

Montréal, 3 Février 2020

MME TANYA FRANCIS  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ONTARIO,  
CANADA M9W6N9

Fabricant : VAISALA OYJ  
21 VANHA NUMIJARVENTIE  
VANTAA  
FINLAND 01670

Numéro de dossier : 951634  
Numéro(s) de dessin (s) : SEE SCOPE OF REGISTRATION ATTACHED

**Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement**

Madame,

La Régie du bâtiment du Québec (RBQ) vous informe que votre demande d'enregistrements de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) : 0F21849.56

Nous portons à votre attention cette exigence applicable à la réglementation sur les appareils sous pression et des codes et normes qui y sont associés :

- Le constructeur doit maintenir un système de contrôle de la qualité valide pour fabriquer selon ce NEC.

Le présent avis d'approbation ne dégage pas le constructeur de ses responsabilités quant à la conception ou à la construction des équipements fabriqués selon ce NEC.

Salutations distinguées,

Bureau d'expertise et d'homologation en équipements sous pression

N.B. Translation of this communication below.



Montréal, February 3, 2020

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CANADA M9W6N9

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21 VANHA NUMIJARVENTIE  
VANTAA  
FINLAND 01670

Our reference : 951634  
Design number : SEE SCOPE OF REGISTRATION ATTACHED

**Subject: Registration of designs – Confirmation of approval**

Dear Madam,

The Régie du bâtiment du Québec (RBQ) informs you that your application for the registration of designs has been evaluated and that the design was registered under the Canadian Registration Number (CRN\NEC) : 0F21849.56

We bring your attention this requirement of the regulation respecting pressure vessels, and the codes and standards adopted:

- The manufacturer must maintain a valid quality control program to produce according to the CRN.

This notice of approval does not relieve the constructor of his responsibilities with respect to the design or construction of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

**Montréal**

545, boul. Crémazie Est, 7<sup>e</sup> étage  
Montréal (Québec) H2M 2V2  
Téléphone : 514 873-6459  
Sans frais : 1 866 262-2084  
[www.rbq.gouv.qc.ca](http://www.rbq.gouv.qc.ca)



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

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. I 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



OF21849.56  
3 FEV 2020

**FOR ABSA USE ONLY:**  
Reference Tracking No. \_\_\_\_\_

## Statutory Declaration Registration of Fittings

### (a) Design Qualification

I<sup>1</sup> KAISA SÄDE  
HEAD OF MANUFACTURING  
(Position eg, president, plant manager, chief eng.)

Of VAISALA OYJ  
(name of company)

Located at VANHA NURMISÄRVENTIE 21, 01670 VANTAA, FINLAND  
(plant address)

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

comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:

Or  
 are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with ASME Sec. VIII Div. 1 code and 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 ISO 9001:2015, and has been verified by the following authority or authorized agency DUV 66 BUSINESS ASSURANCE

The fittings<sup>2</sup> covered by this declaration, for which I seek registration, are PR-23-AC, PR-23-AP, PR-23-GP, PR-23-RP, PR-23-SD, PR-23-W, PR-33-AC, PR-43-AC, PR-43-AP, CROSS FLOW CELL

In support of the 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, MTG-434, MTG442; CALCULATIONS (3), TEST REPORTS (3)

Declared before me at Espoo

In the of Local Register Office of Uusimaa

The 14 Day of June AD 192019

Annastina Vanhanen  
A (commissioner for oaths)  
Notary Public

[Signature]  
Signature of Declarer<sup>3</sup>



For Official Use Only	
The application is accepted for registration in Category _____ 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.	
Registered Number CRN <u>0F21849.56</u>	For the Chief Inspector _____
<u>3 FEV 20200</u>	Date _____

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