

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Swagelok Company</u>	
MANUFACTURERS ADDRESS: <u>29500 Solon Road, Solon, Ohio 44139-3492</u>	
PLANT LOCATIONS: <u>Headquarters: 29500 Solon Road, Solon, Ohio 44139-3492 (See Attachment A)</u>	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves <input checked="" type="radio"/> D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>The RMA Handbook</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <p align="center" style="font-size: 2em;">Swagelok</p>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input checked="" type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>ISO 9001:2008 Quality System Certificate, Support Documents, Attachments A, B, C, D, E</p>	

DECLARATION:
 I, David H. Peace (see note 3) employed by Swagelok Company and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by The British Standards Institution as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: [Signature]
 Declared before me at Solon Ohio
 This 23 day of February AD 2014
 Commissioner of Oaths or Notary Public: (sign) [Signature]
 (Affix Official seal to the right)



This space for Regulatory Authority use This registration must be revalidated after ten (10) years	
CRN: <u>OD14205.5 REV1</u> FID#: <u>1214</u>	DEPARTMENT OF PUBLIC SAFETY BRUNSWICK REGISTRATION ONLY CRN <u>OD14205.57 Rev1</u> EXAMINER: <u>[Signature]</u> for CHIEF BOILER INSPECTOR DATE: <u>2/15/2016</u>
<p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. 	

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.

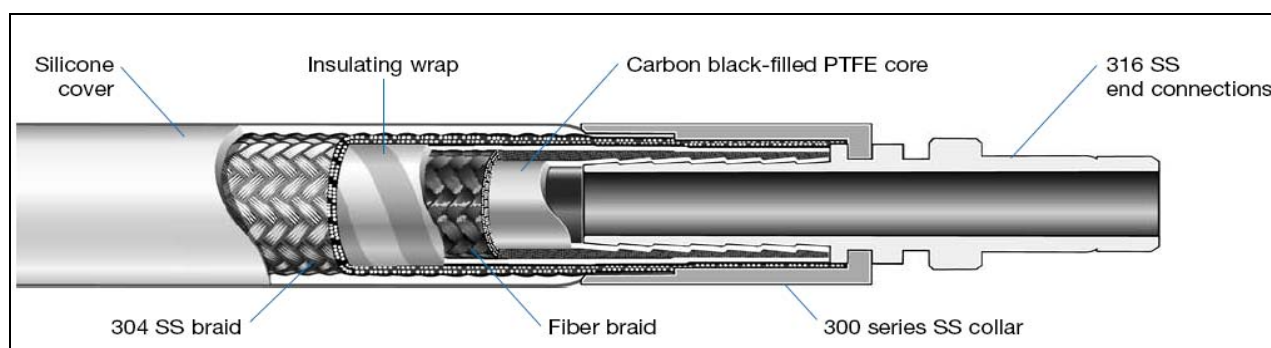
Summary Table

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	<p>Core: Carbon Black-filled (PTFE) [WC]</p> <p>Covered by: Fiber Braid & Insulating Wrap & 304 Series Stainless Steel Braid & Silicon Cover</p> <p>With: Annealed 316 Stainless Steel End Connections OR 316 Strain Hardened End Connections OR 316L Stain Hardened Stainless Steel End Connections & 304L Stainless Steel Crimp on Collar</p>	<p>Swagelok Tube Fitting: 1/8" to 2" & 3, 6,10,12,18,25,38,50 mm</p> <p>Swagelok Tube Adapters:1/8" to 2" & 3, 6,10,12,18,25,38,50 mm</p> <p>Female Pipe Threads NPT:1/8" to 2"</p> <p>Male Pipe Threads NPT: 1/8" to 2"</p> <p>Tube Stubs: 1/8" to 2" & 3, 6,8,10,12,18,25, 38, 50 mm</p> <p>*Sanitary Kwik –Clamps: 1/2" to 2"</p> <p>Tube Butt Welds: 1/2" to 2"</p> <p>Female VCO O-ring Face Seal Fitting: 1/8" to 2"</p>	3/8"	750	750	Rubber Manufacturers Association Handbook
		<p>Female VCR Metal Gasket Face seal Fitting: 1/8" to 2"</p> <p>*TS series Sanitary Clamps: 1/2" to 1"</p> <p>Male Pipe threads, ISO/BSP Tapered (ISO 7): 1/4" to 1"</p> <p>Male ISO/BSP Parallel Threads W/ 60° Male cone (ISO 228): 1/4" to 1"</p>	1/2"	750	750	
		<p>Female Pipe Threads, ISO/BSP Tapered (ISO 7): 1/4" to 1"</p> <p>Female ISO/BSP Parallel Threads (ISO 228): 1/4" to 1"</p> <p>Female Swivel ISO/BSP Parallel Threads W/ 30° Cone: 1/4" to 1/2"</p> <p>Female Swivel ISO/BSP Parallel Threads W/ 60° Cone:1/4" to 1/2"</p>	3/4"	500	500	

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)	500	500	500	500	500

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.

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 R8