

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

REGISTRATION OF A PRESSURE FITTING DESIGN

December 11, 2024

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

Attention: Cecylia Garbacz File Number: 101934

Re: Manufacturer: Swagelok

Item: Hose Assemblies

Catalog or Drawing: Per Swagelok Attachments A & B (June 4, 2024)

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:

0D22889.53 Expiry Date: 2030-12-16

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:

Revision to existing CRN. Conditional upon compliance with the notes on the TSSA registration.

A valid quality control program must be maintained at the production facilities for the fitting registration to remain valid until the expiry date.

See Attachment A for list of manufacturing locations and Attachment B for Scope of Registration.



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

Swagelok

STATUTORY DECLAR	RATION				
Registration of Fitting	s				
James Nordholt, Vice President of Engineering					
(Name and Position, e.g. President, Plant Manager, Chief	Engineer)	_			
of Swagelok Company					
(Name of Manufacturer)					
Located at 29500 Solon Road, Solon, Ohio 44139	(440) 248-4600	(440)349-5970			
(Plant Address)	(Telephone No.)	(Fax No.)			
do solemnly declare that the fittings listed hereunder, which are subject to the and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufactureres (ARPM) Hose Handbook	Technical Standards	s and Safety Act, Boilers			
(Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature rating	gs, identification marking	g the fittings and service;			
or are not covered by the provisions of a recognized North American standard as supported by the attached data which pressure/temperature ratings and the basis for such ratings, the marking of the f	identifies the dimensior	ns, material of construction,			
I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of					
ISO 9001: 2015 Certifictate, Attachment A, Attachment B, Catalog Information and	otner Support Docur	nents			
(drawings, calculations, test reports, etc.)					
Declared before me atSOLON in theSTA	<u>TE</u> (of OHIO			
the 31 St day of MAY AD 20 24.	JEFFREY C. TI Notary Po State of C Recorded in Lai	ubilc Dhio ke County			
Commissioner for Oaths: TEFFREY C TRUMBULL Gertificate # 2020-RE-813693 My Commission Expires April 15, 2025					
(Printed name) (Printed name) (Male ##					
(Signature)	(Signature of De	eclarer)			
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	Tec	fety Authority			
CSA Standard B51 and is accepted for registration in Category		Saskatchewan [*] 22889.53			
		01934			
CRN:	Reg	gistered			
Registered by:	Date: Decem	ber 11, 2024			
negistored by.	Expiry Date.	ber 16, 2030			
Dated:	Codes & Standard	ds Compliance Office			
NOTE: This registration expires on:					

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



Technical Safety Authority of Saskatchevvan			
Registration No0D22889.53			
File No	101934		
	Registered		
Date:	December 11, 2024		
Expiry Date:	December 16, 2030		
Codes & Standards Compliance Office			

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Attachment B: Scope of Registration for Swagelok Nylon Series (7N, 7R, 8N & 8R) and Polyethylene Series (7P) Hose Assemblies (Category D)

This document represents the scope of Swagelok Nylon Series (7N, 7R, 8N, 8R) and Polyethylene Series (7P) Hose Assemblies covered by this submission for CRN approval. These products have been evaluated in accordance with the Association for Rubber Products Manufacturers (ARPM) Hose Handbook.

Summary Table

Product	Pressure retaining Material	End Connections and Sizes	Nominal	Maximum Pressure at Temperature (psig)		Design Code
Description or Series			Hose Size (in.)	At -40 to 70°F Temp.	At Maximum Temp. (200°F)	of Construction
	Smooth Bore Core SAE nonconductive nylon (7N)	Swagelok Tube Fitting [SL SM] 1/4" – 1/2" (6-12mm) Swagelok Tube Adapter [TA TM] 1/4" – 1/2" (6-	1/4	2750	1750	
7N Nylon Hose	Core Covered By Synthetic fiber reinforcement	12mm) Female 37° JIC with female swivel nut [AN, AS] 1/4" – 1/2"	3/8	2250	1750	
	Hose Cover Polyurethane cover End Connections 316 SS	Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1/2" Male NPT Tapered Pipe Fitting [PM] 1/4" – 1/2"	1/2	2000	1500	
	Smooth Bore Core	Swagelok Tube Fitting [SL SM] 1/4" – 1/2" (6-12mm) Swagelok Tube Adapter	1/4	1750	2000	Association n
7R Nylon Hose	Nylon (7R) Core Covered By Synthetic fiber reinforcement	[TA TM] 1/4" – 1/2" (6- 12mm) Female 37° JIC with female swivel nut [AN, AS] 1/4" – 1/2"	3/8	2250	1750	Products Manufacturers (ARPM) Hose Handbook
поѕе	Hose Cover Polyurethane cover End Connections 316 SS	Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1/2" Male NPT Tapered Pipe Fitting [PM] 1/4" – 1/2"	1/2	2000	1500	
	Smooth Bore Core Nylon Blend Thermoplastic	Swagelok Tube Fitting [SL SM] 1/4" – 1" (6-25mm)	1/4	5000	3250	
8R Nylon Hose	Core Covered By Synthetic fiber	Swagelok Tube Adapter [TA TM] 1/4" – 1" (6-	3/8	4000	3250	
	reinforcement	25mm)	1/2	3500	2750	



