



Attn: Mr RICHARD BARNES

416 252-5335

DIRECTIVE

No: D-B6 0704023

EXEMPTION FROM REGISTRATION REQUIREMENTS FOR CATEGORY A, B, C, AND G CATEGORY FITTINGS

This Directive is being issued by a provincial safety manager pursuant to section 30 of the Safety Standards Act.

Date of Issue: April 2, 2007

General Details

This directive is being issued to exempt Category A, B, C, and G fittings from registration as required by Section 84(2) of the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation (PEBPV&RSR) effective May, 1, 2007.

All registrations received before May 1, 2007 will be processed but any received after this date will be returned to the submitter.

Specific Details

Section 84(2) of the PEBPV&RSR requires that fittings, boilers, pressure vessels and pressure piping be registered with a provincial safety manager of the BC Safety Authority. The specific types of fittings for which this exemption applies are categories A, B, C, fittings and category G capacity certified fittings as listed in CSA B 51 Table 1.

- A Pipe fittings, including couplings, tees, elbows, wyes, plugs, unions, nipples, pipe caps, and reducers
- B All flanges
- C All line valves
- G Certified capacity-rated pressure-relief devices acceptable as primary overpressure protection on boilers, pressure vessels and pressure piping, and fusible plugs.

Pursuant to the power granted to the provincial Safety Manager under Section 84(8) of the PEBPV&RSR, it is hereby directed that category A, B, C, and G fittings, as described above, are exempt from the registration requirements of Section 84(2) of the PEBPV&RSR effective May 1, 2007.


Malcolm Bishop
Provincial Safety Manager - Boilers

For more information, contact your local safety officer or visit our web site at:

www.safetyauthority.ca

DIRECTIVE NO: D-B6 0704023

Page 1 of 2

88 SIXTH STREET, SUITE 400, NEW WESTMINSTER, BRITISH COLUMBIA, CANADA V3L 5B3
Toll Free: 1-866-566-SAFE (7233) Fax: 604 660-8215 Web Site: www.safetyauthority.ca E-mail: info@safetyauthority.ca



**STATUTORY DECLARATION
Registration of Fittings**

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

ECII

or

REGO

I, Darwin Gentile,

Chief Engineer

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Engineered Controls International, Inc.

(name of manufacturer)

located at 100 Rego Drive Elon, North Carolina USA 27244

(plant address)

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

☒ comply with the requirements of UL, ASME, & ASTM 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 manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001 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 C

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

Rego Product Catalog L-500

DECLARED before me at Elon in the State of North Carolina
this 24th day of April, 2010
(print) Patricia T. Hill
(sign) Patricia T. Hill
(A Commissioner for Oaths)

OFFICIAL SEAL
PATRICIA T. HILL
Notary Public - North Carolina
ALAMANCE COUNTY
My Commission Expires 3-7-12

Darwin Gentile
Signature of Applicant

For Office Use Only

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: 0C13732.52

WILLIAM GRYNCHUK

Date Registered: JUL 16 2010

(For the Administrator/Chief Inspector of Alberta)

Expiry Date: 2020-03-12

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.

See acceptance letter for the scope



Registration Requirements for Pressure Fittings

Submissions for registration shall be sent to the Saskatchewan Boiler and Pressure Vessel Safety office in Regina at the following address:

Codes and Standards Compliance Office
Saskatchewan Boiler and Pressure Vessel Safety
330 – 1855 Victoria Avenue
Regina, SK Canada S4P 3T2

Designs submitted by fax or other electronic means (email) are not accepted at this time.

Notes

Design registration will be denoted by the Canadian Registration Number (CRN) assigned to the design. Any number of units may be made to one registered design, unless the code or regulations change to invalidate the registered design or unless the registration limits the number of units that may be built to the design. Registrations of fittings shall be resubmitted for validation ten years after the date of first acceptance.

Note that it is not necessary that the drawings be stamped by a registered Professional Engineer unless the code or design reviewer requires such stamping.

Exemptions from Registration Requirements of Fittings

A fitting is not required to be registered in Saskatchewan pursuant to *The Boiler and Pressure Vessel Act* if:

- it is registered by CSA (Contact: Renzo Pupulin, renzo.pupulin@csa-international.org); or
- it is a category A, B, C, or G fitting, as set out in the CSA B51 code

If there are any further questions or concerns, feel free to contact the office at (306) 787-4567.

