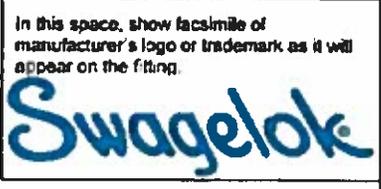


Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Joel Feldman
Vice President, Engineering
(company title e.g. vice president, plant manager, chief engineer)
(must be in a position of authority in the manufacturing plant where the fitting is produced)
 of: Swagelok Company
(name of manufacturer)



located at: Headquarters, 29500 Solon Road Solon, Ohio 44139 USA
(Plant Address - Ap/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.3 for unlisted components, ISO 10380 which specifies the dimensions, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)
- 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 manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category D, Hose

In support of this application, the following information, calculations and / or test data are attached:
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

II. Declaration

DECLARED before me at Solon In the State of Ohio
 this 07th day of May, 2018
Jamie L. Ristau Joel C. Feldman
(print name) Resident Portage County (Signature)
Jamie L. Ristau
(Signature of Commissioner of Oaths) Notary Public, State of Ohio Commission Expires: 03/08/2019

III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and **CSA B51, Clause 4.2**, and is accepted for registration in Category D
CSA-0020522.56 Sep. 19. 2018 July. 11. 2028
(Registration Number) (Date Registered - MM/DD/YYYY) (Expiry Date - MM DD YYYY)
 (For the Administrator / Chief Inspector) A. BANWATT



*Note: See the attachment for the scope of the registration.

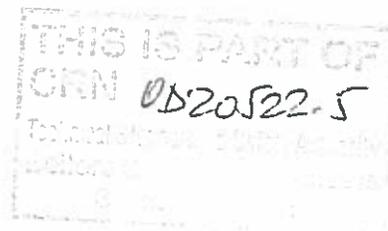
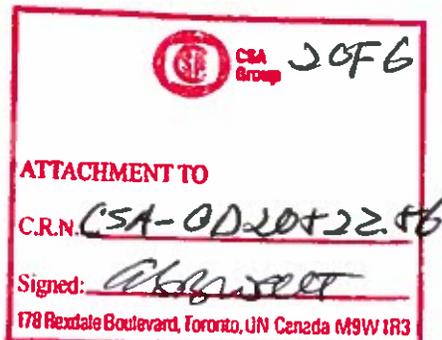
Attachment B: Scope of Registration for Swagelok FX Series Hose Assemblies (Category D)

Product Scope

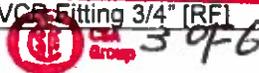
The table below represents the scope of Swagelok FX series hose assemblies covered by this submission for CRN approval. These hose assemblies have been evaluated in accordance with ASME B31.3 and ISO 10380. The referenced product catalogues do not represent the full scope of the submission but rather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

Summary Table

Product Series	Pressure Retaining Material	End Connection & Sizes	Nom. Hose Size (in.)	Maximum Working Pressure in (Psig)		Design Code of Construction
				@ Min. Temp.	@ Max. Temp.	
FX Series Metal Hose	Core: 316L SS (ASTM A240) Braid: 321 SS (ASTM A478) Or 316L SS (ASTM A240) Weld Collar: 304 SS (ASTM A269) End Connections: Strain-Hardened 316 SS (ASTM A479)	Tube Fitting 1/4" – 1/2", 4-10 mm [TA, TM, SL, SM]	1/4	6000 @ -325°F	4236 @ 1000°F	ASME B31.3, ISO 10380
		NPT Female 1/8" – 1/4" [PF] 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]		6000 @ -60°F	5640 @ 400°F	
		Male Swivel Nut VCR 1/4" [RM] Female VCR Fitting 1/4" [RF]		5500 @ -325°F	3883 @ 1000°F	
		Tube Fitting 12mm [TM]		5365 @ -325°F	3787 @ 1000°F	
		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 1/2" [PF]		4900 @ -60°F	4606 @ 400°F	
		Tube Butt Weld 1/2" [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	



Product Series	Pressure Retaining Material	End Connection & Sizes	Nom. Hose Size (in.)	Maximum Working Pressure in (Psig)		Design Code of Construction
				@ Min. Temp.	@ Max. Temp.	
FX Series Metal Hose	<p>Core: 316L SS (ASTM A240)</p> <p>Braid: 321 SS (ASTM A478) or 316L SS (ASTM A240)</p> <p>Weld Collar: 304 SS (ASTM A269)</p> <p>End Connections: Strain-Hardened 316 SS (ASTM A479)</p>	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]	3/8	5000 @ -325°F	3530 @ 1000°F	ASME B31.3, ISO 10380
		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]		5000 @ -60°F	4700 @ 400°F	
		NPT Female 1/2" [PF]		4900 @ -60°F	4606 @ 400°F	
		Tube Butt Weld 1/2" [TB]		3700 @ -325°F	2612 @ 1000°F	
		Tube Butt Weld 3/8" [TB]	3300 @ -325°F	2329 @ 1000°F		
		Male Swivel Nut VCR 1/2" [RM] Female VCR Fitting 1/2" [RF]	3000 @ -325°F	2118 @ 1000°F		
		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]	1/2	4500 @ -325°F	3177 @ 1000°F	
		NPT Female 3/8-1/2" [PF] NPT Male 1/4" - 3/4" [PM] Female VCO Fitting 1/4"		4500 @ -60°F	4230 @ 400°F	
		Male ISO/BSP Tapered threads (ISO 7) 3/8" - 1/2" [MT] Female ISO/BSP Tapered Threads (ISO 7) 1/2" [FT]		4400 @ -60°F	4092 @ 400°F	
		NPT Female 1" [PF]		3700 @ -325°F	2612 @ 1000°F	
		Tube Butt Weld 1/2" [TB]		3000 @ -325°F	2118 @ 1000°F	
		Male Swivel Nut VCR 1/2" [RM] Female VCR Fitting 1/2" [RF]		2800 @ -325°F	1976 @ 1000°F	
		Male Swivel Nut VCR 3/4" [RM] Female VCR Fitting 3/4" [RF]				



