

ALLN: 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 Satety 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 070402 3

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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.safetvauthority.ca E-mail: info@safetvauthority.ca



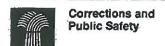


STATUTORY DECLARATION Registration of Fittings

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



(2)	Darwin Gentile	,	NE .		
	Chief Engineer				or
(com	pany title, e.g. vice president, plant mana	iger, chief engineer) (m	nust be in a position of aut	thority)	RESCI
of	Engineered Controls International, Inc				
-			f manufacturer)		
locat	ted at 100 Rego Drive Elon, Nort	h Carolina USA 272	44		
		(plan	t address)		
do so (chec	plemnly declare that the fittings listed ok one)	hereunder, which ar	re subject to the Safe	ety Codes Act	
\boxtimes	comply with the requirements of	UL, ASME, & AS	STM rth American Standard)	which specifie	s the dimensions,
	materials of construction, pressur	e/temperature rating	s and identification	marking of the f	ittings, or
	are not covered by the provisions	of a recognized Nort	th American standare	d and are theref	ore manufactured to
	comply with	as sup	ported by the attache	ed data which ic	lentifies the dimensions,
	materials of construction, pressure	temperature ratings	and the basis for su	ch ratings, and t	he marking of the fittings
	for identification.				
furth	her declare that the manufacture of th	ese fittings is contro	olled by a quality cor	trol program w	hich has been verified by the
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	wing authority, ISO 9001				ture of these fittings to the
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n sup Rego DECL prints print)	ARED before me at day of (A Commissioner for Oaths)	in the	PARICIAL SEAL APRICIAL SHALL APRICIA	ion, are Cata are attached:	ath Carole
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DECI or O to the totated or to the	d standard. The fittings covered by the oport of this application, the following Product Catalog L-500 LARED before me at day of day of (A Commissioner for Oaths) Commissioner for Oaths) Commissioner for Oaths)	in the	Phich I seek registratical lations and/or test day and/or test	sign ture of App	s Act and CSA Standard
DECL DECL DECL DECL DECL DECL DECL DECL	day of A Commissioner for Oaths) Clause 4.2, and is accepted for registre.	in the in the e application meets tation in Category	Phich I seek registratical lations and/or test day lations and lat	sion, are C ata are attached: Sign ture of App The Safety Code Administrator/Ch Expiry Date:	s Act and CSA Standard ief Inspector of Alberta)



Licensing and Inspections

Boiler & Pressure Vessel Safety 330 - 1855 Victoria Avenue REGINA, SK S4P 3T2

Page 2/2

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, <u>renzo.pupulin@csa-international.org</u>); 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

AND IMMIGRATION 500 – 401 York Avenue Winnipeg, Manitoba R3C 0P8



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a)	Design Qualification	
1	Darwin Gentile	_ (See Note 2)
	Chief Engineer	
		(Position e.g.: president, plant manager, chief eng.)
of	Engineered Controls l	
		(Name of company)
located	at 100 Rego Drive, Elon, Nor	rth Carolina USA 27244 (Plant Address)
do sole	maly declare that the fittings lister	d hereunder, which are subject to the Boilers & Pressure Vessels Act,
uo soic	,	
or	comply with all the requiremen	ats of the ANSI/ASME codes as to their dimensions.
	are not covered by the provision	ns of the ANSI/ASME codes, and are therefore constructed to comply with
	engineering practice, as shown	code or standard, and are designed to the best-current

(b)	Quality Control of Manufa	
I furthe	r declare the manufacture of these , and has been verified by the fo	fittings is controlled by a quality control program which complies with the requirements of <u>ISO</u> ollowing authority or authorized agency <u>Underwriters Laboratories, Inc.</u>
The fitt	ings covered by this declaration, for	or which I seek registration, areC Type Fittings
In suppo		rig information, calculations and/or test data are attached:
day of	dibefore me at E D AD 20 TO nissioner for oaths	in the province PATRICULA THING. ALAMANCE COUNTY My Commission Expires
Jul	Muant: Au	Signature of Declary
and CSA	lication is accepted for registration Standard B51. istration must be revalidated after	(For Official Use Only)
Register	ed Number CRN	Date: C.R.N.
Notes: (1) This		and by the president or highest official in the manufacturing plant where the future produced.

