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ENDRESS + HAUSER GMBH + CO. KG
HAUPTSRASSE 1, DE-79689
MAULBURG
GERMANY

Date: October 8, 2015
Account #: 58460
Journal #: 63713
Our File #: 5556376

Attn: ROGER WENIGE

Re: Application for Design Registration

The design, as detailed in your, 15000065, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS & HAUSER (GERMANY, INDIA, PR CHINA, USA) **CRN:** 0F10907.51

Drawing #: 960017940

Conditions Of Registration:

Reg'n renewal of Level Limit Switches Soliphant M FTM50,FTM 51 & Soliphant T FTM20,FTM21.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

Registration as per scope of registration sheet 18.09.2015. As required by CSA B51 4.2.1, this registration expires on May 11, 2026. This CRN is valid until the expertly date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:

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)

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

0F10907.5C
Safety AUTHORITY
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