

345 Carlingview Drive Toronto, Ontario CANADA M9W 6N9 Tel.: 416.734.3300 Fax.: 416.231.1626

Toll Free: 1.877.682.8772 www.tssa.org

August 15, 2016

SCOTT ISLIP ROUND ENGINEERING INC 10 SEGWUN RD WATERDOWN ON LOR 2H8 CA

Service Request Type.: BPV-National AB

Service Request No.: 1873790 Your Reference No.: EH-CRN-12

Registered to.: ENDRESS + HAUSER CONDUCTA INC

Dear SCOTT ISLIP,

Please find enclosed the original response from AB, registered under the CRN No.: 0F18315.52.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Joanna Karpinski

Tel.: 416-734-3377 Fax: 416-231-6183

Email: jkarpinski@tssa.org

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

July 12, 2016

**Attention:** Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2016-03090, originally received on May 30, 2016 was surveyed and accepted for registration as follows:

CRN:

0F18315.52

Accepted on: July 12, 2016

Reg Type:

**New Design** 

Expiry Date: March 10, 2026

Drawing No.: SEE SCOPE OF REGISTRATION Rev NONE

Fitting type: SMARTEC CLD18

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

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

It is the manufacturer's responsibility to advise the end user that the fittings with the Tri-Clamps and Varivent connection can be used only with clamps that have Alberta CRN.

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.

Enclosed are stamped prints for your reference.

Sincerely,

TANG, TAO, P. Eng.

las long





# STATUTORY DECLARATION Registration of Fittings

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

Endress+Hauser People for Process Automation

	Ι,	MIKE YOUROSKI ,						
		QUALITY MANAGER						
	(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)							
	of ENDRESS+HAUSER CONDUCTA INC.							
		(name of manufacturer)						
	located	d at 4123 LA PALMA AVE., ANAHEIM, CA, USA, 92807						
	(plant address)							
	do solo (check	emnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act cone)						
	$\boxtimes$	comply with the requirements of ASME B31.3, ASME VIII-1 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 manufacture of these fittings is controlled by a quality control program which has been verified by the							
	follow	ving authority, SQS (ISO 9001:2008) 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 SMARTEC CLD18 - CAT. F						
	In sup	port of this application, the following information, calculations and/or test data are attached:						
BCT3	DRAV	WINGS, CALCULATIONS, REPORTS, SCOPE OF CRN						
1281 Fornia IY 25, 2019	}							
21212 IC-CALIFO COUNTY August 25,	DECL	ARED before me at Anghemin the County of Orange						
:000	41.	17 Feb 7016						
COMM NOTARY PU ORAN IY Term EXP	this _	$\frac{\text{day of}}{\text{(Month)}}, \frac{\text{(Year)}}{\text{(Year)}}$						
Og È	(print)	(Signature of Applicant)						
	(sign)							
Val.	(A Commissioner for Oaths)							
	}	Office Use Only Sep Scape of Registration.						
ETOB~		e best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard Clause 4.2, and is accepted for registration in Category						
	Kegis	tration Number: 18315.52 (For the Administrator/Chief Inspector of Alberta)						
		Registered: JUL 1 2 2016 Expiry Date: March 10, 2026						
The	e informa	tion you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.						

