



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
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Toll Free: 1.877.682.8772

www.tssa.org

June 9, 2025

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14625901
Your Reference No.: R-2020
Registered to: TYLOK INTERNATIONAL INC

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0A17086.5R1

Main Design No.: Tylok Instrumentation Pipe Fittings – See Scope of CRN Registration

Expiry Date: Jun 09, 2035

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Wendy Du
Engineer, BPV
Tel. : +1 416-734-3566
Email : wdu@tssa.org



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 DECLARATION Registration of Fittings

I, Luke DiFranco, Engineer

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Tylok International, Inc.

(Name of Manufacturer)

Located at 26000 Lakeland Boulevard, Euclid, OH, 44132, USA

(Plant Address)

216-261-7310

(Telephone No.)

216-261-7317

(Fax No.)

☒ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of
ASME B31.3, B31.1

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, SCB

The items covered by this declaration, for which I seek registration, are category A - PIPE FITTINGS type fittings. In support of this application, the following information and/or test data are attached as follows:

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

(drawings, calculations, test reports, etc.)

Declared before me at Euclid, OH in the State of Ohio
the 13th day of March 2025

Commissioner for Oaths:

Elizabeth Kirby
(Printed name)

Elizabeth Kirby
(Signature)



ELIZABETH KIRBY

Notary Public, State of Ohio

My Commission Expires

September 8, 2027

Luke DiFranco
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category _____.

CRN: _____

Registered by: _____

Dated: _____

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0A17086.5R1

Signed: W12

Date: June 9, 2025.

NOTE: This registration expires on: June 09, 2035

Renewal - Tylok Instrumentation Pipe Fittings - See
Scope of CRN Registration with MFG Locations

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

TYLOK INTERNATIONAL, INC.

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SCOPE OF CRN REGISTRATION

Product Description	Design Code	Available Material of Construction	Available Process Connections		Report Number
			Tylok Size	Pipe Thread (NPT)	
Instrumentation Pipe Fittings	ASME B31.1, ASME B31.3	Stainless Steel ASTM A479 -316/316L, ASTM A182 -F316/316L, Brass ASTM B16 -C36000, ASTM B283 -C37700 (Note 4) Steel ASTM A105, ASTM A108 Grade 12L14, 1137, 1141, 1045	1	1/16-27	R-2020 Rev. 0
			2	1/8-27	
			4	1/4-18	
			6	3/8-18	
			8	1/2-14	
			12	3/4-14	
			16	1-11-1/2	

PRESSURE-TEMPERATURE RATINGS (NOTE 3)

Material of Construction:		Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L	
Size	Part#	MAWP at 100°F (psig)	
2	SS-2-1CLN	10100	
4	SS-4-1CLN	8100	
6	SS-6-1CLN	7800	
8	SS-8-1CLN	7700	
12	SS-12-1CLN	7300	
16	SS-16-1CLN	5300	
2	SS-2-1FMA	6500	
4	SS-4-1FMA	6600	
6	SS-6-1FMA	5300	
8	SS-8-1FMA	4900	
12	SS-12-1FMA	4600	
16	SS-16-1FMA	4400	
2	SS-2-1FPC	6500	
4	SS-4-1FPC	6600	
6	SS-6-1FPC	5300	
8	SS-8-1FPC	4900	
12	SS-12-1FPC	4600	
16	SS-16-1FPC	4400	