(2) Two completed copies of Statutory Declaration form together with two copies of Catalogs, drawing 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



	n Gentile
	Position of Chief Engineer)
or <u>En</u>	eered Controls International Inc. (Name of Manufacturer)
Located	100 Rego Drive Elon, North Carolina USA 27244 01 336 449-7707 01 336 449-6594
	(Plant Address) (Telephone #) (Fax #)
	Osolemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, 1000, 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) hich specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the things and service;
	are not covered by the provisions of a recognized North American standard and are therefore manufactured to mply with as supported by the attached data which identifies the nensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the ting for identification and service.
follows:	clare that the manufacture of these fittings is controlled by a quality system meeting the requirements of
	(drawings calculations test reports etc.)
the	fore me a Clamano O Cently in the OFFICIAL SHALL TO COUNTY day of Clagust AD 20 0 9 er for Oaths: 1 Class - Hill OFFICIAL SHALL TO COUNTY My Commission Expires 1 Class - 1- Hill OFFICIAL SHALL TO COUNTY My Commission Expires
Commiss Commiss (Printed r (Signature To the ber Technical and is acc CRN: Registered	FOR OFFICE USE ONLY Inches and Pressure Vessels and CSW SIANGHAD 10 CROSS TERED TO THE STATE OF

Statutory Declaration Registration of Fittings

(a) Design Qualification
Darwin Gentile (Name of applicant)
(Name of applicant)
Chief Engineer (Position eg, president, plant manager, chief eng.)
C tale T tare to T
of Ensineered Controls International, Inc.
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
, and has been verified by the following authority or authorized agency
The fittings ² covered by this declaration, for which I seek regisfration, are C type fitting
In support of the application, the following information, calculations and/or test data are attached: Reso Product Catagologue L-500 (DRAWING CALCULATIONS TEST REDORTS)
Declared before me at Colors of OFTIGHTS ACOID, AAGOIG, 6034, AAGOIA, 6010, AAGOIG, 6034, 60
The day of On Alamanor County
A (Commissioner to cost hs) 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 13 MAI

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

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

This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced:

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 US	5A 27244
PLANT LOCATIONS:100 Rego Drive, Elon, North Carolina USA 27244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE C A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps,	UL. ASTM. & ASMF
B Flanges: all flanges Valves: all line valves	
 Expansion joints, flexible connections, and hose assemblies: all types Strainers, fliters, separators, and steam traps Measuring devices, including pressure gauges, level gauges, sight glasses, le 	vels, or
pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pr boilers, pressure vessels, plping and fusible plugs	
H Pressure retaining components that do not fall into one of the above categori N Nuclear components: Class 1 \(\text{Class} \) 2 \(\text{Class} \) 3 \(\text{J} \) (Meeting CNSC or A	
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR O	N THE PRODUCT TYPE OF CONSTRUCTION
ECII.	FORGED S WELDED □ WROUGHT □ CAST S OTHER □ DESCRIBE OTHER:
REGO	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION	OF THE ACTUAL ITEMS TO BE REGISTERED:
Darwin Gentile (see note 3) employed by Engineered Controsponsibility for the quality of the end product do solemnly declare that the inform y knowledge represents the product for which registration is sought. The dimensimperature ratings, and identification markings are in accordance with the herein in the control of t	ons, materials of construction, pressure
these fittings is regulated by a Quality Control Program which extends to each plate in part and has been verified by <u>ISO 9001</u> as being suitable for the purpose claration conscientiously believing it to be true, and knowing that it is of the same	ant where fabrication occurs in whole and I make this solemn
gnature of Declarer: Elon A ottl Couler is 7 h day of April AD 2010	OFFICIAL SEAL PATRICIA T. HILL Notary Public. North Carolla ALAMANCE COUNTY My Commission Expires
Immissioner of Oaths Notary Public: (sign) Patricia Jell	BEUDSWICK DEPT OF PUBLIC SAFETY
This space for Regulatory Autho This registration must be revalidated after ten (10) year	rs from the date of acceptance.
RN: 0C13732.5	CRN OC 1313257
ID#: 1704	EXAMINED KREE C
otes: All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration	CHIEF BOILER INSPECTOR
rms and one copy of supporting documentation. The declaration shall be made by the person having full authority and	DATE: 04/21/10
sponsibility for the quality of the end product. Quality control programs shall be resubmitted for validation a maximum interval of five (5) years.	BERS. 10 Fitting 1 06/2003
	FITTINGS DOMPOWENTS

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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.

