



## STATUTORY DECLARATION Registration of Fittings

I, Joel	Feldman	. Vice Presider	nt, Engineering	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.
W. Sara	(name of applicant)		nust be in a position of authority	
of Swa	agelok Company	170 SYNY		Smadslok
		(name of manufacturer)		
located	at 29500 Solon Road,	, Solon, Ohio 44139 USA (s	see Attachment A)	15
daI	make dealers the state of	(plant address)		-
ao soler (check d	nnly declare that the fit one)	ttings listed hereunder, whi	ch are subject to the Saf	ety Codes Act
⊠ c	comply with the require	ments of ASME B31.1 and (title of recognized No	ASME B31.3 () which orth American Standard)	h specifies the dimensions,
n	naterials of construction	on, pressure/temperature ra	atings and identification r	narking of the fittings, or
Па	re not covered by the	provisions of a recognized	North American standard	and are therefore manufactured
	comply with			as supported by the attached
		le of code of construction or other	applicable document)	supported by the attached
d			350	mperature ratings and the basis
		e marking of the fittings for		inperature ratings and the basis
			ontrolled by a quality con	trol program which has been
verified b	by the following authori	ity, BSI	as being suit	able for the manufacture of
	ry A Type Fittings		2015	hich I seek registration, are
Catego In suppo	ry A Type Fittings	(brief description of fitting the following information, can	ngs) Iculations and/or test dat	a are attached:
Catego In suppo	ry A Type Fittings	(brief description of fitting	ngs) Iculations and/or test dat	a are attached:
Catego In suppo ISO 90	ory A Type Fittings ort of this application, the one of this application, the one of the original of the origi	(brief description of fitting the following information, can be tachment A, Attachment B, in the control of the following information of fitting in the control of the following information of fitting in the control of the following information of the following inform	catalog Information and	a are attached:
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# Attachment B: Scope of CRN Registration for Swagelok ATW, MW, and TB Series Weld Fittings (Category A)

This document represents the scope of Swagelok® Automatic Tube Weld (ATW), Micro-Fit Weld (MW), and Tube Butt Weld (TB) Fittings covered by this submission for CRN registration. These weld fittings were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.

Table 1 - Summary Table - ATW FITTINGS

ble 1 – Summar			Maximum Allowable Working Pressure (psig)		Design Code	
Product Series* (Size)	Material (Standard)	End Connections and Sizes	Up to 100°F	At Maximum Temperature (850°F)	of Construction	
-4 ATW (1/4")		Tube Fitting 1/4", 3/8",1/2" Tube Butt Weld 1/4"	5100	2390		
-6 ATW (3/8")	316L SS (ASTM A276, ASTM A479) for straight fittings, hardware F316L SS (ASTM A182) for shaped fittings	Tube Fitting 3/8" Tube Butt Weld 1/4" 3/8"	3300	1550		
-8 ATW (1/2")		Tube Fitting 1/4" 1/2" Tube Butt Weld 1/4",3/8",1/2"	3700	1730		
-12 ATW (3/4")		Tube Fitting 3/4"	2400	1120	ASME B31.1	
-16 ATW (1")		Tube Fitting 1"	2400	1120	(Unlisted Components)	
-6 MATW (6mm)		A	6095	2860	ASME B31.3 (Unlisted	
-8 MATW (8mm)			4499	2110	Components	
-10 MATW (10mm)		N/A	3483	1630		
-12 MATW (12mm)			2902	1360		
-18 MATW (18mm)	0		2902	1360		

<sup>\* &</sup>quot;MATW" denotes metric sized Automatic Tube Welds

nna

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	ISTRATION OF FITTINGS
	NNO. 0 A 2 1 8 4 0 . 5 2
DWG. NO. or 0	CAT. NO. Affachment B date
The state of the same	2019 INITIALS Well rudoll
Date	VEITH PUDOLE DENG

DESIGN SURVEY ENGINEER

d December 11, 2019 7 7 1 1 A R + 1 1

"See Acceptance Letter for the comments and/or conditions of registration"

Canadian Registration Submittal #ATW-MW-TB- 2019 Category A: Swagelok ATW, MW, TB Weld Fittings

