

2202 2nd Avenue Regina, SK S4R 1K3 Canada 1 (866) 530-8599 info@tsask.ca www.tsask.ca

#### REGISTRATION OF A PRESSURE FITTING DESIGN

November 18, 2025

TSSA 345 Carlingview Dr. Toronto, ON Canada M9W 6N9

Attention: Cecylia Garbacz File Number: 103965

Re: Manufacturer: Tylok International, Inc.

Item: Instrumentation Tube Fittings

Catalog or Drawing: Scope of CRN Registration (07-Oct-25) & Design Report R-

2175B Rev. 0

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

0A17734.53 Expiry Date: 2035-10-14

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,

Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

#### Remarks:

CRN renewal - previously registered in Saskatchewan through CSA.

CRN issuance based upon registration by another province under the interprovincial agreement. Conditional upon compliance with the notes on the TSSA registration.



Codes & Standards Compliance Office

2202 2nd Ave. Regina, SK S4R 1K3

PH: (306)798-7112 Toll Free: (866)530-8599 FAX: (306)787-9273 Toll Free: (866)760-9255

Email: boilerpermits@tsask.ca Website: www.tsask.ca

## Statutory Declaration (Registration of Fittings)

		TSK-1008		
I. Declaration Information	<b>,这是这个人,这是一个人的人,</b>	25 1 50 , 1 12 12 1 2 1 2 1 2 1 2 1		
Luke DiFranco		In this space, show facsimile of		
Engineer		manufacturer's logo or trademark as it will appear on the fitting.		
(company title, e.g. vice presiden				
(must be in a position of authority in the manu of: Tylok International, Inc.	tracturing plant where the fitting is produced)			
	manufacturer)			
located at: 26000 Lakeland Boulevard,	Euclid, OH, 44132, USA	FITTINGS & VALVES		
(Plant Address – Apt/Street)	(City,Prov)	(Postal Code)		
do solemnly declare that the fittings listed Vessel Safety Act (check one)	nereinunder, which are subject to the Sa	iskatchewan Boiler and Pressure		
<ul> <li>Comply with the requirements of</li> </ul>		which specifies the dimensions,		
Materials of construction, pressure	(title of recognized North American Standard)  / temperature ratings and identification n	narking of the fittings, or		
O Are not covered by the provisions of	of a recognized North American standard	and are therefore manufactured		
to comply with		as supported by the attached		
	s, materials of construction, pressure / te	mperature ratings and the basis		
for such ratings, and the marking o	f the fittings for identification.			
I further declare that the manufacturer of the		1		
verified by the following authority, ISO 90		peing suitable for the manufacturer		
of these fittings to the stated standard. The CATEGORY A - TUBE FITTINGS	ne fittings covered by this declaration, for	which I seek registration, are		
In our part of this application, the following				
In support of this application, the following	5 00-0- x x0-1	ita are attached:		
SCOPE OF CRN, DRAWINGS, CA	ALCULATIONS, REPORTS			
II. Declaration				
DECLARED before me at Tylok International In the City State of Fucuci, Ohio				
this 28th day of January OTARY PUBL , 2025				
throughouth Kuchen				
(print name)				
Gluspeth Kirby 1*	Notary Public, State of			
(Signature of Commissioner of Oaths)	My Commission Expir			
III. Office Use Only				
To the best of my knowledge and belief, the application meets the requirements of the <b>Boiler and Pressure Vessel Safety Act</b> and CSA B51, Clause 4.2, and is accepted for registration in Category				
		90		
Technical Safety Authority of Saskatchewan	(Date Registered – MM DD YYYY) (For the Administrator / Chief Inspecto	(Expiry Date – MM DD YYYY) pr)		
Registration No0A17734.53				
File No				
Registered  Date: November 18, 2025		TSK-1008 Rev. 10/2012		
Date: November 18, 2025  Expiry Date: October 14, 2035		Page 1 of 1		

