

## Celebrating 20 years 1995 - 2015

9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

November 09, 2015

Attention: Catherine Diplock

PRESSURE VESSEL ENGINEERING INC

120 RANDALL DRIVE SUITE B WATERLOO, ON N2V 1C6

The design submission, tracking number 2015-07602, originally received on October 23, 2015 was surveyed and accepted for registration as follows:

CRN: 0F07450.2 Accepted on: November 09, 2015

Reg Type: Addition to Acc. Fitting

Drawing No.: 20140970, 20140971 Rev 0

Expiry Date: November 09, 2025

Fitting type: PROBE ASSEMBLY

MAWP = 10342 KPA @ -29/250 DEG.C

Design registered in the name of : ARJAY ENGINEERING LTD

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

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 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.

Sincerely,

RADISAVLJEVIC, ZANA, R.E.T.

Zaua Padisarljevid





## STATUTORY DECLARATION Registration of Fittings

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



	PRESIDER			
(company title, e	.g. vice president, plant man	ager, chief engineer) (must	be in a position of authority)	
of Arjay Eng	neering Ltd.			
		(name of ma	anufacturer)	
located at 2	851 Brighton Road, Oakville,	Ontario L6H 6C9		
		(plant ad	dress)	
do solemnly de (check one)	clare that the fittings liste	d hereunder, which are s	subject to the Safety Coo	les Act
☐ comply	with the requirements of		whic	h specifies the dimensions,
		(title of recognized North A		
	ds of construction, pressu	re/temperature ratings a	nd identification markir	g of the fittings, or
x are not	covered by the provisions	of a recognized North	American standard and	are therefore manufactured to
comply	with ASME Section VIII D	iv.1 as suppor	rted by the attached data	which identifies the dimensions,
materia	ls of construction, pressur	re/temperature ratings an	nd the basis for such rati	ngs, and the marking of the fittings
for idea	ntification.			
I further declar	e that the manufacture of	hese fittings is controlle	d by a quality control p	rogram which has been verified by th
following author				
tonowing amin	onty, ANAB		as being suitable for the	manufacture of these fittings to the
		San S - 3 - 5 - 5		
	The fittings covered by	this declaration, for which		
stated standard	The fittings covered by a six application, the following		ch I seek registration, ar	e Probe mounted level switch
stated standard		ng information, calculat	ch I seek registration, ar	e Probe mounted level switch
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stated standard In support of th	is application, the followi	ng information, calculat	ch I seek registration, ar ions and/or test data are	e Probe mounted level switch attached:
In support of the DRAWINGS: 20	efore me at CAK VIL	ng information, calculate TIONS: 9585c-Probe Assem	ch I seek registration, ar ions and/or test data are	e Probe mounted level switch attached:
In support of the DRAWINGS: 20	efore me at Oak HK	ng information, calculat	ch I seek registration, ar ions and/or test data are	e Probe mounted level switch attached:
stated standard In support of th	efore me at CAK VIL	ng information, calculate TIONS: 9585c-Probe Assem	ch I seek registration, are ions and/or test data are obly	e Probe mounted level switch attached:
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DECLARED b this	efore me at Oak HK	in the Manner of Year)	ch I seek registration, are ions and/or test data are obly	e Probe mounted level switch attached:
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DECLARED by this	efore me at CAK VIC day of O nmussioner for Oaths)	in the	ch I seek registration, are ions and/or test data are obly	e Probe mounted level switch attached:
DECLARED by this	efore me at CAK VIC  day of O  number of Oaths)  Only  ny knowledge and belief,  and is accepted for regis	in the	ch I seek registration, are ions and/or test data are ibly  See Figure 1. Seek registration, are ions and/or test data are ibly  (Signal Signal Signa	e Probe mounted level switch attached:  of On TANCO  pure of Applicant)

