

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



do solemnly declare that the fittings listed hereunder, which are subject to the Te and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufacturers (ARPM) Hose Handbook (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings or are not covered by the provisions of a recognized North American standard at as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting the redeclare that the manufacture of these fittings is controlled by a quality system metabolish which has been verified by the following authority. BSI Items covered by this declaration, for which I seek registration, are category D. Hose popication, the following information and/or test data are attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other (drawings, calculations, test reports, etc.) ared before me at	i, identification marking and are therefore ma entifies the dimension ing for identification eeting the requirema	and the fittings and service; anufactured to comply without, material of construction and service. ents of ISO 9001:2015 type fittings. In support of ments
(Name of Manufacturer) ated at 29500 Solon Road, Solon, Ohio 44139 USA (Plant Address) (do solemnly declare that the fittings listed hereunder, which are subject to the Te and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufacturers (ARPM) Hose Handbook (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings or are not covered by the provisions of a recognized North American standard as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting received by the following authority, BSI tems covered by this declaration, for which I seek registration, are category D. Hose polication, the following information and/or test data are attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other (drawings, calculations, test reports, etc.) ared before me at	Telephone No.) echnical Standard is, identification markin and are therefore many entifies the dimension ing for identification eeting the requirement her Support Docum	(Fax No.) Its and Safety Act, Boiler Ing the fittings and service; In anufactured to comply with Instruction In and service. In type fittings. In support of In an anufactured to construction In an anufactured to construction In anufactured to construction In anufactured to comply with In anufacture
do solemnly declare that the fittings listed hereunder, which are subject to the Te and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufacturers (ARPM) Hose Handbook (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings or are not covered by the provisions of a recognized North American standard at as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting the redeclare that the manufacture of these fittings is controlled by a quality system metabolish in the declare that the manufacture of these fittings is controlled by a quality system metabolish mer declare that the manufacture of these fittings is controlled by a quality system metabolish has been verified by the following authority. BSI These popication, the following information and/or test data are attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other (drawings, calculations, test reports, etc.) ared before me at	Telephone No.) echnical Standard is, identification markin and are therefore many entifies the dimension ing for identification eeting the requirement her Support Docum	(Fax No.) Its and Safety Act, Boiler Ing the fittings and service; In anufactured to comply with Instruction In and service. In type fittings. In support of In an anufactured to construction In an anufactured to construction In anufactured to construction In anufactured to comply with In anufacture
do solemnly declare that the fittings listed hereunder, which are subject to the Te and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufacturers (ARPM) Hose Handbook (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings or are not covered by the provisions of a recognized North American standard at as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting recorded that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declare that the manufacture of these fittings is controlled by a quality system metallic mer declared by the fill of the fittings is controlled by a quality system metallic mer declared by the fill of the fitting is controlled by a quality system metal	echnical Standard is, identification marking and are therefore man entifies the dimension ing for identification eeting the requirement her Support Document	ng the fittings and service; anufactured to comply without, material of construction and service. Type fittings. In support of ments
and Pressure Vessels Regulation, comply with all of the requirements of Association for Rubber Products Manufacturers (ARPM) Hose Handbook (Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratings or are not covered by the provisions of a recognized North American standard at as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting of the fitting of the declare that the manufacture of these fittings is controlled by a quality system metal which has been verified by the following authority, BSI tems covered by this declaration, for which I seek registration, are category D. Hose popication, the following information and/or test data are attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other (drawings, calculations, test reports, etc.) ared before me at	identification marking are therefore man entifies the dimension ing for identification eeting the requiremental there.	and the fittings and service; anufactured to comply without, material of construction and service. ents of ISO 9001:2015 type fittings. In support of ments
which specifies the dimensions, materials of construction, pressure/temperature ratings or are not covered by the provisions of a recognized North American standard at as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings are declared by a quality system method which has been verified by the following authority, and be such that the manufacture of these fittings is controlled by a quality system method which has been verified by the following authority, are category and be seen to be provided by the following authority, and be such that the manufacture of these fittings is controlled by a quality system method by the following authority, and be such that the marking of the fitting pressure/temperature attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other followings, calculations, test reports, etc.) ared before me at	and are therefore ma entifies the dimension ing for identification eeting the requirement her Support Docum	anufactured to comply witons, material of construction and service. ents of ISO 9001:2015 type fittings. In support of ments
or are not covered by the provisions of a recognized North American standard an as supported by the attached data which ide pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature ratings and the basis for such ratings, the marking of the fitting pressure/temperature or a support of the fitting pressure for the fitting pressure for such as follows: Do the fitting pressure for the fitting pressure for the fitting pressure for such as follows:	and are therefore ma entifies the dimension ing for identification eeting the requirement her Support Docum	anufactured to comply witons, material of construction and service. ents of ISO 9001:2015 type fittings. In support of ments
ppication, the following information and/or test data are attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other control of the second control of the		nents
ppication, the following information and/or test data are attached as follows: 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other control of the second control of the		nents
9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and oth (drawings, calculations, test reports, etc.) ared before me at		3
ared before me at in the day of AD 20 missioner for Oaths: nable to get a notary signature or al due to COVID-19 situation		3
day of AD 20 missioner for Oaths: nable to get a notary signature or al due to COVID-19 situation	2000	of
missioner for Oaths: nable to get a notary signature or al due to COVID-19 situation	2000	of
missioner for Oaths: nable to get a notary signature or al due to COVID-19 situation	2000	.01
missioner for Oaths: nable to get a notary signature or al due to COVID-19 situation	cuSigned by	
nable to get a notary signature or al due to COVID-19 situation	cu Signed har	
nable to get a notary signature or al due to COVID-19 situation	cusioned by.	
al due to COVID-19 situation	111	7 /
	hal (11/-
		10/22/2020 10
October 2020	7CBBFFD3F14	4 <u>B7</u> ,
FOR OFFICE USE ONLY		
e best of my knowledge and belief, the application meets the requirements of the	Technical Standards	Boilers and
nical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and	and Safety	Pressure Vessels Safety Program
Standard B51 and is accepted for registration in Category	Authority	Juley 1 Togram
2000000	PEGIS	STERED
0D22889.5	KEGIS	STERED
This Document has been digitally signed	C.R.N.: 0D22889	9.5
stered by: TSSA The stamp size has been optimized for 11	Signed:	
x 17 documents	- Ne	
d: DECEMBER 16, 2020	Date: Decem	ber 16, 2020.