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L
Size	Part#	MAWP at 100°F (psig)
2x1	SS-2-1FPRU-1	6500
4x2	SS-4-1FPRU-2	6600
6x2	SS-6-1FPRU-2	5300
6x4	SS-6-1FPRU-4	5300
8x4	SS-8-1FPRU-4	4900
8x6	SS-8-1FPRU-6	4900
12x4	SS-12-1FPRU-4	4600
12x8	SS-12-1FPRU-8	4600
16x12	SS-16-1FPRU-12	4400
16x12	SS-16-1FPRU-12	4400
2	SS-2-1FPU	6500
4	SS-4-1FPU	6600
6	SS-6-1FPU	5300
8	SS-8-1FPU	4900
12	SS-12-1FPU	4600
16	SS-16-1FPU	4400
2	SS-2-1HLN-X	10100
4	SS-4-1HLN-X	8100
6	SS-6-1HLN-X	7800
8	SS-8-1HLN-X	7700
12	SS-12-1HLN-X	7300
16	SS-16-1HLN-X	5300
1	SS-1-1HN	11000
2	SS-2-1HN	10100
4	SS-4-1HN	8100
6	SS-6-1HN	7800
8	SS-8-1HN	7700
12	SS-12-1HN	7300
16	SS-16-1HN	5300
2x1	SS-2-1HRN-1	11000
4x2	SS-4-1HRN-2	10100
6x2	SS-6-1HRN-2	10100
6x4	SS-6-1HRN-4	8100
8x2	SS-8-1HRN-2	10100
8x4	SS-8-1HRN-4	8100
8x6	SS-8-1HRN-6	7800
12x2	SS-12-1HRN-2	10100
12x4	SS-12-1HRN-4	8100

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L
Size	Part#	MAWP at 100°F (psig)
12x6	SS-12-1HRN-6	7800
12x8	SS-12-1HRN-6	7700
16x2	SS-16-1HRN-2	8100
16x4	SS-16-1HRN-4	8100
16x6	SS-16-1HRN-6	7800
16x8	SS-16-1HRN-8	7700
16x12	SS-16-1HRN-12	7300
2x1	SS-2-1RAFM-1	6500
4x1	SS-4-1RAFM-1	6600
4x2	SS-4-1RAFM-2	6600
6x2	SS-6-1RAFM-2	5300
6x4	SS-6-1RAFM-4	5300
8x2	SS-8-1RAFM-2	4900
8x4	SS-8-1RAFM-4	4900
8x6	SS-8-1RAFM-6	4900
12x4	SS-12-1RAFM-4	4600
12x6	SS-12-1RAFM-6	4600
12x8	SS-12-1RAFM-8	4600
16x4	SS-16-1RAFM-4	4400
16x6	SS-16-1RAFM-6	4400
16x8	SS-16-1RAFM-8	4400
16x12	SS-16-1RAFM-12	4400
2x1	SS-2-1-1RBMF-1	6500
4x2	SS-4-1-1RBMF-2	5500
6x2	SS-6-1-1RBMF-2	9900
6x4	SS-6-1-1RBMF-4	6600
8x2	SS-8-1-1RBMF-2	12700
8x4	SS-8-1-1RBMF-4	9300
8x6	SS-8-1-1RBMF-6	5300
12x4	SS-12-1-1RBMF-4	12100
12x6	SS-12-1-1RBMF-6	8700
12x8	SS-12-1-1RBMF-8	4900
16x4	SS-16-1-1RBMF-4	14900
16x6	SS-16-1-1RBMF-6	12200
16x8	SS-16-1-1RBMF-8	9400
16x12	SS-16-1-1RBMF-12	4600
2	SS-2-3FFF	6600
4	SS-4-3FFF	5900

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L
Size	Part#	MAWP at 100°F (psig)
6	SS-6-3FFF	4400
8	SS-8-3FFF	3000
12	SS-12-3FFF	3400
16	SS-16-3FFF	2500
2	SS-2-2FF-2	6600
4	SS-4-2FF-4	5900
6	SS-6-2FF-6	4400
8	SS-8-2FF-8	3000
12	SS-12-2FF-12	3400
16	SS-16-2FF-16	2500
2	SS-2-2FM-2	6600
4	SS-4-2FM-4	5900
6	SS-6-2FM-6	4400
8	SS-8-2FM-8	3000
12	SS-12-2FM-12	3400
16	SS-16-2FM-16	2500
2	SS-2-2FMR-2	6600
4	SS-4-2FMR-4	5900
6	SS-6-2FMR-6	4400
8	SS-8-2FMR-8	3000
12	SS-12-2FMR-12	3400
16	SS-16-2FMR-16	2500
2	SS-2-2MM-2	6600
4	SS-4-2MM-4	5900
6	SS-6-2MM-6	4400
8	SS-8-2MM-8	3000
12	SS-12-2MM-12	3400
16	SS-16-2MM-16	2500
2	SS-2-3FFM-2	6600
4	SS-4-3FFM-4	5900
6	SS-6-3FFM-6	4400
8	SS-8-3FFM-8	3000
12	SS-12-3FFM-12	3400
16	SS-16-3FFM-16	2500
2	SS-2-3FMF-2	6600
4	SS-4-3FMF-4	5900
6	SS-6-3FMF-6	4400
8	SS-8-3FMF-8	3000