## **British Columbia**



505 - 6th Street, Suite 200 New Westminster, BC V3L 0E1

> Toll Free: 1-866-566-SAFE Fax: (778) 396 - 2064 www.safetyauthority.ca

PRESSURE VESSEL ENGINEERING 120 RANDALL DRIVE WATERLOO ON N2V 1C6 Date: December 7, 2015

Account #: 45363 Journal #: 64168 Our File #: 5565800

Attn: CATHERINE DIPLOCK

Re: Application for Design Registration

The design, as detailed in your, PVE-9585, for a Fitting is accepted for registration as follows:

Registered To: ARJAY ENGINEERING LIMITED CRN: 0F07450.21

MDMT: -20 deg F

MAWT: 482 deg F

MAWP: 1500 psig

Drawing #: 20140970, 20140971

Drawing Revision: 0

#### Conditions Of Registration:

Registration of standard and heavy duty probe assemblies.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

#### Reviewer's Notes:

As required by CSA B51 4.2.1, this registration expires on November 09, 2025. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

#### SHARON PETERS

boiler.designregistration@safetyauthority.ca Design Administration

CC:

## Manitoba



Inspection and Technical Services Manitoba

500 - 401 York Avenue Winnipeg Manitoba R3C 0P8 T (204) 945-3373 F (204) 948-2309 www.firecomm.gov.mb.ca/codes\_steam\_pressure.html

January 18, 2016

Pressure Vessel Engineering 120 Randall Dr. Suite B Waterloo, ON N2V 1C6

Attn: Catherine Diplock

#### REGISTRATION OF VALVES AND FITTINGS

Manufacturer: ARJAY ENGINEERING LIMITED

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
Probe Assembly Dwg: 20140970 & 20140971 REV.0	0F07450.24	36063

### An invoice covering survey and registration fees is enclosed.

NOTE: CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: ABSA. This registration expires November 9, 2025.

This registration is valid until the indicated expiry date 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.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Yours truly

Rvan Orlesky, C.E.T.

Design Surveyor

Office of the Fire Commissioner

Inspection and Technical Services Manitoba

500 - 401 York Avenue

Winnipeg, Manitoba, R3C 0P8

Phone: 204-945-3373

Email: ryan.orlesky@gov.mb.ca

# **MANITOBA**

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



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a) Design Qualification
(See Note 2)  PRESIDENT
(See Note 2)
PRESIDENT
(Position e.g.: president, plant manager, chief eng.)
of Arjay Engineering Ltd.
(Name of company)
located at2851 Brighton Road, Oakville, Ontario L6H 6C9
(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  ASME Section VIII Div.1 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, and has been verified by the following authority or authorized agencyANAB
In support of the application, the following information, calculations and/or test data are attached:  DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly
Declared before me at OAKWILE in the province/state of CONTRAIS the 15-K
day of Colored AD 20  A (commissioner for eaths)  Signature of Declarer
The application is accepted for registration in Category in accordance with the Boilers and Pressure Vessels Act and CSA Standard 201.
This registration must be revalidated after ten (10) years from the date of acceptance.  **DOVEMBEL 9, 1015**
Registered Number CRN ØFØ7450.24 For the Chief Inspector  Date: JAN 18, 2016

