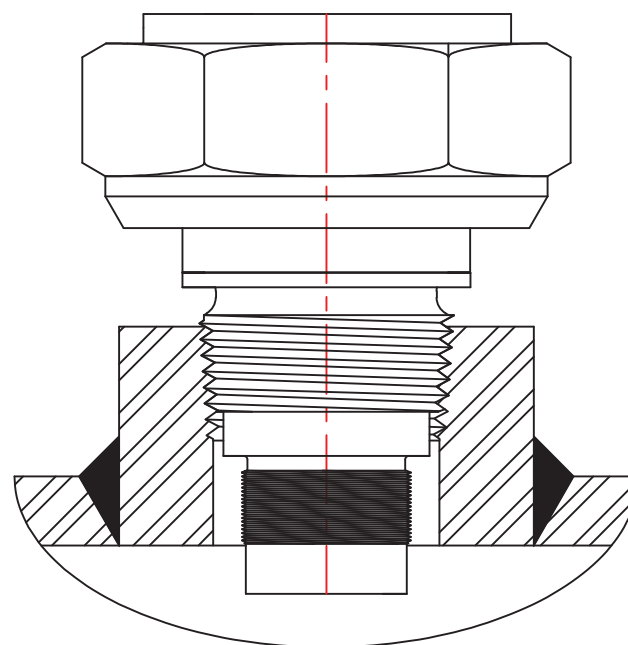
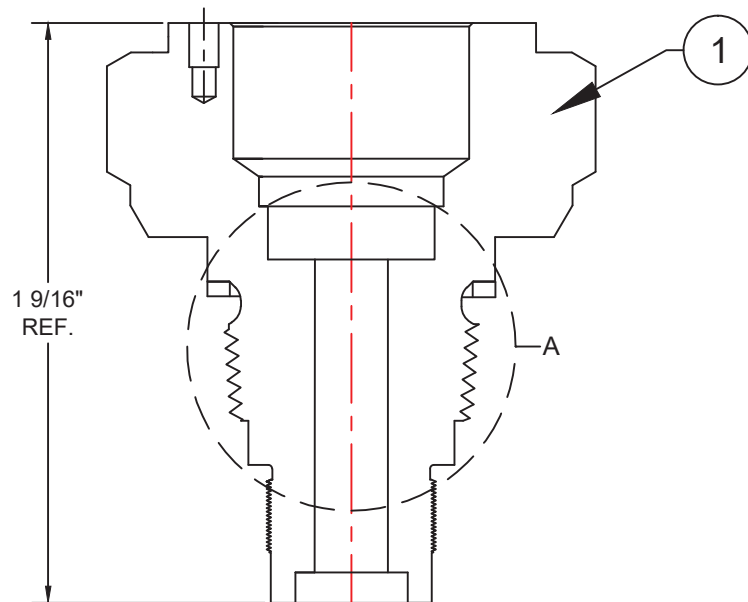
ASME AREA MODEL FOR UNSTAYED
FLAT HEAD CALCULATION PER FIG.
UG-34(Q) OF ASME SECTION VIII-1.



3/4" NPT OR BSP
G1 TYPE THREAD



DETAIL A



SENSOR HOUSING SHOWN INSTALLED
IN COUPLING FOR INSTALLATION CLARIFICATION

Bill of Materials

Item	Description	Material	Qty
1	SENSOR HOUSING	ASME SA240-316TI, ASME SA479-316TI, ASME SA182-316TI STAINLESS STEEL	1

DIMENSIONAL INFORMATION

Thread Size & Type	Pitch Diameter at Beginning of External Thread (Ød), in.
1" MNPT	1.21"
BSP G1 THREAD	1.25" (31.77 mm)

Notes:

1. All dimensions are in inches. SI units if provided are in brackets.
2. All nozzle bolt holes straddle the major centerlines unless specifically noted.
3. Item to be cleaned of scale, oil, and all foreign matter prior to hydrostatic test.
4. Impact test exempt per UHA-51.
5. Reference ENDRESS+HAUSER drawing 134125-0415-2A and 136538-3A for assembly details.
6. Reference ENDRESS+HAUSER Technical Information bulletin TI 083C/24/ae for operation specifications.

DESIGN DATA

VESSEL CODE	ASME VIII-1, 2010, A11	INTERNAL DESIGN	580 PSIG AT 482 °F	WPS	TBA
PIPE CODE	ASME B31.3, 2012	EXTERNAL DESIGN	0 PSIG AT 482 °F	PWHT	NONE
CODE STAMP	NONE	MDMT	-320 °F	WEIGHT DRY	4 LBS.
CRN NUMBER	TBA	HYDROTEST PRESS	1300 PSIG FOR 10 MIN.	WEIGHT FULL	N/A LBS.
WIND CODE	N/A	CORROSION ALLOW.	NIL	VOLUME	N/A USGAL (N/A FT^3)
SEISMIC CODE	N/A	RADIOGRAPHY	NONE	INTERNAL FINISH	NONE
IMPACT TEST	NONE	MT / PT	NONE	EXTERNAL FINISH	NONE

CONNECTION DATA

PROCESS (N1)	1" MNPT OR BSP G1 THREAD
(N2)	N/A
(N3)	N/A
(N4)	N/A
(N5)	N/A

UNLESS OTHERWISE NOTED
1. DIMENSIONS ARE IN INCHES. IF USED SI UNITS ARE IN () BRACKETS.
2. TOLERANCES
FRACTIONAL: +/- 1/8"
DECIMALS: .XX +/- .02
.XXX +/- .005

THE INFORMATION CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF ENDRESS+HAUSER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENDRESS+HAUSER IS PROHIBITED.

REV.	DESCRIPTION	DATE	INITIALS

Endress+Hauser **People for Process Automation**

TITLE CONDUCTIVITY SENSOR			
MODEL CLS13	WORK ORDER N/A		
DRAWN BY SI	CHECKED BY RI	DRAWING SIZE B	SCALE 1:1
DATE 12/12/2013	DRAWING NO. EH-CRN-2	REV. 0	SHEET 1 of 1