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Email: boilerpermits@tsak.ca

Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TSK-1008

		13K-1000
I. Declaration Information		
Joel Feldman	,	In this space, show facsimile of manufacturer's logo or trademark as it will
Vice President, Engineering		appear on the fitting.
(company title, e.g. vice president, plant m (must be in a position of authority in the manufacturing		Suggestale
of: Swagelok Company	g plant where the litting is produced)	OMODEION
(name of manufa	cturer)	ALCOHOL STATE OF THE STATE OF T
located at: Headquarters: 29500 Solon Road	Solon, Ohio	44139 USA
(Plant Address – Apt/Street) do solemnly declare that the fittings listed hereir Vessel Safety Act (check one)	(City,Prov) nunder, which are subject to the Saska	(Postal Code) atchewan Boiler and Pressure
 Comply with the requirements of ASME 	B31.3 whic	h specifies the dimensions,
(title of	recognized North American Standard)	•
Materials of construction, pressure / temp	berature ratings and identification mark	ang of the hungs, of
Are not covered by the provisions of a re-		
to comply with		as supported by the attached
data which identifies the dimensions, mai	• • • • • • • • • • • • • • • • • • • •	erature ratings and the basis
for such ratings, and the marking of the fi		
further declare that the manufacturer of these		
verified by the following authority, BSI		g suitable for the manufacturer
of these fittings to the stated standard. The fittir D. Hose	igs covered by this declaration, for wh	ich i seek registration, are
Documents II. Declaration		
DECLARED before me at	In the	of
this day of	DocuSigned by:	
Unable to get a notary sig	nature or And Coll	2/10/2021 7:27 AM
(print name)	C8/CBBFFD3F1/B7	
seal due to COVID-19 situ	uation	
(Signature of Commissioner of Oaths)		
III. Office Use Only		
To the best of my knowledge and belief, the applicati	on meets the requirements of the Boiler a	nd Pressure Vessel Safety Act and
CSA B51, Clause 4.2, and is accepted for registration		
Technical	_	
Safety Authority of Saskatchewan	(Date Registered – MM DD YYYY) (For the Administrator / Chief Inspector)	(Expiry Date – MM DD YYYY)
Registration No. OD20616.53	(i of the Administration / Office inspection)	
File No. 12134		
Registered Date: August 5, 2021		TSK-100
Expry Date: August 15, 2028		Rev. 10/201
Codes & Standards Compliance Office		Page 1 of



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Registration No.	OD20616.53	1000
File No.	12134	
	Registered	
Date:	August 5, 2021	
Expry Dele	August 15, 2028	
Doore	A Standards Compliance Office	

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Attachment B: Scope of Registration for Swagelok FJ Series Hose Assemblies (Category D)

Product Scope

The table below represents the scope of Swagelok FJ series hose assemblies covered by this submission for CRN approval. These hose assemblies are assembled by Hose Master LLC and at the Swagelok Company locations in Solon, Ohio and have been evaluated in accordance with ASME B31.3 and ISO 10380. The referenced product catalog(s) do not represent the full scope of the submission but rather detail some of the most common options.

Summary Table

Product Series	Pressure Retaining	Port Connections	Port Connection	Maximum Work (psig	_	Design Code of	
and Size (in)	Material (Standard)	T OIL COMMODITIONS	Sizes	At Min Temp (-325°F to 100°F)	At Max Temp (800°F)	Construction	
		Swagelok Tube Fitting [TA TM SL SM]	1/8" - 1/2" 3mm - 12mm	1600	1184		
		Female and Male VCR Metal Gasket Face seal Fitting [RF RM]	1/8" - 1/2"	1600	1184		
	<u>Core</u> 316/316L SS (ASTM A240)	Male High Flow VCR Metal Gasket Face seal Fitting [HRM]	1/4"	1600	1184		
	Weld Collar 304/304L SS	Female and Male VCO O-ring Face seal Fitting [VF VM]	1/8" - 1/2"	1600 (1)	1336 @550°F (1)		
FJ Series Metal Hose-		Weld Collar	Female 37° JIC and male 37° JIC with female swivel nut [AN AS]	1/8" - 1/2"	1600	1184	ASME B31.3
1/4"		Female and male NPT Tapered Pipe Fitting [PM PF]	1/8" - 1/2"	1600 (2)	1432 @450°F (2)	ISO 10380	
			,	Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	1/8" - 1/2"	1600 (2)	1432 @450°F (2)
	Connections 316/316L SS (ASTM A479)	Tube Butt Welds [TB MTB]	1/8" - 1/2" 6mm - 12mm	1600	1184		
		Female ISO/BSP Parallel Threads (ISO 228) [FS]	1/4" - 1/2"	1600	1488 @400°F (1)		
		Male UN/UNF (SAE J1926) Stud End [ST]	1/8" - 1/2"	1600 (1)	1488 @400°F (1)		