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

# New Brunswick

# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

EW BRUNSWICK UNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAM	E: Arjay Engineering Ltd.		
	RESS: 2851 Brighton Road, O	akville, Ontario L6H 6C9	
PLANT LOCATIONS:			
		ED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
B Flanges: all flanges C Valves: all fine valves D Expansion joints, flexib E Strainers, filters, separat Measuring devices, incl pressure transmitters G Certified capacity-rated boilers, pressure vesse	le connections, and hose asser ators, and steam traps luding pressure gauges, level g	auges, sight glasses, levels, or able as primary over pressure protection on	ASME Section VIII Div.1
		(Meeting CNSC or ASME requirements)	
		OGO AS IT WILL APPEAR ON THE PRODUC	T IYPE OF CONSTRUCTION
ЛF	ENGINEERING	SEE NO IN THE PRODUC	FORGED & WELDED & WROUGHT CAST & OTHER COESCRIBE OTHER.
LIST OF SUPPORTING	OCUMENTATION AND IDEN	TIFICATION OF THE ACTUAL ITEMS TO BE F	REGISTERED:
	20140971 CALCULATIONS: 958		
esponsibility for the qua ny knowledge represent emperature ratings, and manufacture of these fitt or in part and has been	ality of the end product do so ts the product for which regi I identification markings are lings is regulated by a Quali verified by ANAB	yed by Arjay Engineering Ltd. and be contained and stration is sought. The dimensions, mater in accordance with the herein named standly Control Program which extends to each as being suitable for	ned in this form is true and to the best of ials of construction, pressure dards. I further declare that the plant where fabrication occurs in whole that purpose and I make this solemn.
eclaration conscientiou	isly believing it to be true, and	nd knowing that it is of the same force and	effect as if made under oath.
eclared before me at	CARVILLE, KAT	ZLO USETHI	S SPACE FOR
his 13 days	of Conference AD	- F. C	ICIAL TEN
r Nolary Public (sign)			
		his space for Regulatory Authority use evalidated after ten (10) years from the dat	e of acceptance of
CRN: 0F07450		DEP	OF PUBLIC SAFETY PRESSURE VESSEL ACT
FID#: 1524	9		GISTRATION ONLY
Each category shall be forms and one copy of start of the declaration shall responsibility for the quality for the qualit	ms shall be resubmitted for val	ufacturer. CRN. Declaration  full authority and EXAMINE idation  CHIE	OF07450.27A
		DATE:	BLRs D PVs
			TTHES COMPONENTS

# Newfoundland and Labrador

# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

ANUFACTURERS ADDRESS: 2851 Brighton Road, Oakville, Ontario L6H 6C9	
ANT LOCATIONS:	
CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
Pipe fittings, including couplings, teas, elbows, Ys, plugs, unions, pipe caps, or reducers Flangas: all flangas Valves: all flangas Strainers, filters, separators, and steam traps Measuring davices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters 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 fail into one of the above categories Nuclear components: Class 1 □ Class 2 □ Class 3 □, (Meeting CNSC or ASME requirements)	ASME Section VIII DIV.1
OW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
ARJECTION OF LOGO AS 1) WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION FORGED & WELDEO & WROUGHT D CAST & OTHER D DESCRIBE OTHER:
ST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE RE	CIGYEOGE
CLAPATION:	
ponsibility for the quality of the end product do solemnly declare that the information contains knowledge represents the product for which registration is sought. The dimensions, material inperature ratings, and identification markings are in accordance with the herein named standardure of these fillings is regulated by a Quality Control Program which extends to each principle in part and has been verified by ANAB as being suitable for the claration conscientiously believing it to be true, and knowing that it is of the same force and extends to the same force and the same force and the same force are same force are same force and the same force are same force are same force and the same force are same force	ed in this form is true and to the best of its of construction, pressure ards. I further declare that the tant where fabrication occurs in whole ball purpose and I make this solemn
and be appossibility for the quality of the end product do solemnly declare that the information contained in the product for which registration is sought. The dimensions, material imperature ratings, and identification markings are in accordance with the herein named standardure of these fillings is regulated by a Quality Control Program which extends to each print part and has been verified by ANAB as being suitable for the claration conscientiously believing life be true, and knowing that it is of the same force and expenditure of Declare.	ed in this form is true and to the best of its of construction, pressure ards. I further declare that the tant where fabrication occurs in whole ball purpose and I make this solemn
aponsibility for the quality of the end product do solemnly declare that the information contains y knowledge represents the product for which registration is sought. The dimensions, material imperature ratings, and identification markings are in accordance with the herein named stand anufacture of these fillings is regulated by a Quality Control Program which extends to each print and has been verified by ANAB as being sultable for the eclaration conscientiously believing it to be true, and knowing that it is of the same force and elignature of Declaration and the eclaration conscientions are the eclaration conscientions.  U.S.E.T.H.I.S.	ed in this form is true and to the best of its of construction, pressure ards. I further declare that the tant where fabrication occurs in whole ball purpose and I make this solemn
ponsibility for the quality of the end product do solemnly declare that the information contains knowledge represents the product for which registration is sought. The dimensions, material inperature ratings, and identification markings are in accordance with the herein named standardiacture of these fillings is regulated by a Quality Control Program which extends to each principal part and has been verified by ANAB as being sultable for the claration conscientiously believing lite be true, and knowing that it is of the same force and expenditure of Declaration and the same force and expensive the same force and the same force	ed in this form is true and to the best of its of construction, pressure ards. I further declare that the stant where fabrication occurs in whole bal purpose and I make this solemn ffect as if made under oath.

