9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

February 12, 2020 ·

Attention: Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-00562, originally received on January 30, 2020 was surveyed and accepted for registration as follows:

CRN:

0G22072.52

Accepted on: February 12, 2020.

Reg Type:

NEW DESIGN

Expiry Date: December 18, 2029

Drawing No.: SCOPE OF CRN REGISTRATION

Fitting type: ASME SAFETY RELIEF VALVES D500 & M5100 SERIES Design registered in the name of : CIRCOR AEROSPACE INC

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

*** National Board Certification number: 10001, 10012, 10023, 10034, 10056

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is SECTION VIII, DIV. 1.

- 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 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,

DICK, ASHLING, P. Eng. DOP Cert. No. D00007936





STATUTORY DECLARATION Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting. In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting. In this space, show facsimile of manufacturer's located at 2301 Wardlow Circle, Corona, California, 92880,USA Circle Seal Controls Circle Seal Controls Circle Seal Controls Circle Seal Controls do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one) comply with the requirements of ASME Section VIII-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, ASME UV 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 G - SAFETY RELIEF 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
I. Randall Raley (position title) (must be in a position of authority) of CIRCOR AEROSPACE, INC. (name of manufacturer) Iocated 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 Section VIII-1 (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 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, ASME UV 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 G - SAFETY RELIEF 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
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DECLARED before ment
DECLARED before me at in the of (province or state)
this day of
(Month) (Year)
(print) See Attached Notary
(a Commissioner of Oaths or Notary Public) Acknowledgment Certificate
(sign) Youddell the lea
(a Commissioner of Oaths or Notary Public) (signature of applicant)
For ABSA Office Use Only:
NOTES: * ASME Safety Relief Values D 500 4 M 5/00 Senes
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: 0 G 2 2 0 7 2 . 5 2
Date Registered: FEB 1 2 2020 (Signature of the Administrator/SCO) Expiry Date: 72 18 2029
LAPITY Date. VOCIA LAVA

•	ERTIFICATE
notary public or other officer completing this certificate verifies	only the identity of the individual who sign
e document to which this certificate is attached, and not the truthfi	
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State of California	
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Subscribed and sworn to (or affirmed) before me on this 20 9, by RAMAN RAIM	= 26 day of NOVIMBER
20 19 by Kandall Raley —	
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proved to me on the basis of satisfactory evidence to be	the person(s) who appeared before
WITNESS MY HAND AND OFFICIAL SEAL.	ANDREW VILLALPANDO
	COMM. 8 2284202
	NOTARY PUBLIC-CALIFORNIA SI
	My Comm. Expires APRIL 2, 2023
Ciana and Chiana Dalii	., ., .,
Signature of Notary Public	(Notary Seal)
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MMXVII H.WARDALE 925.786.8909 www.totallynotary.net

CIRCOR AEROSPACE, INC.

2301 Wardlow Circle Corona, California 92880, USA



Circle Seal Controls

PAGE 1 OF 1

SCOPE OF CRN REGISTRATION

Product		Design	Code	Material	Size	End	MAWP at MAWT	Report
Description	Model	Code	Stamp	Specifications	Range	Connection	(Note 1,2,3)	Number
ASME Safety	Series D500	ASME Section	ASME UV	Stainless Steel ASME SA479-316,	٠ 1/4"	NPT	150 psig at 400°F	R-1186
Relief Valves		VIII Division 1						
ASME Safety	Series D500	ASME Section	ASME UV	Naval Brass ASTM B21 Alloy 464	1/4"	NPT	150 psig at 350°F	R-1186
Relief Valves		VIII Division 1		(Note 4)				
ASME Safety	Series M5100	ASME Section	ASME UV	Stainless Steel ASME SA479-316,	1/8", 1/4",	NPT	1200 psig at 400°F	R-1186
Relief Valves		VIII Division 1	•		3/8", 1/2",		'	
					3/4", 1"			
ASME Safety	Series M5100	ASME Section	ASME UV	Naval Brass ASTM B21 Alloy 464	1/8", 1/4",	NPT	1200 psig at 350°F	R-1186
Relief Valves		VIII Division 1		(Note 4)	3/8", 1/2",			
				,	3/4", 1"			

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

Note 2: 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. (SAFETY CODES ACT - PROVINCE OF ALBERTA

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

Note 4: Brass ASTM B21 Alloy 464 may be used under the conditions specified in ASME Code Case 1750-25 as follows:

- A representative finished model of each product size and design having a bonnet, body, or yoke of pressure relief valves, housings for breaking or buckling pin devices, and holders for rupture disks constructed of ASTM B21 Alloy 464 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 B858M.