## TYLOK INTERNATIONAL, INC.

26000 LAKELAND BOULEVARD, EUCLID, OH, 44132, USA



PAGE 1 OF 4

#### **SCOPE OF CRN REGISTRATION**

	Design Report	R-2175	B Rev. 0				
	Product						
	Description		Tylok CS-LOK Product Families  SATPF, SATPM, SHBA, SBHFP, SBHMP, SBHU, SBUANF, SCAP, SF PLUG, SFC, SMC, SMC-ORS, SMC-ORT, SPCU, SRATT, SRPC, SRU, STBW, STSW, SU, SUANF, SELU SFE, SME, STBWE, STSWE, STFT, STMT, STTF, STTM, STTT, SCR				
	Instrumentation						
	Tube Fittings						
				<b>T</b>	1		
		_				ASME B31.3	ASME B31.1
	Design	Α	vailable Material of	Tylok	Tube	MAWP at 100°F	MAWP at 100°F
	Code		Construction	Size	Size	(psig)	(psig)
	ASME B31.3,		Stainless Steel	2	1/8"	10900	10900
	ASME B31.1	AS	STM A479-316/316L,	3	3/16"	10200	10200
		AS	STM A182-F316/316L	4	1/4"	10200	10200
4	Technical		1	5	5/16"	8000	8000
	Safety Autho of Saskatchev	ority		6	3/8"	6500	6500
	tration No. OA17734.53	vari		8	1/2"	6700	6700
le N	400005			10	5/8"	6000	6000
Registered ate: November 18, 2025		12	3/4"	5800	5800		
		14	7/8"	4800	4800		
pir	piry Date: October 14, 2035			16	1"	4700	4700
_	Codes & Standards Compliance Office	e	Steel	2	1/8"	10200	8700
			ASTM A105,	3	3/16"	9600	8200
		AST	ΓM A108 Grade 12L14,	4	1/4"	9600	8200
			1137, 1141, 1045	5	5/16"	7600	6400
				6	3/8"	6200	5300
				8	1/2"	5900	5000
				10	5/8"	5300	4600
				12	3/4"	5100	4300
				14	7/8"	4300	3600
				16	1"	4100	3500
	-		Brass	2	1/8"	3600	3600
		,	ASTM B16-C36000,	3	3/16"	3400	3400
			ASTM B283-C37700	4	1/4"	3500	3500
		-	10 FIVE D200-037 F00	5	5/16"	2700	2700
				6	3/8"	2200	2200
					1/2"	2100	2200
				10	5/8"	1900	
							1900
				12	3/4"	1800	1800
				14	7/8"	1500	1500
				16	1"	1500	1500

**Note 1**: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

**Note 2**: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

**Note 3:** The tube fitting maximum allowable working pressure shown is the tube fitting maximum allowable working pressure at 100°F for fittings with tube end process connections. See **Note 6** for fittings supplied with MNPT of FNPT process connections. See **Note 7** for elevated temperature derating factors to be used when the temperature exceeds 100°F.

26000 LAKELAND BOULEVARD, EUCLID, OH, 44132, USA



PAGE 2 OF 4

#### SCOPE OF CRN REGISTRATION CONTINUED

**Note 4:** The tube fitting maximum allowable working pressure may be limited by the strength of the tube material that the fittings are installed on. The pressure ratings shown are for fittings installed on the following tube materials:

#### **ASME B31.3 Code**

- Stainless Steel pressure ratings based on Tylok calculated ASTM A213 and ASTM A269 Tube ratings using an ASME B31.3 allowable stress equal to 20,000 psig
- Carbon Steel pressure ratings based on Tylok calculated ASTM A179 Tube ratings using an ASME B31.3 allowable stress equal to 15,700 psig
- Brass pressure ratings based on Tylok calculated ASTM B75 Temper O Tube ratings using an ASME B31.3 allowable stress equal to 6000 psig

#### **ASME B31.1 Code**

- Stainless Steel pressure ratings based on Tylok calculated ASTM A213 Tube ratings using an ASME B31.1 allowable stress equal to 20,000 psig
- Carbon Steel pressure ratings based on Tylok calculated ASTM A179 Tube ratings using an ASME B31.1 allowable stress equal to 13,400 psig
- Brass pressure ratings based on Tylok calculated ASTM B75 Temper O Tube ratings using an ASME B31.1 allowable stress equal to 6000 psig

**Note 5:** The tube fitting maximum allowable working pressure may be limited by the thickness of the tube material that the fittings are installed on. The pressure ratings shown are for fittings installed on the following tube thickness:

Tube Size	Tube Thk.
	in.
2 (1/8")	0.035
3 (3/16")	0.049
4 (1/4")	0.065
5 (5/16")	0.065
6 (3/8")	0.065
8 (1/2")	0.083
10 (5/8")	0.095
12 (3/4")	0.109
14 (7/8")	0.109
16 (1")	0.120

## TYLOK INTERNATIONAL, INC.

26000 LAKELAND BOULEVARD, EUCLID, OH, 44132, USA



PAGE 3 OF 4

## **SCOPE OF CRN REGISTRATION CONTINUED**

**Note 6:** Tube fittings shall be limited to the following maximum allowable working pressures when the fitting is supplied with a MNPT or a FNPT process connection.