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

ngs Rev. 1 06/2003

MANUFACTURERS NAME: Engineered Controls International, Inc.	
MANUFACTURERS ADDRESS:100 Rego Drive, Elon, North Carolina USA 2	7244
PLANT LOCATIONS:100 Rego Drive, Elon, North Carolina USA 27244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATE	GORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, cloows, Ys, plugs, unions, pipe caps, or re	ducers UL, ASTM, & ASME
B Flanges: all flanges Ovalves: all flanges	. 1
D Expansion Joints, ficxibio connections, and hose assemblies: all types	
E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, pressure transmitters	or
G Certified capacity-rated pressure relief devices acceptable as primary over pressur boilers, pressure vessels, piping and fusible plugs	re protection on
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 SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS 2T WILL APPEAR ON THE	requirements) E PRODUCT TYPE OF CONSTRUCTION
SHOW MANUFACTURES NAME, TRADECIANO, OR EDGE AND THE SECOND STATES OF THE	FORGED & WELDED WROUGHT CAST OTHER
or	DESCRIBE OTHER:
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Rego Product Catalogue L-500	
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DECLARATION:	ř
I Darwin Gentile (************************************	ernational, Inc. and being the person having full authority and
my knowledge represents the product for which registration is sought. The dimensions, it	naterials of construction, pressure
remperature ratings, and identification markings are in accordance with the herein named of these fittings is regulated by a Quality Control Program which extends to each plant wh	standards. I further declare that the manufacture
or in part and has been verified by TSO 9001 as being suitable for the purpose and I	make this solemn
decigration conscientiously believing it to be true, and knowing that it is of the same force	and effect as if made under jobth
0.2	
Signature of Declarer:	OFFICIAL SEAL PATRICIA T. HILL PATRICIA T. HILL
Declared before me at CLOA 1 DUCCES	ADAMANCE COUNTY
This 7 h day of theil AD 2010 -	My Commission Expires
11115	
Commissioner of Oaths (Jaly Ca)	PRESIDENT ASSESSMENT OF THE PROPERTY OF THE PR
or Notary Public: (sign)	ORE SOUR
This space for Regulatory Authority As	
This registration must be revailed after ten (10) years (10)	the date of acceptance.
CRN: 0C13732.5	ate April 23/10.
FID#: 1704 C.R.N.	OC13739,58
Notes	recomb ped
1. All fittings shall be registered in the name of the Manufocturer. 2. Each category shall be supported with two Statutory Decigration	Manual Division of the Control of th
2. Each category shall be supporting documentation. 3. The declaration shall be made by the person having full authority and Signi	edforme Perry

NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT YUKON NORTHWEST TERRITORIES 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 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 Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs 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 TYPE OF CONSTRUCTION FORGED & WELDED WROUGHT OTHER | DESCRIBE OTHER: REGO LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: Rego Product Catalogue L-500 DECLARATION: 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 sultable 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: OFFICIAL SEAL PATRICIA T. HILL Public - North Carolina Declared before me at AMANCE COUNTY Commission Expires 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. PROVINCE OF PRINCE EDWARD ISLAND OC13732.5 DEPT. OF PROVINCIAL AFFAIRS 1704 FID#: Notes: DATE: 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.

INSPECTION SERVICES DIMERON

BOILER/PRESSURE, WES RELIGIOUS.

3. The declaration shall be made by the person having full authority and

4. Quality control programs shall be resubmitted for validation

responsibility for the quality of the end product.

at a maximum interval of five (5) years.