## **ENDRESS+HAUSER CONDUCTA INC.**

4123 LA PALMA AVE. ANAHEIM, CA 92807, USA

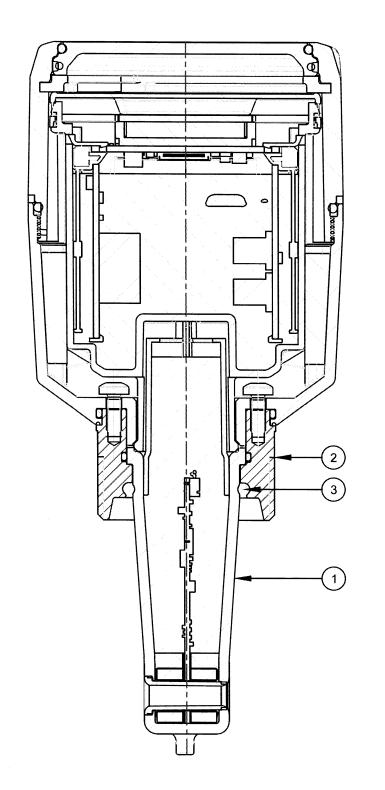
# **SCOPE OF CRN REGISTRATION**

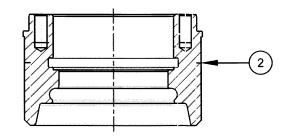
#### PRODUCT DESCRIPTION

PRODUCT DESCRIP	IION					
Description	Design Standard		End Connections		Drawings	EH TI Document
Smartec CLD18	ASME B31.3, ASME VIII-1 UG-101(m)	G 1-1/2, 2" ASME BPE, ISO2852, DIN 32676 Clamp Ferrule (Note 1), DN40-125 Varivent (Note 1)		R-0446, 401609, 401610, 401602	TI01080C/07/EN/02.14	
PRESSURE - TEMPE	RATURE RATINGS					UDCU
MDMT	MAWP AT 122 F	MAWP AT 230 F	MAWP AT 266 F		SAFETNOTES ES A	CT - PROVINCE OF ALBER
14F	174 psig	98 psig at 230 F	72.5 psig at 266 F		REGISTRA None	ATION OF FITTINGS
MATERIALS OF CON	ISTRUCTION				REGISTRATION NO.	OF 18315.5
PROCESS ADAPTER MATERIAL (NOTE 2)		SENSOR SHELL MATERIAL			DWG. NO-9 ESAT. NO	Scope of Registration
ASTM A479-316L, STAINLESS STEEL 1.4435 TYPE 316L, UNS S31603		PEEK (POLYETHERETHERKETONE)		Optional pro	PYPE OF FITTINGS 2 cess adapter material See Note 2.	s may be used.  TIALS Ago (and
MANUFACTURING L	OCATIONS				JUL 1 2 2016	TAO TANG DEN
Endress+Hauser Cond	ducta		Endress+Hauser Conducta			
70839 Gerlingen incl.	manufacturing sites		215021 Suzhou, Endress+Hauser Analytical Instruments Suzhou Co. Ltd.			
04736 Waldheim and	64823 GroB-Umstadt, 0	Germany	P.R. China			
Endress+Hauser Cond	ducta					
4123 LA Palma Ave.,	Anaheim, CA					
92807, USA						

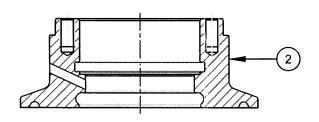
**Note 1**) The assembly clamp is not part of the CRN and is not manufactured by ENDRESS+HAUSER. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. Consult clamp Manufacturer for clamp Pressure-Temperature ratings.

**Note 2**) The following additional alloys of superior or equivalent properties to those listed above are also included in the scope of registration as follows: N06022, B574/B564, (C-22, 2.4602); N10276, B574/B564, (C-276, 2.4819); S31803, A479/A182, F51, (318LN, 1.4462); S32750, A240/A182, F53, (2507, 1.4410); S32760, A479/A182, F55, (Zeron 100, 1.4501); N06600, B166/B564, (Inconel 600, 2.4816); N06625, B446/B564, (Inconel 625, 2.4856); N08825, B425/B564, (Inconel 825, 2.4858); S30400/S30403, A479/A182, (304/304L, 1.4301/1.4306/1.4307);

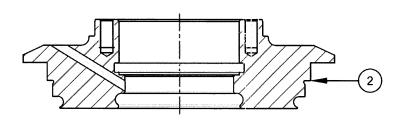




**G 1-1/2 PROCESS CONNECTION** 



ISO2852 CLAMP 2"



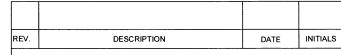
GEA TUCHENHAGEN VARIVENT DN40-125

	Bill of Materials							
Item	Description	Description Material						
1	PLASTIC SHELL	PEEK (POLYETHERETHERKETONE)	1					
2	PROCESS ADAPTOR	STAINLESS STEEL 1.4435 TYPE 316L STAINLESS STEEL UNS S31603	1					
3	PLASTIC SHELL SEAL	ELASTOMER	1					

## Notes:

- 1. All dimensions are in inches. SI units if provided are in brackets.
- 2. Reference ENDRESS+HAUSER Technical Information Bulletin TI01080C/07/EN/02.14 and drawings 401609, 401610, 401602.
- 3. Design conditions:
- 174 psig at 122F
- 98 psig at 230F
- 72.5 psig at 266F (max. 60 minutes)

0F18315.52



# Endress + Hauser 4

**People for Process Automation** 

TITLE
SMARTEC CRN GENERAL ARRANGEMENT DRAWING

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
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PROPERTY WORK ORDER CLD18 N/A CHECKED BY RI NONE SI В FRACTIONAL: +/- 1/8" DECIMALS: .XX +/- .02 .XXX +/- .005 18/01/2016 R-0446 1 of 1 PROHIBITED

