



505 - 6th Street, Suite 200  
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE  
Fax: (778) 396 - 2064  
www.safetyauthority.ca

TECHNICAL STANDARDS & SAFETY AUTHORITY  
14TH FLOOR CENTRE TOWER-3300 BLOOR STREE  
TORONTO ON M8X 2X4

**Date:** September 1, 2015  
**Account #:** 35231  
**Journal #:** 63453  
**Our File #:** 5551995

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, Swagelok CRN 0C16922.5, for a Fitting is accepted for registration as follows:

**Registered To:** SWAGELOK COMPANY                      **CRN:** 0C16922.51

**Drawing #:** Cat: MS-02-303

**Conditions Of Registration:**

Registration of AFS Series Ball Valves as per Attachment A Scope of Registration (3 pages).

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 June 03, 2024. 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.

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

SHARON PETERS

boiler.designregistration@safetyauthority.ca  
Design Administration

cc:

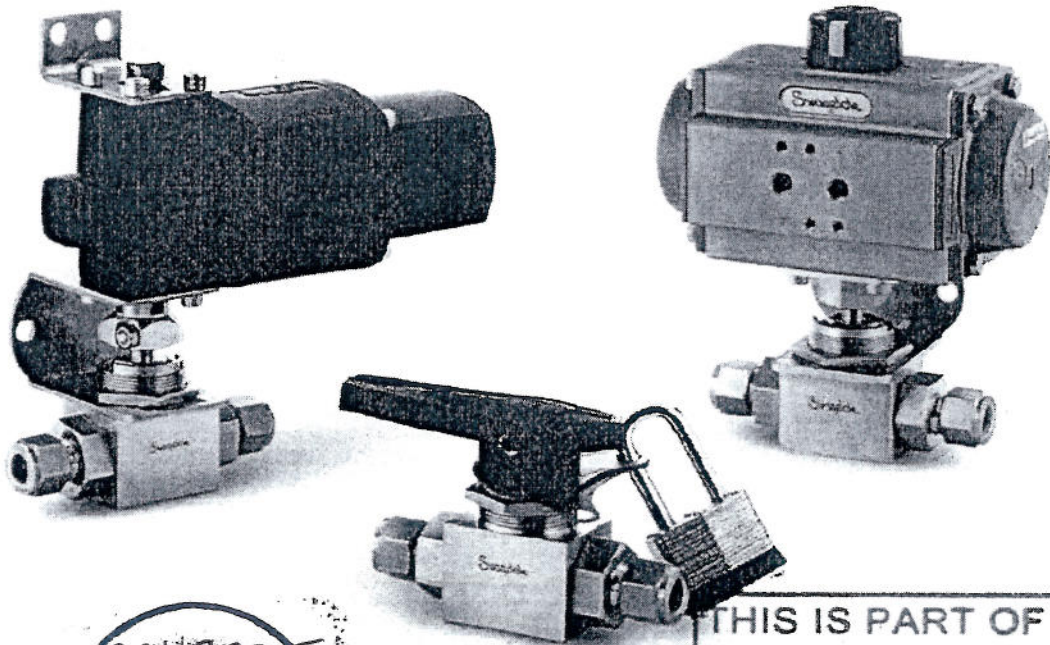
## Attachment A. Scope for Swagelok AFS Series Vall Valves (Category C)

This document represents the scope of the Swagelok AFS Series Ball Valves covered by this submission for CRN approval. The Swagelok AFS Series Ball Valves were designed and evaluated in accordance with ASME B31.1-2007 for unlisted components and ASME B31.3-2006 for unlisted components.

### 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 ambient temperature	At maximum temperature	
AFS	Body	Stainless Steel (ASTM A479)	Swagelok Tube Fitting 3/8", 1/2", 12MM	6000 @ 100 °F	6000 @ 250 °F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Swagelok Tube Fitting 3/4", 16MM	5800 @ 100 °F	5742 @ 250 °F	
			Swagelok Tube Fitting 1"	4700 @ 100 °F	4653 @ 250 °F	
			Female NPT 3/8", 1/2"	6000 @ 100 °F	6000 @ 250 °F	
			Female NPT 3/4"	5600 @ 100 °F	5532 @ 250 °F	
			Female ISO 1/2"	6000 @ 100 °F	6000 @ 250 °F	

### Product Illustrations



0016922.51  
**Safety**  
 AUTHORITY  
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 BCSA J# 63453

THIS IS PART OF  
 CRN 0016922.5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

**Product Options:**

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

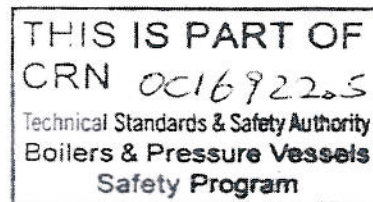
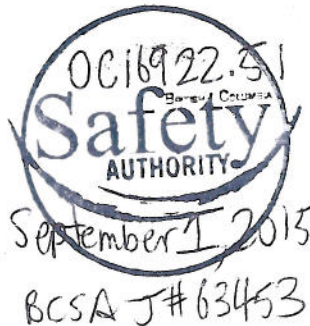
**Quality System**

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The AFS ball valve products are made at a Swagelok Company location in Solon, Ohio.

**References**

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

- Alternate Fuel Service Ball Valve Catalog MS-02-303, R10





**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 <i>Site 87742 364626</i>	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA <i>Site 847808</i>
Swagelok Company (Highland) 318 Bishop Road Highland Heights, Ohio 44143 USA <i>Site 758051</i>	Swagelok Company (Falon 2) 348 Bishop Road Highland Heights, Ohio 44143 USA <i>Site 847808</i>
Swagelok Company (OFC) 29495 F.A. Lennon Drive Solon, Ohio 44139 USA <i>Site 758052</i>	Swagelok Company (HPF) 6050 Cochran Road Solon, Ohio 44139 USA <i>Site: 758061</i>
Swagelok Company (Atlantic) 26651 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA <i>Site 758053</i>	Swagelok Company (Snow Metal) 6060 Cochran Road Solon, Ohio 44139 USA <i>Site 77194</i>
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA <i>Site 758054</i>	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139 <i>Site 817192</i>
Swagelok Hose Services Company (SHSC) 29900 Solon Industrial Parkway Solon, Ohio 44139 <i>Site: 771789</i>	Swagelok Company (Strongsville) 15400 Foltz Road Strongsville, Ohio 44119 <i>Site: 771796</i>
Swagelok Company (Strongsville) 21693 Drake Road Strongsville, Ohio 44149 <i>Site 771790</i>	Swagelok Company A.G. (European Technology Center) St. GallerstraBe 84 Lachen, Switzerland 8853 Switzerland <i>Site 758062</i>
Swagelok Limited Tromode IM4 4RA Isle of Man <i>Site 758063</i>	Swagelok BV Markweg 21 2153 PG, Nieuw-Vennep Netherlands <i>Site 771802</i>
Swagelok (China) Fluid System Technologies Ltd. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China <i>Site 771810</i>	

THIS IS PART OF  
CRN OC16922.5  
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program