

PRINCE EDWARD ISLAND

NEATOUNDLAND AND LAURADOR

MANUFACTURERS NAME: Swagelok Company	
UAM WACTI DEGRASSING	
PLANT LOCATIONS: Headquarters 20500 Solon Road, Solon, Ohio 44139 USA	
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Atta GAYEGORY OF FITTINGS TO BE REGISTERD, CIRCLE ONE CATEGORY ONLY	schment A)
A Prominings, including couplings, toes, elbows, Ye, plugs, unions, pipe cape, or reducers 5 Fishpes: all fishpess 6 Valves: all the velves 6 Expension (office, Couble connections, and hose systembiles: all types 8 Strainers, filters, separations, and steam traps 7 Messuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters 6 Certified capacity-rated pressure relief devices socspitable as primary over pressure protection on before, pressure vessets, points and fusible plugs H Pressure retaining components that do not fall into one of the shave categories N Nuclear-components: Class 1 □ Class 2 □ Class 3 □, (Massion AFCR or ASNE requirements)	Rubber Products Manufacturers (ARPM) Hose Handbook, ASME B31.1 for unlisted components, ASME B31.3 for unlisted components
SHOW MANUFACTURERS NAME. TRADEWARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
Swagelok	FORGER OF WELDER OF WHOUSEY D CAST D OTHER XX DESCRIPTION OF THE CONTROL OF THE 316SS bar for hose connector fittings, PTFE core for hose
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Suppor	STEREO:
DECLARATION: tel Feldman, Vice President, Engineering (see cos s) employed by Swagelok Company and being exponaibility for the quality of the end product do solemnly declare that the information contained my knowledge represents the product for which registration is sought. The dimensions, materials emperature ratings, and identification markings are in accordance with the herein named standar namufacture of these fittings is regulated by a Quality Control Program which extends to each play in part and has been verified by RSI as being suitable for the factoristic conscientiously believing it to be true, and knowing that it is of the same force and effectoristic conscientiously believing it to be true, and knowing that it is of the same force and effectoristic conscientiously believing it to be true, and knowing that it is of the same force and effectoristic conscientions.	In this form is true and to the best of of construction, pressure ds. I further declare that the nt where fabrication occurs in whole
Signature of Declarer: ALC 3/8/2022 10:48 AM EST	
Declared before me at Umable to get a motory USETHIS	SPACE FOR THE
This day of AD OF FIR	CIAL SEAL
or Notary Public: (eign) COVID-19 signation (Affix Official see) to the right)	VIAL BEAL
This registration must be revalidated after ten (10) years from the date-of	
CRN. OU 22748. SASSI	URE VE
FIDS: 1214 Deta June	24/22
Notes: CRN_ODDD	748.58ADDI
1. All sittings shall be registered in the name of the Manufacturer. 2. Each eategory shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	Reny



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	Maximum 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	Core Smooth bore PTFE (XT	Swagelok Tube Fitting [SL, SM] 1/8" – 2" (3-50mm) Male & Female NPT Tapered 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 [MT, FT] 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"	

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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	

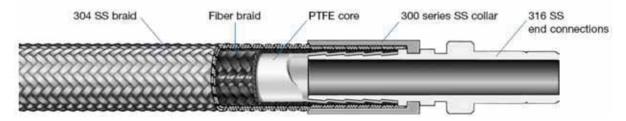
^{*} Temperature and pressure ratings limited by sanitary Kwik Clamp™ gaskets and clamps

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.



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Category D Crimped Swagelok X Series PTFE Hose

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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.

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Attachment A. Swagelok Manufacturing Locations

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

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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 Authority Boilers and Pressure Vessels Safety Program USA
Swagelok Company (Highland)	Swagelok Company (Falon 2)
318 Bishop Road	358 Bishop Road
Highland Heights, Ohio 44143	Highland Heights, Ohio 44143
USA	USA
Swagelok Company (OFC)	Swagelok Company (HPF)
29495 F.A. Lennon Drive	6050 Cochran Road
Solon, Ohio 44139	Solon, Ohio 44139
USA	USA
Swagelok Company (Atlantic)	Swagelok Company (Snow Metal)
26651 Curtiss Wright Parkway	6060 Cochran Road
Willoughby Hills, Ohio 44092	Solon, Ohio 44139
USA	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)	Swagelok Company (Strongsville)
29900 Solon Industrial Parkway	15400 Foltz Road
Solon, Ohio 44139	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