

REGISTERED



CRN: CSA-0021357.56

Registration Process administered by CSA Group per CSA B51

Statutory Declaration Registration of Fittings

(a) Design Qualification

I, Joel Feldman Vice President, Engineering (Position eg, president, plant manager, chief eng.)

Of Swagelok Company (name of company)

Located at Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A) (plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

[] comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required.

Or [X] are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with the ARPM Handbook code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency BSI

The fittings covered by this declaration, for which I seek registration, are Category D Hose Assemblies

In support of the application, the following information, calculations and/or test data are attached: ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

Declared before me at Solon In the of State of Ohio The 14th Day of March AD 2019 [Signature: Gerald Kammerl] (commissioner for oaths)

[Signature: Joel C. Feldman] Signature of Declarer

For Official Use Only The application is accepted for registration in Category D in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51. This registration must be revalidated after ten (10) years from the date of acceptance. May 1 2029 Registered Number CRN CSA-0021357.56 For the Chief Inspector Date [Signature: A. BANWATT] Sun 10 2019

- 1 Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted. 2 All fittings are required to be registered in the name of the Manufacturer. 3 This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.



Attachment B: Scope of Registration for Swagelok PB Series Hose Assemblies (Category D)

This document represents the scope of Swagelok's PB Series Hose and assemblies covered by this submission for CRN approval. These hose assemblies have been evaluated in accordance with the Association for Rubber Products Manufacturers (ARPM) Handbook.

Summary Table

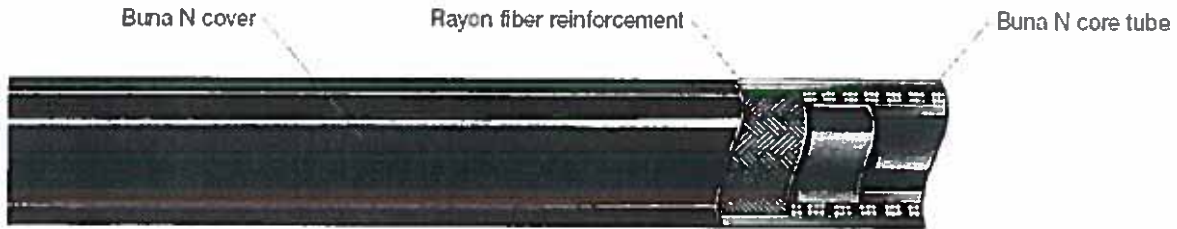
Product Series	Pressure Retaining Material	End Connections & Sizes	Nom. Hose Size (in)	Maximum Working Pressure (psig)			Design Code of Construction
				Min. Temp.	@ 70°F	Max. Temp.	
PB Series Hose (Eaton)	Core: Vinyl Nitrile (ARPM Class A) Braid: 1-Braid Fiber End Connections: 316 SS (ASTM A479) or C36000 Brass (ASTM B16)	Male ISO/BSP Threads (ISO 7) 1/4"-1" [MT]	1/4"	350 @ -40°F	350	100 @ 200°F	ARPM Handbook
			3/8"				
		Male NPT Threads 1/4"-1" [PM]	1/2"	300 @ -40°F	300	80 @ 200°F	
			3/4"				
PB Series Hose (ContiTech)	Core: Buna N Braid: Rayon Fiber End Connections: 316 SS (ASTM A479) or C36000 Brass (ASTM B16)	Tube Adapter 1/4"-1" [TA] 6-25MM [TM]	1"	300 @ -20°F			
		Tube Fitting 1/4"-1" [SL]					

