



**Technical  
Safety Authority  
of Saskatchewan**

REGISTERED



CRN: CSA-OC21138.56

Registration Process administered by CSA Group per CSA B51

PH: (306)798-7112 Toll Free: (866)530-8599  
 FAS: (306)798-9273 Toll Free: (866)760-9255  
 Email: [boilerpermits@tsask.ca](mailto:boilerpermits@tsask.ca)  
 Website: [www.tsask.ca](http://www.tsask.ca)

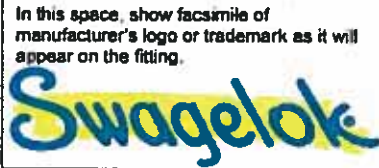
2202 2nd Ave.  
 Regina, SK S4R 1K3

**Statutory Declaration (Registration of Fittings)**

TSK-1008

**I. Declaration Information**

I, Joel Feldman  
Vice President, Engineering  
(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)  
 of: Swagelok Company  
(name of manufacturer)



located at: Headquarters: 29500 Solon Road Solon, Ohio 44139 USA  
(Plant Address - Apt/Street) (City, Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimensions, (title of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
- Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, BSI as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category C. Valves

In support of this application, the following information, calculations and / or test data are attached:  
ISO 9001:2015 Certificate, Attachment A, Attachment B, Catalog Information and other Support Documents

**II. Declaration**

DECLARED before me at Solon in the State of Ohio  
 this 29th day of November, 2018  
Jamie L. Ristau Resident Portage County  
(print name) My Commission Expires: 03/06/2019 [Signature]  
(Signature)  
Jamie L. Ristau  
(Signature of Commissioner of Oaths)

**III. Office Use Only**

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category C  
CSA-OC21138.56 Apr. 01. 2019 Feb. 22. 2029  
(Registration Number) (Date Registered - MM DD YYYY) (Expiry Date - MM DD YYYY)  
(For the Administrative / Quality Inspector)  
A. BANWATT



TSK-1008  
 Rev. 10/2012  
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\*Note: See the attachment for the scope of the registration

# Swagelok

Canadian Registration Number Submittal #60BALL-2018  
 Category C: Swagelok 60 Series Ball Valves

Date: January 22, 2019  
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## Attachment B: Scope for Swagelok 60 Series Ball Valves (Category C)

This document represents the scope of the 60 Series Ball Valves covered by this submission for CRN approval. The Swagelok 60 Series Ball Valves were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.

### Summary Tables

Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections, Sizes*	Maximum Rated Pressure (Note 1)		Design Code of Construction
				At 100°F	At Max Temp	
62	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4" Female ISO 1/4" Tube Butt Weld 1/4", 3/8" Pipe Butt Weld 1/4", 3/8" Tube Socket Weld 1/4", 3/8" Male VCO Fitting 1/4" Male VCR Fitting 1/4"	3000 psig (4 bolt body)  2500 psig (8 bolt body)	800 psig @450°F (4 bolt body)  200 psig @600°F (8 bolt body)	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4" Tube Butt Weld 1/4", 3/8" Pipe Butt Weld 1/4", 3/8" Tube Socket Weld 1/4", 3/8"	3000 psig (4 bolt body)  2500 psig (8 bolt body)	800 psig @450°F (4 bolt body)  200 psig @600°F (8 bolt body)	
			Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4"	2000 psig	100 psig @400°F	
			Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/4"	1500 psig	1470 psig @150°F	
			Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/4"	1500 psig	1470 psig @150°F	
			Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/4"	1500 psig	1380 psig @150°F	
63	Body	WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1/2", 3/4" Female NPT 3/8", 1/2" Female ISO 1/2" Tube Butt Weld 1/2" Pipe Butt Weld 1/2" Tube Socket Weld 1/2", 3/4" Pipe Socket Weld 1/2" Male VCO Fitting 1/2" Male VCR Fitting 1/2"	2500 psig (4 bolt and 8 bolt bodies)	800 psig @450°F (4 bolt body)  1000 psig @850°F (8 bolt body)  100 psig @450°F (welded)	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
			Swagelok Tube Fitting 1/2", 3/4" Female NPT 3/8", 1/2" Female ISO 1/2" Tube Butt Weld 1/2" Pipe Butt Weld 1/2" Tube Socket Weld 1/2", 3/4" Pipe Socket Weld 1/2"	2500 psig	800 psig @450°F (4 bolt body)  200 psig @800°F (8 bolt body)	
			Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4"	1500 psig	100 psig @400°F	
			Swagelok Tube Fitting 1/2" Female NPT 1/2"	1500 psig	1470 psig @150°F	
			Swagelok Tube Fitting 1/2" Female NPT 1/2"	1500 psig	1470 psig @150°F	
			Swagelok Tube Fitting 1/2" Female NPT 1/2"	1500 psig	1380 psig @150°F	

