Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLA	_ :	
Registration of Fittin	ngs	
I, Joel Feldman, Vice President of Engineering		
(Name and Position, e.g. President, Plant Manager, Cl	hief Engineer)	
of Swagelok Company		
(Name of Manufacturer)		
Located at 29500 Solon Road, Solon, Ohio 44139 USA	(440) 248-4600	(440) 349-5970
(Plant Address)	(Telephone No.)	(Fax No.)
do solemnly declare that the fittings listed hereunder, which are subject to the and Pressure Vessels Regulation, comply with all of the requirements of ARPM Hose Handbook, ASME B31.1 for unlisted components, and ASM		-
(Title of recognized North American Standard Which specifies the dimensions, materials of construction, pressure/temperature ra		an the Stringer and consists.
or are not covered by the provisions of a recognized North American standar as supported by the attached data which pressure/temperature ratings and the basis for such ratings, the marking of the	ch identifies the dimensione fitting for identification	ns, material of construction, and service.
I further declare that the manufacture of these fittings is controlled by a quality system.  Which has been verified by the following authority, BSI	m meeting the requirement	ents of 130 9001.2013
The items covered by this declaration, for which I seek registration, are category D. Hose this application, the following information and/or test data are attached as follows:  ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information are		
(drawings, calculations, test reports, etc.)		
Declared before me at in the the AD 20		of
Commissioner for Oaths:	uSigned by:	
Unable to get a notary signature or seal due to COVID-19 situation	CBBFFD3F14B7	3/8/2022   10:
FOR OFFICE USE ONLY		
To the best of my knowledge and belief, the application meets the requirements of the <b>Technical Standards and Safety Act</b> , Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category	Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program
CRN:  Registered by:  This Document has been digitally signed and approved.  The stamp size has	REGIST C.R.N.: 0D22748.5 Signed:	
Dated: been optimized for 11 x  17 documents	Date: May 19,	2022.
NOTE: This registration expires on: OCTOBER 16, 2030	-	



Canadian Registration Number Submittal
Category D Crimped Swagelok X Series PTFE Hose

# Attachment B: Scope of Registration for Crimped Swagelok X Series PTFE Hose Assemblies (Category D)

This document represents the scope of the Swagelok Coreflex XC and XT hose (X Series) and crimped assemblies covered by this submission for CRN approval. These products have been evaluated in accordance with the Association for Rubber Products Manufacturers (ARPM) Hose Handbook.

#### **Summary Table**

Table 1a – X series hose with fittings other than KC/KE (Kwik Clamp™) fittings								
X	Maxin	num Pressure	(psig)					
Series Hose Size	At Minimum Temp. (-65°F)	Room temperature (0°-100°F)	At Maximum Temp. (450°F)	Pressure Retaining Material	End Connections and Sizes	Design Code of Construction		
1/4"	3500	3500	3075	Swagelok Tube Fitting [SL, SM]  1/8" – 2" (3-50mm)  Core  Smooth bore PTFE (XT Pipe Fitting [PM, PF] 1/8" – 2"				
3/8"	3000	3000	1675	Series) OR Smooth bore carbon black filled PTFE	Male & Female ISO/BSP Tapered (ISO 7) Pipe Threads <b>[MT, FT]</b> 1/4" – 1"			
1/2"	1800	1800	1665	(XC Series)  Braid Fiber braid reinforcement AND	Male 37° JIC & Female 37° JIC with female swivel nut [AN, AS] 1/4" – 2"  Tube Butt Welds [TB] 1/2" – 1"	Association for Rubber Products Manufacturers (ARPM) Hose		
3/4"	1250	1250	900	304 SS Braid Reinforcement  End Connections 316 SS	Female VCO O-ring Face seal Fitting [VF] 1/8" – 2" Female VCR Metal Gasket Face seal Fitting [RF] 1/8" – 2"	Handbook		
1"	1000	1000	895	Crimp on Collar 300 series SS	Male ISO/BSP Parallel Threads W/ 60° Male cone (ISO 228) [MS] 1/4" – 1"  Female ISO/BSP Parallel Threads (ISO 228) [FS] 1/4" – 1"			

### THIS IS PART OF CRN

0D22748.5ADD1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program



January 13, 2022 Page 2 of 3

Table 1b – X series hose with KC/KE (Kwik Clamp™) fittings*								
	Maximum Pressure (psig)*					Design Code		
X Hose Size	At Min. Temp. (–65°F)	At Room temperature (0° – 100°F)	At Max. Temp. (250°F)	Pressure Retaining Material	End Connections and Sizes	of Construction		
1/4"	1500	1500	1500					
3/8"	1500	1500	1500	Same as above	Sanitary [KC KE] 1/2"	4001411		
1/2"	1500	1500	1500			ARPM Hose Handbook		
3/8"	1500	1500	1500			For KC/KE		
1/2"	1500	1500	1500	Same as above	Sanitary [KC KE] 3/4"	fitting: ASME B31.3		
3/4"	1250	1250	1100			(Unlisted		
1/2"	225	225	225			Components)		
3/4"	225	225	225	Same as above Sanitary [KC KE] 1"		ASME B31.1		
1"	225	225	225			(Unlisted Components)		
3/4"	400	400	400	Same as above	Sanitary [KC KE] 1-1/2"			
1"	400	400	400	Same as above	Samilary [NO NE] 1-1/2			

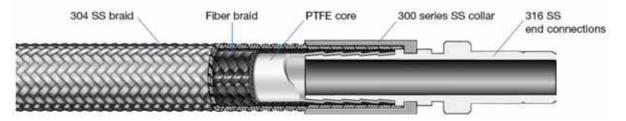
<sup>\*</sup> Temperature and pressure ratings limited by sanitary Kwik Clamp™ gaskets and clamps

#### **Product Description**

XT series is standard Swagelok virgin PTFE-lined hose with a fiber braid reinforcement and 304 stainless steel reinforcement with a silicone cover. The XC series consist of the same construction but has Swagelok carbon black filled virgin PTFE liner. The 1 inch nominal ID hose for both XT and XC series is constructed with two stainless steel braids and no fiber braid. All X Series hoses undergo production testing in accordance with ASTM D380 "Test Methods for Rubber Hose" (version current to hose production date).

#### **Configurations**

All end connection inserts are crimped onto the hose using crimp collars.



# THIS IS PART OF CRN 0D22748.5ADD1 Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program



Canadian Registration Number Submittal
Category D Crimped Swagelok X Series PTFE Hose

January 13, 2022 Page 3 of 3

#### **Product Options**:

Additional options that do not affect pressure and/or temperature ratings may be made available and are within the scope of this approval. Examples of these would include, but not limited to, the following:

#### **Cover Options**

- Armor guard Interlocking, flexible 302 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
- Lanyard tag Stainless steel tag with customer-specified text

#### **End Connection Seals or Sealants Options**

- VCO O-rings
- Pipe Thread ends thread sealant

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

THIS IS PART OF CRN

0D22748.5ADD1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

## **Attachment A. Swagelok Manufacturing Locations**

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

THIS IS PART OF CRN

	טט	22	211	40.5/	ΑD	וט		
7							 	 _

	0D22140.3ADD1	
Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44 USA  Technical Standards and Safety A Boilers and Pressure Vessels S Program USA	Authority Safety
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	