Technical Safety Authority of Saskatchewan

2202 2nd Ave.
Regina, SK S4R 1K3
PH: (306)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)760-9255
Email: boilerpermits@tsask.ca
Website: www.tsask.ca

Technical Safety Authority of Saskatchewan Boiler & P.V. Safety Unit
CRN 0F12978.53
File 11033
REGISTERED
Date 19 Feb 2019
03 Jan 2029
Design Survey Office

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Michael Frei, Quality Management Representative,

responsible for the Integrated Quality Management System
(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)

Endress+Hauser
People for Process Automation

of: Endress+Hauser SE+Co.KG
(name of manufacturer)

located at: Hauptstrasse 1 (Plant Address – Apt/Street) Maulburg, Germany (City,Prov) DE-79686 (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 _____ (title of recognized North American Standard) which specifies the dimensions, 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 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, 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 - Solicap M

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

Scope of Registration, Reports, Drawings, Calculations

II. Declaration

DECLARED before me at _____ In the _____ of _____

this _____ day of _____, _____

(print name) (Signature)

(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 _____

(Registration Number) (Date Registered – MM DD YYYY) (Expiry Date – MM DD YYYY)
(For the Administrator / Chief Inspector)

Endress+Hauser
People for Process Automation

WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 2

ENDRESS+HAUSER SE+Co. KG MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES

(rev. 28/November/2018)

Endress+Hauser SE+Co. KG
Hauptstrasse 1
79689 Maulburg
Germany
ISO 9001 Certified by SQS

Endress+Hauser (Suzhou) Automation Instrumentation Co. Ltd.
China – Singapore
Suzho Industrial Park (SIP)
Su Hong Zhong Lu No. 491
Jiangsu Province
215021 Suzhou, P.R. China
ISO 9001 Certified by SQS

Endress+Hauser (India)
Automation Instrumentation Pvt. Ltd.
M-192, Waluj MIDC
Aurangabad – 431136,
Maharashtra State, India
ISO 9001 Certified by SQS

Endress+Hauser Yamanashi Co., Ltd.
862-1 Mitsukunugi
Sakaigawa-cho
Fuefuki-shi
406 0846 Yamanashi, Japan
ISO 9001 Certified by SQS

Endress+Hauser (USA)
Automation Instrumentation Inc.
2340 Endress Place
Greenwood, Indiana 46143, USA
ISO 9001 Certified by SQS

Endress+Hauser (Brazil)
Instrumentacao e Automacao Ltda.
Estrada Municipal Antonio Sesti
600 Bairro Recreio Costa Verde
Itatiba/SP – 13254-085, Brazil
ISO 9001 Certified by SQS

Endress+Hauser
People for Process Automation

WORLDWIDE LOCATIONS APPENDIX – PAGE 2 OF 2

ENDRESS+HAUSER SE+Co. KG MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES

(rev. 28/November/2018)

Endress+Hauser SE+Co. KG
Miramstrasse 87
34123 Kassel
Germany
ISO 9001 Certified by SQS

Endress+Hauser SE+Co. KG
Queremathe 2
14532 Stahnsdorf
Germany
ISO 9001 Certified by SQS

Technical Safety Authority of Saskatchewan

2202 2nd Avenue
Regina, SK S4R 1K3 Canada
1 (866) 530-8599
info@tsask.ca
www.tsask.ca

REGISTRATION OF A PRESSURE FITTING DESIGN

19-Feb-19

Endress+Hauser SE+Co. KG
Hauptstrasse 1
79689 Maulburg, Germany

Attention: Roger Wenige **File Number: 11033 [0 F]**

Re: Manufacturer: **Endress+Hauser SE+Co. KG**
Item: **Point level switch for bulk solids, Solicap M FTI55, FTI56**
Catalog or Drawing: **Scope of Registration, Doc. No. 961003390**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

0F12978.53 **Expiry Date: Jan 03, 2029**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Mohammad Rokanuzzaman, P.Eng.
Codes and Standards Compliance

Remarks:
CRN registered under reciprocal agreement and conditional upon compliance with the notes on the original registration.

