

**REGISTRATION OF A PRESSURE FITTING DESIGN**

February 16, 2024

TSSA  
345 Carlingview Dr.  
Toronto, ON  
Canada  
M9W 6N9

**Attention: Cecylia Garbacz**

**File Number: 100171**

**Re: Manufacturer: Clark Reliance LLC**

**Item: Gages**

**Catalog or Drawing: 2023 CRN: Reliance Category F Scope of Registration**

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:

**0F16005.53**

**Expiry Date: 2033-11-07**

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:**

CRN renewal - Previously registered in Saskatchewan through CSA.

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



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 F 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 15<sup>th</sup> 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

[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 \_\_\_\_\_.

CRN: \_\_\_\_\_

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_

**Technical Safety Authority of Saskatchewan**

Registration No. 0F16005.53

File No. 100171

Registered

Date: February 16, 2024

Expiry Date: November 7, 2033

Codes & Standards Compliance Office

NOTE: This registration expires on: \_\_\_\_\_

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

# 2023 CRN: Reliance Category F Scope of Registration

## Flat Glass Gages:

Model Series	Body Material	Body Drawing	Assembly Drawing Prefix	Temperature Rating	Pressure Rating
FG400	ASTM A675 Gr.50	FG7093A	FG1164	456°F	450 psi
FG900	ASTM A675 Gr.50	AB-15411	B-7010	533°F	900 psi
FG1500	ASTM A675 Gr.50	AB-15414	D-8605	597°F	1500 psi
FG2000	ASTM A675 Gr.50	AB-15414	FG1179	636°F	2000 psi

## Reflex Gages (added in 2023):

Model Series	Body Material	Body Drawing	Assembly Drawing	Temperature Rating	Pressure Rating
RC#	SA-278 CL.30	B-18997	B-4366	406°F	250 psi
RS#	SA-516 Gr.70	AB-15410	B-12710	435°F	350 psi

## Simpliport Bi-Color Liquid Level Gages:

Model Series	Body Material	Casting Drawing	Assembly Drawing Prefix	Temperature Rating	Pressure Rating
P4000	SA-351 Gr.CF8 Ref. DWG PS7282-A	PS7303A	PS1483	597°F	1500
P4100			PS1491	695°F	3000

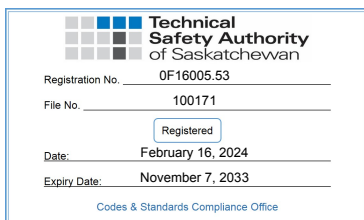
## Electrolev:

Model Series	Body Material	Body Drawing	Assembly Drawing Prefix	Temperature Rating	Pressure Rating
EL450	SA-106 Gr.B 2-1/2" XXS SMLS Pipe	A-15890	EL450	456°F	450
EL1000			EL1000	545°F	1000
EL1800			EL1800	621°F	1800
ELF3000			ELF3000	695°F	3000
ESB3000			ESB3000	695°F	3000

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

Detailed drawing list is on next page.

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.  $T_b$  is thickness of base material.



Prismatic Series Glass Gage Drawings (added 2023):		
Description	Drawing	Rev
RC# Series Prismatic Cast Gage Assembly	B-4366	16
RS# Series Prismatic Steel Gage Assembly	B-12710	5
Cast Gage Body - Casting	B-18997	0
Cast Gage Body - Casting	B-4320	5
Steel Gage Body	AB-15410	3
Cover Plate	A-3749U	3
Clamp	A4892	14
Grafoil Gasket	V-13143	1
Glass	V-16757	10
Cushion Gasket	V-18980	2

Simpliport P4000/P4100 Series Ported Gage Drawings:		
Description	Drawing	Rev
P4000 Simpliport Gage Assembly	PS1483-A	2
P4000 Simpliport Gage Weldment	PS1483-AW	2
P4100 Simpliport Gage Assembly	PS1491-A	4
P4100 Simpliport Gage Weldment Arrangement #1	PS1491-AW1	4
P4100 Simpliport Gage Weldment Arrangement #2	PS1491-AW2	4
P4100 Simpliport Gage Weldment Arrangement #3	PS1491-AW3	4
P4100 Simpliport Gage Weldment Arrangement #4	PS1491-AW4	4
Casting	PS7303A	4
Body	PS7282-A	4
Flange	A5819	13

FG400 Series Flat Glass Gage Drawings:		
Description	Drawing	Rev
FG450 Series Flat Glass Gage Assembly	FG1164-A	8
FG450 Series Flat Glass Gage Weldment	FG1164-AW	8
Gage Body	FG7093A	2
Cover Plate	A-3749U	3
Clamp	A4892	14
Grafoil Gasket	V-13143	1
Mica Shield	B-7701	9
Glass	V-16758	6
Cushion Gasket	V-18980	2

Electrolev Probe Column Drawings:		
Description	Drawing	Rev
EL450 Assembly	EL450	1
EL450 Weldment	EL450W	0
EL1000 Assembly	EL1000	1
EL1000 Weldment	EL1000W	0
EL1800 Assembly	EL1800	1
EL1800 Weldment	EL1800W	0
ELF3000 Assembly	ELF3000	1
ELF3000 Weldment	ELF3000W	0
ESB3000 Assembly	ESB3000	1
ESB3000 Weldment	ESB3000W	1
Electrolev Body Drawing (used across all models)	A-15890	9
Electrolev Top and Bottom Cap	A15892	5
T Probe Assembly	EA1000B	2
V Probe Assembly	AB-10498	2
ZG Probe Assembly	AB18600	9
FG Probe Assembly	AB18603	9
FSB Probe Assembly	MS1217-A	2
FBRZ Probe Assembly	MS1215-A	2
ZBRZ Probe Assembly	MS1216-A	2
FG Probe Body	A-18606	9
ZG Probe Body	AB-18601	6
V Probe Body	B-8903-1	0
FBRZ Probe Body	EL7149-A	5
FSB Probe Body	EL7457-A	3
T Probe Body	MS-1002-A	2
ZBRZ Probe Body	MS7198-A	2

FG900 Series Flat Glass Gage Drawings:		
Description	Drawing	Rev
FG900 Series Flat Glass Gage Assembly	B-7010	17
FG900 Series Flat Glass Gage Weldment	B7010-AW	17
Gage Body	AB-15411	7
Cover Plate	A-3749U	3
Clamp	A4892	14
Grafoil Gasket	V-13143	1
Mica Shield	B-7701	9
Glass	V-16758	6
Cushion Gasket	V-18980	2

FG1500 Series Flat Glass Gage Drawings:		
Description	Drawing	Rev
FG1500 Series Flat Glass Gage Assembly	D-8605	13
FG1500 Series Flat Glass Gage Weldment	D-8605-AW	13
Gage Body	AB-15414	7
Cover Plate	A-3749U	3
Clamp	A-8585	7
Grafoil Gasket	V-13143	1
Mica Shield	P-8092	10
Glass	V-16758	6
Cushion Gasket	V-18980	2

FG2000 Series Flat Glass Gage Drawings:		
Description	Drawing	Rev
FG2000 Series Flat Glass Gage Assembly	FG1179-A	4
FG2000 Series Flat Glass Gage Weldment	FG1179-AW	4
Gage Body	AB-15414	7
Flange	A5819	13
Cover Plate	A-3749U	3
Clamp	A-8585	7
Grafoil Gasket	V-13143	1
Mica Shield	P-8092	10
Glass	V-15841	2
Cushion Gasket	V-18980	2