Chris Selinger, P.Eng.
Manager of Codes and Standards Compliance
January 1, 2007

MANITOBA

DEPARTMENT OF LABOUR
AND IMMIGRATION
500 - 401 York Avenue
Winnipeg, Manitoba R3C 0P8



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a) Design Qualification

I, Darwin Gentile (See Note 2)
Chief Engineer
(Position e.g.: president, plant manager, chief eng.)
of Engineered Controls International, Inc.
(Name of company)
located at 100 Rego Drive, Elon, North Carolina USA 27244
(Plant Address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act,

☒ comply with all the requirements of the ANSI/ASME codes as to their dimensions.
or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with
code or standard, and are designed to the best-current
engineering practice, as shown by the supporting test data.

(b) Quality Control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001, and has been verified by the following authority or authorized agency Underwriters Laboratories, Inc.

The fittings covered by this declaration, for which I seek registration, are C Type Fittings

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

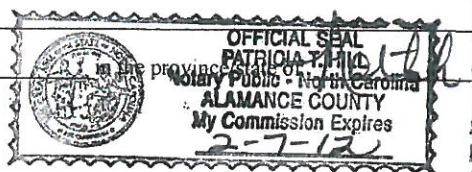
Rego Product Catalogue L-500

Declared before me at Elon

day of April AD 20 10

A (commissioner for oaths)

Patricia L. Hall



With Evidence the 7th
Darwin Gentile
Signature of Declarer

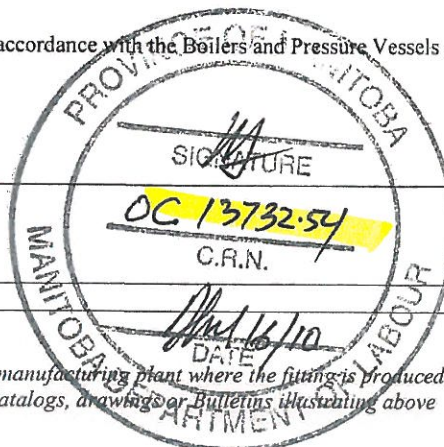
(For Official Use Only)

The application is accepted for registration in Category _____ in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN _____ For the Chief Inspector

Date: _____



Notes:

- (1) This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.
- (2) Two completed copies of Statutory Declaration form together with two copies of Catalogs, drawings or Bulletins illustrating above fittings shall be submitted.
- (3) All fittings are required to be registered in the name of the Manufacturer.



**BOILERS AND PRESSURE VESSELS
SAFETY DIVISION**
3300 Bloor Street West
4th Floor, West Tower
Toronto, Ontario
CANADA M8X 2X4

**STATUTORY DECLARATION
Registration of Fittings**

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

ECII
OR
REGO

I, Darwin Gentile
(Name & Position of Chief Engineer)
of Engineered Controls International Inc.
(Name of Manufacturer)

Located at 100 Rego Drive Elon, North Carolina USA 27244 01 336 449-7707 01 336 449-6594
(Plant Address) (Telephone #) (Fax #)

- ☐ 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 Underwriters Laboratories Inc., ASME, & ASTM
(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 which has been verified by the following authority, Underwriters Laboratories, Inc.
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:

Rego Product Catalogue L-500

(drawings, calculations, test reports, etc.)

Declared before me at Alamance County in the State of North Carolina
the 28th day of August AD 2010

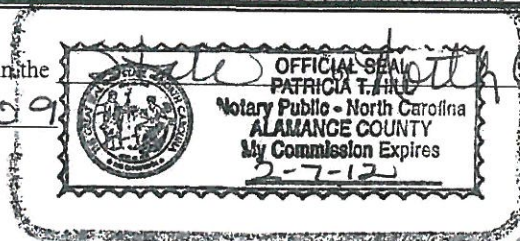
Commissioner for Oaths:

Patricia T. Hill

(Printed name)

Patricia T. Hill

(Signature)



Darwin Gentile

(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 CSA Standard B51 and is accepted for registration in Category C.

