

Technical Standards and Safety Authority 345 Carlingview Drive Toronto, Ontario M9W 6N9 www.tssa.org

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



STATUTORY DI Registration	E-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-02-10-	
Joel Feldman, Vice President of Engineering		
(Name and Position, e.g. President, Plant)	Manager, Chief Engineer)	
of Swagelok Company	544 - 655 - 544	
(Name of Manufactu	ror)	
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 su and Pressure Vessels Regulation, comply with all of the required ASME B31.1 for unlisted components, and ASME B31.3 for unli	nents of	ds and Safety Act, Boilers
(Title of recognized North American which specifies the dimensions, materials of construction, pressure/temp		ing the fittings and service;
or are not covered by the provisions of a recognized North American as supported by the attached	data which identifies the dimensi	ons, material of construction.
pressure/temperature ratings and the basis for such ratings, the ma	rking of the fitting for identification	n and service.
I further declare that the manufacture of these fittings is controlled by a qualified by the following authority, BSI	ality system meeting the requiren	nents of ISO 9001:2015
The items covered by this declaration, for which I seek registration, are category	A. Fitting	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		ments
(drawings, calculations, test n	eports, etc.)	
Declared before me atin the	state	of Ohio
the day of AD 20 P		
Commissioner for Oaths:		
Brenda Namme		
(Printed name)	11/2	
Breida Namnel	folk. Tel	
(Signature)	(Signature of	Declarer)
FOR OFFICE USE To the best of my knowledge and belief, the application meets the requirement Technical Standards and Safety Act, Boilers and Pressure Vessels Regula CSA Standard B51 and is accepted for registration in Category	nts of the and Safety Authority OFF	Boilers and Pressure Vessels Safety Program
CRN: 0A21840.5	CRN: OAZ	
Registered by:	- The second second	-
Dated:	Date: Octob	2 4. 2019
NOTE: This registration expires on: October 4 2029	3	and for the same of the same o

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request. Staufed attach went A and B PV 09553 (04/17)

See a tacked Scape: The share of the standard of the share of the sh

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

Date: June 10, 2019 Page 1 of 5

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* (Standard)			Maximum Allowable Working Pressure (psig)		Design Code of Construction
	End Connections and Sizes	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	
-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	ASME B31.1 (Unlisted Components)
-16 ATW (1")		Tube Fitting 1"	2400	1120	
-6 MATW (6mm)	F316L SS (ASTM A182)		6095	2860	ASME B31.3 (Unlisted
-8 MATW (8mm)	for shaped fittings		4499	2110	Components)
10 MATW (<mark>10mm</mark>)		N/A	3483	1630	
12 MATW (<mark>12mm)</mark>			2902	1360	
-18 MATW (18mm)			2902	1360	

^{* &}quot;MATW" denotes metric sized Automatic Tube Welds



Canadian Registration Submittal #ATW-MW-TB- 2019 Category A: Swagelok ATW, MW, TB Weld Fittings Date: June 10, 2019 Page 2 of 5

Table 2 - Summary Table - MW FITTINGS

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



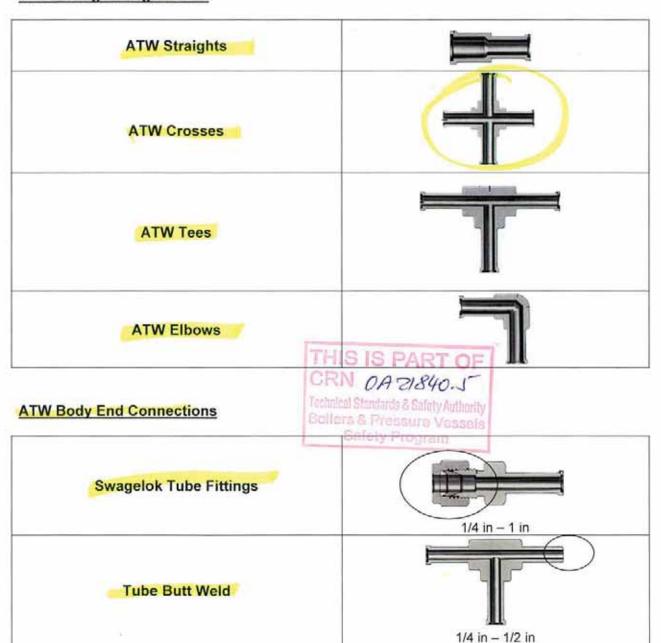
Canadian Registration Submittal #ATW-MW-TB- 2019 Category A: Swagelok ATW, MW, TB Weld Fittings Date: June 10, 2019 Page 3 of 5

Figure 1 – ATW Product Illustration



Integral filler ring aids in alignment.

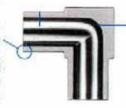
ATW Fitting Configurations



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

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. Date: June 10, 2019

Page 4 of 5

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 Date: June 10, 2019 Page 5 of 5

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



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