NEWFOUNDLAND AND LABRADOR

NEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAM	E: Engineered Control	s International, Inc.	
A second		on, North Carolina USA 27244	
PLANT LOCATIONS:100	Rego Drive, Elon, North	Carolina USA 27244	
CATEGORY OF FITT	INGS TO BE REGISTER	RED. CIRCLE ONE CATEGORY ONL	Y TITLE OF THE STANDARD OF CONSTRUCTION
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hallers pressure vesse	s, piping and fusible plugs conents that do not fall into o		
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REGD			
	DOCUMENTATION AND	DIDENTIFICATION OF THE ACTUA	AL ITEMS TO BE REGISTERED:
Rego Product Catalogue			
			1
DECLARATION:			
	(see note 3) employe	d by Engineered Controls International, I	nc. and being the person having full authority and
responsibility for the quality of	the end product do solemnly	declare that the information contained in its sought. The dimensions, materials of containing the boson of the dimensions of the dimension of the dimension of the dimension of the dimension of	construction, pressure
temperature ratings, and ident	ification markings are in acco	which extends to each plant where fabricati	on occurs in whole
or in part and has been verified	by ISO 9001 as being	suitable for the purpose and I make this so	olemn as if made under oath a range where a reserve of the control
declaration conscientiously bell	eving it to be true, and know	on the same to be and the same to be an all the same to be all	
Signature of Declarer:	S. S.		OFFICIAL SEAL PATRICIA T. HILL
Declared before me at	lon nott	Labera US E	MATTER STATE ALAMANCE COUNTY
MA 1	20110 m 20	-610	My Commission Expires
This day of	N I -	1 000	
Commissioner of Oaths	fallicia)	2 Dec 1	The state of the s
or Notary Public: (sign)			GOVERNMENT OF NEWFOUNDLAND
Th	This spa is registration must be revali	ace for Regulatory Authority use dated after ten (10) years from the date of	Pace Tanger AND LABRADOR
CRN: 0C13732.5	-	,	October of Gervices
FID#: 1704			Registered OC13132.50 Date2010 4 23
Notors	577		GOVERNMENT DE CENTRE
All fittings shall be registered Fach category shall be supp	pried with two Statutory Dec	cturer. claration	Engineering a 1 to paraller Services
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responsibility for the quality of 4. Quality control programs sh	the end product.		UNDER THE AUTHORITY OF THE
at a maximum interval of five (5) years.		THE ROITER PRESSURE VESSELAND
			COMPRESSED GAS REGULATIONS

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NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Engineered Controls International,	Inc.	
MANUFACTURERS ADDRESS: 100 Rego Drive, Elon, North Carol		
PLANT LOCATIONS: 100 Rego Drive, Elon, North Carolina USA 2	7244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE O		TITLE OF THE STANDARD OF CONSTRUCTION UL, ASTM, & ASME
A Pipe fittings, including couplings, taes, albows, Ys, pluys, unions, pipe B Flanges: all fleriges	caps, or reducers	
Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types		
F Strainers, filters, separators, and steam traps		
 Measuring devices, including pressure gauges, level gauges, sight glass pressure transmitters 		
3 Certified capacity-rated pressure relief devices acceptable as primary boliers, pressure vessels, piping and fusible plugs		
Pressure retaining components that do not fall into one of the above of	ategories	
Nuclear components: Class 1 1 Class 2 1 Class 3 1, (Marring Car MOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APP	EAR ON THE PRODUCT	TYPE OF CONSTRUCTION
		FORGED & WELDED WROUGHT
or or		DESCRIBE OTHER:
REGO		
IST OF SUPPORTING DOCUMENTATION AND IDENTIFICA	TION OF THE ACTUAL I	TEMS TO BE REGISTERED:
ego Product Catalogue L-500		7
LARATION: Danwin_Gentile (See Able 3) employed by Engineered	information contained in this imensions, materials of consi- jerein named standards. If full ach plant where fabrication of tupone and I make this solem	rither declare that the manufacture cocurs in whole
nature of Deciarer:	le	OFFICIAL SEAL PATRICIA T. HILL PATRICIA
lared before me at CON 1 2010	05	ATAMANCE COUNTY My Commission Expires
day of the last		
missioner of Oaths Jatricia 2 Hell	- Summer	Martines Service Servi
This space for Regulatory This registration must be revalidated after ten (1)	Authority use	J. J. W. V. U
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N: 0C13732.5	l is don	Pressuro Vessels Act
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is; Il fittings shall be registered in the name of the Manufacturer.	CRN OC I	3 (32.5N
ach category shall be supported with two Statutory Declaration is and one copy of supporting documentation.	Date Opr	1 23, 200
The declaration shall be made by the person having full authority and		100
Quality control programs shall be resubmitted for validation maximum interval of five (5) years.	Signed	jet. 1.0 - Fittings Rev. 1 06/2001

