

April 26, 2023

Attention: Cecylia Garbacz
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, Tracking Number 2023-02427, Web Portal Number 2023-S1358, originally received on April 17, 2023 was surveyed and accepted for registration as follows:

CRN : 0C24476.52 **Accepted on:** April 26, 2023
Reg Type: NEW DESIGN **Expiry Date:** March 27, 2033
Drawing No. : Scope of Registration
Fitting type: Valves
Design registered in the name of : CLARK-RELIANCE LLC

The registration is conditional on your compliance with the following notes:

It is our understanding that the valves comply with ASME B16.34 and ASME B16.24 standards; and these valves are intended to be used in the service of ASME Section I boilers.

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is SECTION I.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.*
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration or AB-351 Declaration of Conformity form.*
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.*
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.*

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3306 or fax (780) 437-7787 or e-mail Wangi@absa.ca.

Sincerely,



WANG, IAN, P. Eng.
DOP Cert. No. D00009643



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

STATUTORY DECLARATION Registration of Fittings

I, Steve McGuigan, Senior Engineering Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Clark Reliance LLC
(Name of Manufacturer)

Located at 16633 Foltz Industrial Parkway Strongsville Ohio 44039 440-572-1500
(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 BPVC Section I
(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 _____
ISO 9001: 2015 which has been verified by the following authority, HSB (Hartford Steam Boiler).

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

(drawings, calculations, test reports, etc.)

Declared before me at CLARK-Reliance LLC in the City of Strongsville

the 15th day of December AD 2022.

Commissioner for Oaths:

Christine Mccombs
(Printed name)

Christine Mccombs
(Signature)



CHRISTINE MCCOMBS
 Notary Public
 State of Ohio
 My Comm. Expires
 July 9, 2025

Steve McGuigan
(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 _____.

CRN: _____

Registered by: _____

Dated: _____

NOTE: This registration expires on: **March 27, 2033**

2023-02427

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: OC24476 52

See acceptance letter for conditions of registration.

Date: **2023-04-26** By: _____

IAN WANG, P. Eng
 DOP: D0009643

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act

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

CRN: Reliance Category C Scope of Registration

Water Gage Valves Components:

Casting/ Forging	Material	Valve Series	Drawing	Max ID/NPS Size	Min. Thick.	Max Pressure Rating	Ref. Ass'y Dwg	Standard Used to Confirm Min. Wall within Press. Rating Allowable
Dwg = C-19095	SA-105 Steel	800	SG754-1	Ø1.07"	.336"	900#	SG1820	ASME B16.34-2020
		700	SG777- 1MSW	Ø1.07"	.336"	1500#	SG1805	
Dwg = B-18827	SB-61 Bronze	600	AB19343-1	NPS 3/4"	.220"	300#	BG1030	ASME B16.24-2021
		500						
		400						
Dwg = A-3724		600	A-3724	NPS 3/4"	0.28"			
Dwg = A7457		600	BG7011	NPS 3/4"	0.168"			

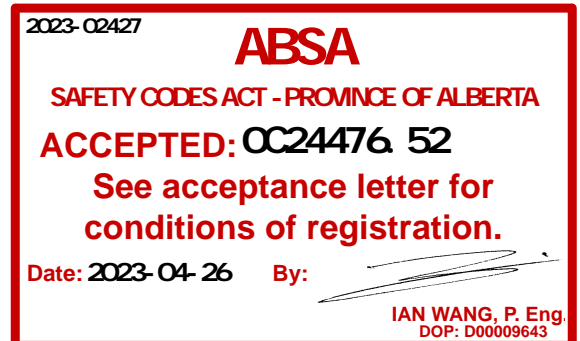
Ball Check Components (Used with RSG854 and RSG777 valves):

Reference Drawing	Material	Max ID/Size	Min. Thickness	Max Pressure Rating	Relative Valve Series	Reference Drawings Ass'y and Components	Standard Used to Confirm Min. Wall within Press. Rating Allowable
A-14348	SA-106	Ø.502"	.373"	900# And 1500#	800 and 700	DD7005-A SG1846 (1:2) SG1846 (2:2) SG1846W T-1648-A	ASME B16.34- 2020
DD7003-A	SA-479 304SS	Ø.91"	.600"				
DD7004-A	SA-479 304SS	Ø1.07"	.668"				

Body casting and material specification for the above valve series is designated by drawing their casting/forging drawings.

Package for Minimum wall locations and references to ASME B16.34 Table 3 and ASME B16.24 Table 8.1.2-2 is attached. This package includes all the drawings listed in the above tables.

All welds for adaptors, flanges, couplings are to be a minimum thickness of $T_b + 1/16"$ and designated by WPS 1-1-101 and WPS 1-1-102.



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

Steel Gage Valves Series, Drawing, and Min Wall List

RRFSG754 1		
FORGING BODY FOR ALL MODELS	C-19095	
Reliance 800 Series		
RSG854 yields the thinnest wall and highest pressure class		
Pressure Class = 900#		
Drawing = SG754-1	Min. Wall = 0.336" Max ID = 1.07"	Min. Wall per ASME B16.34 Table 3 (interpolated) = 0.298
Reference Assembly Drawing SG1820 to view how 800 series valves are assembled.		
Reliance 700 Series		
RSG777 yields the thinnest wall and highest pressure class		
Pressure Class = 1500#		
Drawing = SG777-1MSW	Min. Wall = 0.336" Max ID = 1.07"	Min. Wall per ASME B16.34 Table 3 (interpolated) = 0.298
Reference Assembly Drawing SG1805 Sheet 1 to view how valve is assembled.		

Bronze Gage Valves Series, Drawing, and Min Wall List

RCBG400 1		
FORGING BODY FOR ALL MODELS	B18827	
Reliance 400, 500, and RTG600 Series		
RBG404 Yields the Thinnest wall and highest pressure		
Pressure Class = 300#		
Drawing = AB19343-1	Min. Wall = 0.220" Vessel Conn. = 3/4"	Min. Wall per ASME B16.24 Table 8.1.2-2, NPS 3/4 = 0.16 (referencing the fittings table due to standard not specifying valve minimum wall thickness for SB-61 materials.)
Drawing = BG7011	Min. Wall = 0.280" Vessel Conn. = 3/4"	
Drawing = A3724	Min. Wall = 0.168" Vessel Conn. = 3/4"	
Reference Assembly Drawing BG1030 to view how 400 and 500 series valves are assembled. RTG600 series valves utilize the 400 series valve assemblies with adapters on it.		
Drawings BG7011 and A3724 are adapters put onto RBG400 series valves to create RTG600 series valves (AKA Tilt View). Reference Drawing A7457 for the material for BG7011.		

Reliance Ball Check Used with SG854 and RSG777 Valves

Max Pressure Class = 1500#		
Drawing = A-14348	Min. Wall = 0.373" Max ID = 0.502"	Min. Wall per ASME B16.34 Table 3 = 0.19
Drawing = DD7003-A	Min. Wall = 0.60" Max ID = 0.91"	Min. Wall per ASME B16.34 Table 3 = 0.27
Drawing = DD7004-A	Min. Wall = 0.668" Max ID = 1.07"	Min. Wall per ASME B16.34 Table 3 = 0.31
Drawing = DD7005-A	Min wall not applicapable. This is a sealing plug used with sealing gasket drawing T-1648-A.	
Drawing = SG1846 (PAGE 1:2)	These drawings to be used for reference only to see the assembly of the valves. This shows where the ball checks are assembled onto the valves.	
Drawing = SG1846 (PAGE 2:2)		
Drawing = SG1846W		
Drawing = T-1648-A		