

REGISTRATION OF A PRESSURE FITTING DESIGN

22-Apr-20

TSSA
345 Carlingview Drive
Toronto, Ontario
M9W 6N9

Attention: Tanya Francis

File Number: 11443 [0 F]

Re: Manufacturer: Vaisala Oyj
Item: Refractometer Sensors
Catalog or Drawing: Per Scope of Registration

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:

OF21849.53 Expiry Date: October 08, 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,



Adenike Adeoti, P.Eng.
Codes and Standards Compliance

Remarks:

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



the pressure equipment safety authority

DESIGN SCOPE FOR REGISTRATION OF FITTINGS

(Supplementary to Form AB-41)
AB-257 2016-01

This form may be used to document the Design Scope for fittings that require registration in accordance with the PESR s14 and s17. In each column, provide the information required or list the document number where the information can be found. If the column is not applicable to the fitting design, then indicate N/A.

Note: This form shall be completed and submitted with Form AB-41 Statutory Declaration Registration of Fittings.

Product Description	Primary Pressure Bearing/ Retaining Component	Material of Construction	End Connections and Size Range	Design Condition		MDMT	Pressure Class or Schedule	Design Code of Construction or Standard	Catalog page or Drawing numbers
				MAWT	MAWP				
Refractometer PR-23-AC, PR-33-AC, PR-43-AC w/ sensor head H25-P15, Sanitary clamp PR-9201 and Installation ferrule PR-9205	PR Head	ASTM A 479/ A 479M Grade AISI316L/AISI304	According to ISO2852	150°C	15bar	-40°C	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	SB:PR-23-A/4 October 2014 SB:PR-33-AC/3 SB: PR-43-A-5 February 2018, Drawings # DIM3041, 510, 412, 2487, 3960, MTG- 265, DIM413, 1219, MTG-442, DIM3937, MTG- 3936, DIM3957, MTG-3958, DIM3966, MTG- 3969
Refractometer PR-23/43-AP w/ sensor heads H25-P15-L170, H25-P15-L140, H25-P15-L42, H25-P15-L14, Sanitary clamp PR-9201 and Installation ferrule PR-9205	PR Head	ASTM A 479/ A 479M Grade AISI316L/AISI304	According to ISO2852	150°C	15bar	-40°C	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	K-Patents catalogues: SB:PR-23-A/4 October 2014 SB: PR-43-A-5 February 2018, Drawings # DIM3041, 510, 412, 2487, 3960, MTG- 265, DIM413, 1219, MTG-442, DIM3937, MTG- 3936, DIM3957, MTG-3958, DIM3966, MTG- 3969



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Refractometer PR-23-GP	Sensor head	ASTM A 479/ A 479M Grade AISI316L/ Alloy 20/ Hastelloy C276	ANSI B16.5	150°C	10.3bar	N/A	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	K-Patents catalogues: SB:PR-23-A/4 October 2014, Drawings # DIM421, MTG434, DIM450, DIM462
Refractometer PR-23-RP	PR head	ASTM A 479/ A 479M SA-240 316L, SA-479 316L, SB-463, SB-473, SB-575, SB-574	ANSI B16.5	150°C	25bar	N/A	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	K-Patents catalog SB:PR-23-A/4 October 2014, DWG#2762 REV A, 2295 REV C, 2294 REV C, 2520 REV C, 2271 REV I, 2278 REV F
Refractometer PR-23-SD	PR head	ASTM A 479/ A 479M SAF2205	ANSI B16.5	180°C	17.7bar	N/A	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	K-Patents catalog: SB:PR-23-A/4 October 2014, Drawings # DIM421, MTG434, DIM450, DIM462
Refractometer PR-23-W	PR head	ASTM A 479/ A 479M AISI316L with PTFE lining	ANSI B16.5	150°C	9.3bar	N/A	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	K-Patents catalog: SB:PR-23-A/4 October 2014, Drawings # DIM421, MTG434, DIM450, DIM462
Cross flow cell models: CFC-RP-M20-HA-M10-NC, CFC-RP-M20-HC-M10-NC, CFC-RP-M20-SS-M10-NC, CFC-RP-M20-HA-M20-NC, CFC-RP-M20-HC-M20-NC, CFC-RP-M20-SS-M20-NC, CFC-RP-M20-HA-M30-NC, CFC-RP-M20-HC-M30-NC, CFC-RP-M20-SS-M30-NC	Cell body	SA-249 TP316L, SB-464, SB-619	ANSI B16.5	150°C	25bar	N/A	N/A	ASME Sec. VIII Div. 1 Ed. 2010 + Addenda 2011	K-Patents catalog, DWG#2762 REV A, 2295 REV C, 2294 REV C, 2520 REV C, 2271 REV I, 2278 REV F



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FOR ABSA USE ONLY:
Reference Tracking No. _____

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Kaisa Sade
Head of Manufacturing
(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)
of: Vaisala Oyi
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



located at: Vanha Nurmijärventie 21 Vantaa 01670
(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, 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 Sec. VIII Div.1 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, DNV GL Business Assurance Finland Oy Ab 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 PR-23-AC, -AP, -GP, -RP, -SD, -W, PR-33-AC, PR-43-AC, -AP, cross flow cell

In support of this application, the following information, calculations and / or test data are attached:
drawings 462,510,1219,2277,2278,2294,2295,2487,2520,2762,3041,3936,3937,3957,3958,3960,3966,3969,DIM412,DIM413,DIM421,DIM450,MTG-265,MTG434,MTG442; calculations (3)

II. Declaration

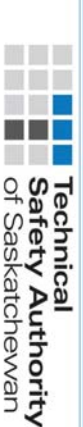
DECLARED before me at ESPOO In the Local Register Office of Usinmaa
this 14 day of June, 2019
(print name) Annastina Lauriainen
(Signature of Commissioner of Grits) Notary Public
(Signature) 



III. Office Use Only

To the best of my knowledge and belief, the application complies with the provisions of the **Saskatchewan Boiler and Pressure Vessel Safety Act**, Clause 4.2, and is accepted for registration.

(Registration Number)



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