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July 31, 2023

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)

**Workorder No:** 14067022

**Your Reference No.:** R-1874 - OKLAHOMA SAFETY EQUIPMENT COMPANY - NATIONAL SERVICE - LOKR  
RUPTURE DISC DEVICE

**Registered to:** OKLAHOMA SAFETY EQUIPMENT CO INC

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 : 0G14740.5ADD6

Main Design No.: Scope of registration, NB-18 Certificates, Product catalogue, typical drawing

Expiry Date: Jul 06, 2031

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 (There will be no hard copies for electronic submissions). 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,

Ruiming You P,ENG  
Engineer, BPV  
Tel. : +1 416-734-3428  
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Technical Standards and Safety Authority  
 345 Carlingview Drive  
 Toronto, Ontario M9W 6N9  
 www.tssa.org



## STATUTORY DECLARATION Registration of Fittings

I, Megan Miller, Quality Assurance Manager  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Oklahoma Safety Equipment Company, Inc.  
(Name of Manufacturer)

Located at 1701 West Tacoma, Broken Arrow, Oklahoma, 74012, USA 1-918-259-7199  
(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 SECTION VIII-1

(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 ASME UD \_\_\_\_\_ which has been verified by the following authority, ASME.

The items covered by this declaration, for which I seek registration, are category G - SAFETY RELIEF DEVICES type fittings. In support of this application, the following information and/or test data are attached as follows:  
SCOPE OF CRN REGISTRATION, DRAWING, REPORT

(drawings, calculations, test reports, etc.)

Declared before me at BROKEN ARROW in the County TULSA  
 the 17 day of May AD 2023.



Commissioner for Oaths:  
KRISTINE M. HUTTON  
(Printed name)  
Kristine M. Hutton  
(Signature)

Megan Miller  
(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 \_\_\_\_\_.

CRN: \_\_\_\_\_  
 Registered by: \_\_\_\_\_  
 Dated: \_\_\_\_\_

Technical Standards and Safety Authority      Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0G14740.5ADD6

Signed: Ruey

Date: July 31, 2023.

NOTE: This registration expires on: July 06, 2031 see scope of registration

\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

# OKLAHOMA SAFETY EQUIPMENT COMPANY, INC. (OSECO)

1701 WEST TACOMA  
BROKEN ARROW, OKLAHOMA  
74012, UNITED STATES



THIS IS PART OF CRN  
0G14740.5ADD6  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

23-May-23

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## SCOPE OF CRN REGISTRATION

Product Description	Drawing	Disc Material(s)	Holder Material(s)	Size (inches)	Set Pressure Range	Flow Area	Certificate Number NB
LoKr Rupture Disc Device	LoKr Family Print Sht. 1 Rev. C	Hastelloy C, Inconel 600, Type 316 Stainless Steel, Monel, Nickel	ASME SB-574 N10276, SB-564 N10276 SB-164 N04400, SB-127 N04400 SB-564 N04400, SA-240 S31603 SA-182 S31603, SA-36 K02600 SA-516 K02700, SB-168 N06600 SB-163 N02200	1	15-2500 psi	0.86 in <sup>2</sup>	02620
				1.5	10-2200 psi	2.04 in <sup>2</sup>	02619
				2	10-2200 psi	3.36 in <sup>2</sup>	02619
				3	10-2200 psi	7.39 in <sup>2</sup>	02619
				4	10-1500 psi	12.73 in <sup>2</sup>	02619
				6	10-750 psi	28.89 in <sup>2</sup>	02619
				8	10-750 psi	50.02 in <sup>2</sup>	02619
				10	10-500 psi	78.85 in <sup>2</sup>	02619
12	10-300 psi	111.9 in <sup>2</sup>	02619				

**Note 1:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

**Note 2:** Product shall be marked with the ASME Certification mark and UD Designator along with the Canadian Registration Number (CRN).

**Note 3:** See attached copy of National Board Listings applicable to this Canadian Registration Number (CRN).

Design Name: HPSR (Liquid) NBCert # 01742

Manufacturer/Assembler	Designators	Expiration Date
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Manufacturer UD 10/16/2024

**Design Type**

[Rupture Disk Device] HPSR (Liquid)  
Capacity Tests: Sec. UD at Oklahoma Safety Equipment Company, Inc. (OSECO) on October 1, 2018  
Method of Establishing Relieving Capacity: Resistance Factor, 3 Size, Krl  
Certified Value:13,500 Unitless  
Media - Test: Air/Gas; Certified: Incompressible (Krl)  
Set Pressure Definition: Burst Pressure  
Designed by: Oklahoma Safety Equipment Company, Inc. (OSECO) {OSE}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS		0.31 in <sup>2</sup>			2500-6000 psi		UD
2 NPS		0.994 in <sup>2</sup>			2500-6000 psi		UD
3 NPS		2.074 in <sup>2</sup>			2500-6000 psi		UD
4 NPS		3.715 in <sup>2</sup>			2500-6000 psi		UD
6 NPS		7.52 in <sup>2</sup>			2500-6000 psi		UD
8 NPS		13.17 in <sup>2</sup>			2500-6000 psi		UD

