

August 29, 2018

Attention: Scott Islip
ROUND ENGINEERING INC
10 SEGWUN ROAD
WATERDOWN, ON L8B 0K6

Email: scott.islip@roundeng.com

The design submission, tracking number 2018-05622, originally received on August 24, 2018 was surveyed and accepted for registration as follows:

CRN : 0C18857.2 **Accepted on:** August 29, 2018
Reg Type: NEW DESIGN **Expiry Date:** August 29, 2028
Drawing No. : REPORT R-0951
Fitting type: GLOBE VALVE, 2-1/2 INCH CLASS 150
Design registered in the name of : FLOVAL EQUIPMENT LIMITED

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

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is B16.34.

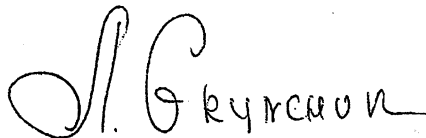
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency 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.

Enclosed are stamped prints for your reference.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3330 or fax (780) 437-7787 or e-mail grynchuk@absa.ca.

Sincerely,



GRYNCHUK, MILLA, P. Eng.
DOP Cert. No. D00005217

STATUTORY DECLARATION Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting. NOR'EAST

I, FRANK TONDAT, PRESIDENT of FLOVAL EQUIPMENT LTD. located at 250 RAYETTE ROAD, UNIT 1, CONCORD, ONTARIO, L4K 2G6

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ASME B16.34 which specifies the dimensions, 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 attached 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001:2015 SAI GLOBAL as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

CATEGORY C NOR'EAST GLOBE VALVE

In support of this application, the following information, calculations and/or test data are attached:

SCOPE OF CRN, DRAWINGS, CALCULATIONS, REPORTS

DECLARED before me at Vaughan in the Province of Ontario this 15th day of August, 2018

(print) ROGER BOURQUE (a Commissioner of Oaths or Notary Public)

(sign) [Signature] (a Commissioner of Oaths or Notary Public)

[Signature] (signature of applicant)

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category C

Registration Number: 0C18857-2 [Signature] (Signature of the Administrator/SCO)

Date Registered: AUG 29 2018 Expiry Date: 2028, Aug 29

FLOVAL EQUIPMENT LTD.
250 RAYETTE ROAD
UNIT 1
CONCORD, ONTARIO
L4K 2G6, CANADA



14-Aug-18

PAGE 1 OF 1

SCOPE OF CRN REGISTRATION

Product Description	Nor'East Series	Design Code	Size Range	Body Class	End Connection (Note 1,2)	Material Specification	MAWP (psig) (Note 3)	MDMT (F)
Class 150 2-Way Globe Valve	9100	ASME B16.34	2-1/2"	150	CL.150 Flanged	ASTM A216-WCB Carbon Steel	285 psig at 100F	-20

Note 1: In all cases the pressure-temperature ratings of the valves may be limited by the seat and seal materials. Consult Nor'East literature.

Note 2: In all cases the pressure-temperature ratings of a flanged valve are limited by the pressure-temperature ratings of the flange.

Note 3: The pressure-temperature ratings above 100F are in accordance with the applicable ASME B16.34 Table VII-2-1.1 ratings.

0C18857.2

FLOVAL EQUIPMENT LTD.
 250 RAYETTE ROAD
 UNIT 1
 CONCORD, ONTARIO
 L4K 2G6, CANADA

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Design Report Number
R-0951

DESIGN CALCULATIONS IN ACCORDANCE WITH ASME B16.34

Product Description: 2-WAY GLOBE VALVES
Model: SERIES 9100 *Note: See Appendix B for product literature*
Connection Type: CL. 150 FLANGED
Size Range: 2-1/2"
Body Construction: ASTM A216-WCB
Bonnet Construction: ASTM A216-WCB
Pressure - Temp Ratings: Per ASME B16.34 Class 150 - See Section 1
MDMT: -20 F
Corrosion Allowance: Nil
NDE: None

DRAWING LISTING

Series	9100	Type	2-WAY	Size	2-1/2" CL. 150	Drawing No.	R-0951	<i>Note: See Appendix A</i>
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DESCRIPTION OF PRODUCT

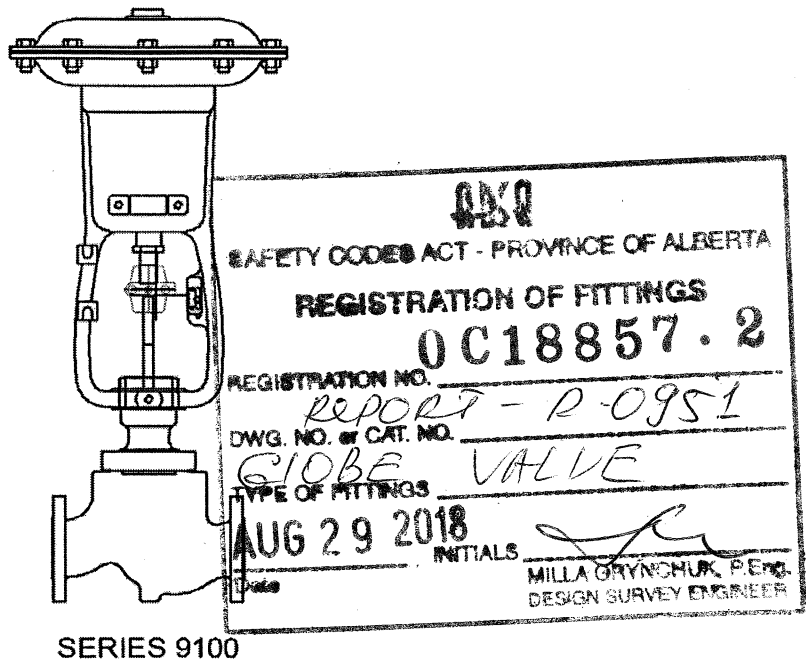


FIGURE 1

The Nor'East Globe valves were originally designed and manufactured by Honeywell. The product line was sold to Dezurik in 1997 and was purchased by Nor'East Controls in 2010. The same casting patterns and designs that were originally used by both Honeywell and Dezurik are now used by Nor'East.

ALLOWABLE STRESS

Material:	ASTM A216-WCB	
Allowable Stress Values @	100 F=	16,000 psi, Stress Value from ASME Section II Part D multiplied by a casting quality factor of 0.8.
Allowable Stress Values @	800 F=	9,600 psi, Stress Value from ASME Section II Part D multiplied by a casting quality factor of 0.8.
Yield Stress @	100 F=	36,000 psi, Stress Value from ASME Section II Part D
Tensile Stress @	100 F=	70,000 psi, Stress Value from ASME Section II Part D