

Montréal, 18 septembre 2025.

CECYLIA GARBACZ  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ON  
CANADA M9W 6N9

Fabricant : AFLEX HOSE LTD.  
DYSON WOOD WAY  
BRADLEY HUDDERSFIELD  
ROYAUME UN HD2 1GZ

Numéro de dossier : 941554  
Numéro(s) de dessin(s) : Scope of registration R-1319B Rev. 0

**Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement**

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0D26004.56**.

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date d'enregistrement. Les documents de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Salutations distinguées,

Direction des équipements sous pression

**Montréal**

255, boul. Crémazie Est, 2ième étage  
Montréal (Québec) H2M 1L5  
Téléphone : 514 873-2546  
Sans frais : 1 866 262-2084  
[enregistrementdesplans@rbq.gouv.qc.ca](mailto:enregistrementdesplans@rbq.gouv.qc.ca)  
[www.rbq.gouv.qc.ca](http://www.rbq.gouv.qc.ca)

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Manufacturer : AFLEX HOSE LTD.  
DYSON WOOD WAY  
BRADLEY HUDDERSFIELD  
ROYAUME UN HD2 1GZ

OUR REFERENCE : 941554  
Design number : Scope of registration R-1319B Rev. 0

**Subject: Design registration confirmation**

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0D26004.56.**

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each boiler or pressure vessel manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Direction des équipements sous pression

**Montréal**

255, boul. Crémazie Est, 2ième étage  
Montréal (Québec) H2M 1L5  
Téléphone : 514 873-2546  
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[www.rbq.gouv.qc.ca](http://www.rbq.gouv.qc.ca)



## WORLDWIDE LOCATIONS APPENDIX

### **AFLEX HOSE MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES**

(rev. July 8, 2024)

**Aflex Hose Ltd.**

Bradley Business Park  
Dyson Wood Way  
Bradley  
Huddersfield  
HD2 1GZ  
United Kingdom

**ISO 9001 Certified by bsi**

In addition, in accordance with CSA B51 paragraph 4.2.5 Aflex Hose Ltd. is taking responsibility for the product covered under this CRN that is manufactured at:

**Watson-Marlow, Inc.**

37 Upton Technology Park  
Wilmington, MA, 01887  
USA

**ISO 9001 Certified by TUV**

**Watson-Marlow, Inc.**

20472 Crescent Bay  
Suite #104  
Lake Forest, CA, 92630  
USA

**ISO 9001 Certified by TUV**

**Watson-Marlow America Manufacturing Inc.**

16 Bulge Road  
Devens MA 01434  
USA

**ISO 9001 Certified by TUV**

**Bio Pure Technology Ltd.**

Unit 5, Dunsbury Park,  
Fitzwygram Way,  
Havant, Portsmouth,  
PO9 4EE, Hampshire, United Kingdom

**ISO 9001 Certified by LRQA**

**AFLEX HOSE LTD.**  
BRADLEY BUSINESS PARK  
DYSON WOOD WAY  
BRADLEY, HUDDERSFIELD  
HD2 1GZ, UNITED KINGDOM



July 21, 2025

**THIS IS PART OF CRN**  
**0D26004.5**  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

## SCOPE OF CRN REGISTRATION

PAGE 1 OF 2

Hose Type(s) Biopure Platinum-Cured Silicone Hose Assemblies

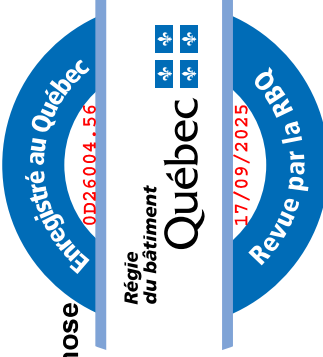
**Important: The CRN Pressure-Temperature Ratings listed in this document are the hose maximum CRN ratings. Consult hose product literature for recommended hose maximum operating conditions.**

The maximum CRN ratings are applicable to the following Service Types:

Service Type **Group 1**: Water and all other liquids, solid materials suspended in liquids or air, compressed air and other gases.

Service Type **Group 2**: Liquid media that immediately changes into gas under standard atmospheric conditions.

