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Toronto, Ontario M9W 6N9  
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Fax: 416.231.1626  
Toll Free: 1.877.682.8772  
[www.tssa.org](http://www.tssa.org)

December 20, 2020

SCOTT ISLIP  
ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6  
CA

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2942362  
**Your Reference No.:** R-0884  
**Registered to:** GC VALVES, LLC.

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0C22902.5  
Main Design No.: REPORT R-0884 SOLENOID VALVES  
Expiry Date: 20-Dec-2030

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

Note:  
Please refer to Scope of Registration for detail.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

A handwritten signature in blue ink that reads 'Norman Ngai'.

Norman Ngai, P. Eng.  
Mechanical Engineer  
Boilers and Pressure Vessels  
Safety Program  
Tel. : 416-734-3557  
Fax : 416-231-6183  
Email : [nngai@tssa.org](mailto:nngai@tssa.org)  
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Technical Standards and Safety Authority  
 345 Carlingview Drive  
 Toronto, Ontario M9W 6N9  
 www.tssa.org

Show facsimile  
 appearance



Trademark, as it will  
 appear below

## STATUTORY DECLARATION Registration of Fittings

I, SHANE FINCHER, QUALITY CONTROL MANAGER  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of GC VALVES, LLC  
(Name of Manufacturer)

Located at 456 CROMPTON ST., CHARLOTTE, NC, 28273 704-588-3300 704-973-9526  
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3, ASME B31.1

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

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, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of CSA B51 which has been verified by the following authority, HARTFORD STEAM BOILER.

The items covered by this declaration, for which I seek registration, are category C - SOLENOID VALVES type fittings. In support of this application, the following information and/or test data are attached as follows:

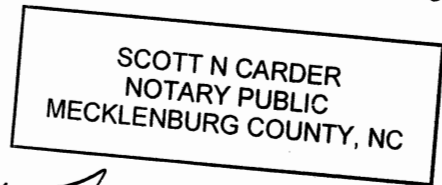
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS  
(drawings, calculations, test reports, etc.)

Declared before me at UPS Store # 6887 in the County of Mecklenburg  
 the 18 day of June AD 2020.

Commissioner for Oaths:

Scott N Carder  
(Printed name)

[Signature]  
(Signature) comm. expires 03/25/2023



[Signature]  
(Signature of Declarer)

### FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C.

CRN: 0C22902.5

Registered by: NORMAN NGAI

Dated: Dec. 20, 2020.

NOTE: This registration expires on: Dec. 20, 2030.

Technical Standards and Safety Authority      Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C22902.5

Signed: Norman Ngai

Date: December 20, 2020.

Registration Note: Please refer to Scope of Registration for detail.

*\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

# GC VALVES, LLC

456 CROMPTON ST.  
CHARLOTTE, NC  
28273, USA



25-Sep-20

THIS IS PART OF CRN  
0C22902.5  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

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## SCOPE OF CRN REGISTRATION

Product Description	Series	Design Code	End Connection	Size Range Inlet/Outlet	Material Specification (Note 4)	MAWP at MAWT (psig) (Note 1,2,3)	Report Number
Solenoid Valve - 2 Way	S20, S21, S27	ASME B31.3	NPT	3/8", 1/2", 3/4" 1", 1-1/4", 1-1/2"	Stainless Steel	200 psig at 300°F	R-0884 Rev. 0
					Brass	200 psig at 300°F	
					Stainless Steel	200 psig at 300°F	
				2"	Brass	200 psig at 293°F	
						192 psig at 300°F	

**Note 1:** MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature.

**Note 2:** The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the pressure-temperature ratings may be limited by the seat and seal materials. Please consult GC Valves.

**Note 3:** For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

**Note 4:** Stainless Steel = ASTM A351-CF8M  
Brass = ASTM B124/B283 UNS C37700 Brass where ASTM B124 material shall in all cases meet the requirements specified in ASTM B283. The minimum yield strength shall be 18,000 psi and the minimum tensile strength shall be 50,000 psi.

**MANUFACTURING PROGRAM**

Valve Drawing	Valve Size	GC Valves Series No.
Z201.C	3/8"	S20
Z201.D	1/2"	S20
Z201.E	3/4"	S20
Z201.F	1"	S20
Z201.G	1-1/4"	S20
Z201.H	1-1/2"	S20
Z202.C	3/8"	S20
Z202.D	1/2"	S20
Z202.E	3/4"	S20
Z211.C	3/8"	S21
Z211.D	1/2"	S21
Z211.E	3/4"	S21
Z211.F	1"	S21
Z211.G	1-1/4"	S21
Z211.H	1-1/2"	S21
Z211.J	2"	S21
Z212.C	3/8"	S21
Z212.D	1/2"	S21
Z212.E	3/4"	S21
Z212.F	1"	S21
Z212.G	1-1/4"	S21
Z212.H	1-1/2"	S21
Z212.J	2"	S21
Z271.F	1"	S27
Z271.G	1-1/4"	S27
Z271.H	1-1/2"	S27
Z271.J	2"	S27
Z272.F	1"	S27
Z272.G	1-1/4"	S27
Z272.H	1-1/2"	S27
Z272.J	2"	S27

**THIS IS PART OF CRN**  
 0C22902.5  
 Technical Standards and Safety Authority  
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 Program

Assembly drawings are presented in **Appendix A**. Body and bonnet machining drawings are presented in **Appendix B**.