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L
Size	Part#	MAWP at 100°F (psig)
12	SS-12-3FMF-12	3400
16	SS-16-3FMF-16	2500
2	SS-2-3MMM	6600
4	SS-4-3MMM	5900
6	SS-6-3MMM	4400
8	SS-8-3MMM	3000
12	SS-12-3MMM	3400
16	SS-16-3MMM	2500
4	SS-4-4FPCR	5900
8	SS-8-4FPCR	3000
1	SS-1-1MPP	11000
2	SS-2-1MPP	10100
4	SS-4-1MPP	8100
6	SS-6-1MPP	7800
8	SS-8-1MPP	7700
12	SS-12-1MPP	7300
16	SS-16-1MPP	5300

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Brass: ASTM B16-C36000, ASTM B283-C37700
Size	Part#	MAWP at 100°F (psig)
2	B-2-1CLN	5000
4	B-4-1CLN	4000
6	B-6-1CLN	3900
8	B-8-1CLN	3800
12	B-12-1CLN	3600
16	B-16-1CLN	2600
2	B-2-1FMA	3200
4	B-4-1FMA	3300
6	B-6-1FMA	2600
8	B-8-1FMA	2400
12	B-12-1FMA	2300
16	B-16-1FMA	2200
2	B-2-1FPC	3200
4	B-4-1FPC	3300
6	B-6-1FPC	2600
8	B-8-1FPC	2400
12	B-12-1FPC	2300
16	B-16-1FPC	2200
2x1	B-2-1FPRU-1	3200
4x2	B-4-1FPRU-2	3300
6x2	B-6-1FPRU-2	2600
6x4	B-6-1FPRU-4	2600
8x4	B-8-1FPRU-4	2400
8x6	B-8-1FPRU-6	2400
12x4	B-12-1FPRU-4	2300
12x8	B-12-1FPRU-8	2300
16x12	B-16-1FPRU-12	2200
16x12	B-16-1FPRU-12	2200
2	B-2-1FPU	3200
4	B-4-1FPU	3300
6	B-6-1FPU	2600
8	B-8-1FPU	2400
12	B-12-1FPU	2300
16	B-16-1FPU	2200
2	B-2-1HLN-X	5000
4	B-4-1HLN-X	4000
6	B-6-1HLN-X	3900
8	B-8-1HLN-X	3800

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Brass: ASTM B16-C36000, ASTM B283-C37700
Size	Part#	MAWP at 100°F (psig)
12	B-12-1HLN-X	3600
16	B-16-1HLN-X	2600
1	B-1-1HN	5500
2	B-2-1HN	5000
4	B-4-1HN	4000
6	N-6-1HN	3900
8	B-8-1HN	3800
12	B-12-1HN	3600
16	B-16-1HN	2600
2x1	B-2-1HRN-1	5500
4x2	B-4-1HRN-2	5000
6x2	B-6-1HRN-2	5000
6x4	B-6-1HRN-4	4000
8x2	B-8-1HRN-2	5000
8x4	B-8-1HRN-4	4000
8x6	B-8-1HRN-6	3900
12x2	B-12-1HRN-2	5000
12x4	B-12-1HRN-4	4000
12x6	B-12-1HRN-6	3900
12x8	B-12-1HRN-6	3900
16x2	B-16-1HRN-2	4000
16x4	B-16-1HRN-4	4000
16x6	B-16-1HRN-6	3900
16x8	B-16-1HRN-8	3800
16x12	B-16-1HRN-12	3600
2x1	B-2-1RAFM-1	3200
4x1	B-4-1RAFM-1	3300
4x2	B-4-1RAFM-2	3300
6x2	B-6-1RAFM-2	2600
6x4	B-6-1RAFM-4	2600
8x2	B-8-1RAFM-2	2400
8x4	B-8-1RAFM-4	2400
8x6	B-8-1RAFM-6	2400
12x4	B-12-1RAFM-4	2300
12x6	B-12-1RAFM-6	2300
12x8	B-12-1RAFM-8	2300
16x4	B-16-1RAFM-4	2200
16x6	B-16-1RAFM-6	2200