CRN: 0C13732.5

Registered by: B. Soetel

Dated: Mar 19/10

NOTE: This registration expires on Mar 12/20

[Revised August 24, 2001]

REGISTERED

CRN: 0C13732.5

Signed: B. Soetel

Date: Mar 19/10

Statutory Declaration Registration of Fittings

(a) Design Qualification

I¹ Darwin Gentile
(Name of applicant)
Chief Engineer
(Position eg. president, plant manager, chief eng.)
of Engineered Controls International, Inc.
(name of company)
Located at 100 Rego Drive, Elon, North Carolina USA 27244
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

☒ comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:

Or

☐ are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____
code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001, and has been verified by the following authority or authorized agency Underwriters Laboratories, Inc.

The fittings² covered by this declaration, for which I seek registration, are C type fitting

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

Rego Product Catalogue L-500 (DRAWINGS, CALCULATIONS, TEST REPORTS)

Declared before me at Elon NC USA
DWB 6016, AA 6016, 6024, AA 6024, 6010, AA 6010
CL10/05/13

In the of Elon of ALAMANCE COUNTY
The day of April 2010
Notary Public - North Carolina
My Commission Expires 3-7-12
A (commissioner for oath)

Signature of Declarer

For Official Use Only

The application is accepted for registration in Category C in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN 0013732.56

For the Chief Inspector

Date 13 MAY 2010

¹ Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.

² All fittings are required to be registered in the name of the Manufacturer.

³ This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Engineered Controls International, Inc.	
MANUFACTURERS ADDRESS: 100 Rego Drive, Elon, North Carolina USA 27244	
PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 27244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> , (Meeting CNSC or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION UL, ASTM, & ASME
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	TYPE OF CONSTRUCTION FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Rego Product Catalogue L-500	

DECLARATION:

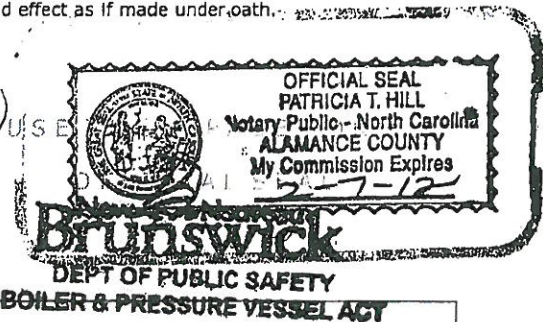
I Darwin Gentile (see note 3) employed by Engineered Controls International, Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Darwin Gentile

Declared before me at Elon, North Carolina

This 7th day of April AD 2010

Commissioner of Oaths or Notary Public: (sign) Patricia L. Hill



This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance. CRN: <u>0C13732.5</u> FID#: <u>1704</u> Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	REGISTRATION ONLY CRN <u>0C13732.57</u> EXAMINER: <u>[Signature]</u> for CHIEF BOILER INSPECTOR DATE: <u>04/21/10</u> <input type="checkbox"/> B&P 10 Fittings <input type="checkbox"/> PVS 1 06/2003 <input checked="" type="checkbox"/> FITTINGS <input type="checkbox"/> COMPONENTS
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Engineered Controls International, Inc.

MANUFACTURERS ADDRESS: 100 Rego Drive, Elon, North Carolina USA 27244

PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 27244

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

- A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
 B Flanges: all flanges
 C Valves: all line valves
 D Expansion joints, flexible connections, and hose assemblies: all types
 E Strainers, filters, separators, and steam traps
 F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
 G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

UL, ASTM, & ASME

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT


 or


TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☐ WROUGHT ☐
 CAST ☒ OTHER ☐
 DESCRIBE OTHER:

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

Rego Product Catalogue L-500

DECLARATION:

I, Darwin Gentile (see note 3) employed by Engineered Controls International, Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at

This

Commissioner of Oaths
or Notary Public: (sign)

This space for Regulatory Authority use

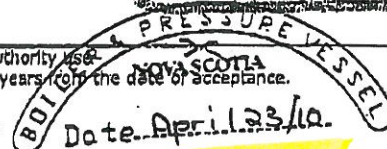
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C13732.5

FID#: 1704

Notes:

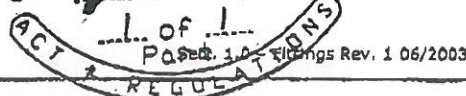
1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.



C.R.N. 0C13732.58

Dwg. as described

Signed Yvonne Perry



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Engineered Controls International, Inc.

