

June 01, 2020

**Attention:** Tanya Francis  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

The design submission, tracking number 2020-02682, originally received on May 21, 2020 was surveyed and accepted for registration as follows:

**CRN :** 0C12966.52 **Accepted on:** June 01, 2020  
**Reg Type:** NEW DESIGN **Expiry Date:** April 29, 2030  
**Drawing No. :** CHECK VALVES SERIES 200-\*PP,-\*BB,-\*MM,-\*RR, H200-\*PP  
**Fitting type:** CHECK VALVES  
Design registered in the name of : CIRCOR AEROSPACE INC

**The registration is conditional on your compliance with the following notes:**

*As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.1 and ASME B31.3.*

- *It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.*
- *This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.*
- *This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.*
- *Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3377 or fax (780) 437-7787 or e-mail Barut@absa.ca.

Sincerely,



BARUT, VINCE, P. Eng.  
DOP Cert. No. D00005723

STATUTORY DECLARATION Registration of Fittings

I, Randall Raley, Product Manager of CIRCOR AEROSPACE, INC. located at 2301 Wardlow Circle, Corona, California, 92880, USA



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- Comply with the requirements of ASME B31.1, ASME B31.3 which specifies the dimensions, 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 attached [title of code of construction or other applicable document] 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, SAI Global ISO 9001 as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY C - CHECK VALVES

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

DECLARED before me at [city] in the [province or state] of [province or state] this [day] day of [Month], [Year] (print) (a Commissioner of Oaths or Notary Public)

(sign) See attached [Signature] Randall Raley (signature of applicant)

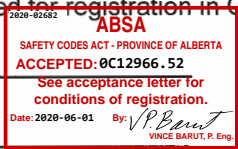
For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category

Registration Number: (Signature of the Administrator/SCO)

Date Registered: Expiry Date:



**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 9<sup>th</sup> 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 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	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	
					Aluminum T6	1200 psig at 250°F	
				2", 2-1/2"	Type 316 SS	1800 psig at 400°F	
					Type 303 SS	1300 psig at 400°F	
					Brass	800 psig at 250°F	
					Aluminum T4	700 psig at 250°F	
					Aluminum T6	1000 psig at 250°F	
Check Valves	Series 200-*BB	ASME B31.1, ASME B31.3	Tube End	1/4"	Type 316 SS	3000 psig at 400°F	R-1196B
					Type 303 SS	2500 psig at 400°F	
					Brass	1500 psig at 250°F	
					Aluminum T4	1300 psig at 250°F	
					Aluminum T6	1900 psig at 250°F	
				3/8", 5/8", 3/4", 1", 1-1/4", 1-1/2"	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	
					Aluminum T6	1200 psig at 250°F	
Check Valves	Series 200-*RR	ASME B31.1, ASME B31.3	Tube End	1/2"	Type 316 SS	2200 psig at 400°F	R-1196D
					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	

**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	
					Aluminum T6	3200 psig at 250°F	
				1-1/2"	Type 316 SS	3500 psig at 400°F	
					Type 303 SS	2500 psig at 400°F	
					Brass	1600 psig at 250°F	
					Aluminum T4	1300 psig at 250°F	
					Aluminum T6	1900 psig at 250°F	
				2"	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	

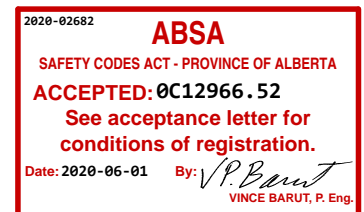
**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature.

**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.



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.