Design Name: HPSR-LP (Liquid) NBCert # 01843

Manufacturer/Assembler	Designators	Expiration Date
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Manufacturer UD 10/16/2024

**Design Type**

[Rupture Disk Device] HPSR-LP (Liquid)  
HolderDesignation: WDA Welded Holder, HPRDI Insert Holder  
Capacity Tests: Sec. UD at Oklahoma Safety Equipment Company, Inc. (OSECO) on October 1, 2018  
Method of Establishing Relieving Capacity: Resistance Factor, 1 Size, Krl  
Certified Value:24,000 Unitless  
Media - Test: Air/Gas; Certified: Incompressible (Krl)  
Set Pressure Definition: Burst Pressure  
Designed by: Oklahoma Safety Equipment Company, Inc. (OSECO) {OSE}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS		0.31 in <sup>2</sup>			500-700 psi		UD

Design Name: LoKr NBCert # 02619

Manufacturer/Assembler	Designators	Expiration Date
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Manufacturer UD 07/14/2028

**Design Type**

[Rupture Disk Device] LoKr  
Capacity Tests: Sec. UD at Oklahoma Safety Equipment Company, Inc. (OSECO) {unknown test date}  
Method of Establishing Relieving Capacity: Resistance Factor, 3 Size, Krg  
Certified Value: 0.220 Unitless  
Media - Test: Air/Gas, Water/Liquid (Kr test on Air/Gas); Certified: Compressible and Incompressible (Krgl)  
Set Pressure Definition: Burst Pressure  
Designed by: Oklahoma Safety Equipment Company, Inc. (OSECO) {OSE}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1.5 NPS		2.04 in <sup>2</sup>			10-2200 psi		UD
10 NPS		78.85 in <sup>2</sup>			10-500 psi		UD
12 NPS		111.9 in <sup>2</sup>			10-300 psi		UD
2 NPS		3.36 in <sup>2</sup>			10-2200 psi		UD
3 NPS		7.39 in <sup>2</sup>			10-2200 psi		UD
4 NPS		12.73 in <sup>2</sup>			10-1500 psi		UD
6 NPS		28.89 in <sup>2</sup>			10-750 psi		UD
8 NPS		50.02 in <sup>2</sup>			10-750 psi		UD

Design Name: LoKr (1 in.) NBCert # 02620

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UD	07/14/2028

**Design Type**  
[Rupture Disk Device] LoKr (1 in.)  
Capacity Tests: Sec. UD at Oklahoma Safety Equipment Company, Inc. (OSECO) {unknown test date}  
Method of Establishing Relieving Capacity: Resistance Factor, 1 Size, Krgl  
Certified Value: 0.210 Unitless  
Media - Test: Air/Gas, Water/Liquid (Kr test on Air/Gas); Certified: Compressible and Incompressible (Krgl)  
Set Pressure Definition: Burst Pressure  
Designed by: Oklahoma Safety Equipment Company, Inc. (OSECO) {OSE}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS		0.86 in <sup>2</sup>			15-2500 psi		UD

Design Name: OPFTK+ NBCert # 00426

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UD	06/20/2027

**Design Type**  
[Rupture Disk Device] OPFTK+  
Holder Designation: OPK, Safety Cartridge  
Capacity Tests: Sec. UD at National Board Testing Lab on February 19, 2010  
Method of Establishing Relieving Capacity: Resistance Factor, 3 Size, Krgl  
Certified Value: 2.770 Unitless  
Media - Test: Air/Gas, Water/Liquid (Kr test on Air/Gas); Certified: Compressible and Incompressible (Krgl)  
Set Pressure Definition: Burst Pressure  
Designed by: Oklahoma Safety Equipment Company, Inc. (OSECO) {OSE}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
1 NPS		0.792 in <sup>2</sup>			100-1160 psi		UD
1.5 NPS		1.709 in <sup>2</sup>			100-1087 psi		UD
10 NPS		67.64 in <sup>2</sup>			50-274 psi		UD
12 NPS		99.28 in <sup>2</sup>			50-250 psi		UD
2 NPS		2.899 in <sup>2</sup>			100-1015 psi		UD
3 NPS		7.029 in <sup>2</sup>			100-600 psi		UD
4 NPS		11.17 in <sup>2</sup>			100-363 psi		UD