MANUFACTURERS ADDRESS: 100 Rego Drive, Elon, North Carolina USA 27244

PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 27244

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

TITLE OF THE STANDARD OF CONSTRUCTION

UL, ASTM, & ASME

- A** Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
B Flanges: all flanges
C Valves: all line valves
D Expansion joints, flexible connections, and hose assemblies: all types
E Strainers, filters, separators, and steam traps
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H Pressure retaining components that do not fall into one of the above categories
N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

ECII or
REGO

TYPE OF CONSTRUCTION

FORGED ☒ WELDED ☐ WROUGHT ☐
 CAST ☒ OTHER ☐
 DESCRIBE OTHER:

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

Rego Product Catalogue L-500

DECLARATION:

I Darwin Gentile (see note 3) employed by Engineered Controls International, Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Darwin Gentile

Declared before me at Elon, North Carolina

This 7th day of April AD 2010

Commissioner of Oaths
or Notary Public: (sign) Patricia L. Hill



ACCEPTED

This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OC13732.5

FID#: 1704

Notes:

- All fittings shall be registered in the name of the Manufacturer.
- Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

PROVINCE OF PRINCE EDWARD ISLAND
DEPT. OF PROVINCIAL AFFAIRS

C.R.N. OC13732.59

DATE: Apr 23 2010

INSPECTION SERVICES DIVISION

BOILER/PRESSURE VESSEL REGISTRATION

NEWFOUNDLAND AND LABRADOR

DECLARATION:

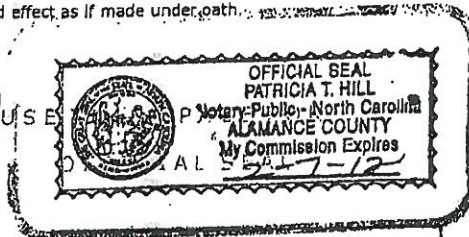
I, Darwin Gentile (see note 3) employed by Engineered Controls International, Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs. In whole or in part and has been verified by ISO 9001 as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Declared before me at

This 17th day

Commissioner of Oaths
or Notary Public: (sign)



This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date

CRN: 0C13732.5

FID#: 1704

Notes:

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

<p>34</p> <p>Newfoundland or acceptance Labrador</p>	<p>GOVERNMENT OF NEWFOUNDLAND AND LABRADOR</p> <p>Department of Government Services</p>
--	---

Registered OC 13732-50

Date 2010/4/23


GOVERNMENT OF INDIA
Engineering & Technology Services

Registered by

UNDER THE AUTHORITY OF THE
PUBLIC SAFETY ACT (AND)
Sect. 1.0 - Fittings Rev. 1/06/2003
THE BOILER, PRESSURE VESSEL AND
COMPRESSED GAS REGULATIONS

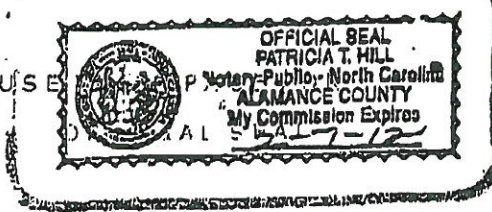
UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNSNEW BRUNSWICK
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Engineered Controls International, Inc.	
MANUFACTURERS ADDRESS: 100 Rego Drive, Elon, North Carolina USA 27244	
PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 27244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges <input checked="" type="radio"/> C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	TITLE OF THE STANDARD OF CONSTRUCTION UL, ASTM, & ASME TYPE OF CONSTRUCTION FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Rego Product Catalogue L-500	

DECLARATION:

I, Darwin Gentle (per ASME 3) employed by Engineered Controls International, Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect, as if made under oath.

Signature of Declarer: Darwin GentleDeclared before me at Elon North CarolinaThis TH day of April AD 2010Commissioner of Oaths
or Notary Public: (sign) Patricia L. Hill

This space for Regulatory Authority use
 This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C13732.5FID#: 1704**Notes:**

1. All fittings shall be registered in the name of the Manufacturer.
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

BOLLERS and PRESSURE VESSELS ACT REGISTERED CRN <u>0C13732.5N</u> Date <u>April 23, 2010</u> Signed <u>[Signature]</u> Sect. 1.0 - Fittings Rev. 1 06/2001 Chief Inspector	
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Engineered Controls International, Inc.	
MANUFACTURERS ADDRESS: 100 Rego Drive, Elon, North Carolina USA 27244	
PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 27244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	TYPE OF THE STANDARD OF CONSTRUCTION UL, ASTM, & ASME TYPE OF CONSTRUCTION FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Rego Product Catalogue L-500	

