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May 17, 2019

CYNTHIA FORMANIUK  
ALBERTA BOILERS SAFETY ASSOCIATION  
9410-20 AVENUE  
EDMONTON AB T6N 0A4  
CA

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2562720  
**Your Reference No.:** 2018-08356  
**Registered to:** SIERRA INSTRUMENTS INC

Dear CYNTHIA FORMANIUK,

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

**CRN No.:** 0F09333.25R1  
**Main Design No.:** SCOPE OF REG. AB-257, FLOW METERS& CONTROLLERS SERIES  
**100,800,600,700,200**  
**Expiry Date:** 12-Feb-2029


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

The design submission has been accepted for registration with the following understanding:

1. The submission is renewal of already accepted fittings.
2. The scope of registration AB-257 is the main document of the registration.
3. In accordance with the provided information no changes have been made to the pressure boundary for all series of fitting models (100, 800, 600, 700, and 200) previously registered.

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](mailto: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,

  
Amir Hariri, P.Eng.  
Mechanical Engineer, BPV  
Tel.: 416-734-3461  
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REGISTERED

STATUTORY DECLARATION Registration of Fittings

C.R.N.: OF09333.25.R1

Signed: [Signature]

Date: 17 May 2019 SCOTT ROUSE

VP Product Management

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

of SIERRA INSTRUMENTS located at 5 HARRIS COURT, BLDG. L, MONTEREY, CA 93940

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of B31.3 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 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, FM GLOBAL (ISO 9001) as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

Flow Meters and Controllers

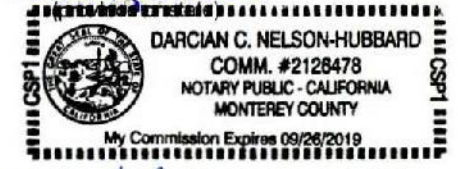
In support of this application, the following information, calculations and/or test data are attached:

100, 800, 600, 700, 200

DECLARED before me at Monterey in the State of California

this 20 day of March, 2019

(print) Darcian Nelson-Hubbard, Notary Public



(sign) [Signature]

(signature of applicant) [Signature]

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category F

Registration Number: OF09333.25.R1 (Signature of the Administrator/SCO)

Date Registered: 17 May 2019 Expiry Date: 12 Feb 2029



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.

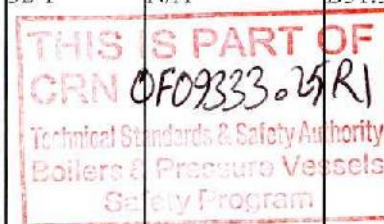
Product Description	Primary Pressure Bearing/ Retaining Component	Material of Construction	End Connections and Size Range	Design Condition		MDMT	Pressure Class or Schedule	Design Code of Construction or Standard	Catalog page or Drawing numbers
				Pressure at Ambient Temp.	Pressure at Design Temp.				
<b>Example: SERIES XZ</b>	<b>Body A</b>	<b>Material for Body A ASTM A-XXX</b>	<b>Female NPT XX-YY (in.) Female ISO (Size Range)</b>	<b>### psi @ ## °F</b>	<b>### psi @ ## °F</b>	<b>- ## °F</b>	<b>Class XXX# or SCH XX</b>	<b>Std. B16.X</b>	<b>Series XZ Catalog Pages # &amp; #</b>
SmartTrak®100 Series Models C100L M100L	100 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/8", 1/4", 3/8", 1/2" 6mm, 10mm, 12mm VCR Fittings 1/4", 1/2" VCO Fittings 1/4", 1/2" Female NPT Fittings 1/4", 3/8"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	SmartTrak®100 Technical Datasheet Page 2 - Specs Page 7 - Options
SmartTrak®100 Series Models C100M M100M	100 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 3/8", 1/2", 10mm, 12mm VCR Fittings 1/2" VCO Fittings 1/2" Female NPT Fittings 1/4", 3/8", 1/2"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	SmartTrak®100 Technical Datasheet Page 2 - Specs Page 7 - Options