Nova Scotia

NEW BRUNSWICK

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT YUKON NORTHWEST TERRITORIES MANUFACTURERS NAME: Arjay Engineering Ltd. MANUFACTURERS ADDRESS: 2851 Brighton Road, Oakville, Ontario L6H 6C9 PLANT LOCATIONS: CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION A Pipe fittings, including couplings, leas, albows, Ys, plugs, unions, pipe caps, or reducers ASME Section VIII DIv.1 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 plasses, levels, or erestimenant eruseeriq G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fueible 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 HAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED OF WELDED OD WAGUGHT ID CAST 90 OTHER ID DESCRIBE OTHER: LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED; DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly Probe mounted level switch DECLARATION: REEVES (1000 rote 1) employed by Arjay Engineering Ltd. 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 littings 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 ANAS as being sullable for that 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 path. Signature of Declares USETHIS SPACE FOR ... 95號 OFFICIAL STAL hisregistration This space for Regulatory Authority use must be revalidated after ten (10) years from the 135 of acceptance.

FID#:

1. All fittings shall be registered in the name of the Manufacturer.

15249

2. Each calegory 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 and product.

4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

of Part LLATSect. 1.0 - Fillings Rev. 1 06/2003

## Nunuvit

# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW	BRUN	SWICE
ALC TAX Y	V. (1 1-90	

NOVA SCOTIA

PRINCE EDWARD ISLAND

NEWFOUNDLAND AND LABRADOR

Territorial Registration Fee

JNAVUT	YUKON NOR	THWEST TERRITORIES	
MANUFACTURERS NAME:	Arjay Engineering Ltd.		
ANUFACTURERS ADDRES	SS. 2851 Brighton Road, Oakville, Ontari	lo L6H 6C9	
LANT LOCATIONS:			
	TTINGS TO BE REGISTERED. CIRCLE		TITLE OF THE STANDARD OF CONSTRUCTION
3 Flanges: all flanges 3 Valves: all line valves 5 Expansion Joints, flexible c 5 Strainers, filters, separator 6 Measuring devices, includi- 6 pressure transmitters 6 Cortified capacity-rated pre- 6 bollers, pressure vessels, 6 Pressure retaining compore	ng pressure gauges, lovel gauges, sight g essure relief devices acceptable as primal	plasses, levels, or ry over pressure protection on e categories	L,viC IIIV noitoe2 SM2A
	IAME, TRADEMARK, OR LOGO AS IT V		LYPE OF CONSTRUCTION
AR,	JAY ENGINEERING	THE PRODUCT	FORGED & WELDER & WROUGHT OF CAST % OTHER & OCESORIBE OTHER:
IST OF SUPPORTING DOC	CUMENTATION AND IDENTIFICATION	OF THE ACTUAL ITEMS TO BE BE	GISTERS D.
ny knowledge represents to emperature ratings, and id nanulacture of these fitting r in part and has been ver	of the end product do solemnly decine product for which registration is stentification markings are in accordance is regulated by a Quality Control Prified by ANAB believing it to be true, and knowing	lare that the information containe tought. The dimensions, material nice with the herein named standartogram which extends to each plas being suitable for the that it is of the same force and elements.	s of construction, pressure ards, I further declare that the ant where fabrication occurs in whole all purpose and I make this science.
nie 75 hadayat	CLIFORM AD POIST		ICIAL ELEV
ominis pre-editorile Naturille (egn) =		Regulatory Authority use	
Each category shall be s forms and one copy of supp 3. The declaration shall be responsibility for the quality	made by the person having full authority of the end product. s shall be resubmitted for validation		NUNAVUT  Boilers and  Pressure Vessels Act  GISTERED  7450-2 N Add  4 Scalaro Fillings Rev. 1 06/20
		10/4 24/2	MANUA
		C	hietInspector
			/