DECLARATION:

I, Darwin Gentile (see page 3) employed by Engineered Controls International, Inc. and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 as being suitable for the purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Darwin Gentile

Declared before me at Elon North Carolina

This 7th day of April AD 2010

Commissioner of Oaths
or Notary Public: (sign) Patricia L. Hill



CRN: <u>OC13732.5</u> FID#: <u>1704</u> Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance. REGISTERED UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT. C.R.N. <u>OC13732.5</u> SIGNED <u>Darwin Gentile</u> DATE <u>April 28, 2010</u> Sect. 1.0 - Fittings Reg. 1 06/2003
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\$150.00

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNSNEW BRUNSWICK
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

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PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 27244

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY

- A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
 B Flanges: all flanges
 C Valves: all line valves
 D Expansion joints, flexible connections, and hose assemblies; all types
 E Strainers, filters, separators, and steam traps
 F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
 G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
 H Pressure retaining components that do not fall into one of the above categories
 N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting CNSC or ASME requirements)

TITLE OF THE STANDARD OF CONSTRUCTION

UL, ASTM, & ASME

SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT

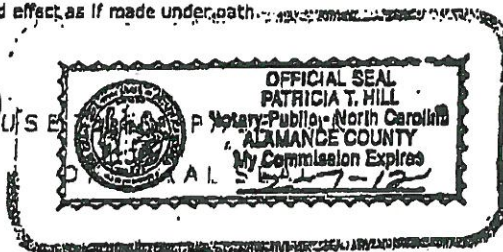
 or

TYPE OF CONSTRUCTION
 FORGED ☒ WELDED ☐ WROUGHT ☐
 CAST ☒ OTHER ☐
 DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

Rego Product Catalogue L-500

DECLARATION:

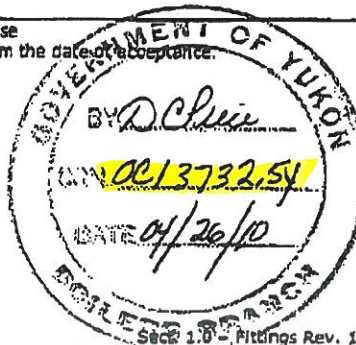
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or Notary Public: (sign) Patricia L. Hill

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 This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C13732.5FID#: 1704**Notes:**

- All fittings shall be registered in the name of the Manufacturer.
- Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.



2" & 3" Swing-Check ESVs for Bulk Plants 6016 Series and 6024 Series

Application

Designed for installation in liquid transfer lines at LP-Gas or Anhydrous Ammonia bulk plants to provide for quick shut-off of liquid or vapor flow in the event of an accidental pull-away, line break, or hose rupture.

Features

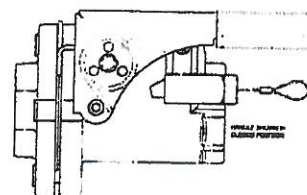
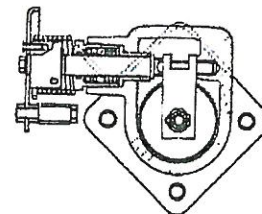
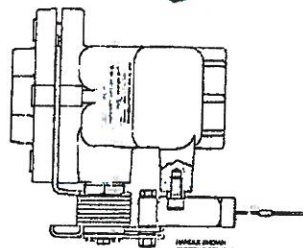
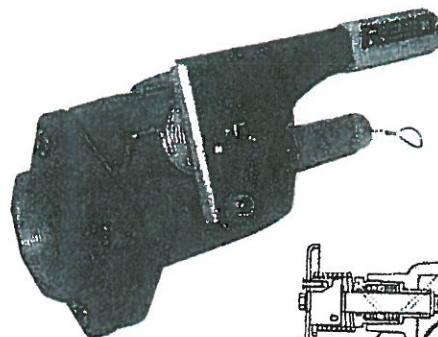
- Fusible Element is located in the thermal fuse assembly which acts at the latch open and close trigger. When exposed to fire, the element melts at 212 degrees F. allowing the shaft to return to the closed position.
- Valve can be opened by use of operating lever, if a pneumatic actuator is used it will open with the actuator.
- Valve can be closed by remote cable or pneumatic actuator.
- Valve can be closed by simply pushing the operating lever down, it is not necessary to trip the close trigger.
- Seat is metal protected to minimize leakage in case direct fire impingement.
- Straight through design allows for a liquid flow of 150 GPM (LPG) with only a 1 psig drop.
- Quick closing regardless if the pump is running or not.