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SmartTrak®100 Series Models C100H M100H	100 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/2", 3/4", 12mm VCR Fittings 1/2" Female NPT Fittings 1/2"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	SmartTrak®100 Technical Datasheet Page 2 - Specs Page 7 - Options
MassTrak®810C Models 810C	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/8", 1/4", 3/8" 6mm, 10mm VCR Fittings 1/4" VCO Fittings 1/4" Female NPT Fittings 1/4"	150 PSIG	150 PSIG @ 122°F	32°F	N/A	B31.3	MassTrak®810C Technical Datasheet Page 2 - Specs Page 3 - Options
TopTrak® 822/824 Models 822 824	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/8", 1/4", 3/8" 6mm, 10mm VCR Fittings 1/4" VCO Fittings 1/4" Female NPT Fittings 1/4"	150 PSIG	150 PSIG @ 122°F	32°F	N/A	B31.3	TopTrak®822/824 Technical Datasheet Page 2 - Specs Page 3 - Options
TopTrak® 822S/824S Models 822S-L 824S-L	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/8", 1/4", 3/8", 6mm VCR Fittings 1/4", 1/2" VCO Fittings 1/4", 1/2" Female NPT Fittings 1/4", 3/8"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	TopTrak® 822S/824S Technical Datasheet Page 3 - Specs Page 4 - Options
TopTrak® 822S/824S Models 822S-M 824S-M	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/4", 3/8", 1/2" 6mm, 10mm, 12mm VCR Fittings 1/4", 1/2" VCO Fittings 1/4", 1/2" Female NPT Fittings 1/4", 3/8"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	TopTrak® 822S/824S Technical Datasheet Page 3 - Specs Page 4 - Options

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TopTrak® 822S/824S Models 822S-H 824S-H	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 3/8", 1/2" 10mm, 12mm VCR Fittings 1/2" VCO Fittings 1/2"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	TopTrak® 822S/824S Technical Datasheet Page 3 - Specs Page 4 - Options
TopTrak® 826/827 Models 826 827	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Female NPT Fittings 1/2"	150 PSIG	150 PSIG @ 122°F	32°F	N/A	B31.3	TopTrak® 826/827 Technical Datasheet Page 2 - Specs Page 4 - Options
SideTrak® 830/840 Models 830-L 840-L	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/8", 1/4", 3/8", 6mm VCR Fittings 1/4", 1/2" VCO Fittings 1/4", 1/2" Female NPT Fittings 1/4"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	SideTrak® 830/840 Technical Datasheet Page 4 - Specs Page 5 - Options
SideTrak® 830/840 Models 830-M 840-M	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 1/4", 3/8", 1/2" 6mm, 10mm, 12mm VCR Fittings 1/4", 1/2" VCO Fittings 1/4", 1/2" Female NPT Fittings 1/4"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	SideTrak® 830/840 Technical Datasheet Page 4 - Specs Page 5 - Options
SideTrak® 830/840 Models 830-H 840-H	800 Series Flow Body	Fittings SA-403-WP316 Bar Stock SA-479-316	Compression Fittings 3/8", 1/2", 10mm, 12mm VCR Fittings 1/2" VCO Fittings 1/2"	500 PSIG	500 PSIG @ 122°F	32°F	N/A	B31.3	SideTrak® 830/840 Technical Datasheet Page 4 - Specs Page 5 - Options
FastFlo 620S Model 620S	Probe and Fitting	Fittings SA-403-WP316 Probe SA-213-TP316 Sensor SA-213-TP304	Compression Fittings 3/8" Packing Gland 1/2" NPT	150 PSIG	150 PSIG @ 176°F	-40°F	Tubing 0.375 in OD x 0.049 in Wall	B31.3	FastFlo 620S Technical Datasheet Page 3 - Specs Page 4 - Options



