

REGISTERED  
 CSA GROUP  
 CRN: CSA-0A21840.56  
 Registration Process administered by  
 CSA Group per CSA B51

**Statutory Declaration Registration of Fittings**

**(a) Design Qualification**

I' Joel Feldman  
Vice President, Engineering  
 (Position eg, president, plant manager, chief eng.)

Of Swagelok Company  
 (name of company)

Located at Headquarters: 29500 Solon Road, Solon, Ohio 44139 USA (See Attachment A)  
 (plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

- comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required;
- Or
- are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with \_\_\_\_\_ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

**(b) Quality control of Manufacture**

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency BSI

The fittings<sup>2</sup> covered by this declaration, for which I seek registration, are Category A. Fitting

In support of the 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

Declared before me at Salon  
 In the of State of Ohio  
 The 10th Day of June AD 20 19  
Benoit Hamelin  
 A (commissioner for oaths)

Joel C. Feldman  
 Signature of Declarer

For Official Use Only

The application is accepted for registration in Category A in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after 10 years from the date of acceptance. EXP: OCT 7<sup>TH</sup>, 2029

Registered Number CRN CSA-0A21840.56 For the Chief Inspector A. BANWATT  
 Date DEC. 02. 2019

- 1 Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
- 2 All fittings are required to be registered in the name of the Manufacturer.
- 3 This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.



## 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**

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

\* "MATW" denotes metric sized Automatic Tube Welds



**Table 2 – Summary Table – MW FITTINGS**

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

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

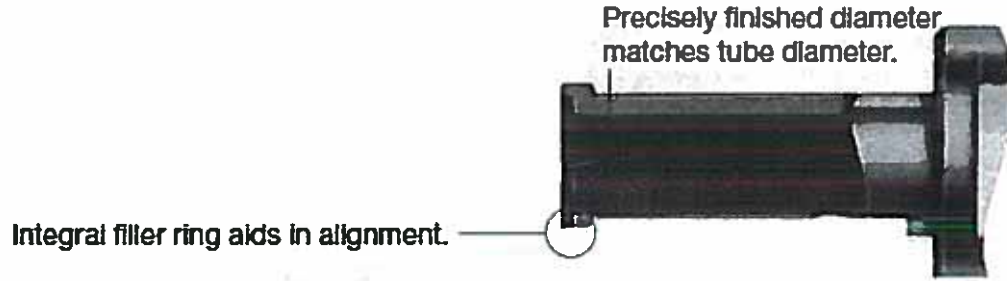
**Table 3 – Summary Table – TB FITTINGS**

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





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

**THIS IS PART OF**  
**CRN DA21840.5**  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

**Figure 1 – ATW Product Illustration**






**ATW Fitting Configurations**

ATW Straights	
ATW Crosses	
ATW Tees	
ATW Elbows	

DA 21840.5

**ATW Body End Connections**

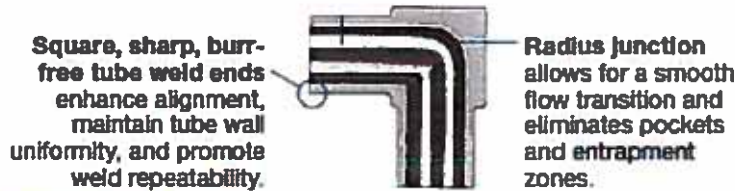
Swagelok Tube Fittings	 <p>1/4 in – 1 in</p>
Tube Butt Weld	 <p>4 of 5</p> <p>1/4 in – 1/2 in</p>



**CSA GROUP™**

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 Signed: [Signature]  
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

**Figure 2 – MW Product Illustration**



**MW Fitting Configurations**

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

**Figure 3 – TB Product Illustration**



**TB Fitting Configurations**

TB Straights	
TB Tees	
TB Crosses	
TB Elbows	

## 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

0A21840.5



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Signed: [Signature]

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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 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. GallerstraBe 84 Lachen, Switzerland 8853 Switzerland
Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man	



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Signed: [Signature]

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