## Northwest Territories

NEWFOUNDLAND AND LABRADOR

DILLE OF THE STANDARD OF CONDICTION

ASME Section VIII DIV.1

C.R.N. OF07450 17

SIGNED

## UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NUNAVUT YUKON NORTHWEST TERRITORIES MANUFACTURERS NAME: Arjay Engineering Ltd. MANUFACTURERS ADDRESS: 2851 Brighton Road, Oakville, Ontario L6H 6C9 PLANT LOCATIONS: 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 Flonges: all flanges C Valvos: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps pressure transmitters bollers, pressure vessels, piping and fucible plugs Probe mounted level switch

responsibility for the quality of the and product.

at a maximum interval of five (5) years.

4. Quality control programs shall be resubmitted for validation

F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or G Cartified capacity-rated pressure relief devices acceptable as primary over pressure 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 requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED & WELDED & WROUGHT O CAST W OTHER LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly DECLARATION: GREZ toco now s) employed by Arlay Engineering Ltd. 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 hordin 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 ANAB as boing sullable for that 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. Declared before the at 2 USETHIS SPACE FOR THE 10/5 H OFFICIAL STAL al bisiregistration This space for Regulatory Authority uso must be revalidated after ten (10) years from the date of acceptance ADD 15249 FIDH: Northwest Territories REGISTERED Notes: UNDER THE AUTHORITY OF 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration THE BOILER AND PRESSURE forms and one copy of supporting documentation. 3. The declaration shall be made by the parson having full authority and VESSEL ACT.

## Ontario



14th Froor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Tel.: 416.734.3300 Fax: 416.231.1625 Toll Free: 1.877.692.8772

www.tssa.org

January 19, 2016

CATHERINE DIPLOCK
PRESSURE VESSEL ENGINEERING LTD.
120 RANDALL DR SUITE B
WATERLOO ON N2V 1C6
CA

Service Request Type: BPV-Fitting Registration

Service Request No.: 1763914 Your Reference No.: PVE-9585

Registered to: ARJAY ENGINEERING LTD

Dear CATHERINE DIPLOCK,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN: 0F07450.25

Main Design No.: 2014097

20140970 REV 0, 20140971 REV 0

Expiry Date: 09-Nov-2025

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Kaivan Kia P. Eng., PMP Mechanical Engineer, BPV

