



the pressure equipment safety authority

STATUTORY DECLARATION
Registration of Fittings

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

Swagelok

I, David H. Peace,

Vice President of Engineering

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Swagelok Company

(name of manufacturer)

located at Headquarters: 29500 Solon Road, Solon, Ohio 44139-3492 (See Attachment A)

(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 The RMA Handbook 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, British Standards Institution 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 Category D Type Fittings

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

ISO 9001:2008 Certificate, Support Documents, Attachments A, B, C, D, E

DECLARED before me at Solon in the State of Ohio

this 23 day of January, 2014
(Month) (Year)

(print) LORI A. SARVER

Lori A. Sarver, Notary Public
State of Ohio, Summit County
My Commission Expires April 13, 2015

(Signature of Applicant)

(sign) Lori A. Sarver
(A Commissioner for Oaths)

For Office Use Only

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 D

Registration Number: 0014205-52

Date Registered: FEB 26 2016

(For the Administrator/Chief Inspector of Alberta)

Expiry Date: December 21, 2025

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 Boiler Discipline.

* Refer to Attachment B Rev. B attached to this form Summit Mesa Feb 26, 2016
for scope of registration

Attachment B. Scope of Registration for Swagelok Coreflex PTFE (WC) Hose Assemblies (Category D)

Product Scope

This document represents the scope of Swagelok Coreflex WC PTFE Hose Assemblies covered by this submission for CRN approval. These Swagelok Coreflex WC PTFE Hose Assemblies have been evaluated in accordance with the Rubber Manufacturer's Association (RMA) Handbook and ASTM D380 Test Methods for Rubber Hose.

Summary Table

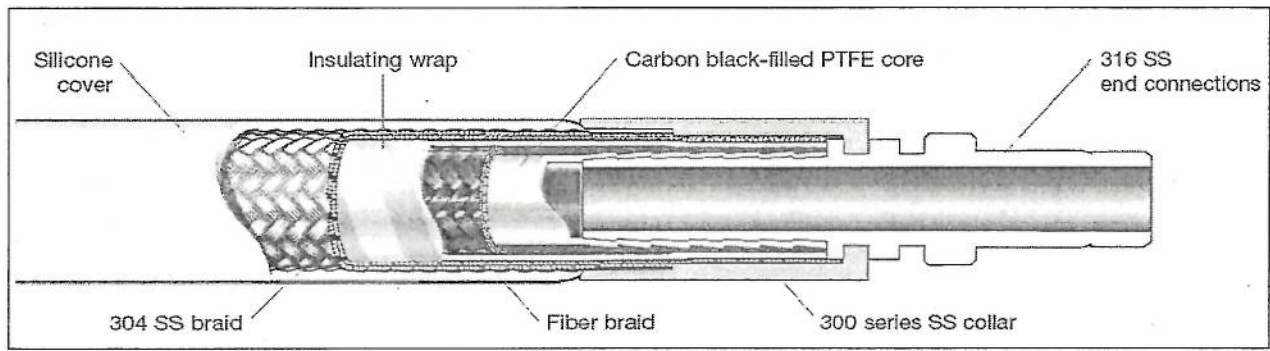
Product Description or Series	Pressure Retaining Material	End Connection & Sizes	Nom. Hose Size (in.)	Maximum Working Pressure in (Psig)		Design Code of Construction
				@ Min. -65°F	@ Max. 450°F	
W Series	Core: Carbon Black-filled (PTFE) [WC] Covered by: Fiber Braid & Insulating Wrap & 304 Series Stainless Steel Braid & Silicon Cover With: Annealed 316 Stainless Steel End Connections OR 316 Strain Hardened End Connections OR 316L Stain Hardened Stainless Steel End Connections & 300 Stainless Steel Crimp on Collar	Swagelok Tube Fitting: 1/8" to 2" & 3, 6, 10, 12, 18, 25, 38, 50 mm Swagelok Tube Adapters: 1/8" to 2" & 3, 6, 10, 12, 18, 25, 38, 50 mm Female Pipe Threads NPT: 1/8" to 2" Male Pipe Threads NPT: 1/8" to 2"	3/8"	750	750	Rubber Manufacturers Association Handbook SAFETY CODES ACT - PROVINCE OF ALBERTA REGISTRATION OF FITTINGS REGISTRATION NO. <u>0 D 1 4 2 0 5 - 5 2</u> DWG. NO. or CAT. NO. <u>Coreflex W Series-Attachment B Rev B</u> TYPE OF FITTINGS <u>Coreflex WC PTFE Hose Assemblies</u> FEB 26 2016 Date INITIALS <u>Samir</u> SAMIR ISSA, P.ENG. DESIGN SURVEY ENGINEER
		Tube Stubs: 1/8" to 2" & 3, 6, 8, 10, 12, 18, 25, 38, 50 mm *Sanitary Kwik -Clamps: 1/2" to 2" Tube Butt Welds: 1/2" to 2" Female VCO O-ring Face Seal Fitting: 1/8" to 2" Female VCR Metal Gasket Face seal Fitting: 1/8" to 2" *TS series Sanitary Clamps: 1/2" to 1" Male Pipe threads, ISO/BSP Tapered (ISO 7): 1/4" to 1" Male ISO/BSP Parallel Threads W/ 60° Male cone (ISO 228): 1/4" to 1" Female Pipe Threads, ISO/BSP Tapered (ISO 7): 1/4" to 1" Female ISO/BSP Parallel Threads (ISO 228): 1/4" to 1" Female Swivel ISO/BSP Parallel Threads W/ 30° Cone: 1/4" to 1/2" Female Swivel ISO/BSP Parallel Threads W/ 60° Cone: 1/4" to 1/2" *ANSI 150 LB Lap Joint Flange: 1/2" to 2"	1/2"	750	750	
			3/4"	750 @ Room Temperature		

