

## REGISTRATION OF A PRESSURE FITTING DESIGN

03-Jun-20

TSSA  
345 Carlingview Drive  
Toronto, Ontario  
M9W 6N9

**Attention: Tanya Francis**

**File Number: 11511 [ 0 F]**

**Re: Manufacturer: CIRCOR Aerospace, Inc.**  
**Item: Relief Valves Series 5100**  
**Catalog or Drawing: Design Report Number R-1195 dated Feb 04, 2020**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**0C22286.53                      Expiry Date: March 25, 2030**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

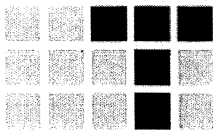
Yours truly,



Adenike Adeoti, P.Eng.  
Codes and Standards Compliance

### Remarks:

These valves are not to be used as primary overpressure protection devices.  
A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.



**Statutory Declaration (Registration of Fittings)**

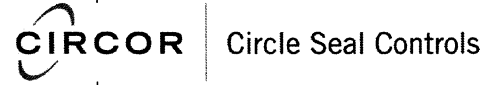
**TSK-1008**

**I. Declaration Information**

I, RANDALL RALEY,  
PRODUCT MANAGER  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)

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

of: CIRCOR AEROSPACE, INC.  
(name of manufacturer)



**located at:** 2301 WARDLOW CIRCLE CORONA, CALIFORNIA 92880, U.S.A.  
(Plant Address – Apt/Street) (City,Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.1, ASME B31.3 which specifies the dimensions, (title of recognized North American Standard) 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 manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001 SAI GLOBAL as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY C - INLINE RELIEF VALVES

In support of this application, the following information, calculations and / or test data are attached:  
**SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS**

**II. Declaration**

DECLARED before me at \_\_\_\_\_ In the \_\_\_\_\_ of \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_,  
(print name) Randall Raley (Signature)  
See attached @ 2/7/2020  
(Signature of Commissioner of Oaths)

**III. Office Use Only**

To the best of my knowledge and belief, the application meets the requirements of CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_  
  
\_\_\_\_\_  
(Registration Number) \_\_\_\_\_  
(Date Registered – For the Administrator)



Registration No. 0C22286.53  
File No. 11511  
Registered  
Date: June 03, 2020  
Expiry Date: March 25, 2030  
Codes & Standards Compliance Office

**CALIFORNIA JURAT WITH AFFIANT STATEMENT**

**GOVERNMENT CODE § 8202**

- See Attached Document (Notary to cross out lines 1-6 below)
- See Statement Below (Lines 1-6 to be completed only by document signer[s], *not* Notary)

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

Signature of Document Signer No. 1

Signature of Document Signer No. 2 (if any)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California  
 County of Riverside

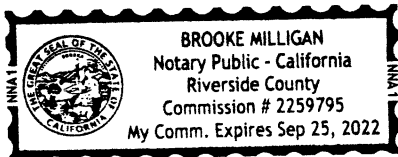
Subscribed and sworn to (or affirmed) before me  
 on this 7th day of February, 2020,  
 by Date Month Year

(1) Randall Raley

(and (2) \_\_\_\_\_),  
 Name(s) of Signer(s)

proved to me on the basis of satisfactory evidence  
 to be the person(s) who appeared before me.

Signature Brooke Milligan  
 Signature of Notary Public



Seal  
 Place Notary Seal Above



**OPTIONAL**

Though this section is optional, completing this information can help prevent the fraudulent reattachment of this form to an unrecorded document or

