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Toronto, Ontario
CANADA M9W 6N9
Tel.: 416.734.3300
Fax.: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

October 17, 2019

SCOTT ISLIP
ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6
CA

Service Request Type.: BPV-National AB
Service Request No.: 2659560
Your Reference No.: R-1014
Registered to.: CIRCOR AEROSPACE INC

Dear SCOTT ISLIP,

Please find enclosed the original response from AB, registered under the CRN No.: 0C21637.52.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email : tfrancis@tssa.org

September 20, 2019

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

The design submission, tracking number 2019-05628, originally received on August 13, 2019 was surveyed and accepted for registration as follows:

CRN : 0C21637.52 **Accepted on:** September 20, 2019
Reg Type: NEW DESIGN **Expiry Date:** July 30, 2029
Drawing No. : SCOPE OF CRN REGISTRATION DATED 12-JUN-19
Fitting type: POPOFF & INLINE PROCESS VALVES (SERIES 500 & HP500)
Design registered in the name of : CIRCOR AEROSPACE INC

Description	MAWP	Design Temperature
Series 500	1379kPa	204 °C
Series HP500 1/4"	3964kPa	177 °C
Series HP500 1/2"	3103kPa	177 °C

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

TSSA Service Request No.: 2659560

The scope of this registration is for adjustable popoff and inline process valves, model series 500 and HP500, NPT end connections. Additional details are provided in the scope of registration including the sizes, materials, and pressure-temperature ratings.

A582-303 material is dual certified to A473-303 as per your email on September 9.

These valves shall not be used as primary protection safety relief valves.

This registration includes the following assembly drawings: 500-1M, -2M, and 2MP Rev C; 500-3M, -4M, -4MP, -6M, and -10MP Rev A; 500-3MP Rev B; 500-6MP, -8M, and -8MP Rev - dated 2/1/88; HP500-2M and -2MP Rev - dated 00-04-25; HP500-4M and -4MP Rev - dated 7/29/91.

This registration includes the following body drawings: 10180, 10260, 10280, and 10380 Rev B; 10126, 10460, 10454, 10480, 10660, 10670, 10860, 10846, 36865, 36797, 26805, and 26808 Rev -.

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

STATUTORY DECLARATION Registration of Fittings

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

I, Randall Raley, Product Manager (name of applicant) (position title) (must be in a position of authority)

of CIRCOR AEROSPACE, INC. (name of manufacturer)



Circle Seal Controls

located at 2301 Wardlow Circle, Corona, California, 92880, USA (plant address)

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

[X] comply with the requirements of ASME B31.1 (1) 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

(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 - INLINE PROCESS VALVES

(brief description of fittings)

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 in the of this day of (city) (Month) (Year) (province or state)

(print) (a Commissioner of Oaths or Notary Public)

(sign) See attached @ 07/16/19 Randall Raley (a Commissioner of Oaths or Notary Public) (signature of applicant)

For ABSA Office Use Only:

NOTES: (1) Code edition is 2018.

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 C

Registration Number: 0C21637.52 (Signature of the Administrator/SCO)

Date Registered: SEP 20 2019 Expiry Date: Jul 30 2029

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline.

"See Acceptance Letter for the comments and/or conditions of registration"

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)

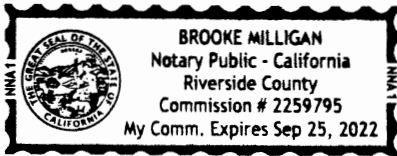
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
 County of Riverside

Subscribed and sworn to (or affirmed) before me
 on this 16th day of July, 2019,
 by _____ Date Month Year

(1) Randall Lee 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

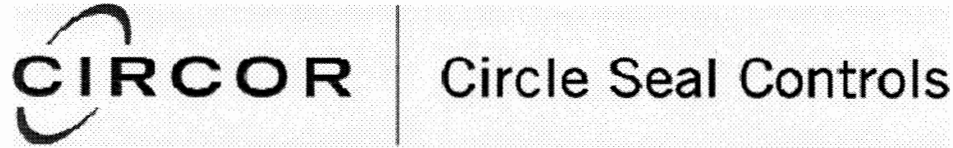
Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