THIS IS PART OF  
 CRN 0C21138.5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

ATTACHMENT TO

CRN 0C21138.5

Signed: *[Signature]*

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# Swagelok

Canadian Registration Number Submittal #60BALL-2018  
 Category C: Swagelok 60 Series Ball Valves

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Product Series	Main Pressure Bearing Component	Main Pressure Bearing Material	Port Connections, Sizes*	Maximum Rated Pressure (Note 1)		Design Code of Construction
				At 100°F	At Max temp	
65	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1" Female NPT 3/4", 1" Female ISO 3/4", 1" Pipe Butt Weld 3/4", 1" Tube Butt Weld 3/4", 1" Tube Socket Weld 1" Pipe Socket Weld 3/4", 1"	2500 psig (4 bolt and 8 bolt bodies)  3000 psig (Welded bodies)	800 psig @450°F (4 bolt body)  1000 psig @850°F (8 bolt body)  100 psig @450°F (welded)	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1" Female NPT 3/4", 1" Female ISO 3/4", 1" Pipe Butt Weld 3/4", 1" Tube Butt Weld 3/4", 1" Tube Socket Weld 1" Pipe Socket Weld 3/4", 1"	2500 psig	800 psig @450°F (4 bolt body)  200 psig @800°F (8 bolt body)	
		Brass C36000 or C35600 (ASTM B16)	Swagelok Tube Fitting 1" Female NPT 3/4", 1"	1500 psig	100 psig @400°F	
		Alloy C278 bar (ASTM B574) or CW-12MW Cast (ASTM A494)	Female NPT 1"	1500 psig	1470 psig @150°F	
		Alloy 400 N04400 (ASTM B104)	Swagelok Tube Fitting 1" Female NPT 1"	1500 psig	1470 psig @150°F	
		Titanium Grade 4 UNS R50700 (ASTM B348)	Female NPT 1"	1500 psig	1380 psig @150°F	
67	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1-1/2" Female NPT 1-1/4", 1-1/2" Female ISO 1-1/4" Pipe Butt Weld 1-1/2" Tube Butt Weld 1-1/2" Tube Socket Weld 1-1/4", 1-1/2" Pipe Socket Weld 1-1/4", 1-1/2"	1500 psig (4 bolt body)  2000 psig (8 bolt body)	500 psig @450°F (4 bolt body)  500 psig @850°F (8 bolt body)	
		WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1-1/2" Female NPT 1-1/4", 1-1/2" Female ISO 1-1/4" Pipe Butt Weld 1-1/2" Tube Butt Weld 1-1/2" Tube Socket Weld 1-1/4", 1-1/2" Pipe Socket Weld 1-1/4", 1-1/2"	2200 psig	800 psig @450°F (4 bolt body)  200 psig @800°F (8 bolt body)	
68	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 2" Female NPT 2" Female ISO 2" Pipe Butt Weld 2" Tube Butt Weld 2" Tube Socket Weld 2" Pipe Socket Weld 2"	1500 psig (4 bolt body)  2000 psig (8 bolt body)	500 psig @450°F (4 bolt body)  500 psig @850°F (8 bolt body)	
		WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 2" Female NPT 2" Female ISO 2" Pipe Butt Weld 2" Tube Butt Weld 2" Tube Socket Weld 2" Pipe Socket Weld 2"	2200 psig (4 bolt body)  2000 psig (8 bolt body)	800 @450°F (4 bolt body)  200 psig @800°F (8 bolt body)	
62, 63, 65 (3-way)	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/8", 1/4", 1/2", 1" Female ISO 1/4", 1/2, 3/4", 1"	1000 psig	800 psig @450°F	
67, 68 (3-way)	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1-1/2" 2" Female NPT 1-1/4", 1-1/2", 2" Female ISO 1-1/4", 1-1/2", 2" Tube Socket Weld 1-1/4", 1-1/2", 2" Pipe Socket Weld 1-1/4", 1-1/2", 2"	2000 psig (8 bolt body)	800 psig @450°F	

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 OC 21138.5

CSA Group 3066  
 ATTACHMENT TO  
 C.R.N. 60594 - 2000 psig @ 150°F  
 Signed: [Signature]  
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# Swagelok

Canadian Registration Number Submittal #60BALL-2018  
Category C: Swagelok 60 Series Ball Valves

Date: January 22, 2019  
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\* Fractional port connection sizes shown. Equivalent metric size ranges are also in scope, and have the same pressure/temperature ratings

Note 1: Pressure ratings shown are the maximum possible for the combination of valve series and body material. Seat and flange seals will affect ratings; please refer to product literature.