- (1) Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.
- (2) Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



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Product Series	Pressure Retaining	Port Connections	Port Connection	Maximum Worki (psig		Design Code of	
and Size (in)	Material (Standard)		Sizes	At Min Temp (-325°F to 100°F)	At Max Temp (800°F)	Construction	
		Swagelok Tube Fitting [TA TM SL SM]	1/4" - 3/4" 6mm - 18mm	1470	1088		
	<u>Core</u>	Female and Male VCR Metal Gasket Face seal Fitting [RF RM]	1/4" - 3/4"	1470	1088		
	316/316L SS (ASTM A240) Braid 304 SS or 316L SS (ASTM A478) Weld Collar 304/304L SS (ASTM A269) or 316/316L SS (ASTM A269) End Connections 316/316L SS (ASTM A279)	Female and Male VCO O-ring Face seal Fitting [VF VM]	1/4" - 3/4"	1470 (1)	1227 @550°F (1)		
F I Series		304 SS or 316L SS (ASTM A478) Weld Collar 304/304L SS	Female 37° JIC and male 37° JIC with female swivel nut [AN AS]	1/4" - 3/4"	1470	1088	
Metal Hose-			Female and male NPT Tapered Pipe Fitting [PM PF]	1/4" - 3/4"	1470 (2)	1315 @450°F (2)	ASME B31.3 ISO 10380
3/8"		Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	1/4" - 3/4"	1470 (2)	1315 @450°F (2)		
		Tube Butt Welds [TB MTB]	1/4" - 3/4" 6mm - 18mm	1470	1088		
		Female ISO/BSP Parallel Threads (ISO 228) [FS]	1/4" - 1/2"	1470	1367 @400°F (1)		
		Male UN/UNF (SAE J1926) Stud End [ST]	1/4" - 3/4"	1470 (1)	1367 @400°F (1)		

⁽¹⁾ Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.

⁽²⁾ Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



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Product Series	Pressure Retaining	Port Connections	Port Connection	Maximum Worki (psig	_	Design Code of
and Size (in)	Material (Standard)		Sizes	At Min Temp (-325°F to 100°F)	At Max Temp (800°F)	Construction
		Swagelok Tube Fitting [TA TM SL SM]	3/8" - 1" 10mm - 25mm	1110	821	
	<u>Core</u> 316/316L SS	Female and Male VCR Metal Gasket Face seal Fitting [RF RM]	3/8" - 1"	1110	821	
	(ASTM A240) Braid	Female and Male VCO O-ring Face seal Fitting [VF VM]	3/8" - 1"	1110 (1)	927 @550°F (1)	
FJ Series	etal Weld Collar 304/304L SS	Female 37° JIC and male 37° JIC with female swivel nut [AN AS]	3/8" - 1"	1110	821	
Metal Hose-		Female and male NPT Tapered Pipe Fitting [PM PF]	3/8" - 1"	1110 (2)	993 @450°F (2)	ASME B31.3 ISO 10380
1/2"		Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	3/8" - 1"	1110 (2)	993 @450°F (2)	
		Tube Butt Welds [TB MTB]	3/8" - 1" 10mm - 25mm	1110	821	
		Female ISO/BSP Parallel Threads (ISO 228) [FS]	3/8"-1/2"	1110	1032 @400°F (1)	
		Male UN/UNF (SAE J1926) Stud End [ST]	3/8" - 1"	1110 (1)	1032 @400°F (1)	

⁽¹⁾ Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.

⁽²⁾ Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



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Product Series	Pressure Retaining	Port Connections	Port Connection	Maximum Worki (psig	•	Design Code of
and Size (in)	Material (Standard)		Sizes	At Min Temp (-325°F to 100°F)	At Max Temp (800°F)	Construction
	Swagelok Tube Fitting [TA TM SL SM]	1/2" - 1 1/4" 12mm - 32mm	860	636		
	<u>Core</u> 316/316L SS	Female and Male VCR Metal Gasket Face seal Fitting [RF RM]	1/2" - 1"	860	636	
	## (ASTM A240) Braid 304 SS or 316L SS (ASTM A478) Weld Collar 304/304L SS (ASTM A269) or 316/316L SS (ASTM A269) End Connections 316/316L SS (ASTM A479)	Female and Male VCO O-ring Face seal Fitting [VF VM]	1/2" - 1"	860 (1)	718 @550°F (1)	
FJ Series		Female 37° JIC and male 37° JIC with female swivel nut [AN AS]	1/2" - 1"	860	636	
		Female and male NPT Tapered Pipe Fitting [PM PF]	1/2" - 1 1/4"	860 (2)	770 @450°F (2)	ASME B31.3 ISO 10380
3/4"		Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	1/2" - 1 1/4"	860 (2)	770 @450°F (2)	
		Tube Butt Welds [TB MTB]	1/2" - 1" 12mm - 25mm	860	636	
		Female ISO/BSP Parallel Threads (ISO 228) [FS]	1/2"	860	800 @400°F (1)	
		Male UN/UNF (SAE J1926) Stud End [ST]	1/2" - 1 1/4"	860 (1)	800 @400°F (1)	

