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: Swagelok Company					
MANUFACTURERS ADDRESS: 29500 Solon Bood Solon Oliver Address: 29500 Solon Bood Solon Oliver Address Ad					
PLANT LOCATIONS: Headquarters: 20500 Solom Park S. J. C. J.) USA				
PLANT LOCATIONS: Headquarters: 29500 Solon Road, Solon, Ohio 4 CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATE	14139 USA (See Attachment A)				
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or B Flanges all flanges C Valves: all line valves 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, level pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressionlers, pressure vessels, piping and fusible plugs F Pressure retaining components that do not fall into one of the above categories N Nuclear components. Class 1 □ Class 2 □ Class 3 □, (Meeting AECB or AS SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPER	ASME B31.3 for unlisted components and ISO 10380				
Swagelok	FORGED WELDED WROUGHT CAST OTHER X DESCRIBE OTHER				
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACT ISO 9001:2015 Certificate, Attachment A. Attachment B. Catalog Information	UAL ITEMS TO BE REGISTERED:				
my knowledge represents the product for which registration is sought. The temperature ratings, and identification markings are in accordance with the manufacture of these fittings is regulated by a Quality Control Program which or in part and base to be seen in the control of the second of th	nerein named standards. I further declare that the hextends to each plant where fabrication occurs in whole being suitable for that purpose and I make this solemn se same force and effect as if made under oath. JEFFREY C. TRUMBULE Notary Public P A State of OhioR T H E Recorded in Lake County				
Commissioner of Oaths or Notary Public: (sign)	Certificate # 2020-RE-813693 My Commission Expires April 15, 2025				
(Affix Official seal to the right)	R				
This space for Regulatory A This registration must be revalidated after ten (10) CRN: OD20522.5 Add1 FID# 1214 Scope: This addendum is to fix a typographical error with the hose braid material specification from ASTM A478 grade 321 to A580 Notes: grade 321. CRN expires June 11th, 2028 (DGallant) 1 All fittings shall be registered in the name of the Manufacturer 2. Each category 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.	Pears from the BruttsWick DEPT OF JUSTICE PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT REGISTRATION ONLY CRN DD20522 57Addl CHIEF BOILER INSPECTOR DATE 3/31/23				
	□BLRs □ PVs □FITTINGS □ NUCLEAR COMPONENTS				



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

Product Scope

The table below represents the scope of Swagelok FX series hose assemblies covered by this submission for CRN approval. These hose assemblies have been evaluated in accordance with ASME B31.3 and ISO 10380. The referenced product catalogues do not represent the full scope of the submission but rather detail some of the most common options.

Summary Table

Product Pressure Retaining		End Connection & Sizes	Nom. Hose Size	Maximum Working Pressure in (Psig)		Design Code of
301100	Material		(in.)	@ Min. Temp.	@ Max. Temp.	Construction
	<u>Core:</u>	Tube Fitting 1/4" – 1/2", 4-10 mm [TA, TM, SL, SM] NPT Female 1/8" – 1/4" [PF]		6000 @ -325°F	4236 @ 1000°F	
	316L SS (ASTM A240) Braid: 321 SS (ASTM A580) Or FX 316L SS Series (ASTM A240)	NPT Male 1/8" – 1/2" [PM] Female VCO Fitting 1/4" Male ISO/BSP Tapered threads (ISO 7) 1/4" – 1/2" [MT] Female ISO/BSP Tapered Threads (ISO 7) 1/4" [FT]	1/4	6000 @ -60°F	5640 @ 400°F	ASME B31.3, ISO 10380
Series		Male Swivel Nut VCR ¼" [RM] Female VCR Fitting ¼" [RF]		5500 @ -325°F	3883 @ 1000°F	
Metal Hose	Weld Collar:	Tube Fitting 12mm [TM]		5365 @ -325°F	3787 @ 1000°F	
	304 SS (ASTM A269) End Connections: Strain- Hardened 316 SS	NPT Female 3/8" [PF]		5300 @ -60°F	4982 @ 400°F	
		Tube Butt Weld 1/4" [TB]		5100 @ -325°F	3600 @ 1000°F	
		NPT Female ½" [PF]		4900 @ -60°F	4606 @ 400°F	
		Tube Butt Weld ½" [TB]		3700 @ -325°F	2612 @ 1000°F	
	(ASTM A479)	Male Swivel Nut VCR 1/2" [RM] Female VCR Fitting 1/2" [RF]		3000 @ -325°F	2118 @ 1000°F	



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Product Series	Pressure Retaining Material	End Connection & Sizes	Nom. Hose Size (in.)	Pres in (F @ Min.	working sure Psig) @ Max. Temp.	Design Code of Construction
		Tube Fitting 1/4" – 1/2", 4-12 mm [TA, TM, SL, SM] Female VCO Fitting 1/2" [VF] Male Swivel Nut VCR 1/4" [RM] Female VCR Fitting 1/4" [RF] NPT Female 1/4" – 1/4" [PF] NPT Male 1/4" – 1/2" [PM] Male ISO/BSP Tapered threads (ISO 7) 1/4" – 3/8" [MT] NPT Female 1/2" [PF] Tube Butt Weld 1/2" [TB] Tube Butt Weld 3/8" [TB] Male Swivel Nut VCR 1/2" [RM] Female VCR Fitting 1/2" [RF] Tube Fitting 1/4" – 3/4", 6-18 mm [TA, TM, SL, SM] Male Swivel Nut VCR 1/4" [RM] Female VCR Fitting 1/4" [RF] Female VCO Fitting 1/2" [VF] NPT Female 3/8-1/2" [VF] NPT Female 3/8-1/2" [PF] NPT Male 1/4" – 3/4" [PM] Female VCO Fitting 1/4" Male ISO/BSP Tapered threads (ISO 7) 3/8" – 1/2" [MT] Female ISO/BSP Tapered Threads (ISO 7) 1/2" [FT]				~ -
		NPT Female 1" [PF]		4400 @ -60°F	4092 @ 400°F	
		Tube Butt Weld ½" [TB]		3700 @ -325°F	2612 @ 1000°F	
		Male Swivel Nut VCR 1/2" [RM] Female VCR Fitting 1/2" [RF]		3000 @ -325°F	2118 @ 1000°F	
		Male Swivel Nut VCR 3/4" [RM] Female VCR Fitting 3/4" [RF]		2800 @ -325°F	1976 @ 1000°F	

