

REGISTRATION OF A PRESSURE FITTING DESIGN

20-Aug-20

Pressure Vessel Engineering
120 Randall Drive, Suite B
Waterloo, Ontario
N2V 1C6**Attention: Catherine Diplock****File Number: 11630 [0 F]****Re: Manufacturer: ABB Limited - Measurement & Analytics**
Item: Measurement Probes
Catalog or Drawing: See scope 15179s-1 R0

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:

0F22557.53 Expiry Date: July 15, 2030

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,

Williams Uju, P.Eng.
Codes and Standards Compliance**Remarks:**

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, John Patrick Marshall
Quality Manager
(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)

In this space, show facsimile of
manufacturer's logo or mark
appearing on the fitting



of: ABB Limited - MEasurement and Analytics
(name of manufacturer)

located at: Oldends Lane, Stonehouse, GL10 3TA, United Kingdom
(Plant Address – Apt/Street) (City, Prov) (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 _____ which specifies the dimensions,
(title of recognized North American Standard)
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 2018ED 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, BSI 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 Measurement Probes

In support of this application, the following information, calculations and / or test data are attached:
Scope of Registration: 15179s-1

II. Declaration

DECLARED before me at Gloucester In the County of England
this 4th day of June, 2020
Paul David Andrew O'Hara [Signature]
(print name) (Signature)
[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)
(For the Administrator / Chief Inspector)

(Expiry Date – MM DD YYYY)



**Technical
Safety Authority
of Saskatchewan**

Registration No. 0F22557.53
File No. 11630
Registered
Date: August 20, 2020
Expiry Date: July 15, 2030
Codes & Standards Compliance Office



ABB Limited – Measurement and Analytics
Oldends Lane
Stonehouse, GL10 3TA, UK

Document: 15179s-1 R0
Date: June 11, 2020

Design Conditions:

- Design Code: ASME B31.3 2018ED
- MAWP: 81psi @ 212°F
- MDMT: 23F @ 81psi
- Hydrotest: 122 psi @ 70F
- Material:
 - Body: PVDF [Material: Arkema Kynar 710]
 - End: Glass

Drawings Included:

- 3KXA004001U0001: 100GP GA
- 3KXA004002U0001: 100Ultra GA
- 3KXA004004U0001: 100GP-D
- 3KXA004005U0001: 100Ultra-D Digital
- 3KXA004007U0001: 500PRO
- 3KXA004009U0001: 500PRO-D

Supporting Document:

- Burst test: PVEng_Report 20010210
 - The Burst test failed at 816 psi. As the components are plastic and glass, a 10x safety factor is used. The MAWP of these units 81 psi.

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