



STATUTORY DECLARATION Registration of Fittings

| l, <u>Jo</u> | el Feldman | , Vice President of | f Engineering | In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting. |
|---|--|--|--|---|
| (name of applicant) of Swagelok Company | | (position title) (must | (position title) (must be in a position of authority) | |
| Th | , | (name of manufacturer) | | |
| locate | d at 29500 Solon Road, Sol | on, Ohio 44139 USA (see | Attachment A) | |
| | | (plant address) | | 20. G2 20 V |
| | lemnly declare that the fitting k one) | s listed hereunder, which | are subject to the Safety | Codes Act |
| \boxtimes | comply with the requiremen | nts of ASME B31.1 and Al (title of recognized North | Control of the contro | pecifies the dimensions, |
| | materials of construction, p | ressure/temperature ratir | ngs and identification mark | king of the fittings, or |
| | are not covered by the prov | isions of a recognized No | orth American standard an | d are therefore manufactured |
| | to comply with | | as | supported by the attached |
| | (title of | code of construction or other ap | plicable document) | |
| | data which identifies the dir | mensions, materials of co | nstruction, pressure/tempe | erature ratings and the basis |
| | for such ratings, and the ma | arking of the fittings for ide | entification. | |
| I furth | er declare that the manufact | ure of these fittings is con | trolled by a quality control | program which has been |
| verifie | ed by the following authority, | BSI | as being suitable | e for the manufacture of |
| these | fittings to the stated standard | d. The fittings covered by | this declaration, for which | I seek registration, are |
| Cate | gory C Type Fittings | | | |
| | gary o type t tunige | (brief description of fittings |) | |
| In sup | port of this application, the fo | ollowing information, calcu | ulations and/or test data a | re attached: |
| ISO | 9001:2015 Certificate, Attack | nment A. Attachment B. C. | atalog Information and oth | her Support Documents |
| | ovo 1.2010 oo iliioato, 7 ktabi | mont right addition by o | atorog mornidom and ou | ici oupport Documento |
| DECL | ARED before me at Sol | on in the S | tate of | province or state) |
| - | //\ | (Month) Jamle L R | Year) Istau | |
| (print | ta Commissioner of Oaths or I | Notary Public) Resident Portage Notary Public, St My Commission Expl | ate of Ohio | |
| (sign) | (a Commissioner of Oaths or | Jaci | fall. I | of applicant) |
| For A | BSA Office Use Only: | | | |
| | S: See the attacked the | ets Attachments Af | B has supe of Regi | sprabion. |
| | e best of my knowledge and lard B51, Clause 4.2, and is | | | Safety Codes Act and CSA |
| Regis | tration Number: 0 C 2 | $1141 \cdot 52$ | (Signature of | he Administrator/SCO) |
| Date | Registered: APR | 0 1 2019 | F | y 22, 2029 |
| | ormation you provide is necessary only re Equipment Discipline. | for the administration of the progr | rams as required by the Alberta Sa | elety Codes Act and Regulations in the |



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Attachment B: Scope for Swagelok 40 Series Ball Valves (Category C)

Product Scope

This document represents the scope of the 40 Series Ball Valves covered by this submission for CRN approval. These products were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.

APR 0 1 2019

Summary Table

0C21141.52

| Product Series and Configurations | Main Pressure Bearing Component | Main Pressure Bearing Material (Standard) | Port Connections and Sizes | Maximum Allowable Working Pressure (psig) | | Design Code of Construction |
|---|--|--|---|---|-----------|--------------------------------|
| | | | | @100°F | @150°F | |
| 41 series straight, angle, | le, Body | Alloy 400 N04400 (ASTM B164 or ASTM B127) | Tube Fitting 1/16", 1/8", 3MM | 2500 psig | 2500 psig | ASME B31.1 |
| 3-way | | C36000 Brass (ASTM B16) | | | | |
| 42 series straight, angle, | Body | Alloy 400 N04400 (ASTM B164 or ASTM B127) | Tube Fitting 1/4", 6MM Female NPT 1/8" | 2500 psig | 2500 psig | |
| 3-way | | C36000 Brass (ASTM B16) | A (- 1 | | | |
| 43 series | Body | Alloy 400 N04400 (ASTM B164 or ASTM B127) | Tube Fitting 1/4",6MM,8MM Female NPT 1/4" Female ISO 1/4" | 3000 psig | 3000 psig | |
| Straight | | C36000 Brass (ASTM B16) | Tube Fitting 1/4",6MM,8MM Female NPT 1/4" Female ISO 1/4" | 2000 psig | 2000 psig | |
| Window Miles | gle, 3-way, y crossover, Body | 316SS (ASTM A479) | Tube Fitting 1/4",6MM,8MM Female NPT 1/4" Female ISO 1/4" Male VCR Fitting 1/4" | 2500 psig | 2500 psig | ASME B31.3 |
| 43 series angle, 3-way, 4-way crossover, 5-way switching | | Alloy 400 N04400 (ASTM B164 or ASTM B127) | Tube Fitting 1/4",6MM,8MM Female NPT 1/4" Female ISO 1/4" | 2500 psig | 2500 psig | |
| | | C36000 Brass (ASTM B16) | Tube Fitting 1/4",6MM,8MM Female NPT 1/4" Female ISO 1/4" | 2000 psig | 2000 psig | |
| | crossover, Body | 316SS (ASTM A479) | -Tube Fitting 1/4",6MM,8MM Female NPT 1/4" Female ISO 1/4" Male VCR Fitting 1/4" -(316 SS only) | Company Control (Special Control | 500 psig | |
| 43 series 6-way crossover, 7-way switching | | Alloy 400 N04400 (ASTM B164 or ASTM B127) | | | | |
| | | C36000 Brass (ASTM B16) | | | | |



