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March 22, 2018

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: **2267312**
Your Reference No.: R-0822
Registered to: SARNIA PIPING SPECIALTIES LTD

Dear SCOTT ISLIP,

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

CRN No.: **0H20193.5**
Main Design No.: Dwg. No. R-0822 Rev. 0, Class 150 Spectacle Line Blinds
Expiry Date: 22-Mar-2028

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

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
Engineer Specialist BPV
Tel. : 416-734-3494
Fax : 416-231-6183
Email : mvalcic@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



SPS

STATUTORY DECLARATION Registration of Fittings

I, RICHARD FELTON, PRESIDENT
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of SARNIA PIPING SPECIALTIES LTD.
(Name of Manufacturer)

Located at 765 EVETT STREET, SARNIA, ONTARIO, N7S 5N3 1-800-355-1740
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3

(Title of recognized North American Standard)
 which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

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, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of CSA B51 which has been verified by the following authority, TSSA

The items covered by this declaration, for which I seek registration, are category H Spectacle Blinds type fittings. In support of this application, the following information and/or test data are attached as follows:
SCOPE OF CRN, DRAWINGS, REPORTS

(drawings, calculations, test reports, etc.)

Declared before me at CITY OF SARNIA in the COUNTY of LAMBTON
 the 15 day of FEB. AD 2018

Commissioner for Oaths:
JAMES GARY KOHLMEIER
(Printed name)

(Signature)

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category H1

CRN: OH20193.5
 Registered by: MARK VALCIC, P.ENG
 Dated: MARCH 22, 2018
 NOTE: This registration expires on MARCH 22, 2028

Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program
REGISTERED	
CRN:	<u>OH20193.5</u>
Signed:	<u>[Signature]</u>
Date:	<u>MARCH 22, 2018</u>

PV 09553 (04/01) **NOTE: SEE THE ATTACHMENT FOR THE SCOPE OF REGISTRATION.** [Signature]
March 22/18

SARNIA PIPING SPECIALTIES LTD.

765 EVETT STREET
SARNIA, ONTARIO
CANADA, N7S 5N3



14-Mar-18

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SCOPE OF CRN REGISTRATION

Product Description	SPS Drawing No.	Pressure Class (Note 1)	Size Range NPS	Design Standard	Material (Note 2)	Pressure Rating
Spectacle Line Blinds	R-0822	150 Lb.	1/2" thru 12"	ASME B16.48, ASME B31.3	ASTM A516-70 Carbon Steel	285 psig at 100F, 170 psig at 500F (Note 3)
					ASTM A240-304/304L Stainless Steel	275 psig at 100F, 170 psig at 500F (Note 4)
					ASTM A240-316/316L Stainless Steel	275 psig at 100F, 170 psig at 500F (Note 5)

MANUFACTURING LOCATIONS

SARNIA PIPING SPECIALTIES LTD.
765 EVETT STREET
SARNIA, ONTARIO
N7S 5N3

Note 1: Other ASME B16.5 pressure classes may be supplied. When this is the case dimensions shall be in accordance with ASME B16.48 Table 1 through 18.

Note 2: Other ASME B16.5 materials may be supplied. When this is the case per ASME B16.48 para. 3.2.1 ratings are the maximum allowable working gage pressure at the temperature shown in table 2 and II-2 of ASME B16.5 for the appropriate material and pressure class.

Note 3: Pressure Temperature ratings in accordance with ASME B16.5 Table 1.1 Cl. 150.

Note 4: Pressure Temperature ratings in accordance with ASME B16.5 Table 2.1 Cl. 150.

Note 5: Pressure Temperature ratings in accordance with ASME B16.5 Table 2.2 Cl. 150.

Note 6: Optional linings are PP, PFA, PTFE, PVDF, ETFE and others. In all cases the pressure-temperature ratings of the spectacle line blinds may be limited by the lining material.