## Product Illustration

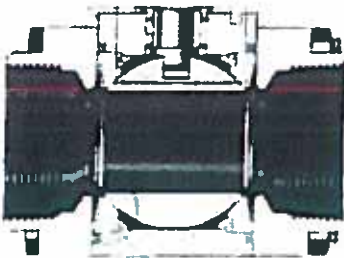


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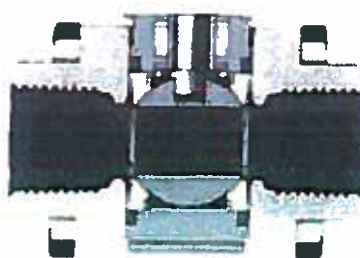
## Configurations

The pressure retaining components of the 60 Series ball valve bodies can be categorized into three main types of assemblies based on the method used to attach the flanges to the body:

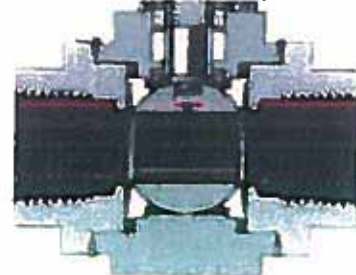
4 bolt (with nuts)  
(fasteners through body)



8 bolt  
(fasteners thread into body)



welded  
(no fasteners)



The 4 bolt type assemblies are available in all body materials.

The 8 bolt type assemblies are available in Stainless Steel and Carbon Steel only.

The welded assemblies are available in Stainless Steel only.



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C.R.N. CSA-0C21138.56

Signed: *[Signature]*

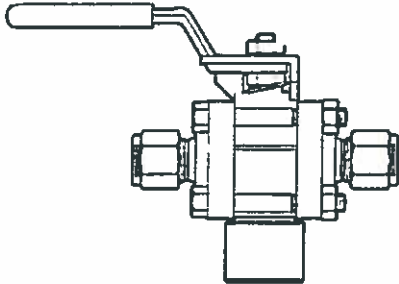
178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

# Swagelok

Canadian Registration Number Submittal #60BALL-2018  
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## 60 Series 3-Way Valves



3-Way valves are available in the 4-bolt type assembly and Stainless Steel material only.

### Product Options:

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.

#### Flange Seal Material Options

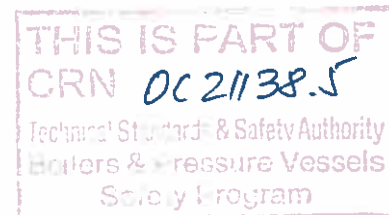
Fluorocarbon, FKM  
Buna N  
Buna C  
Ethylene Propylene  
Neoprene  
Grafoil  
PTFE

#### Stem Seal Material Options

PTFE, virgin  
Fluorocarbon, FKM  
Buna C  
Ethylene Propylene  
Grafoil  
PEEK (virgin, coated, or reinforced)

#### Seat Material Options

PTFE, virgin  
PTFE, reinforced  
PTFE, carbon glass filled  
PEEK (virgin, coated, or reinforced)  
UHMWPE  
Inconel X-750



Additional options that do not increase the pressure and/or temperature ratings may be made available within the scope of this approval. Examples of these would include the following:

Handle options  
Actuators (e.g. pneumatic, electric)  
Panel mounting  
Low dead space inserts

All of the above options, those that affect pressure and/or temperature ratings and those that do not, are within the scope of this approval.

# Swagelok

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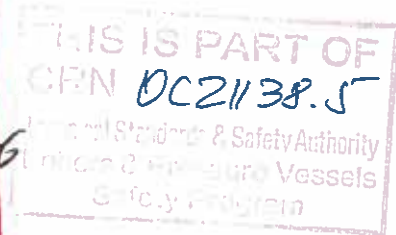
## Quality System

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.


- 60 Series Ball Valve Catalog MS-01-146, Rev U



## 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. Gallerstraße 84 Lachen, Switzerland 8853 Switzerland
Swagelok Limited Ballafletcher Road Tromode IM4 4RA Isle of Man	10FB



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