



Montréal, 29 mai 2020

MME TANYA FRANCIS
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W6N9

Fabricant : CIRCOR AEROSPACE INC.
2301 WARDLOW CIRCLE
CORONA CALIFORNIA
USA 92880

Numéro de dossier : 951162

Numéro(s) de dessin (s) : RELIEF VALVES SERIES 5100, SCOPE OF REGISTRATION

Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement

Madame,

La Régie du bâtiment du Québec (RBQ) vous informe que votre demande d'enregistrements de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) : 0C22286.56

Nous portons à votre attention cette exigence applicable à la réglementation sur les installations sous pression et des codes et normes qui y sont associés :

- Le constructeur doit maintenir un système de contrôle de la qualité valide pour fabriquer selon ce NEC.

Le présent avis d'approbation ne dégage pas le constructeur de ses responsabilités quant à la conception ou à la construction des équipements fabriqués selon ce NEC.

Salutations distinguées,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

545, boul. Crémazie Est, 7^e étage

Montréal (Québec) H2M 2V2

Téléphone : 514 873-6459

Sans frais : 1 866 262-2084

www.rbq.gouv.qc.ca

Montréal, May 29, 2020

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TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W6N9

Manufacturer : CIRCOR AEROSPACE INC.
2301 WARDLOW CIRCLE
CORONA CALIFORNIA
USA 92880

Our reference : 951162
Design number : RELIEF VALVES SERIES 5100, SCOPE OF REGISTRATION

Subject: Registration of designs – Confirmation of approval

Dear Madam,

The Régie du bâtiment du Québec (RBQ) informs you that your application for the registration of designs has been evaluated and that the design was registered under the Canadian Registration Number (CRN\NEC) : 0C22286.56

We bring your attention this requirement of the regulation respecting pressure installations, and the codes and standards adopted:

- The manufacturer must maintain a valid quality control program to produce according to the CRN.

This notice of approval does not relieve the constructor of his responsibilities with respect to the design or construction of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

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Montréal (Québec) H2M 2V2
Téléphone : 514 873-6459
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Statutory Declaration Registration of Fittings

(a) Design Qualification



I¹ RANDALL RALEY
(Name of applicant)

PRODUCT MANAGER
(Position eg, president, plant manager, chief eng.)

of CIRCOR AEROSPACE, INC.
(name of company)

Located at 2301 WARDLOW CIRCLE, CORONA, CALIFORNIA, 92880, USA
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:
- Or
- are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001, and has been verified by the following authority or authorized agency SAI GLOBAL

The fittings² covered by this declaration, for which I seek registration, are CATEGORY C - INLINE RELIEF VALVES

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




Declared before me at _____
In the of _____ of _____
The _____ day of _____ AD 2000
See attached (BN) 2/7/2020 Randall Raley
A (commissioner for oaths) *Signature of Declarer*

For Official Use Only

The application is accepted for registration in Category _____ in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN _____ For the Chief Inspector _____
Date _____

¹ Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
² All fittings are required to be registered in the name of the Manufacturer.
³ This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.

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 _____

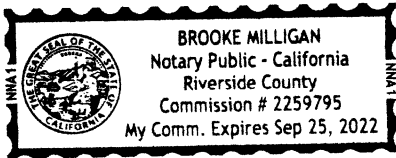
Signature of Document Signer No. 1 _____

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

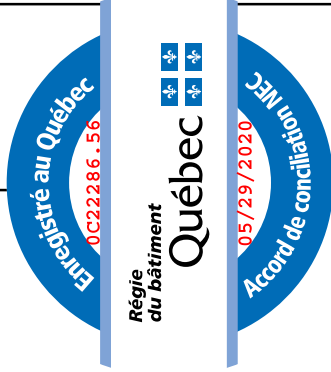
Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: STATUTORY DECLARATION Document Date: NO DATE
 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							
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						





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							

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.

