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

**Date:** July 22, 2022 **Account #:** 35231

Journal #: 80699

Attn: TSSA

Re: Application for Design Registration

The design, as detailed in your, 0C15674.5R1 - SWAGELOK, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY CRN: 0C15674.51

Drawing #: Renewal for Swagelok FKB Serie

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 14-Jun-2032. 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# 0C15674.5R1 registration shall apply to BC registration.

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

Emilia Tam

emilia.tam@technicalsafetybc.ca Design Administration

cc:

(PROD) 30400-20 GST #: 87391 2802 RT0001

DocuSign Envelope ID: C0450073-0875-449A-843C-6A69A9DB04F1
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



STATUTORY DECLARATION					
Registration of Fitting	gs				
Joel Feldman, Vice President of Engineering	.(5-11-1)	· · · · · · · · · · · · · · · · · · ·			
(Name and Position, e.g. President, Plant Manager, Chie	et 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 and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3 Chapter IX as an unlisted component	e Technical Standard	Is and Safety Act, Boilers			
(Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratio	ngs, identification markin	ng the fittings and service;			
or are not covered by the provisions of a recognized North American standar as supported by the attached data which pressure/temperature ratings and the basis for such ratings, the marking of the	n identifies the dimensio	ns, material of construction,			
I further declare that the manufacture of these fittings is controlled by a quality system which has been verified by the following authority, BSI	n meeting the requireme	ents of ISO 9001:2015			
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 Docun	nents			
(drawings, calculations, test reports, etc.)					
Declared before me at in the		of			
the day of AD 20					
Commissioner for Oaths:	uSigned by:				
Unable to get a notary signature or	111				
seal due to COVID-19 situation		3/2/2022   8:53 AM			
(Signature) — C870	CBBFFD3F14B7	Declarer)			
	(-3				
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	Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program			
CRN:	REGIST	ERED			
Registered by:	C.R.N.: 0C15674.5F	21			
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Dated:	Signed:				
	Date: June 14, 2	2022.			
NOTE: This registration expires on: JUNE 14, 2032					

<sup>\*</sup>Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

PV 09553 (04/17)

215513 China

# **Attachment A. Swagelok Manufacturing Locations**

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

THIS IS PART OF CRN

	UC15674.5R1		
Swagelok Company 29500 Solon Road Solon, Ohio 44139 USA	Swagelok Company (Falon 1) 348 Bishop Road Highland Heights, Ohio 44143 USA  Technical Standards and Safety Authority Boilers and Pressure Vessels Program 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	Swagelok Limited Ballafletcher Road Tromode IM4 4RA		

Isle of Man



Canadian Registration Number Category C: Swagelok FKB Series Ball Valves

# THIS IS PART OF CRN

0C15674.5R1

Technical Standards and State of Pular brity 2022
Page 1 of 2
Boilers and Pressure Vessels Safety

vibration resistance.

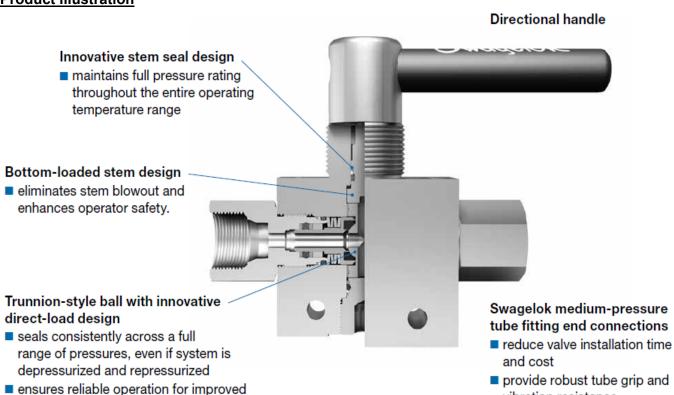
# Attachment B. Scope of CRN Registration for Swagelok FKB Series Medium Pressure Ball Valves (Category C)

This document represents the scope of the FKB Series Medium Pressure Ball Valves, covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.3-2020 Chapter IX for unlisted components.

## **Summary Table**

Product	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Rated Pressure (psig)		Design Code
Series				At 0 to 100°F	At maximum temperature	Construction
6FKB (2-way) and (3-way)	Body	316 SS (ASTM A479)	Medium Pressure Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/4", 3/8", 1/2"	15,000	15,000 at 250°F	
8FKB (2-way) and (3-way)	Body	316 SS (ASTM A479)	Medium Pressure Tube Fitting 1/2", 9/16" Female NPT 1/2"	15,000	15,000 at 250°F	ASME B31.3, Chapter IX (Unlisted Components)
12FKB	Pody	316 SS (ASTM	Medium Pressure Tube Fitting 3/4"	15,000	15,000 at 250°F	
(2-way)	Body A479)	A479)	Female NPT 3/4"	10,000	10,000 at 250°F	

# **Product Illustration**



## **Configurations**

actuation of control systems.

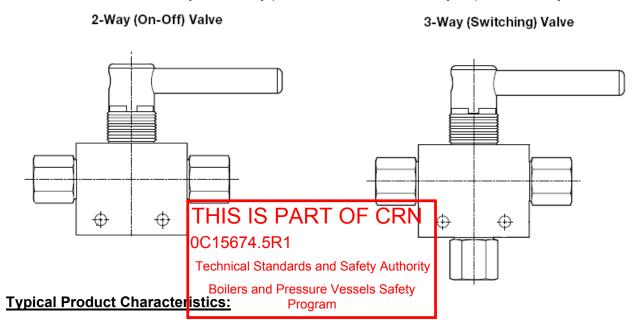


Canadian Registration Number Category C: Swagelok FKB Series Ball Valves

Valves are available in 2-way and 3-way pattern, and either manually or pneumatically actuated.

Date: January 7, 2022

Page 2 of 2



Some of the product options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than those shown in the table. All of the following options are within the scope of this approval.

# O-ring Stem Seal Options

**HNBR Nitrile** 

Perfluorocarbon FFKM

Additional options and non-pressure boundary alterations that do not affect pressuretemperature 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 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 below does not represent the full scope of the registration but rather details some of the most common options.

 Medium- and High-Pressure Fittings, Tubing, Valves, and Accessories Product Catalog MS-02-472 Rev R