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| Product Series and Configurations | Main Pressure Bearing Component | Main Pressure Bearing Material (Standard) | Port Connections and Sizes | Maximum Allowable Working Pressure (psig) | | Design Code of Construction |
|---|--|--|--|---|------------------|--|
| | | | | @100'F | @150'F | Construction |
| .y - = 1 | es Rody | 316SS (ASTM A479) | Tube Fitting 3/8", 10MM Female NPT 1/4", 3/8" Female ISO 3/8" | 2500 psig | 2500 psig | |
| 44 series straight | | Alloy 400 N04400 (ASTM B164 or ASTM B127) | | | | |
| | | C36000 Brass (ASTM B16) | Tube Fitting 3/8" | 2200 psig | 1980 psig | |
| | | | Tube Fitting 10MM | 1885 psig | 1508 psig | |
| | | | Female NPT 1/4", 3/8" Female ISO 3/8" | 2500 psig | 2500 psig | |
| | Body | 316SS (ASTM A479) | | ÓĆ2 | | ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted |
| 44 series angle, 3-way | | Alloy 400 N04400 (ASTM B164 or ASTM B127) | Tube Fitting 3/8", 10MM Female NPT 1/4", 3/8" Female ISO 3/8" | | 114 1500 psig | |
| | | C36000 Brass (ASTM B16) | | | | |
| WAL-WE | | 316SS (ASTM A479) | Tube Fitting 1/2", 3/4", 12MM Female NPT 1/2" Female ISO 1/2" | 2500 psig | 2500 psig | |
| 45 series | | Alloy 400 N04400 (ASTM B164 or ASTM B127) | | | | |
| straight | Body | | Tube Fitting 1/2* | 2100 psig | 1890 psig | |
| | | C36000 Brass (ASTM B16) | Tube Fitting 3/4" | 1800 psig | 1620 psig | |
| | | | Tube Fitting 12MM | 2030 psig | 1620 psig | |
| | | (to this to) | Female NPT 1/2" Female ISO 1/2" | 2400 psig | 2307 psig | |
| 45 series angle, 3-way, | , 3-way, rossover, Body | 316SS (ASTM A479) | Tube Fitting 1/2", 3/4", 12MM Female NPT 1/2" Female ISO 1/2" | 1500 psig | 1500 psig | |
| 4-way crossover, 5-way switching | | C36000 Brass (ASTM B16) | | | | |
| 45 series angle, 3-way | Body | Alloy 400 N04400 (ASTM B164 or ASTM B127) | Tube Fitting 1/2", 12MM Female NPT 1/2" | 1500 psig | 1500 psig | |



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Product Illustration



Configurations

Bodies are available in several port configurations from 2 to 7 ports. Illustrations of the some of these types are shown above in the product illustration.

Product Options:

The above summary table shows the options within scope of this registration. The scope includes live loaded PFA packing 40T series and UHMWPE packing 40E series, as the valve body design remains the same for all options.

Additional options that do not affect pressure and/or temperature ratings are also available within the scope of this approval. Examples of these include:

- Vented bodies
- Handle options
- Pneumatic actuators

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

40 Series Ball Valve Catalog MS-02-331, Rev. J

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. Changshu Export Process Zone Changshu Economic Development Zone Changshu, Jiangshu 215513 China | Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man APR 0 1 2019 |