Service Type **Group 3**: Steam



| Product Description              | Design Code             | Material Specifications                                           | MDMT           | Report Number  |
|----------------------------------|-------------------------|-------------------------------------------------------------------|----------------|----------------|
| Biopure Flexible Hose Assemblies | ASME B31.3,<br>ASME BPE | ASTM A479-304/304L, ASTM A479-316/316L<br>Platinum-Cured Silicone | - 65°C / -85°F | R-1319B Rev. 0 |

## PRESSURE - TEMPERATURE RATINGS

| Process Connections |  | ASME BPE Ferrule Sizes 3/8", 1/2", 3/4", 1", 1-1/2" |                      |                      |                      |                                             |                      |
|---------------------|--|-----------------------------------------------------|----------------------|----------------------|----------------------|---------------------------------------------|----------------------|
| Service Type        |  | Group 1                                             |                      | Group 2              |                      | Group 3                                     |                      |
| Hose Bore           |  | MAWP at 38°C (barg)                                 | MAWP at 100°F (psig) | MAWP at 38°C (barg)  | MAWP at 100°F (psig) | MAWP at 204°C (barg)                        | MAWP at 400°F (psig) |
| 3/8"                |  | 4.0                                                 | 58                   | 4.0                  | 58                   | 1.9                                         | 28                   |
| 1/2"                |  | 3.5                                                 | 51                   | 3.5                  | 51                   | 1.7                                         | 25                   |
| 3/4"                |  | 3.1                                                 | 45                   | 3.1                  | 45                   | 1.5                                         | 22                   |
| 1"                  |  | 2.1                                                 | 30                   | 2.1                  | 30                   | 1.0                                         | 15                   |
| Hose Bore           |  | MAWP at 204°C (barg)                                | MAWP at 400°F (psig) | MAWP at 204°C (barg) | MAWP at 400°F (psig) | "Not suitable for continuous steam service" |                      |
| 3/8"                |  | 1.9                                                 | 28                   | 1.9                  | 28                   |                                             |                      |
| 1/2"                |  | 1.7                                                 | 25                   | 1.7                  | 25                   |                                             |                      |
| 3/4"                |  | 1.5                                                 | 22                   | 1.5                  | 22                   |                                             |                      |
| 1"                  |  | 1.0                                                 | 15                   | 1.0                  | 15                   |                                             |                      |



**SCOPE OF CRN REGISTRATION**

**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:** The ASME BPE Ferrule connection shall be used with a clamp, however the assembly clamp is not part of this CRN. Pressure-Temperature ratings may be limited by the clamp type used in the joint assembly. The clamp used to complete the joint shall have its own CRN and shall have pressure-temperature ratings the same or higher than the product ratings.

**Note 4:** The following ASME BPE process connections can be supplied based on the Hose Bore size

| Hose Bore | Available ASME BPE Ferrule Table<br>DT-7-1 Process Connection |
|-----------|---------------------------------------------------------------|
| 3/8"      | 3/8" Type A, 1/2" Type A, 3/4" Type A                         |
| 1/2"      | 1/2" Type A, 3/4" Type A, 1" Type A, 1" Type B                |
| 3/4"      | 3/4" Type A, 1" Type A, 1" Type B                             |
| 1"        | 1" Type A, 1" Type B, 1-1/2" Type B                           |

**Note 5:** The Biopure Platinum-Cured Silicone Hose Assemblies are not suitable for vacuum service.

**Note 6:** The conditions of design and service shall be within the limitations of the hose assembly as recommended by the manufacturer. Precautions of ASME B31.3 Appendix F, paras. F323 and para FA323, as applicable, shall be considered by the end user for selection of hoses.

**Note 7:** See attached Worldwide Locations Appendix for the manufacturing locations applicable to this CRN.

## Statutory Declaration Registration of Fittings

Building Act (B-1.1)  
Regulation respecting pressure vessels (B-1.1, r. 6.1)  
Boiler, pressure vessel, and pressure piping code (CSA B51)

This declaration must be filled out and sent to the Régie du bâtiment du Québec (RBQ) by pressure fitting manufacturers when they make an application registration for fittings.

For more information on the application registration for fittings, consult the [www.rbq.gouv.qc.ca/fittings-py](http://www.rbq.gouv.qc.ca/fittings-py).