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Product Series	Pressure Retaining Material	End Connection & Sizes	Nom. Hose Size (in.)	Pres in (F @ Min.	Working sure Psig) @ Max.	Design Code of Construction
		T. I. 5''' 4 /0" 4" 40 00	()	Temp.	Temp.	
	End Connections: Strain-Hardened 316 SS (ASTM A479) Core: 316L SS (ASTM A240) Weld Collar: 304 SS (ASTM A269)	Tube Fitting 1/2" – 1", 12-20 mm [TA, TM, SL, SM] Female VCO Fitting 1/2" – 3/4" [VF]		3600 @ -325°F	2541 @ 1000°F	
		NPT Female 1/2"-3/4" [PF] NPT Male 1/2" – 1" [PM] Female VCO Fitting 1/4" Male ISO/BSP Tapered threads (ISO 7) 1/2"-1" [MT] Female ISO/BSP Tapered Threads (ISO 7) 3/4"-1" [FT]	3/4	3600 @ -60°F	3384 @ 400°F	
		Male Swivel Nut VCR 1/2" [RM] Female VCR Fitting 1/2"-1" [RF]		3000 @ -325°F	2118 @ 1000°F	
		Male Swivel Nut VCR 5/8"-3/4" [RM] Female VCR Fitting 3/4" [RF]		2800 @ -325°F	1976 @ 1000°F	
Series		Tube Butt Weld 3/4"-1" [TB]		2400 @ -325°F	1694 @ 1000°F	
Metal Hose		Tube Fitting 1/2" – 1-1/4", 16-28 mm [TA, TM, SL, SM] Male Swivel Nut VCR 1" [RM] Female VCR Fitting 1" [RF] Female VCO Fitting 1" [VF]		3000 @ -325°F	2118 @ 1000°F	
		NPT Female 1" [PF] NPT Male 1/2" – 1" [PM] Female VCO Fitting 1/4" Male ISO/BSP Tapered threads (ISO 7) 1" [MT] Female ISO/BSP Tapered Threads (ISO 7) 1" [FT]	1	3000 @ -60°F	2820 @ 400°F	
		Male Swivel Nut VCR 3/4" [RM] Female VCR Fitting 3/4" [RF]		2800 @ -325°F	1976 @ 1000°F	
		Tube Butt Weld 3/4"-1" [TB]		2400 @ -325°F	1694 @ 1000°F	

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Product Series	Pressure Retaining Material	End Connection & Sizes	Nominal Hose Size (in.)	Pres	Working sure Psig) @ Max. Temp.	Design Code of Construction
	<u>Core:</u> 316L SS	Tube Fitting 1-1/4" – 1-1/2", 28- 32 mm [TA, TM, SL, SM]		2600 @ -325°F	1835 @ 1000°F	
	(ASTM A240) Braid: 321 SS	NPT Female 1-1/4" [PF] NPT Male 1" – 1-1/4" [PM] Male ISO/BSP Tapered threads (ISO 7) 1-1/4" [MT]	1-1/4	2600 @ -60°F	2444 @ 400°F	
(ASTM A580 or		Tube Butt Weld 1-1/4" [TB]		2400 @ -325°F	1694 @ 1000°F	
FX Series Metal	316L SS (ASTM A240)	Tube Fitting 1-1/2", 38 mm [TA, TM, SL, SM] Tube Butt Weld 1-1/2" [TB]		2200 @ -325°F	1553 @ 1000°F	ASME B31.3, ISO 10380
Hose	(ASTM A269) End Connections: Strain-	NPT Female 1-1/2" [PF] NPT Male 1" – 1-1/2" [PM] Male ISO/BSP Tapered threads (ISO 7) 1-1/2" - 2" [MT]	1-1/2	2200 @ -60°F	2068 @ 400°F	
		Tube Fitting 2" [TA, SL] Tube Butt Weld 2" [TB]	2	1675 @ -325°F	1182 @ 1000°F	
(NPT Male 1-1/2" – 2" [PM] Male ISO/BSP Tapered threads (ISO 7) 2" [MT]	2	1675 @ -60°F	1574 @ 400°F	

Product Illustration

All end connections are welded onto the hose using weld collars.

Boilers and Pressure Vessels Safety Program 321 SS Weld double-braid layers 316L SS core 316 SS end connections 304 SS weld collar



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Product Options:

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

Braid Options

316L SS

Cover Options

- Armor guard Interlocking, flexible 302 stainless steel.
- Fire jacket Woven fiberglass coated with specially compounded aerospace-grade silicone rubber
- Thermosleeve Braided fiberglass with saturated synthetic material coating.

Tag and Marking Options

- Mat tag Polyester tag with customer-specified text
- Lanyard tag Stainless steel tag with customer-specified text
- Clamp tag Stainless steel tag with customer-specified text

End Connection Seals or Sealant Options

- VCO O-rings
- VCR Gasket
- 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. The Swagelok FX series hose assemblies are manufactured at Hose Master and at 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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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 USA Technical Standards and Safety Authority Policy Standards and Safety Authority Policy Standards and Safety Authority Program Ohio 44143 Program
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