**Description of Attached Document**

Title or Type of Document: STATUTORY DECLARATION Document Date: NODATE

Number of Pages: 1 Signer(s) Other Than Named Above: NO OTHER SIGNERS

**SCOPE OF CRN REGISTRATION**

Product Description	Model	Design Code	Valve Type	End Connection	Size	Material Specifications (Note 3)	MAWP at MAWT (Note 1)	Report Number
Relief Valves (Note 2)	Series 5100	ASME B31.1, ASME B31.3	Pop-off Type M	NPT	1/8"	Type 316 SS	2400 psig at 400°F	R-1195
						Type 303 SS	2400 psig at 400°F	
						Brass	2400 psig at 350°F	
					1/4"	Type 316 SS	2400 psig at 400°F	
						Type 303 SS	2400 psig at 400°F	
						Brass	2400 psig at 350°F	
					3/8"	Type 316 SS	2400 psig at 400°F	
						Type 303 SS	2400 psig at 400°F	
						Brass	2400 psig at 350°F	
					1/2"	Type 316 SS	2400 psig at 400°F	
						Type 303 SS	2400 psig at 400°F	
						Brass	1700 psig at 350°F	
			3/4"	Type 316 SS	2400 psig at 400°F			
				Type 303 SS	2400 psig at 400°F			
				Brass	1600 psig at 350°F			
			1"	Type 316 SS	2400 psig at 400°F			
				Type 303 SS	2400 psig at 400°F			
				Brass	2400 psig at 350°F			
			1-1/4"	Type 316 SS	1200 psig at 400°F			
				Type 303 SS	1200 psig at 400°F			
				Brass	1200 psig at 350°F			
			In-Line Type MP	NPT	1/8"	Type 316 SS	2400 psig at 400°F	
						Type 303 SS	2400 psig at 400°F	
						Brass	1400 psig at 350°F	
1/4"	Type 316 SS	2400 psig at 400°F						
	Type 303 SS	2400 psig at 400°F						
	Brass	1400 psig at 350°F						



**Technical Safety Authority of Saskatchewan**

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**SCOPE OF CRN REGISTRATION CONTINUED**

Product Description	Model	Design Code	Valve Type	End Connection	Size	Material Specifications (Note 3)	MAWP at MAWT (Note 1)	Report Number
Relief Valves (Note 2)	Series 5100	ASME B31.1, ASME B31.3	In-Line Type MP	NPT	3/8"	Type 316 SS	2400 psig at 400°F	R-1195
						Type 303 SS	2400 psig at 400°F	
						Brass	1400 psig at 350°F	
					1/2"	Type 316 SS	2400 psig at 400°F	
						Type 303 SS	1800 psig at 400°F	
						Brass	1000 psig at 350°F	
					3/4"	Type 316 SS	2200 psig at 400°F	
						Type 303 SS	1600 psig at 400°F	
						Brass	900 psig at 350°F	
					1"	Type 316 SS	2200 psig at 400°F	
						Type 303 SS	1600 psig at 400°F	
						Brass	900 psig at 350°F	
					1-1/4"	Type 316 SS	1200 psig at 400°F	
						Type 303 SS	1200 psig at 400°F	
						Brass	1000 psig at 350°F	

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**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature.

**Note 2:** Valves not to be used as primary protection safety relief valves.

**Note 3:**  
 Type 316 SS = Stainless Steel ASTM A479-316  
 Type 303 SS = Stainless Steel A582-303 meeting the requirements specified in ASTM A473.  
 Brass = Brass ASTM B16 UNS C36000. In accordance with ASME B31.1 Table A-6 Note (8) Materials shall be tested to determine the presence of residual stresses that might result in failure of individual parts due to stress corrosion cracking. Tests shall be conducted in accordance with ASTM B154 or ASTM B858. The test frequency shall be as specified in ASTM B249.

**Note 4:** The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the pressure-temperature ratings may be limited by the seat and seal materials. Please consult Circle Aerospace, Inc.

**Note 5:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

**Note 6:** In accordance with ASME B31.1 para. 123.1.2(D) when this product is manufactured from a ASME B31.1 unlisted material and used under the ASME B31.1 code the facility owner must accept the use of the following non listed materials.

- Stainless Steel ASTM A582-303 meeting the requirements specified in ASTM A473.