Steel-Mass™ 640S Model 640S (Stainless)	Probe and Fitting	Probe SA-213-TP316L Fittings SA-403-WP316	Compression Fittings 3/4"	500 PSIG	500 PSIG @ 350°F	-40°F	Tubing 0.750 in OD x 0.065 in Wall	B31.3	Steel-Mass™ Model 640S Technical Datasheet Page 5 - Specs Page 6 - Options
Steel-Mass™ 640S Model 640S (Hastalloy)	Probe and Fitting	Probe SB-622-NO6022 Fittings SB-366-NO6022	Compression Fittings 3/4"	500 PSIG	500 PSIG @ 350°F	-40°F	Tubing 0.750 in OD x 0.065 in Wall	B31.3	Steel-Mass™ Model 640S Technical Datasheet Page 5 - Specs Page 6 - Options
Steel-Mass™ 640S Model 640S (Stainless)	Probe and Fitting	Probe SA-213-TP316L Flanges SA-182-F316 Fittings SA-403-WP316	Flanged Connections 1" 150 # Flange Packing Gland Options 1" 150 # Flange 1" NPT	185 PSIG	185 PSIG @ 250°F	-40°F	Tubing 0.750 in OD x 0.065 in Wall	B31.3	Steel-Mass™ Model 640S Technical Datasheet Page 5 - Specs Page 6 - Options
Steel-Mass™ 640S Model 640S (Hastalloy)	Probe and Fitting	Probe SB-622-NO6022 Flanges SB-564-NO8367 Fittings SB-366-NO6022	Flanged Connections 1" 150 # Flange Packing Gland Options 1" 150 # Flange 1" NPT	185 PSIG	185 PSIG @ 250°F	-40°F	Tubing 0.750 in OD x 0.065 in Wall	B31.3	Steel-Mass™ Model 640S Technical Datasheet Page 5 - Specs Page 6 - Options
FlatTrak™ 780S Model 780S	Flow Body	Probe and Pipe SA-213-TP316L	NPT Threaded Ends 1/2 in, 3/4 in, 1 in, 1.5 in, 2 in, 3 in, 4 in, 6 in, 8 in	500 PSIG	500 PSIA @ 392°F	-40°F	SCH 40 Pipe (Seamless)	B31.3	FlatTrak™ 780S Technical Datasheet Page 4/5 - Specs Page 6 - Options
FlatTrak™ 780S Model 780S	Flow Body	Probe and Pipe SA-213-TP316L Flanges SA-182-F316L	150# Flanged Ends 1 in, 1.5 in, 2 in, 3 in, 4 in, 6 in, 8 in	230 PSIG	160 PSIG @ 392°F	-40°F	SCH 40 Pipe (Seamless)	B31.3	FlatTrak™ 780S Technical Datasheet Page 4/5 - Specs Page 6 - Options
FlatTrak™ 780S Model 780S	Flow Body	Probe and Pipe SA-213-TP316L Flanges SA-182-F316L	PN16 Flanged Ends DN50, DN80, DN100, DN150, DN200	230 PSIG	160 PSIG @ 392°F	-40°F	DIN2633 Pipe (Seamless)	B31.3	FlatTrak™ 780S Technical Datasheet Page 4/5 - Specs Page 6 - Options
Ultra High Purity 780S Model 780S	Flow Body	Probe and Tube SA-213-TP316L Fittings SA-403-WP316L	VCR Fittings .375 in, .50 in, 1 in	500 PSIG	500 PSIG @ 250°F	-40°F	SCH 5 Pipe (Seamless)	B31.3	Ultra High Purity 780S Technical Datasheet Page 3 - Specs Page 4 - Options
Ultra High Purity 780S Model 780S	Flow Body	Probe and Tube SA-213-TP316L	Butt Weld Preparation .375 in, .50 in, 1 in, 1.5 in, 2 in, 3 in, 4 in	500 PSIG	500 PSIG @ 250°F	-40°F	SCH 5 Pipe (Seamless)	B31.3	Ultra High Purity 780S Technical Datasheet