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

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

CIRCOR AEROSPACE, INC.
 2301 Wardlow Circle
 Corona, California
 92880, USA



12-Jun-19

PAGE 1 OF 1

SCOPE OF CRN REGISTRATION

Product Description	Model	Design Code	Material Specifications	Size Range	End Connection	MAWP at MAWT (Note 1)	Report Number
Adjustable Popoff & Inline Process Valves (Note 2)	Series 500	ASME B31.1	Stainless Steel ASTM A479-316, Brass ASTM B16 UNS C36000, Aluminum ASTM B221 UNS A96061 T4, Aluminum ASTM B221 UNS A96061 T6, Stainless Steel ASTM A582-303 meeting the requirements specified in ASTM A473.	1/8", 1/4", 3/8", 1/2", 3/4", 1", 1-1/4"	NPT	200 psig at 400°F	R-1014
Adjustable Popoff & Inline Process Valves (Note 2)	Series HP500	ASME B31.1	Stainless Steel ASTM A479-316, Brass ASTM B16 UNS C36000.	1/4"	NPT	575 psig at 350°F	R-1014
				1/2"	NPT	450 psig at 350°F	R-1014

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.

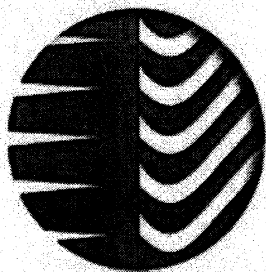
Note 3: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the pressure-temperature ratings may be limited by the seat and seal materials. Please consult Circle Aerospace, Inc.

"See Acceptance Letter for the comments and/or conditions of registration"

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.

ASCA	
SAFETY CODES ACT - PROVINCE OF ALBERTA	
REGISTRATION OF FITTINGS	
REGISTRATION NO.	<u>0021637.52</u>
DWG. NO. or CAT. NO.	<u>Scope of CRN Registration</u>
TYPE OF FITTINGS	<u>Valve Series 500 & HP500</u>
SEP 20 2019	INITIALS <u>Keith Rudolf</u>
Date	KEITH RUDOLF, P.Eng. DESIGN SURVEY ENGINEER



0C21637.52

CERTIFICATE OF REGISTRATION

This is to certify that

CIRCOR Aerospace, Inc.

2301 Wardlow Circle, Corona, California 92880 USA

The above organization has been audited in accordance with the requirements of AS9104/1:2012. QMI-SAI Canada Limited (SAI Global) located in Toronto, Ontario, Canada is accredited under the Industry Controlled Other Party (ICOP) scheme. The certificate is issued at the accreditation location in Toronto, Canada.

operates a

Quality Management System

which complies with the requirements of

ISO 9001:2015 + AS9100D

for the following scope of certification

Design, manufacture and servicing of check valves, relief and shutoff valves, solenoid and motor operated valves, regulators, and pressure gages, plus design, manufacture and testing of landing gear, systems and their related components and assemblies for the aerospace, defense and commercial industries.

Certificate No.: CERT-0116453
File No.: 1067874
Issue Date: March 28, 2018

Original Certification Date: July 2, 2008
Certification Effective Date: April 25, 2018
Certification Expiry Date: April 24, 2021

Nicole Grantham
General Manager SAI Global Certification Services



AS9100D



Registered by:
QMI-SAI Canada Limited (SAI Global), 20 Carlson Court, Suite 200, Toronto, Ontario M9W 7K6 Canada. This registration is subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to them upon request.
To verify that this certificate is current, please refer to the SAI Global On-Line Certification Register: www.qmi-saiglobal.com/qmi_companies/

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