A2 Evaluation based on proof pressure tests or calculations

The following table shows the overview for Solicap M, the process connections refer to a calculation or to a proof test.
Note: The correlation between the drawing and the associated process connection is defined in the first column. For e.g. No.1.1 drwg. 960008564 → 1.X and X.1 = thread R1 ½ and thread 1 ½ NPT.

A2.1 SOLICAP M FTI55/56 rod and rope (see drawing Solicap M SCAP 960008564)

No.	type of test specimen	process connec-tion	classification of material	temp. range [°C]	process pressure [bar]	verified through
1.1	Solicap M FTI55	R 1 1/2"	**thread** 316L (A-479)	PPS -50 to +180 PE -50 to +80	20(1)	Solicap-thread-R 1 1/2.pdf
		NPT 1 1/2"				Solicap-thread-NPT 1 1/2.pdf
1.2	Solicap M FTI55	ASME flange 2" to 4"	**Adapter:** 316L (A-479) **flange** Dual rated material 316/316L	PPS -50 to +180 PE -50 to +80	20(1) 20(2)	**Adapter/flange** Solicap-flange-size-class150.pdf
2.1	Solicap M FTI55	R 1 1/2"	**thread** 316L (A-479) **tube** A-312 TP316L wld & smls pipe	PPS -50 to +180 PE -50 to +80	20(1)	**thread:** Solicap-thread-R 1 1/2.pdf Solicap-thread-NPT 1 1/2.pdf **tube** Solicap-tube-external-pressure-25bar.pdf
		NPT 1 1/2"				
2.2	Solicap M FTI55	ASME flange 2" to 4"	**Adapter:** 316L (A-479) **flange** Dual rated material 316/316L	PPS -50 to +180 PE -50 to +80	20(1) 20(2)	**Adapter/flange** Solicap-flange-size-class150.pdf
3.1	Solicap M FTI55	R 1 1/2"	**thread** 316L (A-479)	PPS -50 to +180 PE -50 to +80	20(1)	Solicap-thread-R 1 1/2.pdf
		NPT 1 1/2"				Solicap-thread-NPT 1 1/2.pdf
3.2	Solicap M FTI55	ASME flange 2" to 4"	**Adapter:** 316L (A-479) **flange** Dual rated material 316/316L	PPS -50 to +180 PE -50 to +80	20(1) 20(2)	**Adapter/flange** Solicap-flange-size-class150.pdf
4.1	Solicap M FTI56	R 1 1/2"	**thread** 316L (A-479)	PTFE -50 to +180 PA -50 to +120	20(1)	Solicap-thread-R 1 1/2.pdf
		NPT 1 1/2"				Solicap-thread-NPT 1 1/2.pdf
4.2	Solicap M FTI56	ASME flange 2" to 4"	**Adapter:** 316L (A-479) **flange** Dual rated material 316/316L	PTFE -50 to +180 PA -50 to +120 -80 to +200	20(1) 20(2)	**Adapter/flange** Solicap-flange-size-class150.pdf
5.1	Solicap M FTI56	R 1 1/2"	**thread** 316L (A-479)	PTFE -50 to +180 PA -50 to +120 -80 to +200	20(1)	Solicap-thread-R 1 1/2.pdf
		NPT 1 1/2"				Solicap-thread-NPT 1 1/2.pdf
5.2	Solicap M FTI56	ASME flange 2" to 4"	**Adapter:** 316L (A-479) **flange** Dual rated material 316/316L	PTFE -50 to +180 PA -50 to +120 -80 to +200	20(1) 20(2)	**Adapter/flange** Solicap-flange-size-class150.pdf

1) Derating for PE or PA fully insulated version (see instruction manual)
2) Depending on flange size see ASME B16.5-2003, table2-2.2, p.37, "pipe flanges and flange fittings"

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