Tel.: 416-734-3457 Fax: 416-231-6183 Email: <u>kkia@tssa.org</u>



**TECHNICAL STANDARDS &** SAFETY AUTHORITY 14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario

Canada M8X 2X4

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

## STATUTORY DECLARATION

	anager, Chief Engineer)
Arjay Engineering Ltd.	
(Name of Manufacture	7)
ocated at 2851 Brighton Road, Oakville, Ontario L6H 6C9	905.829.2418 ext. 228
(Plant Address)	(Telephone No.) (Fax No.)
do solemnly declare that the fittings listed hereunder, which are sub and Pressure Vessels Regulation, comply with all of the requirement	
(Title of recognized North American	Standard)
which specifies the dimensions, materials of construction, pressure/tempe	
or are not covered by the provisions of a recognized North America  ASME Section VIII Div.1  pressure/temperature ratings and the basis for such ratings, the mark  arther declare that the manufacture of these fittings is controlled by a qual	data which identifies the dimensions, material of constructioning of the fitting for identification and service.
ISO 9001:2008 which has been verified by the following authority, _ ANAB_	ny system meeting the requirements of
e items covered by this declaration, for which I seek registration, are category	F type fittings. In support
s application, the following information and/or test data are attached as follows:	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly	
(drawings, calculations, test rej	ande etc.
clared before me at	PROUNCE OF CATALIO
James F. De Cosimo	
mmissioner for Oaths:  Sames F. De Cosumo  (Printed namo)  (Signaturo)	PROUNCE of ONTIXIO
(Rignature)  FOR OFFICE USE of the best of my knowledge and belief, the application meets the requirement	PROUNCE of CAMALIO  (Signature of Declarer)  ONLY s of the
the best of my knowledge and belief, the application meets the requirement chnical Standards and Safety Act, Boilers and Pressure Vessels Regulation	PROUNCE of CAMALIO  (Signature of Declarer)  ONLY s of the
Sames f. De Cosimo  (Prínted namo)  (Signaturo)  FOR OFFICE USE (	PROUNCE of CAMALIO  (Signature of Declarer)  ONLY s of the
the best of my knowledge and belief, the application meets the requirement chnical Standards and Safety Act, Boilers and Pressure Vessels Regulation A Standard B51 and is accepted for registration in Category  OF 07450.25	(Signature of Declarer)  ONLY s of the ion, and
the best of my knowledge and belief, the application meets the requirement chnical Standards and Safety Act, Boilers and Pressure Vessels Regulation A Standard B51 and is accepted for registration in Category  OFO7450.25	(Signature of Declarer)  ONLY softhe ion, and  OFO. 7.450.2
the best of my knowledge and belief, the application meets the requirement chnical Standards and Safety Act, Boilers and Pressure Vessels Regulation in Category  N:  OFO7450.25  gistered by:  K. Kan	(Signature of Declarer)  ONLY s of the sion, and  OFO. 7.450. 2

## **Prince Edward Island**

## UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

ANLIEACT IDEDS NAME			
AND FACI DICENS TONINE.	Arlay Engineering Ltd.		
ANUFACTURERS ADDRESS	S: 2851 Brighton Road, O	akville, Ontario L6H 6C9	
ANT LOCATIONS:			
CATEGORY OF FIT	TINGS TO BE REGISTER	ED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
Flanges: all flanges Valves: all fine valves Expension Joints, flaxible co. Strainers, filters, separators, Measuring devices, including pressure transmitters Certified capacity-rated pres boilers, pressure vessels, pi	nnections, and hose asser, and steam traps g prossure gauges, level g ssure relief devices accept liping and fusible plugs	auges, sight glasses, levels, or	ASME Section VIII Div.1
Pressure retaining compone			
		(Meeting CNSC or ASME requirements)	and the same of th
AR)	CHICHELING	OCO AS IT WILL APPEAR ON THE PRODU	POROED & WELDED D WROUGHT D CAST NO OTHER D DESCRIBE OTHER
ST OF SUPPORTING DOCL	MENTATION AND IDEN	TIFICATION OF THE ACTUAL ITEMS TO BE	RECISTERED:
DRAWINGS: 20140970, 2014	40971 CALCULATIONS: 956	SSc-Probe Assembly	
Probe mounted level switch			
ponsibility for the quality of knowledge represents the perature ratings, and idea nufacture of these fittings in part and has been verifi-	of the end product do so e product for which regi ntification markings are its regulated by a Quali led by ANAB	yed by Arlay Engineering Ltd. and olemnly declare that the information contributation is sought. The dimensions, mate in accordance with the herein named staily Control Program which extends to each as being suitable for	alned in this form is true and to the bast of erials of construction, pressure andards. I further declare that the th plant where fabrication occurs in whole or that purpose and I make this solemn
ponsibility for the quality of knowledge represents the perature ratings, and identification of these fittings in part and has been verificaration conscientiously because of Declarer:	of the end product do so a product for which regintification markings are its regulated by a Qualified by ANAB belloving it to be true, and	olemnly declare that the Information contribution is sought. The dimensions, material accordance with the herein named stately Control Program which extends to each as being suitable for the same force and the same force a	alned in this form is true and to the bast of erials of construction, pressure andards. I further declare that the th plant where fabrication occurs in whole or that purpose and I make this solemn and effect as if made under oath.
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at a maximum interval of five (5) years.

