

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

Date: May 31, 2018
Account #: 35231
Journal #: 70874

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2312868, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY **CRN:** 0C20290.51

Drawing #: MS-01-110 (product cat'g)

Drawing Revision: R9

Conditions Of Registration:

Reg'n of XS Series Excess Flow Valves (Category C) per att'd scope of reg'n sheets (1 pg + mfg loc sht).

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 April 24, 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.

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

SHARON PETERS

boiler.designregistration@technicalsbtybc.ca
Design Administration

cc:

Attachment B. Scope of Registration for Swagelok XS Series Excess Flow Valves (Category C)

Product Scope

This document represents the scope of Swagelok® XS Excess Flow 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

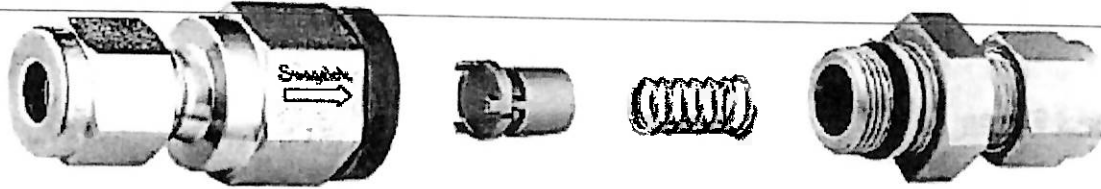
Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material (Standard)	Port Connections and Sizes	Maximum Allowable Working Pressure (psig)		Design Code of Construction
				@100°F	@400°F (max temp)	
XS4	Body	316 SS (ASTM A479)	Tube Fitting 1/4", 6MM Female NPT 1/8", 1/4" Male NPT 1/8", 1/4" Male ISO 1/4" Male VCO fitting 1/4" Male VCR fitting 1/4"	6000 psig	4280 psig	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
XS6	Body	316 SS (ASTM A479)	Tube Fitting 3/8", 8MM, 10MM Male NPT 3/8"	6000 psig	4280 psig	
			Female NPT 3/8"	5300 psig	3789 psig	
XS8	Body	316 SS (ASTM A479)	Tube Fitting 1/2", 12MM Male NPT 1/2" Male ISO 1/2" Male VCO fitting 1/2"	6000 psig	4280 psig	
			Female SAE/MS 1/2" Male SAE/MS 1/2"	4568 psig		
			Female ISO 1/2" Female NPT 1/2"	4900 psig	3503 psig	
			Male VCR fitting 1/2"	4300 psig	3074 psig	



CRN #: 0C20290.51
 Date: May 30, 2018
 BC J#: 70874



Product Illustration



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 British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.


Special Ordering Instructions

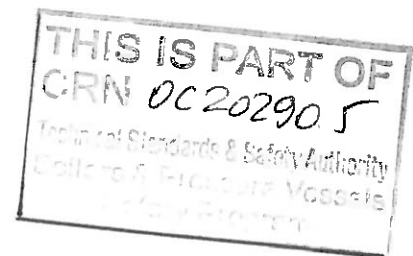
None

References

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

- Industrial Excess Flow Valves MS-01-110 R9

 TECHNICAL SAFETY BC
CRN #: OC20290.51
Date: May 30, 2018
BC J#: 70874



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 Tromode IM4 4RA Isle of Man	



CRN #: OC 20290.51
 Date: May 30, 2018
 BC J#: 70874

THIS IS PART OF
 CRN OC 20290.51
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program