

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

**Date:** October 30, 2019  
**Account #:** 35231  
**Journal #:** 74501

**Attn:** TANYA FRANCIS

**Re: Application for Design Registration**

The design, as detailed in your, 0C20863.5, for a Fitting is accepted for registration as follows:

**Registered To:** TECHNICAL STANDARDS & SAFETY AUTHORITY, SWAGELOK COMPANY  
**CRN:** 0C20863.51

**Drawing #:** Scope of Registration

**Drawing Revision:** N/A

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 18-Nov-2028. 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# 0C20863.5 registration shall apply to BC registration.

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

Janina Mihailescu

janina.mihailescu@technicalsaftybc.ca  
Design Administration

**cc:**



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 DECLARATION Registration of Fittings

I, Joel Feldman, Vice President, 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 USA      (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 **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.1 for unlisted components where applicable, and ASME B31.3 for unlisted components where applicable  
(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, BSI

The items covered by this declaration, for which I seek registration, are category C. Valves type fittings. In support of this application, the following information and/or test data are attached as follows:  
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents  
(drawings, calculations, test reports, etc.)

Declared before me at Solon in the State of Ohio  
 the 09<sup>th</sup> day of August AD 20 18.

Commissioner for Oaths:  
Jamie L Ristau      Jamie L Ristau  
(Printed name)      Resident Portage County  
Jamie L Ristau      Notary Public, State of Ohio  
(Signature)      My Commission Expires: 03/08/2019

[Signature]  
(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 C.

CRN: OC20863.5  
 Registered by: [Signature]  
 Dated: Nov. 18, 2018

NOTE: This registration expires on: Nov-18, 2028

**Technical Standards and Safety Authority**      **Boilers and Pressure Vessels Safety Program**

REGISTERED

CRN: OC20863.5

Signed: [Signature]

Date: Nov. 18, 2018

Scope of registration: Attachment A and B



**Attachment B. Scope of Registration for Swagelok C and CA Series Check Valves (Category C)**

**Product Scope**

This document represents the scope of Swagelok® C and CA Series Check Valves covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

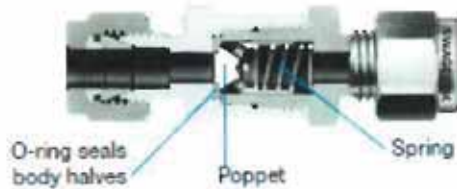
**Summary Table**

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Allowable Working Pressure (psig)		Design Code of Construction
				@100°F	@Max. Temp	
2C, 4C, 6C, 8C	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/8", 1/4", 3/8", 1/2", 6MM, 10MM, 12MM Female NPT 1/8", 1/4", 3/8", 1/2" Male NPT 1/8", 1/4", 3/8", 1/2" Male VCR Fitting 1/4", 1/2"	3000 psig	2185 psig @ 375°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
12C, 16C	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 3/4", 1" Female NPT 3/4", 1" Male NPT 3/4", 1" Male VCR Fitting 3/4", 1"	2000 psig	1450 psig @ 375°F	
2C, 4C, 6C, 8C	Body	C36000 Brass (ASTM B16)	Swagelok Tube Fitting 1/8", 1/4" Female NPT 1/8", 1/4" Male NPT 1/8", 1/4", 3/8", 1/2"	3000 psig	2405 psig @ 250°F	
			Swagelok Tube Fitting 6MM	3000 psig	2298 psig @ 250°F	
			Swagelok Tube Fitting 3/8"	2200 psig	1584 psig @ 250°F	
			Swagelok Tube Fitting 1/2"	2100 psig	1512 psig @ 250°F	
			Swagelok Tube Fitting 10MM	1886 psig	1358 psig @ 250°F	
			Swagelok Tube Fitting 12MM	2031 psig	1462 psig @ 250°F	
			Female NPT 3/8"	2600 psig	2405 psig @ 250°F	
12C, 16C	Body	C36000 Brass (ASTM B16)	Swagelok Tube Fitting 1"	1500 psig	1080 psig @ 250°F	
			Swagelok Tube Fitting 3/4" Female NPT 3/4", 1" Male NPT 3/4", 1"	1500 psig	1200 psig @ 250°F	
4CA	Body	316 SS (ASTM A479)	Swagelok Tube Fitting 1/4", 6MM, 8MM Male NPT 1/4" Male VCR Fitting 1/4",	3000 psig	2185 psig @ 375°F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
4CA	Body	C36000 Brass (ASTM B16)	Swagelok Tube Fitting 1/4" Male NPT 1/4",	3000 psig	2405 psig @ 250°F	
			Swagelok Tube Fitting 6MM	3000 psig	2298 psig @ 250°F	
			Swagelok Tube Fitting 8MM	2322 psig	1671 psig @ 250°F	

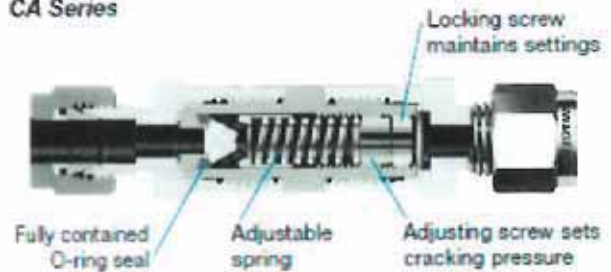
THIS IS PART OF  
 CRN 0C20863  
 Safety Authority  
 Pressure Vessels  
 Program

## Product Illustration

C Series



CA Series



## Typical Product Characteristics:

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include, but not be limited to, poppet springs, lubricants, and body seal materials.

## 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.

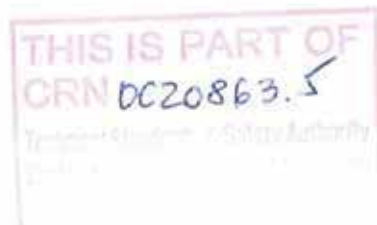
## Special Ordering Instructions

None

## References

The following product catalog does not represent the full scope of registration, but rather details some of the most common options.

- Check Valves MS-01-176, R11



## 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 Company A.G. (European Technology Center) St. GallerstraBe 84 Lachen, Switzerland 8853 Switzerland
Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man	