Sed. 1.0 - Fruinga Rav. 1 06/2003



Direction de l'inspection des appareils sous pression

February 23, 2016

Mrs. Catherine Diplock 120 Randall Dr., Suite B Waterloo ON Canada N2V 1C6

Type of device: PROBE ASSEMBLIES

Manufacturer: ARJAY ENGINEERING LTD.

2851 BRIGHTON ROAD OAKVILLE ONTARIO CANADA L6H 6C9

Dear Madam,

According to our law respecting pressure vessels, your design has been reviewed and registered as follows:

CRN Nº: 0F07450.26 Our reference No.: 956924

Your reference No.: PVE-9585

Main Design No.: 20140970; 20140971

Note: If the CRN is a five digit number following the letter and start with a 0, the 0 is not

considered to be an integral part of the CRN.

Yours truly,

Carmine Campana

Inspecteur autorisé (e) Direction de l'inspection de la fabrication d'appareils sous pression

Montréal 545, boul. Crémazie Est, 7º Montréal (Québec) H2M 2V2 Téléphone: (514) 864-8480

Télécopieur : (514) 873-9929



# Statutory Declaration Registration of Fittings

(Position eg, president, plant manager, chief eng.)	
OfArjay Engineering Ltd.	
(name of company)	
Located at 2851 Brighton Road, Oakville, Ontario L6H 6C9	
(plant address)	
do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:	
<ul> <li>comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification or required:</li> </ul>	& service for which are
	ASME Section VIII Div
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	n by the supporting test
data.	n by mis supporting test
(b) Quality control of Manufacture	
further declare the manufacture of these fittings is controlled by a quality control program which complies with the	e requirements of
ISO 9001:2008, and has been verified by the following authority or authorized agencyANAB	
The fittings <sup>2</sup> covered by this declaration, for which I seek registration, are Probe mounted level switch	
In support of the application, the following information, calculations and/or test data are attached:	
In support of the application, the following information, calculations and/or test data are attached:  DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly  Declared before me at	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly  Declared before me at	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly  Declared before me at	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly  Declared before me at	
Declared before me at OAKVILLE  In the of Ronnes of ONTMIN  The 15th Day of Service AD 19 305	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly  Declared before me at	
Declared before me at OAKVILLE  In the of Ronnes of ONTMIN  The 15th Day of Service AD 19 305	~
Declared before me at	

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.

## Saskatchewan



2202 2nd Avenue Regina, SK S4R 1K3 Canada (306) 787-1443 info@tsask.ca www.tsask.ca

## REGISTRATION OF FITTING DESIGN

11-Jan-16

Pressure Vessel Engineering 120 Randall Drive, Suite B Waterloo, Ontario N2V 1C6

ATTENTION: Catherine Diplock

File Number: 10001 [ 0 F]

With reference to your submission respecting the registration of the item below, for legal use in the province, please note we have surveyed and registered this design in accordance with The Boiler and Pressure Vessel Act.

MANUFACTURER:	Arjay Engineering Limited
CATALOG OR DRAWING: 201409	70, 20140971 Rev. 0/0
ITEM: Probe Assembly	CRN: OF07450.23

We wish to point out that every fitting must be constructed strictly in accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1. The date of expiry for this registration is **November 09, 2025.** 

Sincerely,

Liting (Frank) Huang, Engineer-in-Training

Codes and Standards Compliance

REMARKS: CRN registered under reciprocal agreement and conditional upon compliance

with the notes on the original ABSA registration dated November 09, 2015.