⁽¹⁾ Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.

⁽²⁾ Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



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Product Series	Pressure Retaining	Port Connections	Port Connection	Maximum Work (psig	_	Design Code of
and Size (in)	Material (Standard)		Sizes	At Min Temp (- 325°F to 100°F)	At Max Temp (800°F)	Construction
	Core	Swagelok Tube Fitting [TA TM SL SM]	3/4" - 1 1/2" 18mm - 38mm	680	503	
	316/316L SS (ASTM A240) Braid 304 SS or 316L SS (ASTM A478) FJ Series Metal Hose- 1" Weld Collar 304/304L SS (ASTM A269) or 316/316L SS (ASTM A269) End Connections 316/316L SS	Female and Male VCR Metal Gasket Face seal Fitting [RF RM]	3/4" - 1"	680	503	
		Female and Male VCO O-ring Face seal Fitting [VF VM]	3/4" - 1"	680 (1)	568 @550°F (1)	
Metal		Female 37° JIC and male 37° JIC with female swivel nut [AN AS]	3/4" - 1"	680	503	ASME B31.3
		Female and male NPT Tapered Pipe Fitting [PM PF]	3/4" - 1 1/2"	680 (2)	608 @450°F (2)	ISO 10380
		Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	3/4" - 1 1/2"	680 (2)	608 @450°F (2)	
		Tube Butt Welds [TB MTB]	3/4" - 1" 18mm - 25mm	680	503	
	(ASTM A479)	Male UN/UNF (SAE J1926) Stud End [ST]	3/4" - 1 1/2"	680 (1)	632 @400°F (1)	

⁽¹⁾ Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.

⁽²⁾ Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



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Product Series	Pressure Retaining	Port Port Connections Connection		Maximum Worki (psig	•	Design Code of	
and Size (in)	Material (Standard)		Sizes	At Min Temp (-325°F to 100°F)	At Max Temp (800°F)	~ .	
		Swagelok Tube Fitting [TA TM SL SM]	1" - 2" 25mm - 50mm	680	503		
	<u>Core</u> 316/316L SS (ASTM A240)	Female and Male VCR Metal Gasket Face seal Fitting [RF RM]	1"	680	503		
	Braid 304 SS or 316L SS	Braid 304 SS or 316L SS (ASTM A478) Weld Collar 304/304L SS (ASTM A269) or 316/316L SS (ASTM A269)	Female and Male VCO O-ring Face seal Fitting [VF VM]	1"	680 (1)	568 @550°F (1)	
			Female 37° JIC and male 37° JIC with female swivel nut [AN AS]	1"	680	503	ASME B31.3
			Female and male NPT Tapered Pipe Fitting [PM PF]	1" - 2"	680 (2)	608 @450°F (2)	ISO 10380
			Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	1" - 2"	680 (2)	608 @450°F (2)	
		Tube Butt Welds [TB MTB]	1" 25mm	680	503		
		Male UN/UNF (SAE J1926) Stud End [ST]	1" - 2"	680 (1)	632 @400°F (1)		

⁽¹⁾ Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.