- Material conforming to ASTM B21 Alloy 464 shall be used only in the soft and half-hard tempers.

Note 5: See attached copy of National Board Listing.

REGISTRATION NO. UG ZZ 072.5

DWG. NO. or CAT. NO. Scype ...

TYPE OF FITTINGS PSO 4 M5/00
FR 1 2 2020 Safety Relief

Date 2 202 WITIALS

T. M. (ASHLING) DICK, P.ENG DESIGN SURVEY ENGINEER

NB#: 10001

Circor Aerospace, Inc. (CSC)

location: 2301 Wardlow Circle, Corona, CA 92880 United States

Acceptable Abbrev.: Circle Seal

Circor Aerospace, Inc. (CSC)

location: 2301 Wardlow Circle, Corona, CA 92880 United States

Acceptable Abbrev.: Circle Seal

0G22072 52

Certification 10001 Design Series D-500-2M

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on November 16, 1966

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .359 SCFM/PSIA

Test Medium: Gas Certified Medium: Air/Gas Set Pressure Definition: Pop

Blowdown: Fixed

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Scope of Nominal Size and Set Pressure Ranges:

Inlet Size Outlet Size Flow Area [designator] diameter Lift Set Pressure Range Media Code Section

0.25 NPS 0.059 sq in 0.275 in 0.069 in 15 - 150 psi Air VIII

Certification 10012 Design Series M5100-1M

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on November 06, 1966

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .286 SCFM/PSIA

Test Medium: Gas Certified Medium: Air/Gas Set Pressure Definition: Pop

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Orifice Inlet Size **Outlet Size** Set Pressure Range Flow Area [designator] diameter Lift Media Code Section 0.125 NPS 0.049 sq in 0.06 in 0.25 in 100 - 1200 psi Air VIII

Certification 10023 Design Series M5100-2M & 3M

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on November 16, 1966

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: .667 SCFM/PSIA

Test Medium: Gas
Certified Medium: Air/Gas
Set Pressure Definition: Pop
Blowdown: Fixed

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Scope of Nominal Size and Set Pressure Ranges:

Orlfice Inlet Size **Outlet Size** Flow Area [designator] diameter Lift Set Pressure Range Code Section Media 0.25 - 0.375 NPS 0.1 sq in 0.358 in 0.08 in 15 - 1200 psl Air VIII

Circor Aerospace, Inc. (CSC)

location: 2301 Wardlow Circle, Corona, CA 92880 United States

Acceptable Abbrev.: Circle Seal

NB#: 10034

Number 10034 or catalog number

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on November 16, 1966

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 1.310 SCFM/PSIA

Test Medium: Gas

Certified Medium: Air/Gas Set Pressure Definition: Pop

Blowdown: Fixed

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Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Inlet Size Outlet Size		Ontice Flow Area [designator] diameter Lift			Media	Code Section
0.5 NPS		0.209 sq in	0.516 in	0.1 in	15 - 1200 psi	Air	VIII

Type Classification: Safety Relief Valve

Capacity Tests: Sec. VIII Div. 1 at Phillips Petroleum on November 16, 1966

Method of Establishing Relieving Capacity: Flow Capacity, Slope

Certified Value: 3.453 SCFM/PSIA

Test Medium: Gas

Certified Medium: Air/Gas Set Pressure Definition: Pop

Blowdown: Fixed

Scope of Nominal Size and Set Pressure Ranges:

Inlet Size	Outlet Size	Flow Area	[designator] diameter	Lift	Set Pressure Range	Media	Code Section
0.75 - 1 NPS		0.428 sq in	0.738 in	0.25 in	100 - 1200 psi	Air	VIII

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