  
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QuadraTherm 780i Model 780i	Flow Body	Probe and Pipe SA-213-TP316L	NPT Threaded Ends 1/2 in, 3/4 in, 1 in, 1.5 in, 2 in, 3 in, 4 in, 6 in, 8 in	500 PSIG	500 PSIG @ 392°f	-40°f	SCH 40 Pipe (Seamless)	B31.3	QuadraTherm Technical Datasheet Page 4 - Specs Page 13 - Options
QuadraTherm 780i Model 780i	Flow Body	Probe and Pipe SA-213-TP316L Flanges SA-182-F316L	150# Flanged Connection 1/2 in, 3/4 in, 1 in, 1.5 in, 2 in, 3 in, 4 in, 6 in, 8 in	230 PSIG	160 psig @ 392°f	-40°f	SCH 40 Pipe (Seamless)	B31.3	QuadraTherm Technical Datasheet Page 4 - Specs Page 13 - Options
QuadraTherm 780i Model 780i	Flow Body	Probe and Pipe SA-213-TP316L Flanges SA-182-F316L	300# Flanged Connection 1/2 in, 3/4 in, 1 in, 1.5 in, 2 in, 3 in, 4 in, 6 in, 8 in	600 PSIG	415 psig @ 392°f	-40°f	SCH 80 Pipe (Seamless)	B31.3	QuadraTherm Technical Datasheet Page 4 - Specs Page 13 - Options
QuadraTherm 780i Model 780i	Flow Body	Probe and Pipe SA-213-TP316L Flanges SA-182-F316L	PN16 Flanged Connection DN50, DN80, DN100, DN150, DN200	230 PSIG	160 psig @ 392°f	-40°f	DIN2633Pipe (Seamless)	B31.3	QuadraTherm Technical Datasheet Page 4 - Specs Page 13 - Options
QuadraTherm 780i Model 780i	Flow Body	Probe and Pipe SA-213-TP316L Flanges SA-182-F316L	PN40 Flanged Connection DN50, DN80, DN100, DN150, DN201	600 PSIG	415 psig @ 392°f	-40°f	DIN2633Pipe (Seamless)	B31.3	QuadraTherm Technical Datasheet Page 4 - Specs Page 13 - Options
QuadraTherm 640i Model 640i	Probe and Fitting	Probe SA-213-TP316L Fittings SA-403-WP316	Compression Fittings 3/4"	500 PSIG	500 PSIG @ 350°f	-40°f	Tubing 0.750 in OD x 0.065 in Wall	B31.3	QuadraTherm 640i Technical Datasheet Page 4 - Specs Page 11 - Options
QuadraTherm 640i Model 640i	Probe and Fitting	Probe SA-213-TP316L Flanges SA-182-F316	Flanged Connections 1" 150 # Flange	185 PSIG	185 PSIG @ 250°f	-40°f	Tubing 0.750 in OD x 0.065 in Wall	B31.3	QuadraTherm 640i Technical Datasheet Page 4 - Specs Page 11 - Options
QuadraTherm 640i Model 640i	Probe and Fitting	Probe SA-213-TP316L Flanges SA-182-F316 Fittings SA-403-WP316	Packing Gland Options 1" 150 # Flange 1" NPT Fitting	150 PSIG	150 PSIG @ 250°f	-40°f	Tubing 0.750 in OD x 0.065 in Wall	B31.3	QuadraTherm 640i Technical Datasheet Page 4 - Specs Page 11 - Options
QuadraTherm 640i Model 640i	Probe and Fitting	Probe SA-213-TP316L Flanges SA-182-F316	Flanged Connections 2" 300 # Flange	230 PSIG	230 PSIG @ 250°f	-40°f	Tubing 0.750 in OD x 0.065 in Wall	B31.3	QuadraTherm 640i Technical Datasheet Page 4 - Specs

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