⁽²⁾ Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



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Product Series	Pressure Retaining	Port Connections	Port Connection	Maximum Work (psig	_	Design Code of
and Size (in)	Material (Standard)		Sizes	At Min Temp (-325°F to 100°F)	At Max Temp (800°F)	Construction
		Swagelok Tube Fitting [TA TM SL SM]	1 1/4" - 2" 32mm - 50mm	520	385	
FJ Series	<u>Core</u> 316/316L SS	Female and male NPT Tapered Pipe Fitting [PM PF]	1 1/4" – 2"	520 (2)	465 @450°F (2)	
Metal Hose- 1 1/2"	(ASTM A240) <u>Braid</u> 304 SS or 316L	Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	1 1/4" – 2"	520 (2)	465 @450°F (2)	
	SS (ASTM A478) Weld Collar	Male UN/UNF (SAE J1926) Stud End [ST]	1 1/4" – 2"	520 (1)	484 @400°F (1)	ASME B31.3
	304/304L SS (ASTM A269) or	Swagelok Tube Fitting [TA TM SL SM]	1 1/2" - 2" 38mm - 50mm	450	333	ISO 10380
FJ Series	316/316L SS (ASTM A269)	Female and male NPT Tapered Pipe Fitting [PM PF]	1 1/2" - 2"	450 (2)	403 @450°F (2)	
Metal Hose-	End Connections 316/316L SS (ASTM A479)	Female and male ISO/BSP Tapered (ISO 7) Pipe Threads [MT FT]	1 1/2" - 2"	450 (2)	403 @450°F (2)	
		Male UN/UNF (SAE J1926) Stud End [ST]	1 1/2" - 2"	450 (1)	419 @400°F (1)	

⁽¹⁾ Temperature and/or pressure ratings are determined by gasket or O-ring materials. Refer to Swagelok catalog MS-01-147 for ratings.

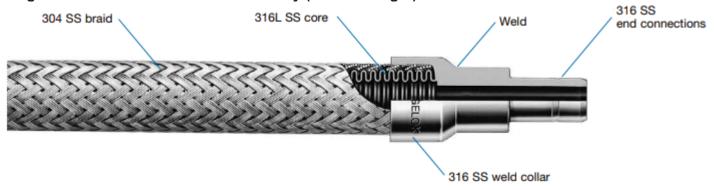
⁽²⁾ Temperature and/or pressure ratings are determined by pipe thread sealant type. Refer to Swagelok catalog MS-01-91 for ratings.



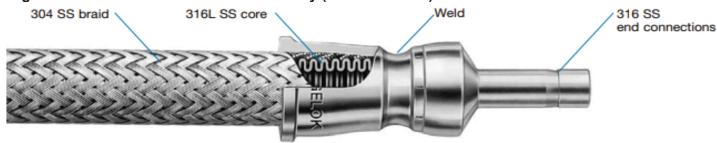
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Product Illustration

Swagelok FJ Series Manual Weld Assembly (1/4" and larger)



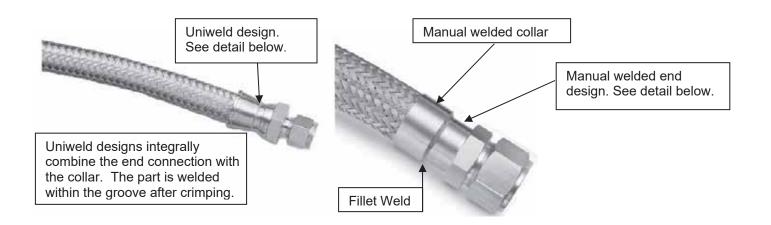
Swagelok FJ Series Automatic Weld Assembly (1/2" and under)



Configuration Example:

FJ hoses are available in two styles with many end types, end sizes, and possible overall lengths. There are two ways the hose end connections are attached to the tube and braid depending on the size of the hose:

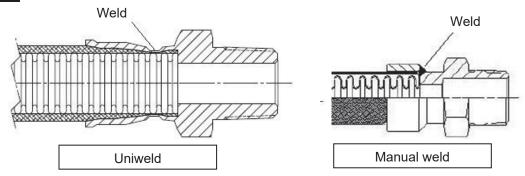
- Gas Tungsten Arc Weld (GTAW) Uniweld with Integral Weld Collar (1/2" and under)
- Manual Weld with Manual Weld Collar (1/4" and larger)





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Weld Detail:



Product Options:

Additional options that do not affect pressure and/or temperature ratings may be made available within the scope of this approval. Examples of these would include the following:

Braid Options

• 316L SS

Cover Options

- Armor guard Interlocking, flexible 302 stainless steel.
- Fire jacket Woven fiberglass coated with specially compounded aerospace-grade silicone rubber.
- Thermosleeve Braided fiberglass with saturated synthetic material coating.

Tag and Marking Options

- Mat tag Polyester tag with customer-specified text
- Lanyard tag Stainless steel tag with customer-specified text
- Clamp tag Stainless steel tag with customer-specified text

Additional options that may affect pressure and/or temperature ratings may be made available within the scope of this approval. Examples of these would include the following:

End Connection Seals or Sealant Options

- VCO O-rings
- VCR Gasket
- · Pipe Thread ends thread sealant

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. The Swagelok FJ series hose assemblies are manufactured at Hose Master LLC and at the Swagelok Company locations in Solon, Ohio.

References

The below 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

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

