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

April 04, 2019

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

Service Request Type.: BPV-National MB
Service Request No.: 2389730
Your Reference No.: EH-CRN-19
Registered to.: ENDRESS + HAUSER CONDUCTA INC

Dear SCOTT ISLIP,

Please find enclosed the original response from MB, registered under the CRN No.: 0F20561.54.

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,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email :tfrancis@tssa.org

Inspection and Technical Services Manitoba
500 - 401 York Avenue
Winnipeg Manitoba R3C 0P8
T (204) 945-3373
F (204) 948-2309
www.firecomm.gov.mb.ca/codes_steam_pressure.html

March 1, 2019

TSSA
345 Carlingview Drive
Toronto, ON
M9W 6N9

Attn: Tanya Francis

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: Endress & Hauser Conducta Inc.

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
OUSAF11 OPTICAL SENSOR	0F20561.54	39322

An invoice covering survey and registration fees is enclosed.

NOTE:

- *CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction:* ***TSSA***
- *See attached stamped "this is part of CRN" for scope of registration.*
- *This registration expires* ***July 28, 2028****.*

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.

Yours truly,

Rabie Harb, P. Eng.
Engineer
Office of the Fire Commissioner
Inspection and Technical Services Manitoba
508 - 401 York Avenue
Winnipeg, Manitoba, R3C 0P8
Phone: 204-945-3373
Email: rabie.harb@gov.mb.ca

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

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

Endress+Hauser

People for Process Automation

STATUTORY DECLARATION

Registration of Fittings

I, MIKE YOUROSKI, QUALITY MANAGER
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of ENDRESS+HAUSER CONDUCTA INC.
(Name of Manufacturer)

Located at 4123 LA PALMA AVE., ANAHEIM, CA, USA, 92807 1-714-577-5600
(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
ASME B31.3, ASME B31.1
(Title of recognized North American Standard)
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

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

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO:9001:2008 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:
DRAWINGS, CALCULATIONS, REPORTS, SCOPE OF CRN
(drawings, calculations, test reports, etc.)

Declared before me at _____ **in the** _____ **of** _____

the _____ **day of** _____ **AD 20**____. See attached acknowledgment

Commissioner for Oaths:

_____
(Printed name)

_____
(Signature)

Michael Yourosk
(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: ΦF20561.54

Registered by: Rabie Harb

Dated: 2019/03/01

NOTE: This registration expires on 2019/07/28

Inspection & Technical Services Manitoba — Office of the Fire Commissioner
Manitoba
REGISTERED
C.R.N.: ΦF20561-54
Signed: RH
Date: 2019/03/01

PV 09553 (06/04)

Tanya Simone Francis,
a Commissioner, etc. Province of Ontario,
for the Technical Standards & Safety Authority.
Expires August 9, 2021.

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

Inspection & Technical Services Manitoba
Manitoba
THIS IS PART OF CRN
OF20561.54

SCOPE OF CRN REGISTRATION

PRODUCT DESCRIPTION

Description	Design Standard (Note 3)	End Connections (Note 1)	Drawings	EH TI Document
OUSAF11 Optical Sensor	ASME B31.3, ASME B31.1, ASME BPE, ASME VIII-1 UG-101	1" NPT, G1 Thread, 2", 2-1/2" and 3" ASME BPE Ferrule, DN40-125 Varivent	401573, 401574, 401785, 401786, 401788, 401892, 401993, 401994, 401988	TI00474C/07/EN/15.16

PRESSURE - TEMPERATURE RATINGS

MDMT	MAWP AT 194F (Continuous)	MAWP AT 266 F (Intermittent)	Notes
32F	150 psia	150 psia	The sensor may be continuously subjected to a temperature of 266F for a length of time equal to 2 hours maximum.

MATERIALS OF CONSTRUCTION

Process Housing Material (Note 2)	Sensor Head Material	Notes
Stainless Steel ASTM A479-316L 1.4435 TYPE 316L UNS S31603	FEP (Fluorinated ethylene propylene)	Optional process housing materials may be used. See Note 2.

MANUFACTURING LOCATIONS

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

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 ASTM A182-304, ASTM A479-304 UNS S30400,
Type 304L S.Steel ASTM A182-304L, ASTM A479-304L UNS S30403,
Type 316 S.Steel ASTM A182-316, ASTM A479-316 UNS S31600,
Alloy 20 ASTM B462, ASTM B366 UNS N08020,
Hastelloy C-276 ASTM B564, ASTM B574 UNS N10276,
Hastelloy C22 ASTM B366, ASTM B564 UNS N06022,
Hastelloy B3 ASTM B462, ASTM B564, ASTM B335 UNS N10675,
Monel 400 ASTM B564, ASTM B164 UNS N04400 (Note: Monel 400 limited to 100F max.),
Inconel 600 ASTM B166, ASTM B564 UNS N06600,
Inconel 625 ASTM B564, ASTM B446 UNS N06625,
Inconel 825 ASTM B425, ASTM B564 UNS N08825,
Duplex ASTM A479, ASTM A182 UNS S31803,
Super Duplex ASTM A479, ASTM A182-F53 UNS S32750,
Super Duplex ASTM A479, ASTM A182-F55 UNS S32760,
Titanium ASTM B381-F3 UNS R50550 (Note Titanium limited to 247F max for ASME B31.3 service and 173F max. for ASME B31.1 Service.

THIS IS PART OF CRN OF20561.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

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

SCOPE OF CRN REGISTRATION CONTINUED

Note 3) In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the following non listed materials.

Hastelloy C-276 ASTM B564 UNS N10276,
Monel 400 ASTM B564, ASTM B164 UNS N04400,
Inconel 825 ASTM B564 UNS N08825,
Hastelloy C22 ASTM B564 UNS N06022
Hastelloy B3 ASTM B462, ASTM B564, ASTM B335 UNS N10675,
Inconel 600 ASTM B166, ASTM B564 UNS N06600,
Super Duplex ASTM A479, ASTM A182-F55 UNS S32760,

In all cases the above unlisted materials shall only be used for nonboiler external piping.

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Safety Program