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Material of Construction:		Brass: ASTM B16-C36000, ASTM B283-C37700
Size	Part#	MAWP at 100°F (psig)
16x8	B-16-1RAFM-8	2200
16x12	B-16-1RAFM-12	2200
2x1	B-2-1-1RBMF-1	3300
4x2	B-4-1-1RBMF-2	3200
6x2	B-6-1-1RBMF-2	4900
6x4	B-6-1-1RBMF-4	2900
8x2	B-8-1-1RBMF-2	6300
8x4	B-8-1-1RBMF-4	4600
8x6	B-8-1-1RBMF-6	2600
12x4	B-12-1-1RBMF-4	6000
12x6	B-12-1-1RBMF-6	4300
12x8	B-12-1-1RBMF-8	2400
16x4	B-16-1-1RBMF-4	7400
16x6	B-16-1-1RBMF-6	6100
16x8	B-16-1-1RBMF-8	4700
16x12	B-16-1-1RBMF-12	2300
2	B-2-3FFF	3900
4	B-4-3FFF	3500
6	B-6-3FFF	2600
8	B-8-3FFF	1800
12	B-12-3FFF	2000
16	B-16-3FFF	1500
2	B-2-2FF-2	3900
4	B-4-2FF-4	3500
6	B-6-2FF-6	2600
8	B-8-2FF-8	1800
12	B-12-2FF-12	2000
16	B-16-2FF-16	1500
2	B-2-2FM-2	3900
4	B-4-2FM-4	3500
6	B-6-2FM-6	2600
8	B-8-2FM-8	1800
12	B-12-2FM-12	2000
16	B-16-2FM-16	1500
2	B-2-2FMR-2	3900
4	B-4-2FMR-4	3500
6	B-6-2FMR-6	2600
8	B-8-2FMR-8	1800

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Brass: ASTM B16-C36000, ASTM B283-C37700
Size	Part#	MAWP at 100°F (psig)
12	B-12-2FMR-12	2000
16	B-16-2FMR-16	1500
2	B-2-2MM-2	3900
4	B-4-2MM-4	3500
6	B-6-2MM-6	2600
8	B-8-2MM-8	1800
12	B-12-2MM-12	2000
16	B-16-2MM-16	1500
2	B-2-3FFM-2	3900
4	B-4-3FFM-4	3500
6	B-6-3FFM-6	2600
8	B-8-3FFM-8	1800
12	B-12-3FFM-12	2000
16	B-16-3FFM-16	1500
2	B-2-3FMF-2	3900
4	B-4-3FMF-4	3500
6	B-6-3FMF-6	2600
8	B-8-3FMF-8	1800
12	B-12-3FMF-12	2000
16	B-16-3FMF-16	1500
2	B-2-3MMM	3900
4	B-4-3MMM	3500
6	B-6-3MMM	2600
8	B-8-3MMM	1800
12	B-12-3MMM	2000
16	B-16-3MMM	1500
4	B-4-4FPCR	3500
8	B-8-4FPCR	1800
1	B-1-1MPP	5500
2	B-2-1MPP	5000
4	B-4-1MPP	4000
6	B-6-1MPP	3900
8	B-8-1MPP	3800
12	B-12-1MPP	3600
16	B-16-1MPP	2600