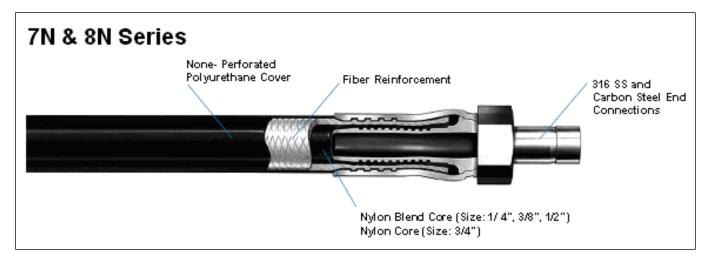
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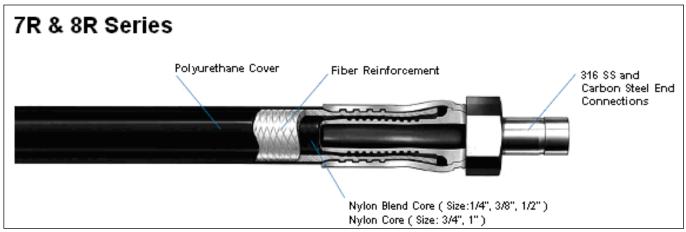
Hose Cover Polyurethane cover	Female 37° JIC with female swivel nut [AN, AS]	3/4	2250	1500	
End Connections 316 SS	1/4" – 1" Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1" Male NPT Tapered Pipe Fitting [PM] 1/4" – 1"	1	2000	1125	

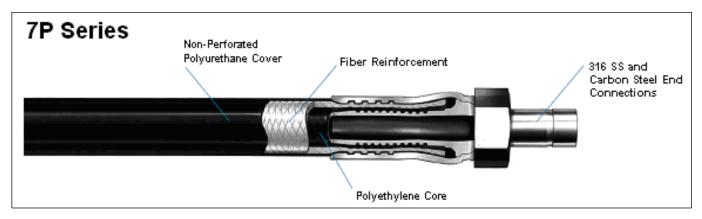
Product	Pressure retaining Material	End Connections and Sizes	Nominal Hose Size (in.)	Maximum Pressure at Temperature (psig)		Design Code	
Description or Series				Up to 70°F Temp.	At Maximum Temp.	of Construction	
	Smooth Bore Core SAE nonconductive	Swagelok Tube Fitting [SL] 3/4"					
	nylon	Swagelok Tube Adapter [TA] 3/4"					
8N Nylon Hose	Core Covered By Synthetic fiber reinforcement	Female 37° JIC with female swivel nut [AS] 3/4"	3/4 -40°F to	2250 @ -40°F to	F to 1/50 @		
11000	Hose Cover Polyurethane cover	Male ISO/BSP Tapered (ISO 7) Pipe Threads		70°F	70°F -55°	200 .	
<u>Er</u>	End Connections 316 SS	[MT] 3/4" Male NPT Tapered Pipe					
		Fitting [PM] 3/4"				Association	
	Smooth Bore Core	Swagelok Tube Fitting [SL SM] 1/4"-1"" (6-25mm)	1/4	2750 @ -10°F to 70°F	1500 @ 150°F	for Rubber Products Manufacturers (ARPM) Hose	
7P Polyethylene Hose Core Covered By Synthetic fiber reinforcement Hose Cover Polyurethane cover End Connections 316 SS	Swagelok Tube Adapter [TA TM] 1/4" – 1" (6-25mm)	3/8	2250 @ -10°F to 70°F	2250 @ 150°F	Handbook		
	reinforcement	Female 37° JIC with female swivel nut [AS] 1/4" – 1"	1/2	2000 @ -10°F to 70°F	1750 @ 150°F		
	Polyurethane cover	Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1"	3/4	1250 @ -10°F to 70°F	900 @ 150°F		
		Male NPT Tapered Pipe Fitting [PM] 1/4" – 1"	1	1500 @ -10°F to 70°F	1200 @ 150°F		



Product Description









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Product Options:

Additional options and non-pressure boundary alterations that do not affect pressure ratings are within the scope of this approval. Examples of these options include but are not limited to:

- Spring guards (such as S Full length spring guard and S2 Short length spring guard)
- Sleeves (such as F Fire jacket sleeve with metallic tie lock bands; F1 Thermo sleeve with metallic tie lock bands)
- Tags and special markings
- Pipe Thread Sealants
- Special Testing

Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The 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.

• Hose Assemblies, Bulk Hose, and End Connections Product Catalog MS-01-180, Rev. U.

Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

activities take place.			
	Technical Safety Authority of Saskatchevvan		
	Registration No		
Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA Registered December 11, 2024 Expiry Date: December 16, 2030 Codes & Standards Compliance Office		
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA		
Swagelok Precision Machining Services 1924 East 337th Street Eastlake, OH 44095 USA	Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China		
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119		
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139		
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Hose Services Company (SHSC) 29900 Solon Industrial Parkway Solon, Ohio 44139		
Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man		
Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Valley City) 5370 Wegman Drive Valley City, Ohio 44280 USA		

Note: Hose assembly of end connections at Swagelok Authorized Sales and Services Centers is under scope of this CRN.