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

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

June 23, 2020

**Attention:** Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-02997, originally received on June 09, 2020 was surveyed and accepted for registration as follows:

**CRN**: 0H22160.52 **Accepted on:** June 23, 2020

**Reg Type:** NEW DESIGN **Expiry Date:** February 07, 2030

**Drawing No.**: SCOPE OF CRN REGISTRATION **Fitting type:** TUBE FITTING 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 as per 345.4.2
- impact test exempted as per Table 323.2.2
- the Alberta CRN for the compression fitting is 0A06793.52

The following are included as part of this registration:

- PRE375x049-TB-xxxx-ASM Rev A.A, PRE375x049-TUBE01-ASM Rev A.A, PRE375x049-TUBE02-ASM Rev A.A, PRE375x049-TUBE03-ASM Rev A.A, PRE750x065-TB-xxxx-ASM Rev A.A

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.



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

June 23, 2020

Sincerely,

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

2020-02997 Page 2 of 2





In this space, show facsimile of

## STATUTORY DECLARATION Registration of Fittings

| I, BRYAN M. MOOSEKIAN , CHIEF OF OPERATIONS  | trademark as it will appear on the fitting.  |
|--|--|
| (name of applicant) (position title) (must be in a position of authority)  | DETROIT  |
| of DETROIT FLEX DEFENCE  | DFD  |
| (name of manufacturer)   | DEFENSE W.   |
| located at 2921 INDUSTRIAL ROW, TROY, MI, 48084 (plant address)  |  |
| do solemnly declare that the fittings listed hereunder, which are subject to the Safe (check one)  | ety Codes Act  |
| comply with the requirements of ASME B31.3 which which which which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirements of ASME B31.3 which will be with the requirement of the r | n specifies the dimensions,  |
| materials of construction, pressure/temperature ratings and identification materials of construction pressure/temperature ratings and identification materials of construction, pressure/temperature ratings and identification materials of construction, pressure/temperature ratings and identification materials of construction pressure/temperature ratings and identification materials.  | narking 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/te   | mperature 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 con  | itrol program which has been   |
|  | able for the manufacture of  |
| verified by the following authority, Aort 100 9001 as being suit   | able for the manufacture of  |
| these fittings to the stated standard. The fittings several by this declaration for y  | high Lagger registration, are  |
| these fittings to the stated standard. The fittings covered by this declaration, for w   | hich I seek registration, are  |
| CAT. H   | hich I seek registration, are  |
| CAT. H (brief description of fittings)   |  |
| CAT. H  (brief description of fittings)  In support of this application, the following information, calculations and/or test date.   |  |
| CAT. H (brief description of fittings)   |  |
| CAT. H  (brief description of fittings)  In support of this application, the following information, calculations and/or test data SCOPE OF CRN REGISTRATION, DRAWINGS, CALCULATIONS  |  |
| CAT. H  (brief description of fittings)  In support of this application, the following information, calculations and/or test data scope of CRN REGISTRATION, DRAWINGS, CALCULATIONS  DECLARED before me at Troy in the State of CAF  | Michigan   |
| CAT. H  (brief description of fittings)  In support of this application, the following information, calculations and/or test data SCOPE OF CRN REGISTRATION, DRAWINGS, CALCULATIONS  DECLARED before me at Troy in the State of CAF (city)  this 26th day of February , 2020  October 1 Capture 1 Capture 1 Capture 2 Captur | Michigan  Norpowers state)  lic, State of Michigan   |
| CAT. H  (brief description of fittings)  In support of this application, the following information, calculations and/or test data SCOPE OF CRN REGISTRATION, DRAWINGS, CALCULATIONS  DECLARED before me at Troy in the State of CAF City)  this 26th day of February , 2020 Notary Public Could (Year) My Commission (Year)  | Michigan  RI Norphywerg state)  Clic, State of Michigan  nty Of Oakland  sion Expires 8-11-2021  |
| CAT. H  (brief description of fittings)  In support of this application, the following information, calculations and/or test data SCOPE OF CRN REGISTRATION, DRAWINGS, CALCULATIONS  DECLARED before me at Troy in the State of CAF (city) CAF (city) CAF (Month) (Year) My Commission (Print) Carl M Powell Acting in the CAF (Acting in the CAF (Month)) Carl M Powell (Print) Carl  | Michigan  Norpowers state)  lic, State of Michigan   |
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## **DETROIT FLEX DEFENCE**

2921 INDUSTRIAL ROW, TROY, MICHIGAN, 48084



**PAGE 1 OF 1** 

## **SCOPE OF CRN REGISTRATION**

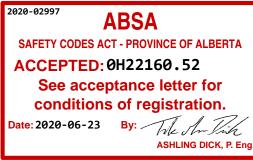
| Product      | Drawings                | Design     | Size     | Process       | Material        | MAWP at MAWT      | MDMT  |
|--------------|-------------------------|------------|----------|---------------|-----------------|-------------------|-------|
| Description  | Number                  | Code       | Range    | Connections   | Specification   |                   |       |
| Tube Fitting | PRE375x049-TB-xxxx-ASM, | ASME B31.3 | 3/8" OD, | Tube Fitting, | Stainless Steel | 400 psig at 400°F | -90°F |
| Assemblies   | PRE375x049-TUBE01-ASM,  | 2018       | 3/4" OD  | Tube End      | ASTM A269-316L, |                   |       |
|              | PRE375x049-TUBE02-ASM,  |            |          |               | ASTM A479-316,  |                   |       |
|              | PRE375x049-TUBE03-ASM,  |            |          |               | ASTM A182-316   |                   |       |
|              | PRE750X065-TB-xxxx-ASM  |            |          |               |                 |                   |       |
|              | All Drawings Rev. A.A.  |            |          |               |                 |                   |       |

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 construction 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.