

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: June 20, 2019
Account #: 35231
Journal #: 73548

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, CRN:0A21361.5, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0A21361.51

Drawing #: Catalog MS-01-138(Attach. A&B)

Drawing Revision: S

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on May 01, 2029. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void. Any additional conditions of registration stated in TSSA CRN# 0A21361.5 registration shall apply to BC registration.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

TOM NG, P.ENG.

Tom.Ng@technicalsaftybc.ca
Design Administration

cc:



Attachment B: Scope for Swagelok QC, QF, QM and QTM Series Quick-Connects (Category A)

This document represents the scope of the QC, QF, QM, and QTM Series Quick-Connects covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.



0A21361.5

Summary Table

Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure		Design Code of Construction
				At -50 to 100°F	At maximum temperature	
QC4	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/8", 1/4", 6MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/8", 1/4" Male ISO 1/4"	3000 psi	500 psi @ 400°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
QC6	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 3/8", 10MM Female NPT 1/4", 3/8" Female ISO 3/8" Male NPT 1/4", 3/8" Male ISO 3/8"	1500 psi	400 psi @ 400°F	
QC8	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/2", 12MM Female NPT 1/2" Female ISO 1/2" Male NPT 1/2" Male ISO 1/2"	750 psi	300 psi @ 400°F	
QC4	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 1/8", 1/4", 6MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/8", 1/4" Male ISO 1/4"	2000 psi	300 psi @ 250°F	
QC6	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 3/8", 10MM Female NPT 1/4", 3/8" Female ISO 1/4", 3/8" Male NPT 1/4", 3/8" Male ISO 1/4", 3/8"	1000 psi	300 psi @ 250°F	
QC8	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 1/2", 12MM Female NPT 1/2" Female ISO 1/2" Male NPT 1/2" Male NPT 1/2"	500 psi	300 psi @ 250°F	



Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Temperature		Design Code of Construction
				At -50 to 100°F	At maximum temperature	
QF4, QF8	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/4", 3/8", 1/2", 6MM Female NPT 1/4", Female ISO Tapered 1/4" Female ISO Parallel 1/4"	6000 psi	400 psi @ 400°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Female NPT 3/8"	5300 psi	400 psi @ 400°F	
			Female NPT 1/2" Female ISO Tapered 1/2" Female ISO Parallel 1/2"	4900 psi	400 psi @ 400°F	
QF12, QF16	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 3/4", 1" Female NPT 3/4", 1"	4000 psi	200 psi @ 400°F	
QF4	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 1/4"	3500 psi	300 psi @ 250°F	
			Swagelok Tube Fitting 6MM	3190 psi	300 psi @ 250°F	
			Swagelok Tube Fitting 3/8"	2200 psi	300 psi @ 250°F	
			Female NPT 1/4" Female ISO Tapered 1/4" Female ISO Parallel 1/4"	3300 psi	300 psi @ 250°F	
			Female NPT 3/8"	2400 psi	300 psi @ 250°F	
QF8	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 3/8"	2200 psi	300 psi @ 250°F	
			Swagelok Tube Fitting 1/2"	2100 psi	300 psi @ 250°F	
			Female NPT 3/8"	2600 psi	300 psi @ 250°F	
			Female NPT 1/2" Female ISO Tapered 1/2" Female ISO Parallel 1/2"	2400 psi	300 psi @ 250°F	
QF12, QF16	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 3/4"	1800 psi	200 psi @ 250°F	
			Swagelok Tube Fitting 1"	1500 psi	200 psi @ 250°F	
			Female NPT 3/4", 1"	2000 psi	200 psi @ 250°F	
QM2	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/16", 1/8" Female NPT 1/16", 1/8" Male NPT 1/16", 1/8"	4000 psi	200 psi @ 400°F	
QM2	Body	Brass C36000 (ASTM B16)	Swagelok Tube Fitting 1/16", 1/8" Female NPT 1/16", 1/8" Male NPT 1/16", 1/8"	2000 psi	200 psi @ 250°F	

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 OA 2/36/15
 Technical Standards & Safety Authority
 Pressure Vessels
 Safety Program

Product Description or Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Temperature		Design Code of Construction
				At -50 to 100°F	At maximum temperature	
QTM2	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/4", 3/8", 6MM, 8MM Male NPT 1/4", 3/8" Female NPT 1/8", 1/4", 3/8" Female ISO Tapered 1/4" Female ISO Parallel 1/8", 1/4"	4500 psi	4500 psi @ 120°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
QTM4, QTM8	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/4", 3/8", 1/2", 3/4", 1", 6MM, 10MM, 12MM Male NPT 1/4", 3/8", 1/2", 3/4", 1" Female ISO Tapered 1/4", 1/2" Female ISO Parallel 1/4", 1/2" JIC 37° flare 1/4", 1/2"	3200 psi	3200 psi @ 120°F	
QTM2	Body	Alloy 400 (ASTM B164)	Swagelok Tube Fitting 1/4", 3/8", 6MM, 8MM Male NPT 1/4", 3/8" Female NPT 1/8", 1/4", 3/8" Female ISO Tapered 1/4" Female ISO Parallel 1/8", 1/4"	3200 psi	3200 psi @ 120°F	

Product Illustration

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 CRN 0A 21361.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program



Product Options:

Some product options could affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. An example of this would be optional body seal materials.

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. An example of this would be optional lubricants.

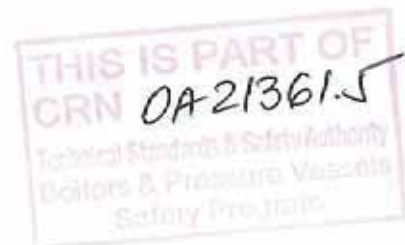
Quality System

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 registration, but rather details some of the most common options.

- QC, QF, QM, and QTM Series Quick-Connects Catalog MS-01-138, Rev S



Attachment A. Swagelok Manufacturing Locations

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

Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA	Swagelok Company (Falon 2) 358 Bishop Road Highland Heights, Ohio 44143 USA
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 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) 29900 Solon Industrial Parkway Solon, Ohio 44139	Swagelok Company (Strongsville) 15400 Foltz Road 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