2202 2nd Ave. Regina, SK S4R 1K3 PH: (306)798-7112 Toll Free: (866)530-8599 FAX: (306)787-9273 Toll Free: (866)760-9255 Email: boilerpermits@tsask.ca Website: www.tsask.ca

## Statutory Declaration (Registration of Filings)

100 March 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			TSK-10
Declaration	Information		
	GREG REEVES		In this space, show facsimile of
	PRESIDENT		I ADIAY ILW
(must be in a	company title, e.g. vice president, plant mana, position of authority in the manufacturing plan	ger, chief engineer) nt where the fitting is produced)	ENGINEERING
Arjay Engineer			
	(name of manufacture		
	851 Brighton Road, Oakville, Ontario L6H 6C Plant Address – Apl/Street)	(City,Prov)	15 4 16 13
solemnly decla	are that the fittings listed hereinung ct (check one)		(Postal Code) atchewan Boiler and Pressure
O Comply wi	th the requirements of	which	ch specifies the dimensions,
	(title of recog	nized North American Standard)	
	of construction, pressure / tempera		
	vered by the provisions of a recogn	nized North American standard an	
	with ASME Section VIII Div.1	• • •	as supported by the attached
	identifies the dimensions, materia		erature ratings and the basis
	tings, and the marking of the fitting		
	hat the manufacturer of these fittin	경기 가는 마음이 그렇게 되면 보이는 사이에게 되었다.	220 145 145 154 apr
	lowing authority, ANAB		ng suitable for the manufacturer
Probe mounted lev	the stated standard. The fittings	covered by this declaration, for wh	ich I seek registration, are
riobe induited iei	ver switch		
Declaratio			
CLARED befo	re me at OAKULE	In the PRUNNIE	of enmio
s /5	day of DCTUBER	, 2015	
Jan	les F. De Cosimo	5	
(print name)		(Signature)	
10: 11:	A C		
(Signature of Comm	issioner of Oaths)		
Office Use			al and the same of
the best of my k	nowledge and belief, the application n	neets the requirements of the Boiler a	nd Pressure Vessel Safety Act and
A Bo I, Clause	-2, and is accepted for registration in (	17 / 11	09 Nov. /2075
(Registration Numb	Technical Safety Authority of Saskatchewan	(Date Registered – MM DD YYYY)	(Expiry Date – MM DD YYYY)
100	Boiler & P.V. Safety Unit	(For the Administrator / Chief Inspector)	Sand of Source and Lands Sand
	CRN 0F 07450.23		200
	(0,20)		TSK-1 Rev. 09/2
			Page 1
	REGISTERED		
	n. i.		

Design Survey Office

## Yukon

# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW	BRUNSWIC	H
NIMA		•

X

NOVA SCOTIA

PRINCE EDWARD ISLAND

NEWFOUNDLAND AND LABRADOR

MONTHAREST TERRITORIES	
MANUFACTURERS NAME: Arjay Engineering Ltd.	
MANUFACTURERS ADDRESS: 2851 Brighton Road, Oakville, Ontario L6H 6C9	
PLANT LOCATIONS:	
CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or roducers 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 C Certified capacity-rated pressure reflet devices acceptable as primary over pressure protection on boilers pressure pressure.	ASME Section VIII Div.1
	1
H Pressure relaining 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
ARJAY ENGINEERING	FORGED ON WELDED OD WARDHOM' LI CAST 30 OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE RE	
DRAWINGS: 20140970, 20140971 CALCULATIONS: 9585c-Probe Assembly	GISTERED:
Probe mounted level switch	
DECLARATION:    Comparison of the quality of the end product do solemnly declare that the information contained by the product for which registration is sought. The dimensions, material temperature ratings, and identification provides as the product of the prod	d in this form is true and to the best of
manufacture of these fittings is regulated by a Quality Control Program which extends to each pl	irds. I further declare that the ant where fabrication occurs in whole
Signature of Declarar	
Declared before the and a william Knowled	
The state of the s	SPACE FOR
Compression Control of the Control o	CTAL BRAL
This space for Regulatory Authority use  This space for Regulatory Authority use must be revalidated after ten (10) years from the date.	pl acceptance.
FID#: 15249	07420,27400
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.	12/3/11
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	RS BRA