



Boilers and Pressure Vessels Safety
 3300 Bloor Street West
 14th Floor, Centre Tower
 Toronto, Ontario
 CANADA M8X 2X4

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, **Paul Heald, Engineering Manager of ValvTechnologies, Inc.**

Located at **5904 Bingle Road Houston, Texas 77092**

713-860-0400
 (Telephone Number)

713-860-0499
 (Fax Number)

do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels comply with all of the requirements of **ANSI/ASME B16.34.**

(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 9001:2000 which has been verified by the following authority, DNV. The items covered by this declaration, for which I seek registration, are category C type fittings. In support of this application, the following information and/or test data are attached as follows:

VI-1, VI-2, VI-3 drawings, ECharts 1203, 1204, 1205
 (drawings, calculations, test reports, etc.)

Declared before me at ValvTechnologies in the Houston, Tx of USA
 the 24th day of July AD 2007.

Commissioner for Oaths

Selma Ware
 (Printed name)

Selma Ware

(Signature)



Paul Heald

(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, 2000, and Regulations for Boilers and Pressure Vessels and is accepted for registration in Category C.

CRN Number Issued: CSA-OC11555.56

Registered by: R. BARNES

Date Registered: SEPTEMBER 6, 2007

This registration expires on: APRIL 30, 2017

Vessels and CSA Standard B51
 Canadian Standards Association
 178 Rexdale Blvd.
 Toronto ON (416) 747-4000

REGISTERED

C.R.N.: CSA-OC11555.56

Signed: R. Barnes

Date: SEPTEMBER 6, 2007

Document Name: TSSA Statutory Declaration Form, Jan 17, 2007, Rev. 4.doc

* SEE ATTACHMENTS FOR THE SCOPE OF THIS REGISTRATION

Saskatchewan



Saskatchewan
Municipal
Government

Provision Services
330 - 1888 Victoria Avenue
Regina, Saskatchewan
S4P 1V7

767-4360

April 23, 1998

Re: Fittings Registration

The Province of Saskatchewan will be participating with Quebec, Manitoba and the Canadian Standards Association (CSA) in a pilot project for the registration of fittings. We will recognize registrations done by CSA and accept such fittings for use in Saskatchewan.

The letters CSA will be applied as a prefix to the CRN to indicate which fittings have been registered in this manner. I would appreciate if you could inform your clients of this additional marking requirement.

You may also inform your clients that fittings registered by CSA are accepted for use in Saskatchewan.

Yours truly,

A handwritten signature in black ink, appearing to read 'N. Surtees'.

N. Surtees, P. Eng.
Executive Director

Manitoba



Labour

Mechanical and Engineering

500 — 401 York Avenue
Winnipeg MB R3C 0P8
CANADA

PH.: (204) 945-3373
FAX: (204) 948-2309

April 22, 1988

The Province of Manitoba will be participating with Quebec, Saskatchewan and the Canadian Standards Association in a pilot project for the registration of fittings. We will recognize registrations done by CSA and accept such fittings for use in Manitoba. The letters CSA will be applied in front of the CRN to indicate which fittings have been registered in this manner. I would appreciate it if you could inform your clients of this additional marking request.

You may now inform your clients that the CSA registration is acceptable in Manitoba.

Yours truly,

A handwritten signature in cursive script, appearing to read "I.W. Mault".

I.W. Mault, P.Eng.
Director



CANADIAN REGISTRATION NUMBER

Types of Fitting Ball Valves	How Displayed Catalogues	Design Code B16.34	PT Rating
PRESSURE RATING	SIZE	MATERIAL	
Class 900 to 4500	0.5" to 4.0"	A182-F22	A182-F316
Class 150 to 600	0.5" to 16"	A351-CF8M	
Class 150 to 600	0.5" to 1.5"	A351-CF8M	A217-WC9

THIS IS PART OF
 CRN OC11SSSS
 Technical Standards
 Boilers & PIPES
 501 13 11 11

EXPIRY: APRIL 30, 2014

Description: Metal Seated Ball Valves
 V1-1 Class 900 to 4500; SW to 2" & BW to 4"
 V1-2 Class 150-300-600 Flanged
 V1-3 Class 150-300-600

NOTE: Trademark – "ValvTechnologies" within an ellipse on a shaded rectangle.



