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

Date: March 26, 2019
Account #: 58460
Journal #: 72864

Attn: ROGER WENIGE

Re: Application for Design Registration

The design, as detailed in your, DRW: SOR 961003390, for a Fitting is accepted for registration as follows:

Registered To: ENDRESS + HAUSER SE + CO. KG **CRN:** 0F12978.51

Drawing #: SOR 961003390 **Drawing Revision:** N/A

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:
As required by CSA B51 4.2.1, this registration expires on 03-Jan-2029. This CRN is valid until the expiry 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. Any additional conditions of registration stated in TSSA CRN# 0F12978.5R1 registration shall apply to BC registration.

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

Janina Mihailescu

janina.mihailescu@technicalsafetybc.ca
Design Administration

cc:

THIS IS PART OF CRN 0F12978.5R1
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

TECHNICAL SAFETY BC

CRN #: 0F12978.51
Date: 26 Mar 2019
BC J#: 72864

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"

Notes: Design pressure of flanged models to follow values from ASME B16.5 at design temp. Material to be SA-240. KK 1/3/19