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APR/23/2010/FRI 09:54 AM ACI CENTRAL

FAX No. 902-5663133

P. 020

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING	DESIGNS	
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NEW BRUNSWICK NOVA SCOTIA P NUNAVUT YUKON N	DRTH	WEST TERRITORIES	THE DESIGNATION	_
MANUFACTURERS NAME: Engineered Controls Inte	mation	di, Inc.		
MANUFACTURERS ADDRESS:100 Rego Drive, Blon, No	orth Ca	rolina USA 27244		
PLANT LOCATIONS:100 Rego Drive, Elon, North Carol	ina US	27244		
CATEGORY OF FITTINGS TO BE REGISTERED.	CTRCL	ONE CATEGORY ONLY	THE OF THE STANDARD OF CONSTRUCTION	
A Pipe fittings, including couplings, tees, albows, Ys, plugs, u B Flanges: all flanges	inlons,	ope caps, or reducers	UL, ASTM, & ASME	
Valves: all line valves D Expension joints, flexible connections, and hose assemblish	e all to	reng *		
E Strainers, filters, separators, and steam trans				
F Measuring devices, including pressure gauges, level gauges pressure transmitters	- 1	S .		
G Certified capacity-rated pressure ratef dayloss acceptable a bollers, pressure vessels, piping and fusible plugs	s primi	y over pressure protection on		
be avecame estainted companyors that do not fall into one of t	he abo	p categories		
N Nuclear components: Class 1 Class 2 Class 3 C. (N SHOW MANUFACTURERS NAME, TRAPEMARK, OR LOGO AS IT	will.	APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION	
FIII			PORCED & WELDED WROUGHT	
or			Describe otheri	
LIST OF SUPPORTING DOCUMENTATION AND IDE	MTTEV	CATTON OF THE ACTUAL I	TEMS TO BE REGISTERED:	
	NIAFA	VATION DE TITE DELLEGEA	A PART OF THE PROPERTY OF THE PARTY OF THE P	
Rego Product Catalogue L-500				
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			1	
DECLARATION:	- []			
I Darwin Gentile (100 and product do solemnly decided by responsibility for the quality of the and product do solemnly decide	ngine	and Controls International, Inc.	and being the person having full authority a form is man and to the bast of	ŋd
my knowledge represents the product for which registration is don temperature ratings, and identification markings are in accordance of these fittings is regulated by a Quality Control Program which a				
of these fittings is requisited by a Quality Control Program which a or in part and has been verified by 150 9001 as baing suitable declaration conscientiously believing it to be true, and knowing the	e for the	e purpose and I make this solem If the same force and offect as if	umaga muqistidagir - Attititating interest (A.M.). U	lo.
Decimand convenience and the party of	n			1
Signature of Declarer:			OFFICIAL SEAL PATRICIA T. HILL	
Declared before me at Elon A ottk	_0	Wen Us of M	P Schene Public North Carolina	}
778 ROLL 201	511		My Commiccion Expires	6
This day of the				}
Commissioner of Oaths Latricia 2 =	XX		THE RESIDENCE OF THE PARTY OF T	
or Notary Public: (sign)	-	- Carlotte	A distribution of the second	450,00
This space for This registration must be revalidated t	Regulat	tory Authority use		730,00
This registration must be revailulated to	arcer pa	<i>"</i>	The state of the s	
LRIV:		Ů	NDER THE AUTHORITY OF HE BOILER AND PRESSURE	
FID#: 1704		1	VESSEL ACT.	
	,	1 0	R.N. OC/3732157	
Notes: 1. All fittings shall be registered in the name of the Manufacturer.	_		GNED ANTAL MINOSON	
2. Each category shall be supported with two Spitutory Deglaration	*n		ATE OFFICE SELECTION	
3. The declaration shall be made by the person having full authors	ity a ha	_		
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.		9	Sect. 1.0 - althoge Dev. 1 05/2003	
or a maximum iniciade at tide (5) Jenist	_			

