



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

October 08, 2019

KAISA SADE
VAISALA OYJ
VANHA NURMIJARVENTIE 21
VANTAA 01670
FI

Service Request Type: BPV-Fitting Registration

Service Request No.: 2686448

Your Reference No.:

Registered to: VAISALA OYJ

Dear KAISA SADE,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0F21849.5

Main Design No.: Company ownership change and merger of three existing CRNs (see the to the Statutory Declaration Form for the scope of registration.)

Expiry Date: 08-Oct-2029

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

NOTE: Previously products were registered under three (3) different CRNs: 0F12610.5R2, 0F16276.5 and 0F19024.5.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Mark Valcic P. Eng.
Engineer Specialist BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org

Vaisala Oyj

Product Description	Pressure Retaining Component	Design Code of Construction or Standard	End Connections and Size Range	Design Condition or Pressure Class for standard fittings		Calculation reference No. or Proof test report No. for Non-standard fittings	ASME/ASTM Material of Construction	Catalog Page or ref. 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	ASME BPVC Sec VIII, Div. 1 Ed. 2015	According to ISO2852	150°C	15bar		ASTM A 479/ A 479M Grade AISI316L/AISI304	K-Patents catalogues: 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	ASME BPVC Sec VIII, Div. 1 Ed. 2015	According to ISO2852	150°C	15bar		ASTM A 479/ A 479M Grade AISI316L/AISI304	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	PR head	ASME BPVC Sec VIII, Div. 1 Ed. 2015	ANSI B16.5	150°C	10.3bar	FEM1210027, bursting test reports	ASTM A 479/ A 479M Grade AISI316L/ Alloy 20/ Hastelloy C276	K-Patents catalogues: SB:PR-23-A/4 October 2014, Drawings #

**THIS IS PART OF
CRN OF 1849.5**
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program
WVW 8/19

*NOTE: THREE (3) EXISTING CRNS MERGED INTO NEW CRN,
AND COMPANY NAME CHANGE. WVK*

Product Description	Pressure Retaining Component	Design Code of Construction or Standard	End Connections and Size Range	Design Condition or Pressure Class for standard fittings		Calculation reference No. or Proof test report No. for Non-standard fittings	ASME/ASTM Material of Construction	Catalog Page or ref. Drawing Numbers
				MAWT	MAWP			
Refractometer PR-23-RP	PR head	ASME BPVC Sec VIII, Div. 1 Ed. 2015	ANSI B16.5	150°C	25bar	FEM1304010, revision 2 FEM1304009, revision 3	ASTM A 479/ A 479M SA-240 316L, SA-479 316L, SB-463, SB-473, SB-575, SB-574 A, 2295 REV C, 2294 REV C, 2520 REV C, 2271 REV I, 2278 REV F	DIM421, MTG434, DIM450, DIM462 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	ASME BPVC Sec VIII, Div. 1 Ed. 2015	ANSI B16.5	180°C	17.7bar	bursting test reports	ASTM A 479/ A 479M SAF2205	K-Patents catalog: SB:PR-23-A/4 October 2014, Drawings # DIM421, MTG434, DIM450, DIM462
Refractometer PR-23-W	PR head	ASME BPVC Sec VIII, Div. 1 Ed. 2015	ANSI B16.5	150°C	9.3bar	bursting test reports	ASTM A 479/ A 479M AISI 316L with PTFE lining	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	body	ASME Sec. VIII Div.1 Ed. 2010 + Addenda 2011	ANSI B16.5	150°C	25bar	bursting test reports	SA-249 TP316L, SB-464, SB-619	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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