Inspection and Technical Services Manitoba
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www.firecomm.gov.mb.ca/codes_steam_pressure.html

November 20, 2015

ENDRESS+HAUSER GmbH+Co. KG
Hauptstr. 1
Maulburg, Germany
79689

Attn: Roger Wenige

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: ENDRESS+HAUSER GmbH+Co. KG

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
Sensor Types: Soliphant M FTM50, M FTM51, T FTM20, and T FTM21	0F10907.54	35866

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* ***May 11, 2026****.*

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,

Ryan Orlesky, C.E.T.
Design Surveyor
Office of the Fire Commissioner
Inspection and Technical Services Manitoba
500 - 401 York Avenue
Winnipeg, Manitoba, R3C 0P8
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MANITOBA

DEPARTMENT OF LABOUR
AND IMMIGRATION
500 – 401 York Avenue
Winnipeg, Manitoba R3C 0P8

STATUTORY DECLARATION
REGISTRATION OF FITTINGS

(a) Design Qualification

I. Michael Frei
(See Note 2)

Quality Manager, responsible for the Integrated Quality Management System
(Position e.g.: president, plant manager, chief eng.)

of Endress+Hauser GmbH+Co.KG (Germany); Endress+Hauser Automation Instr. Co. Ltd (China); Endress+Hauser Automation Instr. Pvt. Ltd (India); Endress+Hauser Automation Instr. Inc. (USA) (Name of company)

located at 79689 Maulburg, Germany; 215021 Suzhou, P.R. China; Aurangabad-431136, India; Greenwood, IN 46143, USA
(Plant Address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act,

X comply with all the requirements of the ANSI/ASME codes as to their dimensions.

or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code or 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 ISO9001:2008, and has been verified by the following authority or authorized agency IQNet and SQS.

The fittings covered by this declaration, for which I seek registration, are Category F
Soliphant M FTM50, 51, Soliphant T FTM20, 21

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

SoR #960017940 , Technical Description TD-CRN_SoliphantM_T_AMEND1, dwgs #960007246-A, #960007258

Declared before me at _____ in the province/state of _____ the _____

day of _____ AD 20_____

A (commissioner for oaths)

_____ _____
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.

MAY 11, 2026

Registered Number CRN 0F10907.54 For the Chief Inspector

Date: NOV 20, 2015

Notes:

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

SoR Scope of Registration **960017940**

Sensor type 1: **Soliphant M FTM50, FTM51**

Sensor type 2: **Soliphant T FTM20, FTM21**

Endress+Hauser

People for Process Automation

No.	Type of test specimen	type of instrument(1)	process connection	classification of material	temperature limits Tmin [°C]	temperature limits Tmax [°C]	process pressure at Tmin in [bar]	process pressure at Tmax in [bar]	test pressure po [bar]	verified through
1	Soliphant M	FTM 50/51	ASME flange	316 L (3)	-50	300	25	25	-	FEA report Soli-FTM50-51-ASME-flange.pdf
2	Soliphant M	FTM 50/51	1 ¼ NPT (Ø35)	316 L (3)	-50	300	25	25	200	proof test report ASME_SoliMFTM51_35mm (2)
3	Soliphant M	FTM 50/51	1 ½ NPT (Ø35)	316 L (3)	-50	300	25	25	200	proof test report ASME_SoliMFTM51_35mm
4	Soliphant M	FTM 50/51	1 ½ NPT (Ø42)	316 L (3)	-50	300	25	25	200	proof test report ASME_SoliMFTM51_42,4mm thread connection see ASME_SoliM51_35mm
			R 1 ½ (Ø42)	316 L (3)	-50	300	25	25	200	proof test report ASME_SoliMFTM51_42,4mm
5	Soliphant M	FTM 50/51	Clamp ISO 2852 DN40-51	316 L (3)	-50	121	~~11. Apr~~ 11.4	~~11. Apr~~ 11.4	-	FEA report LiqM-50-51-Clamp-DN40-51.pdf
10	Soliphant T	FTM 20/21	1 ½ NPT	316 L (4)	-50	150	25	25	200	proof test report ASME_SoliTFTM21_29mm
11	Soliphant T	FTM 20/21	1 ¼ NPT	316 L (4)	-50	150	25	25	200	proof test report ASME_SoliTFTM21_29mm (2)

(1) FTM 20/50 = compact version; FTM 21/51 = with extension tube

(2) 1 ½ NPT is worst case (same pitch, but greater diameter)

(3)	all threads and clamps:	316L (ASTM A479)
	flange:	316/316L (ASTM A182 Gr.F316/316L or A240 Gr.F316/316L)
	extension tube:	316L (ASTM A312)
	fork:	316L (ASTM A351 Gr.CF3M)
	rod:	316L (ASTM A276)
(4)	all threads:	316L (ASTM A479)
	sensor tube and extension tube:	316L (ASTM A312)

Inspection & Technical Services Manitoba — Office of the Fire Commissioner — Manitoba — THIS IS PART OF CRN 0F10907.5C

Manufacturing locations:

Endress+Hauser GmbH Co. KG
DE-79689 Maulburg, Germany

Endress+Hauser (USA) Automation Instrumentation Inc.
Greenwood, Indiana, 46143, USA

Endress+Hauser Suzhou Automation Instrumentation Co. Ltd.
215021 Suzhou, P.R. China

Endress+Hauser (India) Automation Instrumentation Pvt. Ltd.
Aurangabad-431136, India