Engineering Chart
EChart 1203

Page 1 of 2

V1-2 FLANGED BALL VALVE 1" TO 16"

Valve Size	t Minimum			t Actual		
	150	300	600	150	300	600
1	0.11	0.12	0.14	0.14	0.14	0.14
2	0.19	0.19	0.22	0.28	0.31	0.38
3	0.22	0.25	0.28	0.26	0.32	0.31
4	0.22	0.28	0.31	0.40	0.31	0.31
6	0.25	0.31	0.38	0.38	0.63	0.46
8	0.28	0.38	0.50	0.40	0.41	0.55
10	0.30	0.44	0.63	0.45	0.67	0.65
12	0.31	0.50	0.77	0.50	0.53	0.78
14	0.34	0.50	0.77	0.70	0.53	0.78
16	0.34	0.58	0.92	0.60	0.75	1.00

Reference ValvTechnologies Catalog V1-2.

d = Inside diameter determined in accordance with paragraph 6.1.2 of ASME B16.34

t minimum = Valve body minimum wall thickness (in.) per Table 3 ASME B16.34

t actual = design wall thickness measured at the thinnest point.



Engineering Chart EChart 1204

Page 1 of 2

V1 - 3 INVESTMENT CAST BALL VALVES 1/2" TO 2"

SIZE	1/2"	3/4"	1"	1"	1 1/2"	1 1/2" *	2" *
t minimum	0.14	0.14	0.14	0.19	0.19		
t actual	0.14	0.14	0.14	0.40	0.40		
t minimum	0.14	0.14	0.14	0.19	0.19	0.22	0.33
t actual	0.14	0.14	0.14	0.40	0.40	0.25	0.25

* = Socket Weld Only

t minimum = Valve body minimum wall thickness (inches) per Table 3 of ASME B16.34

t actual = design wall thickness measured at the thinnest point

**V1-1 FORGED, HIGH PRESSURE VALVES**

ANSI Rating	d	t - Minimum	t - Actual
900 ⁽¹⁾	0.625	0.17	0.59
	1.0625	0.25	0.52
	1.5	0.29	1.00
1500 ⁽¹⁾	0.625	0.22	0.59
	1.0625	0.295	0.52
	1.5	0.39	1.00
2250 ⁽²⁾	0.625	0.2875	0.59
	1.0625	0.42625	0.52
	1.5	0.5625	1.00
2500 ⁽¹⁾	0.625	0.31	0.59
	1.0625	0.47	0.52
	1.5	0.62	1.00
3100 ⁽²⁾	0.625	0.394	0.59
	1.0625	0.58	0.94
	1.5	0.818	1.00
4000 ⁽²⁾	0.625	0.52	0.59
	1.0625	0.815	0.94
4500 ⁽¹⁾	0.625	0.59	0.59
	1.0625	0.93	0.94

(1) Standard Class V1-1 B16.34 Minimum Wall Thickness

(2) Intermediate Rating-- per B16.34 paragraph 6.1.4



DET NORSKE VERITAS MANAGEMENT SYSTEM CERTIFICATE

Certificate No. CERT-01800-2006-AQ-HOU-ANAB

This is to certify that

VALVTECHNOLOGIES INCORPORATED

at

5904 Bingle, Houston, TX 77092 USA

Has been found to conform to Management System Standard:

ISO 9001:2000

This Certificate is valid for the following products/service ranges:

ENGINEERING, MANUFACTURING, SALES, AND SERVICE OF HIGH PERFORMANCE VALVE PRODUCTS, INCLUDING ON-OFF AND CONTROL APPLICATIONS. SIZE RANGES FROM 1/2" TO 36"; PRESSURE CLASS FROM ANSI 150 THROUGH ANSI 4500 AND FROM API 2000 PSI THROUGH API 20,000 PSI. APPLICATIONS INCLUDE HIGH TEMPERATURE, HIGH PRESSURE, ABRASIVE ENVIRONMENT, AND WHEN TIGHT SHUT OFF IS REQUIRED.

Place and date:

Houston, Texas; 10 February 2006

This certificate is valid until:

09 February 2009

for the Accredited Unit:
DET NORSKE VERITAS CERTIFICATION, INC.
Houston, TX USA

Robert Keys
Management Representative
Det Norske Veritas Certification, Inc.



Initial Certification Date:
18 May 1997

Chris Mauterstock
Lead Auditor

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the organization.
Lack of fulfillment of conditions as set out in the Appendix may render this certificate invalid.