

345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel.: 416.734.3300 Fax: 416.231.1626 Toll Free: 1.877.682.8772

www.tssa.org

March 25, 2020

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

Service Request Type: BPV-Fitting Registration

Service Request No.: 2781392 Your Reference No.: R-1195

Registered to: CIRCOR AEROSPACE INC

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN: 0C22286.5

Main Design No.: RELIEF VAVLES SERIES 5100 - SEE SCOPE OF REGISTRATION (2PGS)

Expiry Date: 25-Mar-2030

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

Notes:

- 1. This registration is for series 5100 relief valves per ASME B31.1/B31.3.
- 2. Sizes range from 3/8" to 1 1/4".
- 3. Materials include ASTM A479 316, A582-303/A473-303 and B16 UNS C36000.
- 4. These valves not to be used as primary protection safety relief valves.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Alan Wu P. Eng.

Mechanical Engineer, BPV

Tel.: 416-734-3443 Fax: 416-231-6183 Email: <u>awu@tssa.org</u>



Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



Circle Seal Controls

	STATUTORY D						
	Registration	of Fittings					
I, RANDALL RALE	Y, PRODUCT MANAGER						
	(Name and Position, e.g. President, Pla	nt Manager, Chief Engineer)					
of CIRCOR AEROS	SPACE, INC.						
(Name of Manufacturer)							
Located at 2301	Wardlow Circle, Corona, California, 92880, USA	951-270-6462					
	(Plant Address)	(Telephone No.)	(Fax No.)				
and Pressure	declare that the fittings listed hereunder, which are Vessels Regulation, comply with all of the requir I, ASME B31.3		ds and Safety Act, Boilers				
which specifies	(Title of recognized North Ame s the dimensions, materials of construction, pressure/te		ng the fittings and service;				
***************************************		ned data which identifies the dimensi	ons, material of construction,				
pressure/temp	pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.						
I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 which has been verified by the following authority, SAI GLOBAL							
	this declaration, for which I seek registration, are catego		type fittings. In support of				
	lowing information and/or test data are attached as follow REGISTRATION, REPORTS, DRAWINGS, CALC						
	(drawings, calculations, te	st reports, etc.)					
Declared before m	e atin	the	of				
the	day ofAD 20	-					
Commissioner for	Oaths:						
(Printed name)							
_ see a	Signature)	(Signature of	Declarer)				
	Soprature, .	27.0111/					
Technical Standard	FOR OFFICE US owledge and belief, the application meets the requirer is and Safety Act, Boilers and Pressure Vessels Reg	ments of the Standards	Boilers and Pressure Vessels Safety Program				
	nd is accepted for registration in CategoryC		STERED				
CRN:		C.R.N.: 0C2228	36.5				
Registered by:	Alan Wu	Signed:					
Dated:	Mar 25, 2020	Date: March	25, 2020.				
NOTE: This regist	ration expires on: Mar 25, 20	30					

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request

1	mpleted only by document signer[s], not Notary)
3	
6. Signature of Decument Signar No. 1	Signature of Document Signer No. 2 (if any)
Signature of Document Signer No. 1	Signature of Document Signer No. 2 (if any)
	certificate verifies only the identity of the individual who signed the did not the truthfulness, accuracy, or validity of that document.
State of California County of KIVERSIDE SIS PART OF CRN 286.5 cal Standards and Safety Authority ers and Pressure Vessels Safety Program BROOKE MILLIGAN Notary Public - California Riverside County Commission # 2259795 My Comm. Expires Sep 25, 2022	Subscribed and sworn to (or affirmed) before on this The day of February, 20 2 by Date Month (1) Randall Raley (and (2) Name(s) of Signer(s) proved to me on the basis of satisfactory evide to be the person(s) who appeared before Signature Signature of Notary Public
Seal Place Notary Seal Above	OPTIONAL ————————————————————————————————————
	ng this information can deter alteration of the document of this form to an unintended document. DECIARATION Document Date:
Number of Pages: Signer(s) Other Th	18 statem cuman

GOVERNMENT CODE § 8202

CALIFORNIA JURAT WITH AFFIANT STATEMENT

CIRCOR AEROSPACE, INC.

2301 Wardlow Circle Corona, California 92880, USA



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SCOPE OF CRN REGISTRATION

Product		Design	Valve	End	Size	Material	MAWP at MAWT	Report
Description	Model	Code	Type	Connection		Specifications (Note 3)	(Note 1)	Number
Relief Valves	Series 5100	ASME B31.1,	Pop-off	NPT	1/8"	Type 316 SS	2400 psig at 400°F	R-1195
(Note 2)		ASME B31.3	Туре М			Type 303 SS	2400 psig at 400°F	1
						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	
THIS IS PART C	E CRN					Type 303 SS	2400 psig at 400°F	
	C22286.5 Technical Standards and Safety Authority					Brass	1700 psig at 350°F	
					3/4"	Type 316 SS	2400 psig at 400°F	
Boilers and Pressure Ves	, ,					Type 303 SS	2400 psig at 400°F	
Program	beis Galety					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	NPT	1/8"	Type 316 SS	2400 psig at 400°F	
			Type MP			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	

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Circle Seal Controls

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SCOPE OF CRN REGISTRATION CONTINUED

Product		Design	Valve	End	Size	Material	MAWP at MAWT	Report
Description	Model	Code	Type	Connection		Specifications (Note 3)	(Note 1)	Number
Relief Valves	Series 5100	ASME B31.1,	In-Line	NPT	3/8"	Type 316 SS	2400 psig at 400°F	R-1195
(Note 2)		ASME B31.3	Type MP			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	
THIS IS PART (DE CBN					Brass	1000 psig at 350°F	
	DI CIXIN				3/4"	Type 316 SS	2200 psig at 400°F	
0C22286.5	Section Application					Type 303 SS	1600 psig at 400°F	
Technical Standards and S						Brass	900 psig at 350°F	
Boilers and Pressure Ve Program	ssels Safety				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 he 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.