

February 4, 2014

Canadian registration numbers (CRN) for K-Patents refractometer PR-23-RP & CFC

Scope of registration:

Sensor PR-23-RP & Cross Flow Cell CFC-RP

Design pressure: 362 psig (25 bar)

Design temperature: -40°F...+302°F (-40°C ...+150°C)

Materials/sensor: SA-240 316L, SA-479 316L, SB-463, SB-473, SB-575, SB-574

Materials/CFC: SA-249 TP316L, SB-464, SB-619

Registration numbers:

0F16276.5	Ontario		
0F16276.51	British Columbia		
0F16276.52	Alberta		
0F16276.54	Manitoba		
0F16276.50	Newfoundland & Labrador		
CSA-0F16276.56	6276.56 Quebec (by CSA)		
CSA-0F16276.56	Saskatchewan (by CSA)		
0F16276.57	New Brunswick		
0F16276.58	Nova Scotia		
0F16276.59 Prince Edward Island			
0F16276.5Y	Yukon		
0F16276.5T	Northwest Territories		
0F16276.5N	Nunavut		

This registration number shall be engraved on the products to be delivered to Canada.

Veikko Kähkönen

Approvals Engineer



14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Tel.: 416.734.3300 Fax: 416.231.1626 Toll Free: 1.877.682.8772

www.tssa.org

September04, 2013

VEIKKO KAHKONEN K-PATENTS OY ELANNONTIE 5 VANTAA 01510

Service Request Type: BPV-Fitting Registration

Service Request No.: 1131284

Your Reference No.:

Registered to: K-PATENTS OY

Dear VEIKKO KAHKONEN.

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

CRN No.: 0F16276.5

Main Design No.: K-PATENTS CATALOG, DWG# 2762 REV. A, 2295 REV. C, 2294 REV. C, 2520

REV. C, 2271 REV. I, 2278 REV.F Expiry Date: 04-Sep-2023

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

Note:

Refractometer Sensor: Model PR-23-RP.

Cross Flow Cell: Model: 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.

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,

Norman Ngai, P. Eng.

Norman Ngn.

Norman Ngai, P. Eng. Mechanical Engineer BPV

Tel.: 416-734-3557 Fax: 416-231-6183 Email: nngai@tssa.org

www.tssa.org



TECHNICAL STANDARDS & SAFETY AUTHORITY

14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



	Y DECLAR ration of Fittings			
Arto Hämäläinen, Technical Director				
(Name and Position, e.g. President, Plant Manager, Chief Engineer)				
of K-Patents Oy				
	f Manufacturer)			
Located at Elannontie 5, 01510 Vantaa, Finland		+358 207 291 570	+358 207 291 577	
(Plant Address)		(Telephone No.)	(Fax No.)	
do solemnly declare that the fittings listed hereunder, whand Pressure Vessels Regulation, comply with all of the	ich are subject to the requirements of	Technical Standards	and Safety Act, Boilers	
(Title of recognized N which specifies the dimensions, materials of construction, pre	lorth American Standard)		u fui d ion	
pressure/temperature ratings and the basis for such rating. I further declare that the manufacture of these fittings is controlled.	ne attached data which gs, the marking of the ed by a quality system	identifies the dimension a fitting for identification a meeting the requireme	and service.	
which has been verified by the following author	ity, Det Norske ver	F	type fittings. In support of	
The items covered by this declaration, for which I seek registration, are	e category		type tittings. In support of	
this application, the following information and/or test data are attached Drawings: DIM2762/A, MAN2295/C, 2294/C, MTG2520/C, D	IM2277/I, 2278/F; De	sign calculations by M	Mekateam Oy	
(Fen 13040010 VI, FEM 1304009 VZ) (drawings, calculations, test reports, etc.)				
Declared before me at Vantas, Finland	in the		of	
the day of AD ZOUNG	Seaman Mai			
Commissioner for Oaths: (Printed name) Marjo Valorien henkikirjoitta abaransskrivera				
(Signature) julkinen notaal (to	strus William Cus	(Signature of D	Declarer)	
FOR OFF To the best of my knowledge and belief, the application meets the Technical Standards and Safety Act, Boilers and Pressure Ves CSA Standard B51 and is accepted for registration in Category	sels Regulation, and	Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program	
CRN: 0F 16276.5		REGIS	TERED	
Registered by: NORMAN NGA)		C.R.N.: OF		
Dated: 557. 4, 2013.			man Nge'	
NOTE: This registration expires on		Date: SEPT.	.4,2013.	

PV 09553 (06/04) NOTE = PLEASE SEE ATTACHED PAGE FOR SCOPE OF REGISTRATION.

N.N. SGPT. 4.2013.



Vantaa

August 29, 2013

Re: TSSA SR # 1131284

SCOPE OF REGISTRATION

- a) Refractometer Sensor
 - Model: PR-23-RP
 - Design pressure: 362 psig (25 bar)
 - Design temperature: -40 F... 302 F (-40...+150°C)
 - Material specification: SA-240 316L, SA-479 316L, SB-463, SB-473, SB-575, SB-574

b) Cross Flow Cell

- Model: 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-NC, CFC-RP-M20-HA-M30-NC, CFC-RP-M20-HC-M30-NC, CFC-RP-M20-SS-M30-NC
- Size: 1-3 inch process connection (M10...M30)
- Design pressure: 362 psig (25 bar)
- Design temperature: -40 F...302 F (-40...+150°C)
- Material specification: SA-249 TP316L, SB-464, SB-619

c) Applicable specifications

- Sensor: ASME Sec. VIII Div.1 and Div. 2 Ed. 2010 + Addenda 2011

- Cross Flow cell: ASME Sec. VIII DM 13Ed 30F04 Addenda 2011

CRN OF 16276.5

Technical Standards & Safety Authority Boilers & Pressure Vessels

Safety N.N. SEPT. 4. 2013.

Veikko Kähkönen Approvals Engineer