### 1. Fittings to register

List the fittings included in this declaration and that you wish to register.

| N° | Description              | Additional information (detail, calculations or approval sheets) |
|----|--------------------------|------------------------------------------------------------------|
| 1  | FLEXIBLE HOSE ASSEMBLIES |                                                                  |
| 2  | SCOPE OF CRN, REPORTS    |                                                                  |
| 3  | DRAWINGS                 |                                                                  |
| 4  | CALCULATIONS             |                                                                  |
| 5  | COMPANY LOGO - SEE RIGHT |                                                                  |



### 2. Declaration of the person in charge

The person in charge is someone in a position of authority, such as a vice-president, a plant manager or a chief engineer.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>2.1 Design</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |
| I, the undersigned, <u>Dr. Leigh Mulvaney-Johnson PHD CENG (MIMECHE)</u> <u>Technical Manager</u><br><small>(Name of the person in charge)</small> <small>(Title of the person in charge)</small><br>from <u>Aflex Hose Ltd.</u> , located at <u>Bradley Business Park, Dyson Wood Way, Bradley, Huddersfield, HD2 1GZ, United Kingdom</u><br><small>(Company's name)</small> <small>(Plant's address)</small>                                                 |                                      |
| hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:<br><input checked="" type="checkbox"/> comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose or ASME B31.3, ASME BPE, ARPM IP-2<br><input type="checkbox"/> are not covered by the ANSI/ASME codes, but are in compliance with _____<br><small>(Name of code or standard)</small> |                                      |
| code or standard and are designed according to the best current engineering practice, as proven by the enclosed approval report.                                                                                                                                                                                                                                                                                                                               |                                      |
| <b>2.2 Manufacturing quality control</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |
| I further declare that the manufacture of these fittings is controlled by a quality control program that complies with the requirements of the following code: <u>ISO 9001:2015</u> , and has been verified by <u>bsi, TUV, LRQA</u><br><small>(Name of code)</small> <small>(Authorized agency)</small>                                                                                                                                                       |                                      |
| Signature of the person in charge: <u>L. Mulvaney-Johnson</u>                                                                                                                                                                                                                                                                                                                                                                                                  | Date (yyyy-mm-dd): <u>2024-06-12</u> |



### 3. Declaration of commissioner for oaths

|                                                                                                                                                                                                                                                                                                |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| I certify that this declaration has been administered before me, at <u>Hesden Bridge</u> , on <u>2024-06-12</u> .                                                                                                                                                                              |                                      |
| (Location)                                                                                                                                                                                                                                                                                     | (Date (yyyy-mm-dd)):                 |
| Signature of commissioner for oaths: <u>M M M</u>                                                                                                                                                                                                                                              | Date (yyyy-mm-dd): <u>2024-06-12</u> |
| Stamp the seal:                                                                                                                                                                                                                                                                                |                                      |
| <div style="text-align: center;"><p><b>mary maion</b><br/>SOLICITOR</p><p>TEL: 01422 844997 FAX: 01422 844797<br/>EMAIL: <a href="mailto:mary@marymahonsolicitor.co.uk">mary@marymahonsolicitor.co.uk</a><br/>8 WRAGLEY HOUSE, VALLEY ROAD<br/>HEBDEN BRIDGE, WEST YORKSHIRE HX7 7BN</p></div> |                                      |

### 4. Registration confirmation (for RBQ's use only)

|                                                                                                                                                                                   |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| As far as I know, this application complies with the requirements of the Act and with standard CSA B51, Part 1, section 4.2, and is accepted for registration in the class _____. |                                 |
| This registration expires in ten (10) years after the date of registration indicated above, and it must be validated again after this period.                                     |                                 |
| Canadian registration number (CRN):                                                                                                                                               | Registration date (yyyy-mm-dd): |
|                                                                                                                                                                                   |                                 |



#### Documents to attach

Any application registration for fittings must include these documents:

- Statutory Declaration Registration of Fittings (2 copies)
- Detailed calculations or burst test report (1 copy)
- Detailed technical drawings or catalogues (2 copies)
- Example of the manufacturer's marking (1 copy)
- Proof that a valid and approved quality control program has been implemented (1 copy)
- Form Application for design registration (1 copy)

#### Sending the form

This declaration is necessary to submit an application for design registration. Design registration applications must be sent by email only to [enregistrementdesplans@rbq.gouv.qc.ca](mailto:enregistrementdesplans@rbq.gouv.qc.ca).

Documents must be in PDF format and in separate files.