Sturdy Rugged Construction

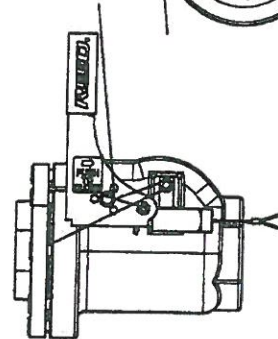
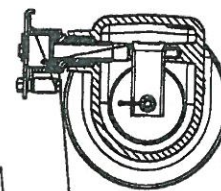
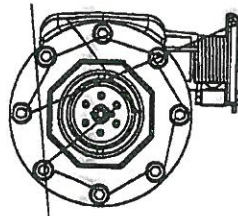
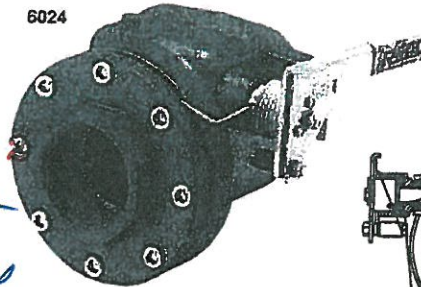
- Will withstand hydraulic shock or sudden line stop, piping strains, and temperature variations.
- Valve has only two moving parts, stem and close/heat trigger.
- 6016 is UL listed for use in LP-Gas as an emergency and operating shut-off valve.
- Stem seals are spring loaded for leak free performance at low temperatures/pressures.

Materials

Body Ductile Iron Cad Plated
Stem Stainless Steel
Seat Stainless Steel
Seat Disc (6016) High Temperature Viton
Seat Disc (AA6016) Synthetic Rubber
Springs Stainless Steel
Gaskets Teflon



6024



Ordering Information

Part Number	For Use With	Inlet and Outlet Connections	Liquid Flow Capacity at 10 PSIG Drop (GPM)
6016	LP-Gas	2" F-NPT	711 (LP-Gas)
AA6016	NH ₃	2" F-NPT	640 (NH ₃)
6024	LP-Gas	3" F-NPT	1325 (LP-Gas)
AA6024	NH ₃	3" F-NPT	1173 (NH ₃)

J10

Company: Engineered Control International Inc.

Fitting Category: C (check valves / shutoff valves)

Engineered Controls International, Inc. has Underwriters Laboratory (UL) Quality Management System.

Their Emergency Shut off Valves are designed per Underwriters Laboratory Standard UL-125 Flow Control Valves for Anhydrous Ammonia and LP-Gas, Section 18. UL-125 requires series of tests for Shut-off valves.

The valves for LP-Gas and Anhydrous Ammonia valves (with prefix AA) have identical designs (i.e. 6016 ~ AA6016; 6024 ~ AA6024; 6010 ~ AA6010). The difference between the Anhydrous Ammonia valves and the LP-Gas valves are as follows

1. The rubber compounds used in the Anhydrous Ammonia valves are Nitrite (Buna N) and the rubber compound used in the LP-Gas valves are Viton (for high temperature applications)
2. The bushing in the Anhydrous Ammonia valve is Rulon and the bushing in the LP-Gas Valve is brass.

Everything else is exactly the same between LP-Gas and Anhydrous Ammonia valves, therefore the test are only performed for one model.

The material used in the castings for these valves is Ductile Iron per ASTM A395 Grade 60-40-18. ECII buys the certified material from the vendor. Please see an example of material certification for detail.

Scope of Registration:

#	ECII Model	Size	Wall Thickness	Design Pressure
1	6016 (LP-Gas)	2"	0.37"	400psi
2	AA6016 (NH ₃)	2"	0.37"	400psi
3	6024 (LP-Gas)	3"	0.375"	400psi
4	AA6024 (NH ₃)	3"	0.375"	400psi
5	6010 (LP-Gas)	1 1/4 "	0.375"	400psi
6	AA6010 (NH ₃)	1 1/4 "	0.375"	400psi

