

REGISTRATION OF A PRESSURE FITTING DESIGN

September 3, 2025

TSSA
345 Carlingview Dr.
Toronto, ON
Canada
M9W 6N9

Attention: Cecylia Garbacz

File Number: 103479

Re: Manufacturer: Aflex Hose Ltd.
Item: Flexible Hose Assemblies
Catalog or Drawing: Per Scope of Registration (July 21, 2025) & Design Report R-1319B Rev. 0

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

OD26004.53

Expiry Date: 2035-07-22

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.

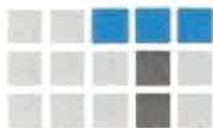
Codes and Standards Compliance

Remarks:

A valid quality control program must be maintained at the production facilities for the fitting registration to remain valid until the expiry date.

CRN issuance based upon registration by another province under the interprovincial agreement. Conditional upon compliance with the notes on the TSSA registration.

See Worldwide Locations Appendix (rev. November 24, 224) for list of manufacturing locations.



Technical Safety Authority of Saskatchewan

2202 2nd Ave.
Regina, SK S4R 1K3
PH: (306)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)760-9255
Email: boilerpermits@tsask.ca
Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Dr. Leigh Mulvaney-Johnson PHD CENG (MIMECHE),

Technical Manager

(company title, e.g. vice president, plant manager, chief engineer)
(must be in a position of authority in the manufacturing plant where the fitting is produced)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



AFLEX HOSE

OR
"AFLEX"

of: Aflex Hose Ltd.

(name of manufacturer)

located at: Bradley Business Park, Dyson Wood Way, Bradley, Huddersfield, HD2 1GZ, United Kingdom

(Plant Address – Apt/Street)

(City, Prov)

(Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- ☒ Comply with the requirements of ASME B31.3, ASME BPE, ARPM IP-2 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 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 manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001:2015 bsi, TUV, LRQA as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are CATEGORY D - FLEXIBLE HOSE ASSEMBLIES

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

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

II. Declaration

DECLARED before me at Hersham Bridge the County of West Yorkshire

this 12th day of June, 2024

MARY MAHON

(print name)

(Signature)

(Signature of Commissioner of Oaths)

III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category _____

(Registration Number)

(Date Registered – MM DD YYYY)

(Expiry Date – MM DD YYYY)

(For the Administrator / Chief Inspector)

mary mahon
S O L I C I T O R

TEL: 01422 844997 FAX: 01422 844797
EMAIL: mary@marymahonsolicitor.co.uk
8 WRAGLEY HOUSE, VALLEY ROAD
HEBDEN BRIDGE, WEST YORKSHIRE HX7 7BN



Technical
Safety Authority
of Saskatchewan

Registration No. 0D26004.53

File No. 103479

Registered

Date: September 3, 2025

Expiry Date: July 22, 2035

Codes & Standards Compliance Office

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

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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, ASME BPE	ASTM A479-304/304L, ASTM A479-316/316L 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		

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DYSON WOOD WAY
BRADLEY, HUDDERSFIELD
HD2 1GZ, UNITED KINGDOM



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SCOPE OF CRN REGISTRATION

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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 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

	
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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.



WORLDWIDE LOCATIONS APPENDIX

AFLEX HOSE MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES

(rev. November 24, 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 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

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