MNPT End Maximum Pressure - Temperature Ratings			
	Stainless Steel	Carbon Steel	Brass
Size	MAWP at	MAWP at	MAWP at
	100°F, psig	100°F, psig	100°F, psig
2 (1/8")	10100	10100	5000
4 (1/4")	8000	8000	4000
6 (3/8")	7800	7800	3900
8 (1/2")	7700	7700	3800
12 (3/4")	7300	7300	3600
16 (1")	5300	5300	2600

FNPT End Maximum Pressure - Temperature Ratings			
	Stainless Steel	Carbon Steel	Brass
Size	MAWP at	MAWP at	MAWP at
	100°F, psig	100°F, psig	100°F, psig
2 (1/8")	6500	6500	3200
4 (1/4")	6600	6600	3300
6 (3/8")	5300	5300	2600
8 (1/2")	4900	4900	2400
12 (3/4")	4600	4600	2300
16 (1")	4400	4400	2200

### TYLOK INTERNATIONAL, INC.

26000 LAKELAND BOULEVARD, EUCLID, OH, 44132, USA



PAGE 4 OF 4

#### **SCOPE OF CRN REGISTRATION CONTINUED**

**Note 7**: When used at elevated temperatures the following Pressure Derating Factors apply to the tube fittings. The Pressure Deratings Factor for the tube the fittings are installed on is depended on the tube material. It is the responsibility of the end user to determine the tube pressure-temperature ratings as this is depended on the tube material and tube thickness. Reference the Tylok catalog for guidance.

Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L

Stairtiess Steet: ASTW A479-316/3		
Temperature		
(°F)	Derating Factor	
100	1.000	
200	1.000	
300	1.000	
400	0.965	
500	0.895	
600	0.850	
650	0.830	
700	0.815	
750	0.805	
800	0.795	
850	0.785	
900	0.775	
950	0.770	
1000	0.765	

#### Example:

Part # SS-2-SMC-2 constructed from stainless steel has a pressure rating at 100°F equal to 10,100 psig. To determine the fitting pressure ratings at 500°F locate the Derating Factor for stainless steel from the charts. This factor is determined to be 0.895. Therefore, the pressure rating of Part # SS-2-SMC-2 at 500°F is equal to 10,100 x 0.895 = 9040 psig.

Brass: ASTM B16-C36000, ASTM B283-C37700

Temperature	
(°F)	Derating Factor
100	1.000
150	0.940
200	0.900
250	0.870
300	0.830
350	0.750
400	0.200

Steel: ASTM A105, ASTM A108 Grade 12L14, 1137, 1141, 1045

Temperature	
(°F)	Derating Factor
100	1.000
200	1.000
250	1.000

Note 8: When used under the ASME B31.1 code ASTM B283-C37700 is limited to 200°F maximum.

Note 9: See Attached ISO certificate for applicable manufacturing locations.



## QUALITY MANAGEMENT SYSTEM CERTIFICATE

This certifies that the quality system of

## Tylok International, Inc.

26000 Lakeland Boulevard, Euclid, OH 44132, USA

is registered by IAPMO SCB in recognition of a Quality Management System, which fulfills the requirements of

ISO 9001:2015

Scope of Registration

Design and manufacture fittings, valves, and other fluid system components related to tube, pipe, and hose for domestic and global partners.

Certificate No: 1117996

Certificate Decision/Re-Issue Date: 06/04/2024
Certificate Issue Date: 07/02/2024
Certificate Expiry: 07/01/2027
Site Structure: Multiple Sites

SHIRLEY DEWI, SR. VICE PRESIDENT OF MANAGEMENT SYSTEM REGISTRATION SERVICES

909.230.5526 | WWW.IAPMOSCB.ORG 5001 E. PHILADELPHIA ST, ONTARIO, CA 91761-2816







# QUALITY MANAGEMENT SYSTEM CERTIFICATE

Appendix to Certificate No: 1117996

Includes Facilities Located At (Multiple Sites):

## Central Function: Tylok International, Inc.

26000 Lakeland Boulevard, Euclid, OH 44132, USA

Scope of Registration: Company headquarters with management responsibility and authority for the Quality Management System, administration, strategic planning, strategic sourcing, continual improvement, communication processes, resource allocation, and training & development. Support activities at this location include quoting & ordering, customer & technical servicing, procuring, scheduling, designing, and product support engineering for Tylok products.

### Site #1: Tylok International, Inc.

26260 Lakeland Boulevard, Euclid, OH, 44132 USA

Scope of Registration: The primary activities at this location include component manufacturing of Tylok products.

### Site #2: Tylok International, Inc.

1055 East 260th Street, Euclid, OH, 44132 USA Scope of Registration: Storage of yard equipment.

#### Site #3: Tylok International, Inc.

1061 East 260th Street, Euclid, OH, 44132 USA

Scope of Registration: The primary activities at this location include receiving, assembling, stocking, and distributing Tylok products.

#### Site #4: Tylok International, Inc.

1071-1081 East 260th Street, Euclid, OH, 44132 USA

Scope of Registration: The primary activities at this location include component manufacturing of Tylok products.

Certificate Decision/Re-Issue Date: 06/04/2024
Certificate Issue Date: 07/02/2024
Certificate Expiry: 07/01/2027
Site Structure: Multiple Sites