NEW BRUNSWICK

NOVA SCOTTA

BD/3330243

PRINCE EDWARD ISLAND

NEWFOUNDLAND AND LABRADOR

NUNAVUT	YUKON	NORTHWEST TERRITORIES	
MANUFACTURERS NA	ME: Engineere	d Controls International, Inc.	
MANUFACTURERS AD	DRESS:100 Rego	Drive, Elon, North Carolina USA 27244	-
PLANT LOCATIONS:10	00 Rego Drive, Eld	on, North Carolina USA 27244	**************************************
CATEGORY OF FX	TINGS TO BE R	EGISTERED, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
B Flanges: ali flanges Valves: ali lina valves		nows, Ys, plugs, unions, pipe caps, or reducers . I hose assembiles; all types	UL, ASTM, & ASME
E Strainers, filters, separ			
F Measuring devices, including pressure transmitters	uding pressure gaug	ges, level gauges, sight glasses, levels, or	
G Certified capacity-rated bollers, pressure vess		ices acceptable as primary over pressure protection on ic plugs	
		fall into one of the above categories	1
		Class 3 [], (Meeting CNSC or ASME requirements), OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
ECII. or			PORGED & WELDED () WROUGHT () CAST (B) OTHER () DESCRIBE OTHER:
REGO			
IST OF SUPPORTING	DOCUMENTATE	ON AND IDENTIFICATION OF THE ACTUAL	TEMS TO BE REGISTERED:
tego Product Catalogue	L-500		
CLARATION:		,	
knowledge represents the	the end product do product for which re	employed by <u>Engineered Controls International</u> . Inc. solemnly declare that the information contained in this gistration is sought. The dimensions, materials of consider in accordance with the herein named standards. If	; form is true and to the best of struction, pressure

I Darwin Gentile responsibility for the quality of t					having full authority and he best of
my knowledge represents the pr temperature ratings, and identif	oduct for which registration icetion markings are in acco	is sought. The dimen	sions, materials of c named standards.	construction, pressure I further declare that the	
of these fittings is regulated by a or in part and has been verified	by ISO 9001 as being s	suitable for the purpose	e and I make this so	lemn	
deciaration conscientiously believ	ring it to be true, and knowl	ing that it is of the san	ne force and effect a	is if made under path	TANK TO SERVICE TO SERVICE STATES OF THE SER
Signature of Declarer:	5		, 1		FICIAL SEAL TRICIA T. HILL
Declared before me at	lon nott	R Calle	→ UIS E	P YOUTEP	ibiloy-North Carolina

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 accordance

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.

Sect 1.8 - Attings Rev. 1 06/2003

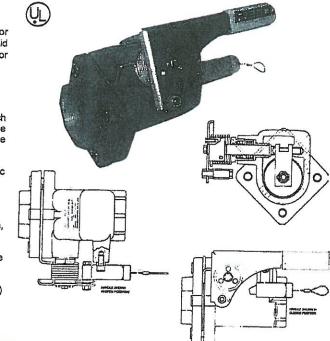
2" & 3" Swing-Check ESVs for Bulk Plants 6016 Series and 6024 Series

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

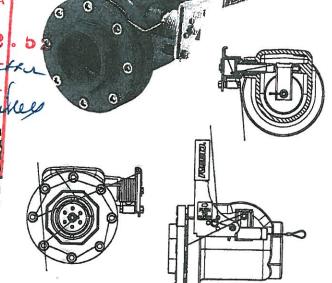
- Will withstand hydrache shook of source Manager Spring sering and temperature variations.
- Valve has only two moving parts, stem and the
- 6018 GI RATIONON OSe in LP-Gas as an emergency and of erating shut-off valve. SEE #CCEPTQUA
- DWG. NO or CAT DOGS for leak free performance at low temperatures/pressures.

Materials

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Ductile Iron Cad Plated Staioless Steel MILLAGRY DESIGN SUPPERSONAL PERSONAL PE Seat Stalkle B Breel Seat Disc (6016)..... Seat Disc (AA6016) Synthetic Rubber Springs Gaskets.





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	NH3	3" F-NPT	1173 (NH ₃)

6024

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

- 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
		г	·	
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)	11/4 "	0.375	400psi
6	AA6010 (NH ₃)	11/4 "	0.375	400psi

OC13732.54 C.R.N.