0D22889.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

THIS IS PART OF CRN

Canadian Registration Number Submittal
Category D Swagelok Nylon and Polyethylene Hose

September 21, 2020 Page 1 of 4

<u>Attachment B: Scope of Registration for Swagelok Nylon Series</u> (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 Hose Size (in.)	Maximum Pressure at Temperature (psig)		Design Code
Description or Series				At -40 to 70°F Temp.	At Maximum Temp. (200°F)	of Construction
7N Nylon Hose	Smooth Bore Core SAE nonconductive nylon (7N)	Female 37° JIC with female swivel nut [AN, AS] 1/4" – 1/2" Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1/2"	1/4	2750	1750	Association for Rubber Products Manufacturers (ARPM) Hose Handbook
	Synthetic fiber reinforcement Hose Cover		3/8	2250	1750	
	Polyurethane cover End Connections 316 SS		1/2	2000	1750	
7R Nylon Hose	Smooth Bore Core Nylon (7R) Core Covered By	Female 37° JIC with female swivel nut [AN, AS] 1/4" – 1/2" Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1/2"	1/4	1750	2000	
	Synthetic fiber reinforcement Hose Cover		3/8	2250	2000	
	Polyurethane cover End Connections 316 SS		1/2	2000	1500	
8R Nylon Hose	Nylon Blend Thermoplastic Core Covered By Synthetic fiber reinforcement M:	Nylon Blend SM] 1/4" – 1" (6-12mm)	1/4	5000	3250	
		Female 37° JIC with female swivel nut [AN, AS] 1/4" – 1" Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 1/4" – 1"	3/8	4000	3250	
			1/2	3500	2750	
			3/4	2250	1500	
	End Connections 316 SS	Male NPT Tapered Pipe Fitting [PM] 1/4" – 1"	1	2000	1125	



