

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

| (Name and Position, e.g. President, Plant I | Manager, Chief Engineer) | |
|--|---|-------------------------------------|
| Swagelok Company | | |
| (Name of Manufactur | rer) | |
| ocated at 29500 Solon Road, Solon, Ohio 44139 USA | (440) 248-4600 | (440) 349-5970 |
| (Plant Address) | (Telephane No.) | (Fax No.) |
| do solemnly declare that the fittings listed hereunder, which are su and Pressure Vessels Regulation, comply with all of the requirem ASME B31.1 for unlisted components, and ASME B31.3 for unlist | nents of | s and Safety Act, Boilers |
| (Title of recognized North America | an Standard) | |
| which specifies the dimensions, materials of construction, pressure/temp | erature ratings, identification markin | g the fittings and service; |
| or are not covered by the provisions of a recognized North America as supported by the attached pressure/temperature ratings and the basis for such ratings, the main | data which identifies the dimension | ns, material of construction. |
| further declare that the manufacture of these fittings is controlled by a qua which has been verified by the following authority, BSI | ality system meeting the requirement | ents of ISO 9001:2015 |
| he items covered by this declaration, for which I seek registration, are category | C. Valves | type fittings. In support of |
| s application, the following information and/or test data are attached as follows: O 9001:2015 Certificate, Attachment A, Attachment B, Catalog Inform | | nents |
| (drawings, calculations, test n | | |
| colared before me at | | of Chilo |
| Jamie Lestau | 4/1.7 | /_ |
| (Signature) | (Signature of L | Declarer) |
| FOR OFFICE USE the best of my knowledge and belief, the application meets the requirement echnical Standards and Safety Act, Boilers and Pressure Vessels Regular SA Standard B51 and is accepted for registration in Category CRN: CC 21397-5 | ats of the dards tion and Safety Authority OFFICE | ers and sure Vessels by Program ED |



Canadian Registration Number Submittal #83-BALL-2019
Category C: Swagelok 83 Series Ball Valve

Attachment B: Scope for Swagelok 83 Series Ball Valves (Category C)

Date: February 4, 2019

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This document represents the scope of Swagelok's 83 Series Ball Valve covered by this submission for CRN approval. These valves were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 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 |
|-------------------------------------|--|---|---|---------------------------|---------------------------|---|
| | | | | At 100°F | At Maximum Temperature | of Construction |
| 83 | 83 Body | 316 SS (ASTM A479) | Tube Fitting 1/4", 3/8", 1/2", 6mm, 8mm, 10mm, 12mm Female NPT 1/8", 1/4" | 6000 psig | @ 450°F | ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components) |
| | | | Female NPT 1/2" | 4900 psig | | |
| 83 | | Alloy 400 N04400 (ASTM B164) | Tube Fitting 1/4", 3/8", 6mm, 8mm, 10mm Female NPT 1/8", 1/4" | 5000 psig | 500 psig @ 450°F | |
| | Body | | Tube Fitting 1/2" | 4400 psig | | |
| | | | Tube Fitting 12mm | 4206 psig | | |
| | | | Female NPT 1/2" | 4410 psig | | |

Product Illustration





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Product Options:

A variety of seat seal and stem seal materials are offered within the scope of this registration. Some of these options affect product pressure and/or temperature ratings, but in all cases these rating differences are less than those shown in the above Summary Table.

Additional options and non-pressure boundary alterations that do not affect pressuretemperature ratings are also available within the scope of this registration. Examples of these would include, but not be limited to, 3-way valves, handle options, indicator switches, actuators, etc.

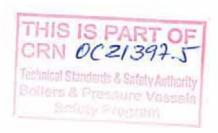
Quality System

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.

References

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

Trunnion (83 Series) Ball Valve Catalog MS-01-166, REV Q



Attachment A. Swagelok Manufacturing Locations

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

| Swagelok Company | Swagelok Company (Falon 1) | | |
|---|--|--|--|
| 29500 Solon Road | 348 Bishop Road | | |
| Solon, Ohio 44139 | Highland Heights, Ohio 44143 | | |
| USA | 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. | Swagelok Limited | | |
| Changshu Export Process Zone | Ballafletcher Road | | |
| Changshu Economic Development Zone | Tromode | | |
| Changshu, Jiangshu | IM4 4RA | | |
| 215513 China | Isle of Man | | |

