



STATUTORY DECLARATION Registration of Fittings

I. Jo	el Feldman	. Vice F	President, Engineering	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.		
., <u></u>	(name of applicant)		n title) (must be in a position of authorit	-		
of S	wagelok Company	4		Smadelok		
		(name of manufa	cturer)			
locate	ed at 29500 Solon Ro	ad, Solon, Ohio 44139	OUSA (see Attachment A)			
(plant address) do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)						
\boxtimes	comply with the requ	uirements of ARPM Ho	se Handbook whi	ch specifies the dimensions,		
			gnized North American Standard)	•		
	materials of constru	iction, pressure/tempe	rature ratings and identification	marking of the fittings, or		
	are not covered by t	he provisions of a reco	ognized North American standar	d and are therefore manufactured		
	to comply with			as supported by the attached		
		(title of code of construction	n or other applicable document)	—		
	data which identifies	the dimensions, mate	rials of construction, pressure/te	emperature ratings and the basis		
	for such ratings, and	I the marking of the fit	ings for identification.			
l furth	er declare that the ma	anufacture of these fitti	ngs is controlled by a quality co	ntrol program which has been		
verifie	ed by the following aut	hority, BSI	as being su	itable for the manufacture of		
these	fittings to the stated s	tandard. The fittings	covered by this declaration, for v	which I seek registration, are		
Cate	egory D Type Fittings					
In sup	oport of this application		iion of fittings) ation, calculations and/or test da	ata are attached:		
ISO	9001:2015 Certificate	, Attachment A, Attach	ment B, Catalog Information an	d other Support Documents		
DECL	ARED before me at	i	n the of			
	_	(city)		(province or state)		
this_	da	ay of	,			
(print) Unable to get a notary signature						
of Semilisichere (abs COev FD)-19 situation						
(sign) <u>- September 22, 2020</u> (a Commissioner of Oaths or Notary Public)						
For ABSA Office Use Only:						
-						
NOTES:						
To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category						
Regis	tration Number:	2020-05230 SAFETY CODES ACT - PROVINCE OF ALBERTA				
		ACCEPTED: 0D22747.52 See acceptance letter for	(Signatu	re of the Administrator/SCO)		
Date	Registered:	conditions of registration.	Expiry Date: 20	30-10-16		

The information you provide is necessary only for the second strate on of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline. This starp and signature have been affixed description of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

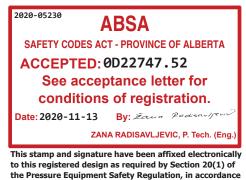


Attachment B: Scope of Registration for Crimped Swagelok UT series PFA Hose Assemblies (Category D)

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



with the Electronic Transactions Act.



Table 2 –"Megafang" Design						
UT	Maximum Pressure (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	Corre	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	<u>Core</u> Smooth bore PFA <u>Braid</u> 302 SS Braid	Male & Female ISO/BSP Tapered (ISO 7) Pipe Threads [MT, FT] 1/4" – 1"	
1"	250	250	175	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 1⁄2"	200	200	200	End Connections 316 SS Crimp on Collar	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	300 series SS	RM] 1/8" – 2" Female ISO/BSP Parallel Threads (ISO 228) [FS] 1/4" – 1"	

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).



to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.



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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.



Figure 1 - Standard Crimp Collar



Figure 2 - Megafang Crimp Collar



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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.

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.	Swagelok Limited
Changshu Export Process Zone	Ballafletcher Road
Changshu Economic Development Zone	Tromode
Changshu, Jiangshu	IM4 4RA
215513 China	Isle of Man



November 13, 2020

Attention: Tanya Francis TECHNICAL STANDARDS & SAFETY AUTHORITY 345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2020-05230, originally received on October 30, 2020 was surveyed and accepted for registration as follows:

CRN :	0D22747.52	Accepted on: November 13, 2020			
Reg Type:	NEW DESIGN	Expiry Date: October 16, 2030			
Drawing No. : CRIMPED SWAGELOK UT SERIES PFE - ATTACHMENT A & B					
Fitting type: HOSES 1/2" TO 2" (LIQUID, AIR OR GAS SERVICE)					
Design registered in the name of : SWAGELOK COMPANY					

The registration is conditional on your compliance with the following notes:

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is other engineering analysis.

It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
 This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to

- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3369 or fax (780) 437-7787 or e-mail Radisavljevic@absa.ca.

Sincerely,

Zaua Padisarlipevil

RADISAVLJEVIC, ZANA, P. Tech. (Eng.) DOP Cert. No. D00003136