

ALBERTA BOILERS SAFETY ASSOCIATION
9410 20 AVENUE NW
EDMONTON AB T6N 0A4

Date: April 12, 2017
Account #: 34986
Journal #: 67757
Our File #: 5614416

Attn: CYNTHIA FORMANIUK

Re: Application for Design Registration

The design, as detailed in your, ABSA Tracking No: 2015-07111, 00510, for a Fitting is accepted for registration as follows:

Registered To: HANSUN ENGINEERING CO LTD **CRN:** 0A16102.21

Drawing #: Catalog Instrument 201510

Conditions Of Registration:

Registration of Instrument Pipe Fittings per Table 1 & 2 Scope Sheets (att'd 4 pages).

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on September 10, 2025. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:

Table 2 Scope of Fitting Designs for Instrument Pipe Fittings(Unregistered CRN 0A16102.2)

Product Description, New Model or Series	Primary Pressure Bearing/Retaining Component	Material of Construction	Port Connections and Size Range	PSI	PSI	Pressure Class(es) / Schedule (s)	Design Code(s) of Construction	References: Catalog (pages) or Drawing(s)
				Rated Pressure 100°F	Rated Pressure 1200°F			
				At Ambient Temperature	At Maximum Temperature			
P-SWTA	Body	ASTM A182 F316/316L	SOCKET WELD 1/8"-1"	3900-7600	1450-2800	N/A	ASME B31.3 ASME-B46-9	Catalog_Instrument_201501, Page_13
P-SFLSW	Body	ASTM A182 F316/316L	SOCKET WELD 1/4"-1/2", Female NPT 1/4"-1/2"	5,400-6,200 psig @ 100°F	1,900-2,200 Psig @ 1,200 °F	N/A	ASME B31.3 ASME-B46-9	Catalog_Instrument_201501, Page_14

Rating for P-SWTA is given per proof Test results.
 MATERIAL SA-182 Gr 316/316L only.

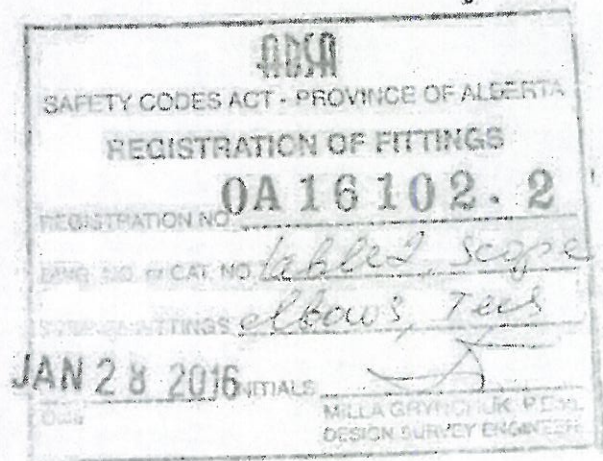


Table 1 Scope of Fitting Designs for Instrument Pipe Fittings(Registered CRN 0A16102.2)

Product Description, Model or Series	Primary Pressure Bearing/ Retaining Component	Material of Construction	Port Connections and Size Range	Rated Pressure	Rated Pressure	Pressure Class(es) / Schedule(s)	Design Code (s) of Construction	References: Catalog (pages) or Drawing(s)
				At Ambient Temperature	At Maximum Temperature			
P-SCN	Body	ASTM A276 / A479 TYPE 316/316L	Male NPT 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_06
P-SHN	Body	ASTM A276 / A479 TYPE 316/316L	Male NPT 1/8"~1", Male NPT / ISO Tapered PT 1/8"~1" Male NPT / Male Paralled 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_06, 07
P-SHRN	Body	ASTM A276 / A479 TYPE 316/316L	Male NPT 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_06
P-SHLN	Body	ASTM A276 / A479 TYPE 316/316L	Male NPT 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_07
P-MFAA	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1", Male NPT 1/8"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_07
P-MFRA	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/4"~1", Male NPT 1/8"~3/4"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_07
P-MFAA	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1", Male ISO (PT) T apered 1/8"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_08
P-MFAB	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1", Male ISO (PF) P arallel 1/8"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_201510, Page_08