Canadian Registration Number Submittal Category D Swagelok Nylon and Polyethylene Hose

THIS IS PART OF CRN

0D22889.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

September 21, 2020 Page 2 of 4

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
8N Nylon Hose	Smooth Bore Core SAE nonconductive nylon Core Covered By Synthetic fiber reinforcement Hose Cover Polyurethane cover End Connections 316 SS	Swagelok Tube Fitting [SL] 3/4" Female 37° JIC with female swivel nut [AS] 3/4" Male ISO/BSP Tapered (ISO 7) Pipe Threads [MT] 3/4" Male NPT Tapered Pipe Fitting [PM] 3/4"	3/4	2250 @ -40°F to 70°F	1750 @ 200°F	Association
7P Polyethylene Hose	Smooth Bore Core	Female 37° JIC with female swivel nut [AS] 1/4" – 1" Male ISO/BSP Tapered (ISO 7) Pipe Threads	1/4	2750 @ -10°F to 70°F	1500 @ 150°F	for Rubber Products Manufacturers (ARPM) Hose Handbook
	Polyethylene Core Covered By		3/8	2250 @ -10°F to 70°F	2250 @ 150°F	
	Synthetic fiber reinforcement Hose Cover		1/2	2000 @ -10°F to 70°F	1750 @ 150°F	
	Polyurethane cover End Connections		3/4	1250 @ -10°F to 70°F	900 @ 150°F	
	316 SS		1	1500 @ -10°F to 70°F	1200 @ 150°F	



Canadian Registration Number Submittal
Category D Swagelok Nylon and Polyethylene Hose

THIS IS PART OF CRN 0D22889.5

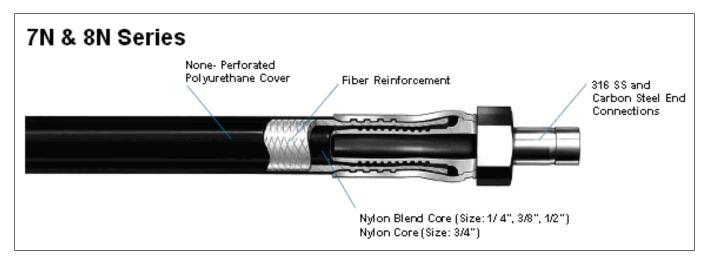
Technical Standards and Safety Authority

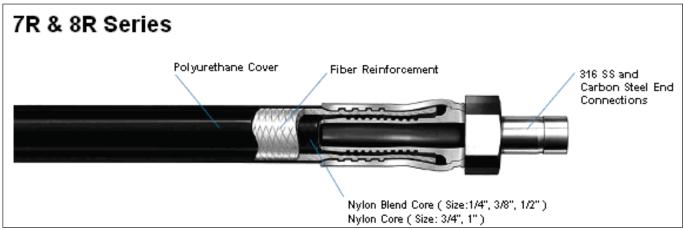
Boilers and Pressure Vessels Safety

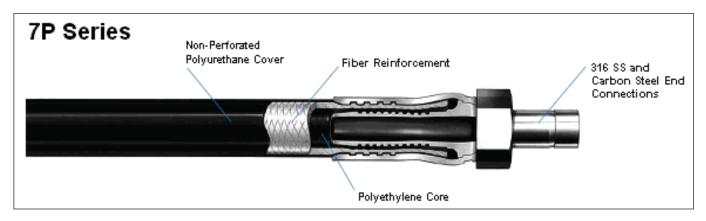
Program

September 21, 2020 Page 3 of 4

Product Description









Canadian Registration Number Submittal
Category D Swagelok Nylon and Polyethylene Hose

THIS IS PART OF CRN 0D22889.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

September 21, 2020 Page 4 of 4

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.

THIS IS PART OF CRN 0D22889.5

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety

Program

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. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China	Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man