Table 2 - Summary Table - MW FITTINGS

Product Series*	Material	Maximum Pre	Design Code	
(Size)	(Standard)	Up to 100°F	At Maximum Temperature (850°F)	Of Construction
-2MW (1/8")	316L SS (ASTM A276**, SEMI F20)	8500	3990	
-4MW (1/4")		5100	2390	
-6MW (3/8")		3300	1550	ASME B31.1 (Unlisted
-8MW (1/2")		3700	1730	Components
-12MW (3/4")		2400	1120	and
-16MW (1")		2400	1120	ASME B31.3
-6MMW (6mm)		6095	2860	(Unlisted
-8MMW (8mm)		4499	2110	Components)
-10MMW (10mm)		3483	1630	
-12MMW (12mm)		2902	1360	

<sup>\*</sup> End connections are all micro-fit weld end connections. "MMW" denotes metric sizes.

Table 3 - Summary Table - TB FITTINGS

Product Series*	Material	Maximum Pre	Design Code of		
(Size)	(Standard)	Up to 100°F	At Maximum Temperature (850°F)	Construction	
-2TB (1/8")	316L SS (ASTM A276, ASTM A479) for straight	8500	3990		
-4TB (1/4")		5100	2390	ASME B31.1	
-6TB (3/8")		3300	1550		
-8TB (1/2")		3700	1730	(Unlisted	
-12TB (3/4")		2400	1120	Components)	
-16TB (1")	fittings	2400	1120	and	
-6MTB (6mm)	F316L SS (ASTM A182) for shaped fittings	6095	2860	ASME B31.3	
-8MTB (8mm)		4499	2110	<ul> <li>(Unlisted Components)</li> </ul>	
-10MTB (10mm)		3483	1630	13.	
-12MTB (12mm)		2902	1360	10/15 00/	
-18MTB (18mm)		2902	1360	-taideo-h	

<sup>\*</sup> End connections are all tube butt weld end connections. "MTB" denotes metric sizes.

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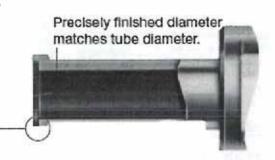
<sup>\*\* 20%</sup> minimum elongation allowed, also noted in product catalog

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#### Figure 1 - ATW Product Illustration

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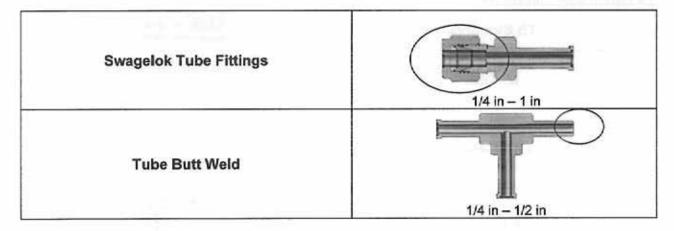
Integral filler ring aids in alignment.



### **ATW Fitting Configurations**

ATW Straights		
ATW Crosses		
ATW Tees	T	
ATW Elbows		

#### **ATW Body End Connections**



OA21840.52

Canadian Registration Submittal #ATW-MW-TB- 2019 Category A: Swagelok ATW, MW, TB Weld Fittings

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#### Figure 2 - MW Product Illustration

Square, sharp, burrfree tube weld ends enhance alignment, maintain tube wall uniformity, and promote weld repeatability.



Radius junction allows for a smooth flow transition and eliminates pockets and entrapment zones.

#### **MW Fitting Configurations**

MW Straights	
MW Tees	
MW Elbows	
MW Tribows and Quadbows	
MW Crosses	====

#### Figure 3 - TB Product Illustration

Tube ends are machined with a square face and corners to enhance alignment and maintain tube wall uniformity.



#### **TB Fitting Configurations**

TB Straights	
TB Tees	
TB Crosses	
TB Elbows	

Canadian Registration Submittal #ATW-MW-TB- 2019 Category A: Swagelok ATW, MW, TB Weld Fittings

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#### Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. 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.

Weld Fittings Product Catalog MS-01-149 Rev. M

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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.

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 Company A.G. (European Technology
Changshu Export Process Zone	Center)
Changshu Economic Development Zone	St. GallerstraBe 84
Changshu, Jiangshu	Lachen, Switzerland 8853
215513 China	Switzerland
Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man	