

October 06, 2020

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

The design submission, tracking number 2020-02998, originally received on June 09, 2020 was surveyed and accepted for registration as follows:

CRN : 0A22183.52 **Accepted on:** October 06, 2020
Reg Type: NEW DESIGN **Expiry Date:** February 14, 2030
Drawing No. : SEE SCOPE OF CRN REGISTRATION
Fitting type: JIC FITTINGS W/ TUBE ASSEMBLIES
Design registered in the name of : DETROIT FLEX DEFENSE

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

*** This design is accepted for registration based on the understanding that:*

- designed and constructed to ASME B31.3-2018
- corrosion allowance is 0
- hydrostatic test pressure is as per 345.4.2
- impact test exempted as per Table 323.2.2

*** The following drawings are included as part of this registration:*

- DFM450 Rev B.C, PRE003-06 Rev A.B, PRE003-08 Rev A.B, PRE003-12 Rev A.B

*** Detroit flex fitting shall be used with a mating JIC fitting that has a valid Alberta CRN*

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is 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 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.



the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

October 06, 2020

Sincerely,

A handwritten signature in black ink, appearing to read 'Peter Ashling'. The signature is fluid and cursive, with a large initial 'P'.

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

STATUTORY DECLARATION Registration of Fittings

I, BRYAN M. MOOSEKIAN, CHIEF OF OPERATIONS (name of applicant) (position title) of DETROIT FLEX DEFENCE (name of manufacturer) located at 2921 INDUSTRIAL ROW, TROY, MI, 48084 (plant address)



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

- comply with the requirements of ASME B31.3 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 as supported by the attached

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, ASR 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 CAT. A

In support of this application, the following information, calculations and/or test data are attached:

SCOPE OF CRN REGISTRATION, DRAWINGS, CALCULATIONS **

DECLARED before me at Troy in the State of Michigan this 26th day of February, 2020. Notary Public, State of Michigan, County Of Oakland. My Commission Expires 8-11-2021. Acting in the County of OAKLAND. (print) Cari M. Powell (a Commissioner of Oaths or Notary Public) (sign) Cari M Powell (signature of applicant) Bryan M. Moosekian

For ABSA Office Use Only:

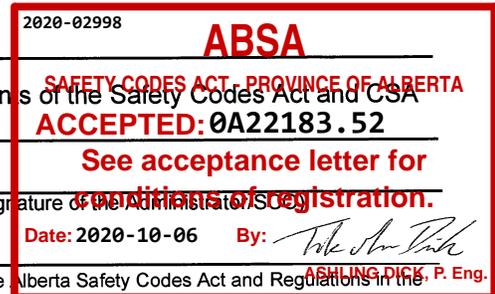
NOTES: ** JIC fittings w/ tube assemblies

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:

Date Registered:

Expiry Date:



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.

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.

DETROIT FLEX DEFENCE

2921 INDUSTRIAL ROW,
TROY, MICHIGAN,
48084



02-Apr-20

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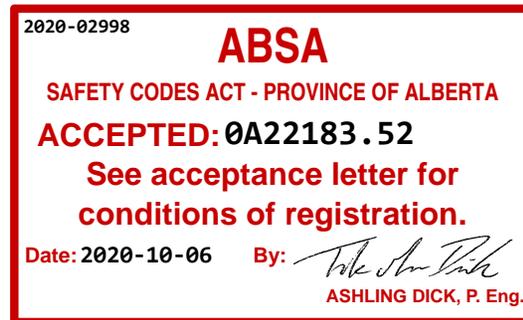
SCOPE OF CRN REGISTRATION

Product Description	Drawings Number	Design Code	Size Range	Process Connections	Material Specification	MAWP at MAWT	MDMT
JIC Fittings, Tube Fittings, Tube , 90 Degree	DFM450 Rev. B.C, PRE003-06 Rev. A.B, PRE003-08 Rev. A.B, PRE003-12 Rev. A.B	ASME B31.3 2018	3/8" OD, 1/2" OD	JIC, Tube End	Stainless Steel ASTM A479-316	1600 psig at 600°F	-135°F

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

Note 2: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 3: Tube fittings used in the connection shall have a valid CRN.



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.