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Steel: ASTM A105, ASTM A108 Grade 12L14, 1137, 1141, 1045
Size	Part#	MAWP at 100°F (psig)
2	S-2-1CLN	10100
4	S-4-1CLN	8100
6	S-6-1CLN	7800
8	S-8-1CLN	7700
12	S-12-1CLN	7300
16	S-16-1CLN	5300
2	S-2-1FMA	6500
4	S-4-1FMA	6600
6	S-6-1FMA	5300
8	S-8-1FMA	4900
12	S-12-1FMA	4600
16	S-16-1FMA	4400
2	S-2-1FPC	6500
4	S-4-1FPC	6600
6	S-6-1FPC	5300
8	S-8-1FPC	4900
12	S-12-1FPC	4600
16	S-16-1FPC	4400
2x1	S-2-1FPRU-1	6500
4x2	S-4-1FPRU-2	6600
6x2	S-6-1FPRU-2	5300
6x4	S-6-1FPRU-4	5300
8x4	S-8-1FPRU-4	4900
8x6	S-8-1FPRU-6	4900
12x4	S-12-1FPRU-4	4600
12x8	S-12-1FPRU-8	4600
16x12	S-16-1FPRU-12	4400
16x12	S-16-1FPRU-12	4400
2	S-2-1FPU	6500
4	S-4-1FPU	6600
6	S-6-1FPU	5300
8	S-8-1FPU	4900
12	S-12-1FPU	4600
16	S-16-1FPU	4400
2	S-2-1HLN-X	10100
4	S-4-1HLN-X	8100
6	S-6-1HLN-X	7800
8	S-8-1HLN-X	7700

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TYLOK INTERNATIONAL, INC.

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 44132-2877, USA



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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Steel: ASTM A105, ASTM A108 Grade 12L14, 1137, 1141, 1045
Size	Part#	MAWP at 100°F (psig)
12	S-12-1HLN-X	7300
16	S-16-1HLN-X	5300
1	S-1-1HN	11000
2	S-2-1HN	10100
4	S-4-1HN	8100
6	S-6-1HN	7800
8	S-8-1HN	7700
12	S-12-1HN	7300
16	S-16-1HN	5300
2x1	S-2-1HRN-1	11000
4x2	S-4-1HRN-2	10100
6x2	S-6-1HRN-2	10100
6x4	S-6-1HRN-4	8100
8x2	S-8-1HRN-2	10100
8x4	S-8-1HRN-4	8100
8x6	S-8-1HRN-6	7800
12x2	S-12-1HRN-2	10100
12x4	S-12-1HRN-4	8100
12x6	S-12-1HRN-6	7800
12x8	S-12-1HRN-6	7700
16x2	S-16-1HRN-2	8100
16x4	S-16-1HRN-4	8100
16x6	S-16-1HRN-6	7800
16x8	S-16-1HRN-8	7700
16x12	S-16-1HRN-12	7300
2x1	S-2-1RAFM-1	6500
4x1	S-4-1RAFM-1	6600
4x2	S-4-1RAFM-2	6600
6x2	S-6-1RAFM-2	5300
6x4	S-6-1RAFM-4	5300
8x2	S-8-1RAFM-2	4900
8x4	S-8-1RAFM-4	4900
8x6	S-8-1RAFM-6	4900
12x4	S-12-1RAFM-4	4600
12x6	S-12-1RAFM-6	4600
12x8	S-12-1RAFM-8	4600
16x4	S-16-1RAFM-4	4400
16x6	S-16-1RAFM-6	4400

