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



STATUTORY DECLA	_ :	
Registration of Fittin	gs	
I, Joel Feldman, Vice President of Engineering		
(Name and Position, e.g. President, Plant Manager, Ch.	ief 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 ASME		-
(Title of recognized North American Standard)		0.500
which specifies the dimensions, materials of construction, pressure/temperature rat	ırıgs, idenillication markin	g tre illungs and service;
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 I further declare that the manufacture of these fittings is controlled by a quality system.	h identifies the dimensio e fitting for identification	ns, material of construction, and service.
which has been verified by the following authority, BSI		
The items covered by this declaration, for which I seek registration, are category D. Hose		_ type fittings. In support of
this application, the following information and/or test data are attached as follows: ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and	d other Support Docum	nents
(drawings, calculations, test reports, etc.)		
Declared before me at in the		of
the day of AD 20		
	Signed by:	
	/ / ~ ~	
Unable to get a notary signature or		1/-
seal due to COVID-19 situation		3/8/2022 10:
· · · · · · · · · · · · · · · · · · ·	BBFFD3F14B7	. —
(Signature)	(Signature of L	Jeciai ei)
FOR OFFICE USE ONLY	Tashnisal	5 " 1
To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act , Boilers and Pressure Vessels Regulation, and	Technical Standards	Boilers and Pressure Vessels
CSA Standard B51 and is accepted for registration in Category	and Safety	Safety Program
	Authority	
CRN: This Document has been digitally signed and	REGIST	ERED
approved.		
Registered by: — The stamp size has been	C.R.N.: 0D22747.5A	DD1
Dated: optimized for 11 x 17	Signed:	
documents	Date: April 23, 2	022.
NOTE: This registration expires on: OCTOBER 16,2030		



Canadian Registration Number Submittal
Category D Crimped Swagelok UT series PFA Hose

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Attachment B: Scope of Registration for Crimped Swagelok UT series PFA Hose Assemblies (Category D)

This document represents the scope of the Swagelok Coreflex UT series hose 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. U-Series hose assemblies have 2 possibilities for crimp collars; current standard and "Megafang" designs. Please see tables 1 and 2 below, and the "Configurations" section for description of differences between the two designs.

Summary Table

	Table 1a – Current Crimped Design with fittings other than KC/KE (Kwik Clamp™) fittings					
UT series Hose Size	Maxin At Min. Temp. (-65°F)	num Pressure At Room temperature (0° – 100°F)	(psig) At Max. Temp. (400°F)	Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
1/2"	200	300	160	Core Smooth bore PFA	Swagelok Tube Fitting [SL, SM] 1/8" – 2" (3-50mm) Male & Female NPT Tapered Pipe Fitting [PM, PF] 1/8" – 2" Male & Female ISO/BSP Tapered (ISO 7) Pipe Threads	
3/4"	115	300	180	Braid 302 SS Braid Reinforcement Cover Silicone cover End Connections	[MT, FT] 1/4" – 1" Male 37° JIC & Female 37° JIC with female swivel nut [AN, AS] 1/4" – 2" Tube Butt Welds [TB] 1/2"– 1" Female and Male VCO O-ring Face seal Fitting	Association for Rubber Products Manufacturers (ARPM) Hose Handbook
1"	250	250	175	316 SS Crimp on Collar 300 series SS	[VF, VM] 1/8" - 2" Female and Male VCR Metal Gasket Face seal Fitting [RF, RM] 1/8" - 2" Female ISO/BSP Parallel Threads (ISO 228) [FS] 1/4" - 1"	



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Canadian Registration Number Submittal Category D Crimped Swagelok UT series PFA Hose

Table 1b – Current Crimped Design with KC/KE (Kwik Clamp™) fittings*						
UT	Maximum Pressure (psig)*					Design Code
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
1/2"	200	300	230	Same as above	Sanitary [KC KE] 1/2"	ARPM Hose Handbook
1/2"	200	300	230	Same as above	Sanitary [KC KE] 3/4"	For KC/KE
3/4"	115	300	240	cume as above	ournary [NO NE] 0/4	fitting: ASME B31.3
1/2"	200	225	225			(Unlisted Components)
3/4"	115	225	225	Same as above	Sanitary [KC KE] 1"	ASME B31.1
1"	225	225	212			(Unlisted Components)

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

Table 2a – UT series "Megafang" Design with fittings other than KC/KE (Kwik Clamp™) fittings						
UT Maximum Pressure (psig)			(psig)	_		
series Hose Size	At Minimum Temp. (-65°F)	Room temperature (0° – 100°F)	At Maximum Temp. (400°F)	Pressure Retaining Material	End Connections and Sizes	Design Code of Construction
1/2"	200	300	160		Swagelok Tube Fitting [SL, SM] 1/8" – 2" (3-50mm) Male & Female NPT Tapered Pipe Fitting [PM, PF] 1/8" – 2"	
3/4"	115	300	195	Core Smooth bore PFA Braid	Male & Female ISO/BSP Tapered (ISO 7) Pipe Threads [MT, FT] 1/4" – 1"	
1"	250	250	175	302 SS Braid Reinforcement <u>Cover</u> Silicone cover	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
1 ½"	200	200	200	End Connections 316 SS Collar 300 series SS	Female and Male VCO O-ring Face seal Fitting [VF, VM] 1/8" - 2" Female and Male VCR Metal Gasket Face seal Fitting [RF,	Handbook
2"	150	150	150	33333333	Female ISO/BSP Parallel Threads (ISO 228) [FS] 1/4" – 1"	



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Table 2b – UT series "Megafang" Design with KC/KE (Kwik Clamp™) fittings*						
UT	Maximum Pressure (psig)*				Design Code	
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
1/2"	200	300	230	Same as above	Sanitary [KC KE] 1/2"	
1/2"	200	300	230	Come as above	Coniton (I/C //E) 2//"	
3/4"	115	300	240	Same as above	Sanitary [KC KE] 3/4"	ARPM Hose
1/2"	200	225	225			Handbook
3/4"	115	225	225	Same as above	Sanitary [KC KE] 1"	For KC/KE
1"	225	225	212			fitting: ASME B31.3
1/2"	200	300	230			(Unlisted
3/4"	115	300	240	Carra an abaya	Coniton (IVO VE) 4 4/0"	Components)
1"	250	250	212	Same as above	Sanitary [KC KE] 1-1/2"	ASME B31.1 (Unlisted
1-1/2	200	200	200			Components)
1	250	250	212			
1-1/2	200	200	200	Same as above	Sanitary [KC KE] 2"	
2"	150	150	150			

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

Product Description

The Swagelok UT series is standard Swagelok virgin PFA-lined hose with a silicone reinforcement layer, 302 Stainless Steel reinforcement, and a silicone cover. All UT 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. The U-Series hose crimp collars have two designs: the standard crimp collar available in 1/2", 3/4" and 1" sizes, and an upgraded design named "Megafang" which has shown more robust performance (1/2", 3/4" and 1" sizes noted in Table 2 to be widely available in 2021). Assemblies for both crimp collar designs noted above follow the same method of assembly and materials of construction. See photos below for visual differences between standard crimp collars and Megafang crimp collars.



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Figure 1 - Standard Crimp Collar



Figure 2 - Megafang Crimp Collar

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.

Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company	Swagelok Company (Falon 1)
29500 Solon Road	348 Bishop Road
Solon, Ohio 44139	Highland Heights, Ohio 44143
USA	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

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