2202 2nd Ave. Regina, SK S4R 1K3

Regina, SK S4R 1K3
PH: 306)798-7112 Toll Free: (866)530-8599
OCESS administered by FAX: 306)787-9273 Toll Free: (866)760-9255
Email: bollemonth-61:

Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

			TSK-1008
l.	Declaration Information		
l,	Joel Feldman Vice President, Engineering (company title, e.g. vice president, plant management (must be in a position of authority in the manufacturing plant (must be in a position of authority in the manufacturing plant)	ger, chief engineer) nt where the fitting is produced)	In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.
OI.	(name of manufacture	er)	
do	Headquarters: 29500 Solon Road (Plant Address – Apt/Street) solemnly declare that the fittings listed hereinungsel Safety Act (check one)	Solon, Ohio (City,Prov) der, which are subject to the Sas	44139 USA (Postal Code) skatchewan Boiler and Pressure
C	Comply with the requirements of ASME B31 (title of recognition) Materials of construction, pressure / tempera	gnized North American Standard) ature ratings and identification ma nized North American standard a als of construction, pressure / tem	and are therefore manufactured as supported by the attached
of the Cate	ther declare that the manufacturer of these fitting fied by the following authority, BSI nese fittings to the stated standard. The fittings agory A. Fitting application, the following information of this application, the following information of the propert of this application, the following information of the propert of this application, the following information of the property of this application, the following information of the property	as be covered by this declaration, for working controls and / or test data	eing suitable for the manufacturer which I seek registration, are a are attached:
Do	Declaration		Trader and other capport
this	day of 500 day of 500 hint name) The commissioner of Oaths)	In the State (Signature)	of Ohio
To th	Office Use Only see best of my knowledge and belief, the application m B51, Clause 4.2, and is accepted for registration in C SAOA2/840.56 segistration Number)	DEC · OZ · 2019 (Date Registers: MM DD YYYY) (For the Administrator? Chief Inspector)	10-04-2029 (Explry Date - MM DD YYYY)

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

Attachment B: Scope of CRN Registration for Swagelok ATW, MW, and TB Series Weld Fittings (Category A)

Date: June 10, 2019

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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

		W FITTINGS	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")		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")	316L SS (ASTM A479) for straight	Tube Fitting 3/4"	2400	1120	ASME B31.1
-16 ATW (1")	fittings, hardware	Tube Fitting 1"	2400	1120	(Unlisted Components)
-6 MATW (6mm)	F316L SS (ASTM A182)		6095	2860	ASME B31.3 (Unlisted
-8 MATW (8mm)	for shaped fittings		4499	2110	Components)
-10 MATW (10mm)		N/A	3483	1630	
-12 MATW (12mm)			2902	1360	
-18 MATW (18mm)	11		2902	1360	11.50

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



Swagelok

CSA-0A21840.Sb

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 laterial Pressure (psig)		Design Code	
(Size)	(Standard) Up to 100°F AtiMaximum Temperature (850°F		AtiMaximum Temperature (850°F)	Construction	
-2MW (1/8")	316L SS (SEMI F20)	8500	3990		
-4MW (1/4")		5100	2390		
-6MVV (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)	W (12mm)		1360		

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

Table 3 - Summary Table - TB FITTINGS

Product Series*	Maximum Allowable Working Material Pressure (psig)		Design Code of	
(Size)			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.





Smadelok

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

Figure 1 - ATW Product Illustration

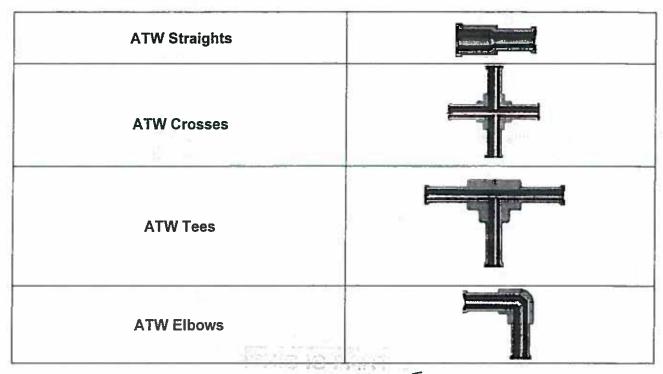
Precisely finished diameter matches tube diameter.

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Integral filler ring aids in alignment.

ATW Fitting Configurations



DA 21840,5

ATW Body End Connections



Swagelok

Canadian Registration Submittal #ATW-MW-TB- 2019 Category A; Swagelok ATW, MW, TB Weld Fittings CSA - OA 21840,56

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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	

Swadelok

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

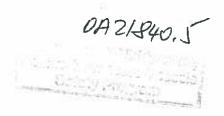
Quality System

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	CSA 20F5

ATTACHMENT TO

C.R.N: CSA - OA 2/840.56

Signed:

1/8 Rexdale Boulevard, Toronto, ON Canada M9W 1R3