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P-SHB	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/4"~1", Male NPT 1/8"~3/4"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_08
P-SC	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1"	4,400~6,500 psig @ 100 °F	1,500~2,300 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_09
P-SP	Body	ASTM A276 / A479 TYPE 316/316L	Male NPT 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_09
P-SHC	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1"	4,400~6,500 psig @ 100 °F	1,500~2,300 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_09
P-SHRC	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1"	4,400~6,500 psig @ 100 °F	1,500~2,300 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_09
P-SL	Body	ASTM A182 F316/3 16L	Female NPT 1/8"~1"	4,400~6,500 psig @ 100 °F	1,500~2,300 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_10
P-SSL	Body	ASTM A182 F316/3 16L	Male NPT 1/8"~1", Female NPT 1/8"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_10
P-SRSL	Body	ASTM A182 F316/3 16L	Male NPT 1/8"~1/2", Female NPT 1/4"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_10
P-SML	Body	ASTM A182 F316/3 16L	Male NPT 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_10
P-ST	Body	ASTM A182 F316/3 16L	Female NPT 1/8"~1"	4,400~6,500 psig @ 100 °F	1,500~2,300 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_11
P-SRT	Body	ASTM A182 F316/3 16L	Male NPT 1/8"~1", Female NPT 1/8"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_11
P-SBT	Body	ASTM A182 F316/3 16L	Male NPT 1/8"~1", Female NPT 1/8"~1"	4,400~10,000 psig @ 100 °F	1,500~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_11
P-SMT	Body	ASTM A182 F316/3 16L	Male NPT 1/8"~1"	5,300~10,000 psig @ 100 °F	1,900~3,600 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_10
P-SUJ	Body	ASTM A276 / A479 TYPE 316/316L	Female NPT 1/8"~1"	4,400~6,500 psig @ 100 °F	1,500~2,300 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_11
P-SWFC	Body	ASTM A276 / A479 TYPE 316/316L	SOCKET WELD 1/4"~1"	5,200~10,000 psig @ 100 °F	1,900~3,700 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_13
P-SWLA	Body	ASTM A182 F316/3 16L	SOCKET WELD 1/4"~1",	6,100~11,300 psig @ 100 °F	2,200~4,100 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_13

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P-SSA	Body	ASTM A276 / A479 TYPE 316/316L	SOCKET WELD 1/4"~1/2", Male NPT 1/4"~1/2"	6,200~7,500 psig @ 100 °F	2,200~2,700 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_13
P-SSB	Body	ASTM A276 / A479 TYPE 316/316L	SOCKET WELD 1/8"~3/4", Female NPT 1/8"~3/4"	4,300~6,100 psig @ 100 °F	1,500~2,200 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_13
P-SMLSW	Body	ASTM A182 F316/3 16L	SOCKET WELD 1/4"~3/4", Male NPT 1/4"~3/4"	6,700~7,500 psig @ 100 °F	2,400~2,700 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_13
P-SWRM	Body	ASTM A276 / A479 TYPE 316/316L	PIPE BUTT WE LD END 1/4"~3/4", TUBE BUTT WE LD END 1/4"~1" SOCKET WELD 1/8"~1"	6,200~9,600 psig @ 100 °F	2,200~3,500 psig @ 1,200°F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_14
P-SWTA	Body	ASTM A182 F316/316L	SOCKET WELD 1/8"~1"	3,900~7,600psig @ 100 °F	1,450~2,800 psig @ 100 °F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_13
P-SFLSW	Body	ASTM A182 F316/316L	SOCKET WELD 1/4"~1/2", FeMale NPT 1/4"~1/2"	5,400~6,200 psig @ 100 °F	1,900~2,200 psig @ 100 °F	N/A	ASME B31.3	Catalog_Instrument_ 201510, Page_14