* All sanitary clamps including Kwik clams and ANSI 150 Lb flanges have pressure rating lower than the bulk hose. For exact rating of these fitting see Swagelok hose and flexible tubing catalog.

Working Pressure for W Series PTFE Hose (WC Series)						
Hose Size (in)		Temperature in (°F)				
		-65 to 100	200	300	400	450
3/8"	Max. Working Pressure (PSIG)	750	750	750	750	750
1/2"	Max. Working Pressure (PSIG)	750	750	750	750	750
3/4"	Max. Working Pressure (PSIG)	NA	NA	NA	NA	NA

Product Illustration

WC series is standard Swagelok virgin PTFE-lined hose with fiber braid reinforcement, ceramic wrap insulation, 304 stainless steel reinforcement, and a silicone cover. All end connection inserts are crimped onto the hose using crimp collars.



Typical Product Characteristics

Some of the product options listed below do not affect the pressure-temperature ratings shown in the Summary Table. All of the following options are within the scope of this registration:

Cover Options

- Armor guard - Interlocking, flexible 304 stainless steel.
- Fire jacket - Woven fiberglass coated with specially compounded aerospace-grade silicone rubber
- Spiral guard - Helical HDPE plastic

Tag and Marking Options

- Mat tag - Polyester tag with customer-specified text
- Perma tag - Polyester tag encapsulated in platinum-cured silicone with customer-specified text
- Lanyard tag - Stainless steel tag with customer-specified text

End Connection Seals or Sealants Options

- VCO – O-rings
- Pipe Thread ends – thread sealant
- Flange and Sanitary Ends - gaskets

All of the above options are within the scope of this approval.

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Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The Swagelok Coreflex PTFE Hose Assemblies (WC) are manufactured at a Swagelok Company location in Solon, Ohio.

References

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

- Hose Assemblies, Bulk Hose, and End Connections Product Catalog MS-01-180

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