

## REGISTRATION OF A PRESSURE FITTING DESIGN

30-Mar-21

TSSA  
345 Carlingview Drive  
Toronto, Ontario  
M9W 6N9

**Attention: Tanya Francis**

**File Number: 11960 [ 0 F]**

**Re: Manufacturer: GC Valves, LLC**  
**Item: Solenoid Valves (S20, S21 & S27)**  
**Catalog or Drawing: Per Scope and Design Report R-0884 Rev. 0**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**OC22902.53                      Expiry Date: December 20, 2030**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.  
Codes and Standards Compliance

### Remarks:

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

**Statutory Declaration (Registration of Fittings)**

**TSK-1008**

**I. Declaration Information**

I, SHANE FINCHER,  
QUALITY CONTROL MANAGER  
(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: GC VALVES, LLC  
(name of manufacturer)



located at: 456 CROMPTON ST. CHARLOTTE, NC 28273, U.S.A.  
(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)

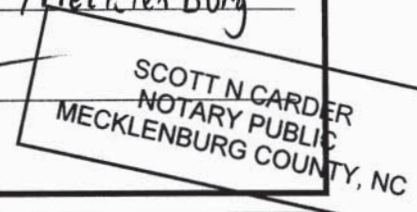
- Comply with the requirements of ASME B31.1, ASME B31.3 which specifies the dimensions, (title of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
- Are not covered by the provisions of a recognized North American 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, HARTFORD STEAM BOILER CSA B51 ANNEX F 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 - SOLENOID VALVES

In support of this application, the following information, calculations and / or test data are attached:  
SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

**II. Declaration**

DECLARED before me at UPS Store # 6887 In the County of Mecklenburg  
this 18 day of June, 2020  
Shane Fincher (print name) Shane F. (Signature)  
[Signature] (Signature of Commissioner of Oaths) Comm. Expires 03/25/2023



**III. Office Use Only**

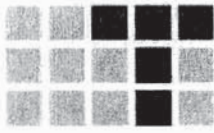
To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. OC22902.53  
File No. 11960  
**Registered**  
Date: March 30, 2021  
Expiry Date: December 20, 2030  
Codes & Standards Compliance Office

(Date Registered - MM DD YYYY) \_\_\_\_\_ (Expiry Date - MM DD YYYY) \_\_\_\_\_  
(For the Administrator / Chief Inspector)



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(name of manufacturer)



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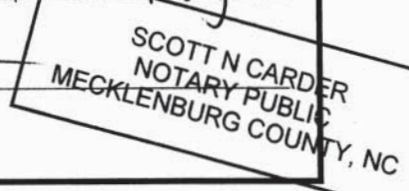
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# GC VALVES, LLC

456 CROMPTON ST.  
CHARLOTTE, NC  
28273, USA



25-Sep-20

PAGE 1 OF 1

THIS IS PART OF CRN  
OC22902.5  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

## 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	
				2"	Stainless Steel	200 psig at 300°F	
					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.

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