9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

March 03, 2020

Attention: Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-01152, originally received on February 26, 2020 was surveyed and accepted for registration as follows:

CRN:

0F21849.52

Accepted on: March 03, 2020

Reg Type:

NEW DESIGN

Expiry Date: October 08, 2029

Drawing No.: COMPANY NAME CHANGE & MERGING CRNS

Fitting type: REFRACTOMETER SENSORS

Design registered in the name of : VAISALA OYJ

The registration is conditional on your compliance with the following notes:

- *** The Scope of this Registration include only:
- company name and address change from K-Patents Oy to Vaisala Oyj
- merging the three CRN (0F12610.52, 0F16276.52, 0F19024.52) into a single CRN (0F21849.52), there is no design or scope changes

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is SECTION VIII, DIV. 1.

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely.

DICK, ASHLING, P. Eng. DOP Cert. No. D00007936





STATUTORY DECLARATION Registration of Fittings

I,	KAISA SADE , HEAD OF MANUFACTURING	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.
_	(name of applicant) (position title) (must be in a position of authority)	
of	VAISALA OYJ (name of manufacturer)	K-PATENTS
-	(name of manufacturer)	IXI/II EI WIS
loca	ited at VANHA NURMIJÄRVENTIE 21, 01670 VANTA, FINLAND (plant address)	
do s	solemnly declare that the fittings listed hereunder, which are subject to the Safety eck one)	Codes Act
	comply with the requirements of which	specifies the dimensions,
	materials of construction, pressure/temperature ratings and identification ma	rking of the fittings, or
X	are not covered by the provisions of a recognized North American standard a	and are therefore manufactured
	to comply with ASME Sec VIII, Div. ((title of code of construction or other applicable document)	as supported by the attached
	data which identifies the dimensions, materials of construction, pressure/tem	perature ratings and the basis
	for such ratings, and the marking of the fittings for identification.	
l fur	ther declare that the manufacture of these fittings is controlled by a quality control	ol program which has been
veri	fied by the following authority, <code><code>DNV GL BUSINESS</code> ASSURANCE as being suital</code>	ole for the manufacture of these
fittir	igs to the stated standard. The fittings covered by this declaration, for which I se	ek registration, are
In s	-23-AC, PR-23-AP, PR-23-CP, PR-23-RP, PR-23-SD, PR-23-W, PR-33- (brief description of fittings) upport of this application, the following information, calculations and/or test data ATIONS FEM 1210027, 1304010, 1304009; DEAWINGS 462, 516, 1219, 2277, 2278, 2294, 9577, 3958, 3960; 3966, 3966, 3969, DIM 412, DIM 413, DIM 421, DIM 421, DIM 450, MT6-26T, MT	are attached: - 2295, 2487, 2520, 2762, 3041, 1936, -
DEC this (pri	CLARED before me at CSPO8 in the Local Register Office of (city) / 4 day of June . 2019 (Month) (Year) Int) Annastrina Vanhanen La Commissioner of Oathe or Notary Public) (a Commissioner of Oaths or Notary Public) (a Commissioner of Oaths or Notary Public) (signature	(province or state)
For	ABSA Office Use Only:	· · · · · · · · · · · · · · · · · · ·
	TES:	
	he best of my knowledge and belief, the application meets the requirements of the dard B51, Clause 4.2, and is accepted for registration in Category	
Reg	istration Number: 0F21849.52	T. M. (ASHLING) DIG
Date	e Registered: MAR 0 3 2020 Expiry Date:	L 8. 2029
	nformation you provide is necessary only for the administration of the programs as required by the Alberta Sasure Equipment Discipline.	fety Codes Act and Regulations in the

*See Acceptance Letter for the comments and/or conditions of registration"



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.

	Primary Pressure Bearing/ Retaining Component	Material of Construction	End Connections and Size Range	Design Condition			Pressure	Design	Catalog
Product Description				MAWT	MAWP	MDMT	Class or Schedule	Code of Construction or Standard	page or Drawing numbers
Refractometer PR- 23-AC, PR-33-AC, PR-43-AC w/ sensor lead H25-P15, Sanitary clamp PR- 2201 and Installation ferrule PR-9205	PR Head	ASTM A 479/ A 479M Grade AISI316L/AISI304	According to ISO2852	150°C	l 5bar	-40°C	N/A	ASME BPVC Sec VIII, Div. 1 Ed. 2015	c 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 neads H25-P15-L170, H25-P15-L140, H25-P15-L42, H25-P15-L14.	PR Head	ASTM A 479/ A 479M Grade AISI316L/AISI304	According to ISO2852	SAFETY CODES	15bar QQQ ACT - PROVII	-40°C ICE OF ALE	N/A SERTA	ASME BPVC Sœ VIII, Div. 1 Ed. 2015	K-Patents catalogues: SB:PR-23-A/4 October 2014 SB: PR-43-A-5 February 2018, Drawings #
Sanitary clamp PR- 201 and Installation ferrule PR-9205			7	REGIST REGISTRATION N DWG. NO. or CAT. TYPE OF FITTING	NO. Compan	849	52 change me	rging CKN	DIM3041, 510, 412, 2487, 3960, MTG- 265, DIM413, 1219, MTG-442, DIM3937, MTG-

"See Acceptance Letter for the comments and/or conditions of registration"

Date

T. M. (ASHLING) DICK, PENG DESIGN SURVEY ENGINEER

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 See 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		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 Scc 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-HA-M20-NC, CFC-RP-M20-HA-M20-NC, CFC-RP-M20-HC-M20-NC, CFC-RP-M20-HA-M30-NC, CFC-RP-M20-HA-M30-NC, CFC-RP-M20-HA-M30-NC, CFC-RP-M20-HC-M30-NC, CFC-RP-M20-HC-M30-NC, CFC-RP-M20-HC-M30-NC, CFC-RP-M20-SS-M30-NC,		SA-249 TP316L, SB- 464, SB-619	ANSI B16.5	150°C	25bar	N/A	N/A	ASME Sec. VIII Div. Ed. 2010 + Addenda 2011	K-Patents catalog, DWG#2762 REV A, 2295 REV C, 2294 REV C, 2520 REV C, 2271 REV 1, 2278 REV F

FOR ABSA USE ONLY:
Reference Tracking No. 2020-01157

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