

Montréal, 2 juin 2020

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

Fabricant : CIRCOR AEROSPACE, INC.
2301 WARDLOW CIRCLE
CORONA CA
U.S.A 92880

Numéro de dossier : 951130

Numéro(s) de dessin (s) : CHECK VALVES- SERIES: 200-*PP, 200-*BB, 200-*MM, 200-*RR, H200-*PP
PER 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) : 0C12966.56

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



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

Manufacturer : CIRCOR AEROSPACE, INC.
2301 WARDLOW CIRCLE
CORONA CA
U.S.A 92880

Our reference : 951130

Design number : CHECK VALVES- SERIES: 200-*PP, 200-*BB, 200-*MM, 200-*RR, H200-*PP PER
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) : 0C12966.56

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
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Statutory Declaration Registration of Fittings**(a) Design Qualification**

Circle Seal Controls

1 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 - CHECK 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 CD 03/9/2020

A (commissioner for oaths)

Randall Raley

Signature of Declarant

For Official Use Only

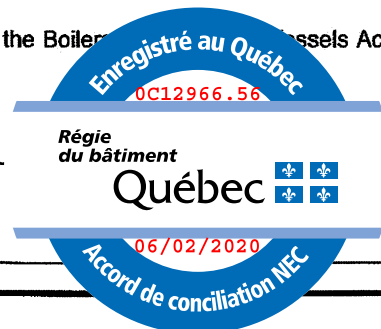
The application is accepted for registration in Category _____ in accordance with the Boilers & Pressure Vessels Act and CSA Standard B51.

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 of 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.

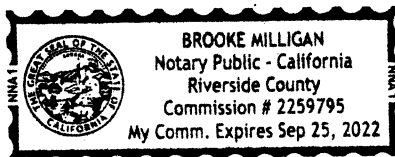
State of California
 County of Riverside

Subscribed and sworn to (or affirmed) before me
 on this 9th day of March, 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 Mulligan
Signature of Notary Public



Seal
 Place Notary Seal Above

OPTIONAL

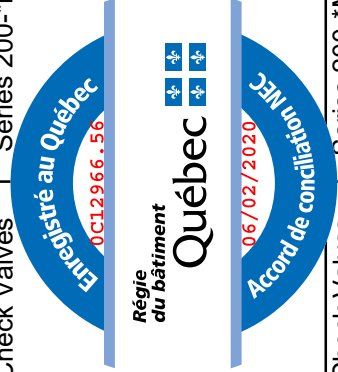
Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

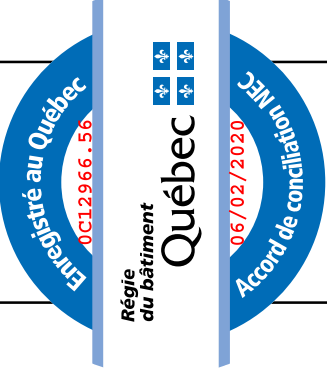
Title or Type of Document: STATUTORY DECLARATION Document Date: NO DATE
 Number of Pages: 1 Signer(s) Other Than Named Above: NO OTHER SIGNERS

SCOPE OF CRN REGISTRATION

Product Description	Model	Design Code	End Connection	Size Range	Material Specifications (Note 2)	MAWP at MAWT (Note 1)	Report Number
Check Valves	Series 200-*PP	ASME B31.1, ASME B31.3	FNPT	1/8", 1/4", 3/8", 1/2", 1", 1-1/4", 1-1/2"	Type 316 SS	2200 psig at 400°F	R-1196A
					Type 303 SS	1600 psig at 400°F	
					Brass	1000 psig at 250°F	
					Aluminum T4	800 psig at 250°F	
				2", 2-1/2"	Aluminum T6	1200 psig at 250°F	
					Type 316 SS	1800 psig at 400°F	
					Type 303 SS	1300 psig at 400°F	
					Brass	800 psig at 250°F	
Check Valves	Series 200-*BB	ASME B31.1, ASME B31.3	Tube End	1/4"	Aluminum T4	700 psig at 250°F	R-1196B
					Aluminum T6	1000 psig at 250°F	
					Type 316 SS	3000 psig at 400°F	
					Type 303 SS	2500 psig at 400°F	
				3/8", 5/8", 3/4", 1", 1-1/4", 1-1/2"	Brass	1500 psig at 250°F	
					Aluminum T4	1300 psig at 250°F	
					Aluminum T6	1900 psig at 250°F	
					Type 316 SS	2200 psig at 400°F	
					Type 303 SS	1600 psig at 400°F	
					Brass	1000 psig at 250°F	
					Aluminum T4	800 psig at 250°F	
					Aluminum T6	1200 psig at 250°F	
Check Valves	Series 200-*MM	ASME B31.1, ASME B31.3	MNPT	1/4"	Type 316 SS	2200 psig at 400°F	R-1196C
					Type 303 SS	1600 psig at 400°F	
					Brass	1000 psig at 250°F	
					Aluminum T4	800 psig at 250°F	
				1/2"	Aluminum T6	1200 psig at 250°F	
					Type 316 SS	2200 psig at 400°F	
					Type 303 SS	1600 psig at 400°F	
					Brass	1000 psig at 250°F	
Check Valves	Series 200-*RR	ASME B31.1, ASME B31.3	Tube End	1/2"	Aluminum T4	800 psig at 250°F	R-1196D
					Aluminum T6	1200 psig at 250°F	



SCOPE OF CRN REGISTRATION CONTINUED

Product Description	Model	Design Code	End Connection	Size Range	Material Specifications (Note 2)	MAWP at MAWT (Note 1)	Report Number
Check Valves	Series H200-*PP 	ASME B31.1, ASME B31.3	FNPT	1-1/4"	Type 316 SS	5800 psig at 400°F	R-1196E
					Type 303 SS	4200 psig at 400°F	
					Brass	2600 psig at 250°F	
					Aluminum T4	2200 psig at 250°F	
				1-1/2"	Aluminum T6	3200 psig at 250°F	
					Type 316 SS	3500 psig at 400°F	
					Type 303 SS	2500 psig at 400°F	
					Brass	1600 psig at 250°F	
				2"	Aluminum T4	1300 psig at 250°F	
					Aluminum T6	1900 psig at 250°F	
					Type 316 SS	5200 psig at 400°F	
					Type 303 SS	3700 psig at 400°F	
					Brass	2300 psig at 250°F	
					Aluminum T4	2000 psig at 250°F	
					Aluminum T6	2800 psig at 250°F	

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

Note 2:

Type 316 SS = Stainless Steel ASTM A479-316

Type 303 SS = Stainless Steel A582-303 with a minimum yield strength of 30,000 psi and a minimum tensile strength of 75,000 psi.
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.

Aluminum T4 = ASTM B221 UNS A96061 T4

Aluminum T6 = ASTM B221 UNS A96061 T6

Note 3: 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 4: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 5: 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.