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

Date: October 26, 2016

Account #: 35231

Journal #: 66689

Our File #: 5606298

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 1959816, for a Fitting is accepted for registration as follows:

Registered To: SWAGELOK COMPANY

CRN: 0C6054.51

Drawing #: 40G Series Prod Dat/ProofTests

Conditions Of Registration:

Reg'n rev'n of 40G Series One Piece Instrumentation Ball Valves as per Scope of Reg'n Attach't A&B sheets.

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:

Modifications to mfg locations. As required by CSA B51 4.2.1, this registration expires on January 25, 2025. 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:

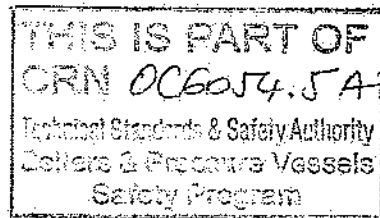
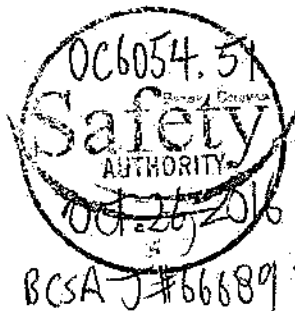
Attachment B. Scope of Registration for Swagelok 40G Series Ball Valves (Category C)

Product Scope

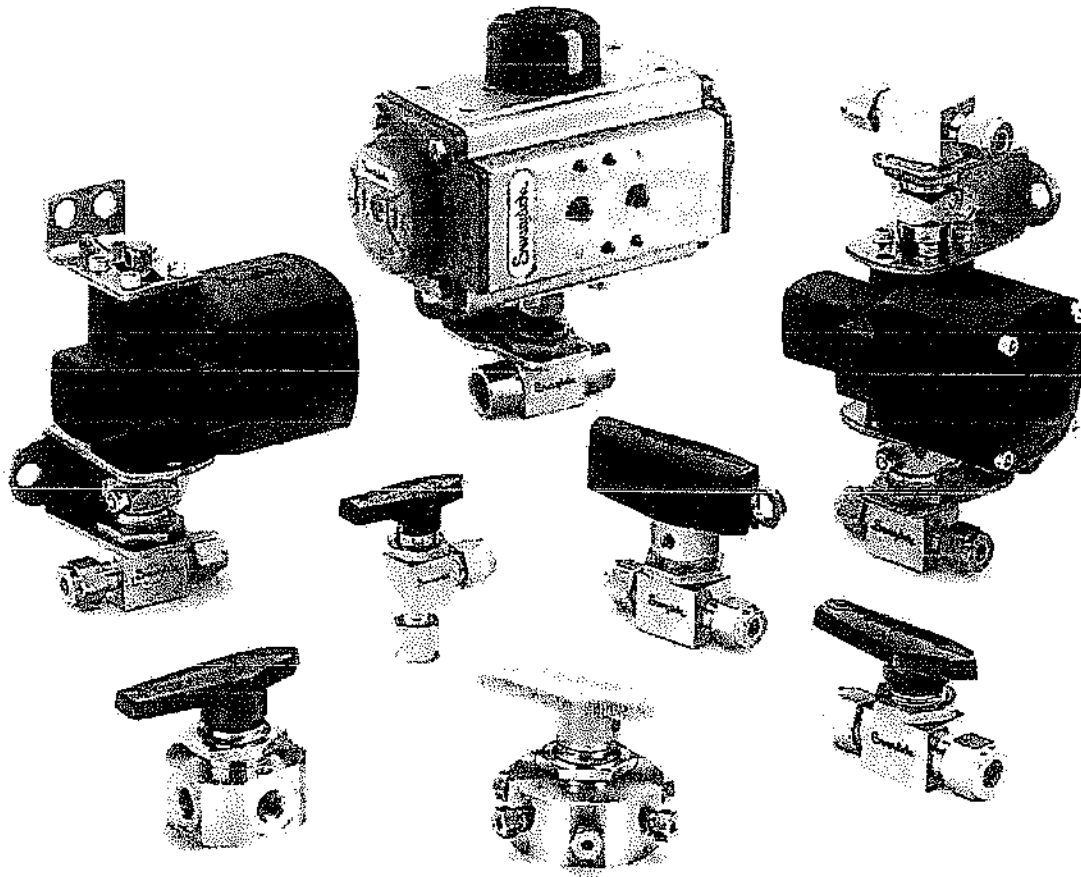
This document represents the scope of Swagelok 40G Series (41G/42G and 43G) Ball Valves covered by this submission for CRN approval. The Swagelok 40G Series (41G/42G and 43G) Ball Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Summary Table

| Product Description or Series | Main Pressure Bearing Component | Material | Port Connections and Sizes | Maximum Allowable Working Pressure (psig) | | Design Code of Construction |
|-------------------------------|---------------------------------|----------------------|---|---|----------|---|
| | | | | At 70°F | At 300°F | |
| 41G | Body | 316 SS/A276 and A479 | Swagelok Tube Fitting 1/16", 1/8", 3MM | 2500 | 2500 | ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components) |
| 42G | Body | 316 SS/A276 and A479 | Swagelok Tube Fitting 1/4", 6MM Female NPT 1/8" VCO Fitting 1/2" Male VCR Fitting 1/4" | 2500 | 2500 | ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components) |
| 43G | Body | 316 SS/A276 and A479 | Swagelok Tube Fitting 1/4", 3/8", 1/2", 6MM, 8MM Female NPT 1/8", 1/4" Female ISO 1/4" Male NPT 1/4" Male NPT/Swagelok Tube Fitting 1/4" Male VCR Fitting 1/4" | 3000 | 2500 | ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components) |



Product Illustration



Typical Product Characteristics:

Some of the product options listed below 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. All of the following options are within the scope of this registration:

- Modified PTFE seat material
- UHMWPE seat material

Some of the product options listed below do not affect the pressure-temperature ratings shown in the Summary Table. All of the following options are within the scope of this registration:

- Straight or Angle-Pattern bodies
- Body Vent Ports
- Handle Locking Brackets
- Latch Lock Handles
- Stem Extensions
- Pneumatic and Electric Actuators
- SC-11 Cleaning

THIS IS PART OF
 CRN 006054.5 ADD 13
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Programs

006054.51
 British Columbia
Safety
 AUTHORITY
 Oct. 25, 2016
 BCSA J#66689

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 Swagelok 40G Series Ball Valves are manufactured at a Swagelok Company locations in Solon, Ohio.

References

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

- Swagelok One-Piece Instrumentation Ball Valves MS-02-331, R9