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Product Illustrations

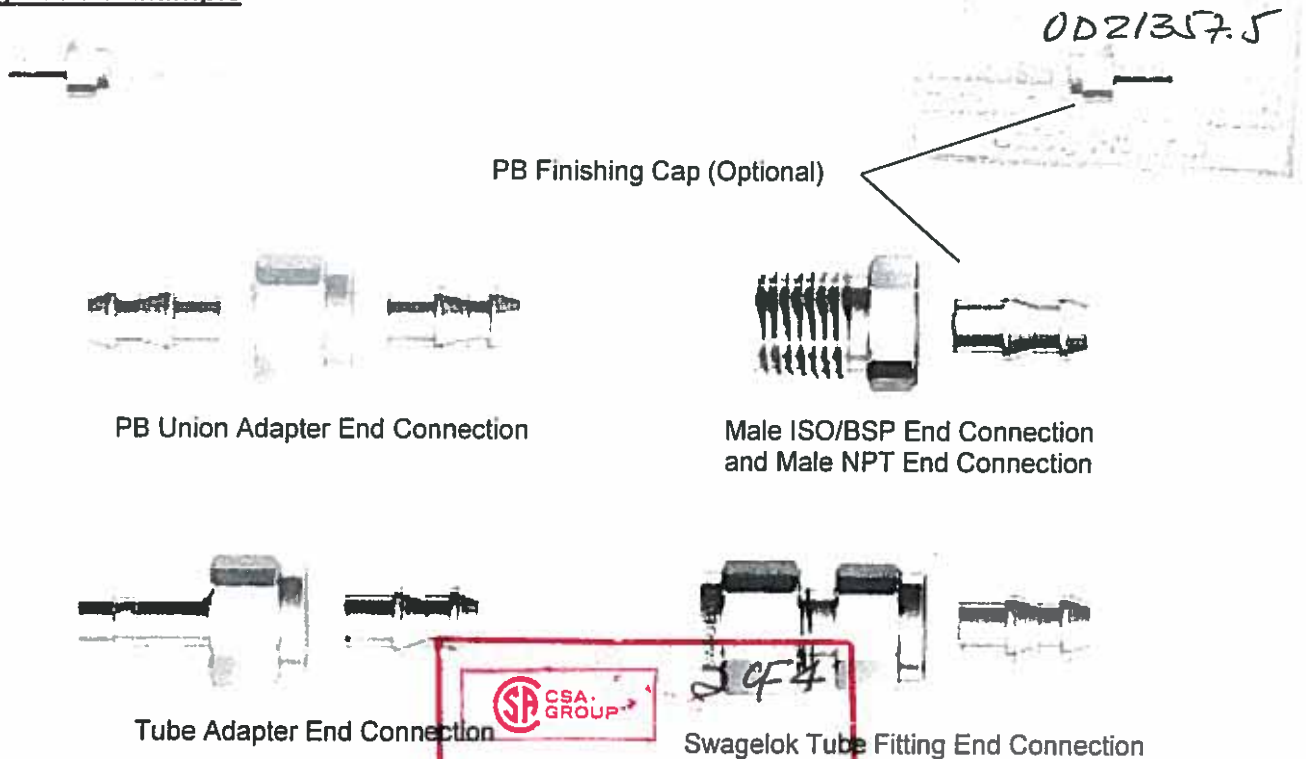
ContiTech Hose



Eaton Hose



Configuration Example



 **CSA GROUP**

ATTACHMENT TO
C.R.N. CSA-0001357.56
Signed: [Signature]
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Product Options

Additional options and non-pressure boundary alterations that do not affect pressure ratings may be made available within the scope of this approval. Examples of these would include, but are not limited to:

- Hose Color Options
- Tag and Marking Options (ex. tags, lanyards, retaining clamps, etc.)
- End Connection Seals or Sealant Options (ex. pipe thread sealant)
- Special Testing Options (ex. proof pressure tests)

Quality System

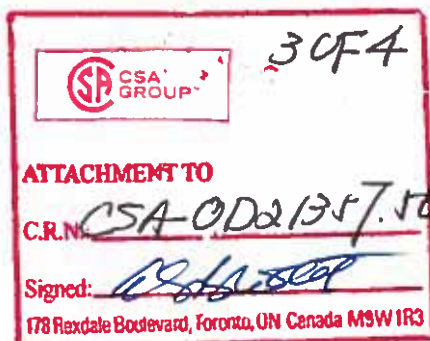
The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains BSI Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

References

The product catalog does not represent the full scope of the registration but rather details some of the most common options.

- Hose and Flexible Tubing Product Catalog MS-01-180, Rev. Q

OD 2/357.5



Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Hose Services Company (SHSC) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119
Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man