OD20522.5

ATTACHMENT TO
C.R.N. CSA-OD20522.5
 Signed: *[Signature]*
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Product Series	Pressure Retaining Material	End Connection & Sizes	Nom. Hose Size (in.)	Maximum Working Pressure in (Psig)		Design Code of Construction
				@ Min. Temp.	@ Max. Temp.	
FX Series Metal Hose	<p>Core: 316L SS (ASTM A240)</p> <p>Braid: 321 SS (ASTM A478) Or 316L SS (ASTM A240)</p> <p>Weld Collar: 304 SS (ASTM A269)</p> <p>End Connections: Strain-Hardened 316 SS (ASTM A479)</p>	Tube Fitting 1/2" - 1", 12-20 mm [TA, TM, SL, SM] Female VCO Fitting 1/2" - 3/4" [VF]	3/4	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]		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	
		Tube Butt Weld 3/4"-1" [TB]		2400 @ -325°F	1694 @ 1000°F	
		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	


40F6

ATTACHMENT TO

C.R.N. CSA-0020522.16

Signed: [Signature]

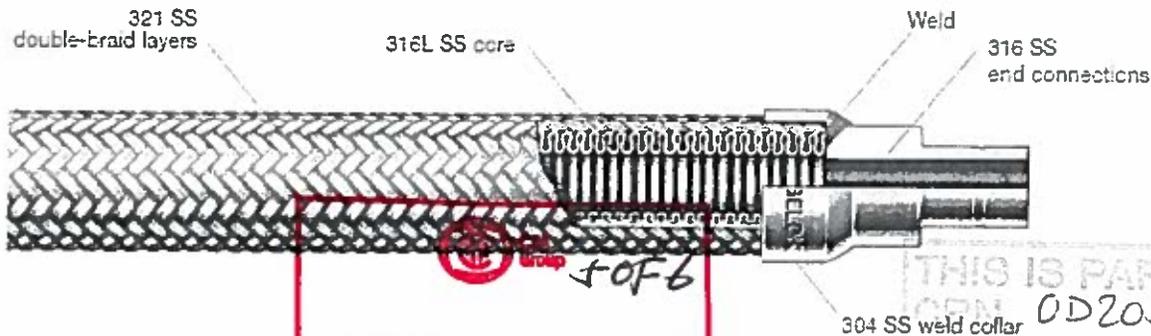
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

0020522.16

Product Series	Pressure Retaining Material	End Connection & Sizes	Nominal Hose Size (in.)	Maximum Working Pressure in (Psig)		Design Code of Construction
				@ Min. Temp.	@ Max. Temp.	
FX Series Metal Hose	Core: 316L SS (ASTM A240) Braid: 321 SS (ASTM A478) or 316L SS (ASTM A240) Weld Collar: 304 SS (ASTM A269) End Connections: Strain-Hardened 316 SS (ASTM A479)	Tube Fitting 1-1/4" – 1-1/2", 28-32 mm [TA, TM, SL, SM]	1-1/4	2600 @ -325°F	1835 @ 1000°F	ASME B31.3, ISO 10380
		NPT Female 1-1/4" [PF] NPT Male 1" – 1-1/4" [PM] Male ISO/BSP Tapered threads (ISO 7) 1-1/4" [MT]		2600 @ -60°F	2444 @ 400°F	
		Tube Butt Weld 1-1/4" [TB]		2400 @ -325°F	1694 @ 1000°F	
		Tube Fitting 1-1/2", 38 mm [TA, TM, SL, SM] Tube Butt Weld 1-1/2" [TB]	1-1/2	2200 @ -325°F	1553 @ 1000°F	
		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]		2200 @ -60°F	2068 @ 400°F	
		Tube Fitting 2" [TA, SL] Tube Butt Weld 2" [TB]		2	1675 @ -325°F	
	NPT Male 1-1/2" – 2" [PM] Male ISO/BSP Tapered threads (ISO 7) 2" [MT]	1675 @ -60°F	1574 @ 400°F			

Product Illustration

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



ATTACHMENT TO
C.R.N. CSA-0020522.56
Signed: [Signature]
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
C.R.N. 0020522.5
Swagelok Company
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

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

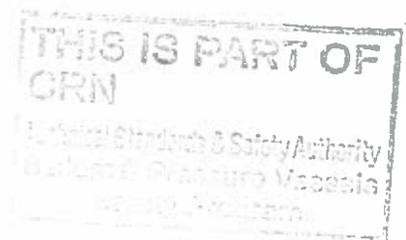
Quality System

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



Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
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 Company A.G. (European Technology Center) St. GallerstrasBe 84 Lachen, Switzerland 8853 Switzerland
Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man	


10F6

ATTACHMENT TO
C.R.N. CSA-OD20522.56
Signed: *[Signature]*
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
 CRN OD20522.5