Note 7: For temperatures below -20F products shall conform to the rules of the applicable codes under which they are used.

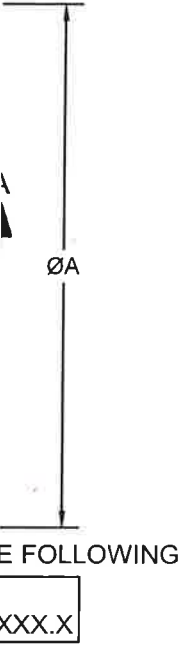


Bill of Materials

Item	Description	Material	Qty
1A	PLATE - OPTION 1	ASTM A516-70 CARBON STEEL	1
1B	PLATE - OPTION 2	ASTM A240-304/304L STAINLESS STEEL	1
1C	PLATE - OPTION 3	ASTM A240-316/316L STAINLESS STEEL	1
2	LINING	TYPICAL LININGS ARE PP, PFA, PTFE, PVDF, ETFE AND OTHERS	1

Dimensions

Size	A (in.)	B (in.)	C (in.)	D (in.) Note 4	E (in.) Note 4	ASME B16.48 Min E (in.) Note 4
NPS 1/2"	1.75	1.19	0.63	0.63	0.50	0.12
NPS 3/4"	2.13	1.38	0.63	0.63	0.50	0.12
NPS 1"	2.50	1.56	0.63	0.75	0.63	0.12
NPS 1-1/4"	2.88	1.75	0.63	0.75	0.63	0.25
NPS 1-1/2"	3.25	1.94	0.63	0.88	0.75	0.25
NPS 2"	4.00	2.38	0.75	0.88	0.75	0.25
NPS 2-1/2"	4.75	2.75	0.75	1.00	0.88	0.25
NPS 3"	5.25	3.00	0.75	1.13	1.00	0.25
NPS 4"	6.75	3.75	0.75	1.13	1.00	0.38
NPS 5"	7.63	4.25	0.88	1.13	1.00	0.38
NPS 6"	8.63	4.75	0.88	1.13	1.00	0.50
NPS 8"	10.88	5.88	0.88	1.25	1.13	0.50
NPS 10"	13.25	7.13	1.00	1.38	1.25	0.62
NPS 12"	16.00	8.50	1.00	1.38	1.25	0.75



THIS IS PART OF
CRN 04201935
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

Mike
March 22/18

General Notes:

1. All dimensions are in inches. SI units if provided are in brackets.
2. External design not to exceed full vacuum. Limited by lining material.
3. For temperatures below -20F products shall conform to the rules of the applicable codes under which they are used.
4. Dimension D and E may be changed to suit customers installation requirements but in all cases dimension E is to exceed the minimum thickness specified in ASME B16.48 Table I-1.




Table Notes:

1. Per section 2.1 of ASME B16.5 linear interpolation between values is permitted.
2. ASME B31.3 table A323.4.3 gives recommended temperature limits for thermoplastic materials used for linings.

UNLESS OTHERWISE NOTED
1. DIMENSIONS ARE IN INCHES. IF USED SI UNITS ARE IN () BRACKETS.
2. TOLERANCES
FRACTIONAL: +/- 1/8"
DECIMALS: .XX +/- .02
.XXX +/- .005

THE INFORMATION CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF SARNIA PIPING SPECIALTIES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SARNIA PIPING SPECIALTIES LTD. IS PROHIBITED.

REV.	DESCRIPTION	DATE	INITIALS

TITLE CL.150 SPECTACLE LINE BLINDS		 SARNIA PIPING SPECIALTIES LTD. WWW.SPSSALES.COM	
MODEL SIZES 1/2" THRU 12"			
WORK ORDER N/A			
DRAWN BY SI	DRAWING SIZE B		
CHECKED BY RF	SCALE NONE		
DATE 13/3/2017	DRAWING NO. R-0822	REV. 0	SHEET 1 of 1