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Steel: ASTM A105, ASTM A108 Grade 12L14, 1137, 1141, 1045
Size	Part#	MAWP at 100°F (psig)
16x8	S-16-1RAFM-8	4400
16x12	S-16-1RAFM-12	4400
2x1	S-2-1-1RBMF-1	6500
4x2	S-4-1-1RBMF-2	5500
6x2	S-6-1-1RBMF-2	9900
6x4	S-6-1-1RBMF-4	6600
8x2	S-8-1-1RBMF-2	12700
8x4	S-8-1-1RBMF-4	9300
8x6	S-8-1-1RBMF-6	5300
12x4	S-12-1-1RBMF-4	12100
12x6	S-12-1-1RBMF-6	8700
12x8	S-12-1-1RBMF-8	4900
16x4	S-16-1-1RBMF-4	14900
16x6	S-16-1-1RBMF-6	12200
16x8	S-16-1-1RBMF-8	9400
16x12	S-16-1-1RBMF-12	4600
2	S-2-3FFF	6600
4	S-4-3FFF	5900
6	S-6-3FFF	4400
8	S-8-3FFF	3000
12	S-12-3FFF	3400
16	S-16-3FFF	2500
2	S-2-2FF-2	6600
4	S-4-2FF-4	5900
6	S-6-2FF-6	4400
8	S-8-2FF-8	3000
12	S-12-2FF-12	3400
16	S-16-2FF-16	2500
2	S-2-2FM-2	6600
4	S-4-2FM-4	5900
6	S-6-2FM-6	4400
8	S-8-2FM-8	3000
12	S-12-2FM-12	3400
16	S-16-2FM-16	2500
2	S-2-2FMR-2	6600
4	S-4-2FMR-4	5900
6	S-6-2FMR-6	4400
8	S-8-2FMR-8	3000

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PRESSURE-TEMPERATURE RATINGS CONTINUED (NOTE 3)

Material of Construction:		Steel: ASTM A105, ASTM A108 Grade 12L14, 1137, 1141, 1045
Size	Part#	MAWP at 100°F (psig)
12	S-12-2FMR-12	3400
16	S-16-2FMR-16	2500
2	S-2-2MM-2	6600
4	S-4-2MM-4	5900
6	S-6-2MM-6	4400
8	S-8-2MM-8	3000
12	S-12-2MM-12	3400
16	S-16-2MM-16	2500
2	S-2-3FFM-2	6600
4	S-4-3FFM-4	5900
6	S-6-3FFM-6	4400
8	S-8-3FFM-8	3000
12	S-12-3FFM-12	3400
16	S-16-3FFM-16	2500
2	S-2-3FMF-2	6600
4	S-4-3FMF-4	5900
6	S-6-3FMF-6	4400
8	S-8-3FMF-8	3000
12	S-12-3FMF-12	3400
16	S-16-3FMF-16	2500
2	S-2-3MMM	6600
4	S-4-3MMM	5900
6	S-6-3MMM	4400
8	S-8-3MMM	3000
12	S-12-3MMM	3400
16	S-16-3MMM	2500
4	S-4-4FPCR	5900
8	S-8-4FPCR	3000
1	S-1-1MPP	11000
2	S-2-1MPP	10100
4	S-4-1MPP	8100
6	S-6-1MPP	7800
8	S-8-1MPP	7700
12	S-12-1MPP	7300
16	S-16-1MPP	5300

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NOTES

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. Under the ASME B31.3 code the materials have the following MDMT values.

Stainless Steel: ASTM A479-316/316L, ASTM A182-F316/316L: MDMT = -425°F

Brass: ASTM B16-C36000 (Unlisted Material), ASTM B283-C37700 = -325°F

Steel: ASTM A105, ASTM A108 Grade 12L14, 1137, 1141 (Unlisted Material): MDMT = -20°F

Note 3: When used at elevated temperatures the following pressure Derating Factors apply.

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

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 # 1-1HN constructed from stainless steel has a pressure rating at 100°F equal to 11,000 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 # 1-1HN at 500°F is equal to 11,000 x 0.895 = 9845 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

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NOTES CONTINUED

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

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

Note 4: When used under the ASME B31.1 code ASTM B283-C37700 is limited to 200°F maximum.

Note 5: See Attached ISO certificate for applicable manufacturing locations.

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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

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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

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