

## EU CERTIFICATE OF CONFORMITY

### In accordance with the requirements of the Pressure Equipment Directive 2014/68/EU and the Pressure Equipment (Safety) Regulations 2016, UK Statutory Instrument 2016 No.1105

This is to certify that the Quality Management System of:

**Flexcon Industries  
300 Pond Street,  
Randolph, MA 02368 USA**

has been assessed against the requirements of Annex III, Module D of the Pressure Equipment Directive 2014/68/EU, and Schedule 4, Module D of the Pressure Equipment (Safety) Regulations 2016 and conforms to the requirements for the products shown below:

### **Pre-Pressurized Vessels and Utility Vessels (See attached schedule)**

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and Regulations, and continuing to comply with the EU Type Examination Certificate(s) as listed on the attached schedule.

Authorisation is hereby given to use the LRV Notified Body Identification Number in accordance with the requirements of the specified Directive and Regulations in relation to the products as identified above.

Certificate No: 0038/PED/20040012/I  
Original Approval: 24 April 2007  
Current Certificate: 31 December 2019  
Certificate Expiry: 12 October 2020  
LRV Notified Body Number 0038



P. Mintzaridis on behalf of Lloyd's Register Verification

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

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## EU CERTIFICATE OF CONFORMITY CERTIFICATE 0038/PED/20040012/I SCHEDULE

**In accordance with the requirements of the Pressure Equipment  
Directive 2014/68/EU and the Pressure Equipment (Safety)  
Regulations 2016, UK Statutory Instrument 2016 No.1105**

**Flexcon Industries  
300 Pond Street,  
Randolph, MA 02368 USA**

<b>Products</b>	<b>Certificate Number</b>	<b>Issuing Notified Body</b>	<b>Expiry Date</b>
	<b>Global Water Solutions Types - Steel</b>		
MUPA types – Steel Diaphragm Expansion Vessels	0038/PED/HOU/NAO0302020/K	Lloyd's Register Verification 0038	15 November 2024
MUPN types – Steel Diaphragm Expansion Vessels	0038/PED/HOU/NAO0302020/K	Lloyd's Register Verification 0038	15 November 2024
MUFA types – Steel Diaphragm Flow Through Expansion Vessels	0038/PED/HOU/NAO0302020/K	Lloyd's Register Verification 0038	15 November 2024
	<b>Global Water Solutions Types - Composite</b>		
CUPA types – Composite Fiber-Wound Diaphragm Expansion Vessels	0038/PED/20040012/H	Lloyd's Register Verification 0038	23 April 2027
CUFA types – Composite Fiber-Wound Flow Through Diaphragm Expansion Vessels	0038/PED/20040012/H	Lloyd's Register Verification 0038	23 April 2027
CUTA types – Composite Fiber-Wound Utility Vessels	0038/PED/20040012/J	Lloyd's Register Verification 0038	18 May 2029
CUTS types – Composite Fiber-Wound Utility Vessels	0038/PED/20040012/J	Lloyd's Register Verification 0038	18 May 2029
	<b>Grundfos Types - Steel</b>		
GT-D types – Steel Diaphragm Expansion Vessels	0038/PED/HOU/NAO0302020/K	Lloyd's Register Verification 0038	15 November 2024
GT-DF types – Steel Diaphragm Flow Through Expansion Vessels	0038/PED/HOU/NAO0302020/K	Lloyd's Register Verification 0038	15 November 2024
	<b>Grundfos Types - Composite</b>		
GT-C types – Composite Fiber-Wound Diaphragm Expansion Vessels	0038/PED/20040012/H	Lloyd's Register Verification 0038	23 April 2027
GT-CF types – Composite Fiber-Wound Flow Through Diaphragm Expansion Vessels	0038/PED/20040012/H	Lloyd's Register Verification 0038	23 April 2027
GT-CA types – Composite Fiber-Wound Utility Vessels	0038/PED/20040012/J	Lloyd's Register Verification 0038	18 May 2029
GT-CS types – Composite Fiber-Wound Utility Vessels	0038/PED/20040012/J	Lloyd's Register Verification 0038	18 May 2029

Schedule Issue: 09

Date of Schedule Issue: 31 December 2019

LRV Notified Body Number 0038



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P. Mintzaridis on behalf of Lloyd's Register Verification

## EU TYPE EXAMINATION CERTIFICATE PRODUCTION TYPE

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of:  
The Pressure Equipment Directive 2014/68/EU;  
The Pressure Equipment (Safety) Regulations 2016, UK Statutory Instrument 2016 No.1105, did  
(in accordance with Module B of the Directive) undertake a Type Examination on the stated  
pressure equipment to ensure its conformity with the requirements of the Directive which apply  
to it. The equipment identified below was shown to comply.

This certificate is issued to:

**APPLICANT:** Flexcon Industries  
300 Pond Street  
Randolph, MA 02368, USA

**PRODUCT DESCRIPTION:** Pre-Pressurized Diaphragm Steel Expansion Vessels

**PRODUCT TYPE:** Pressure Vessels

**DESIGN STANDARD:** ANSI/WSC (Water System Council) PST2000:2014  
Pressurized Water Tank Standard

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form a part of this certificate.

**"This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LRV of any modification or changes to the equipment in order to maintain a valid certificate."**

**"This certificate is valid for ten years from the date of issue."**

Certificate No: 0038/PED/HOU/NAO0302020/K

Original Approval: 16 November 2004

Current Certificate: 14 March 2017

Certificate Expiry: 15 November 2024

LRV Notified Body Number 0038



P. Mintzaridis on behalf of Lloyd's Register Verification

**EU TYPE EXAMINATION CERTIFICATE  
PRODUCTION TYPE (MODULE B)  
Flexcon Industries  
Pre-Pressurized Diaphragm Steel Expansion Vessels  
CERTIFICATE NO. 0038/PED/HOU/NAO0302020/K SCHEDULE**

**Equipment data**

<b>GLOBAL WATER SOLUTIONS</b>						
Base Item	Type (potable) no RCP		Description	Liter	Gallon	Pressure Rating (bar)
GCB-100LV	MUPA-100-10		100 liter tank	100	26.4	10
GCB-130LV	MUPA-130-10		130 liter tank	130	34.3	10
GCB-200LV	MUPA-200-10		200 liter tank	200	52.8	10
GCB-250LV	MUPA-250-10		250 liter tank	250	66.0	10
GCB-300LV	MUPA-300-10		300 liter tank	300	79.3	10
GCB-325LV	MUPA-325-10		325 liter tank	325	85.9	10
GCB-450LV	MUPA-450-10		450 liter tank	450	118.9	10
GCB-60LV	MUPA-60-10		60 liter tank	60	15.9	10
GCB-80LV	MUPA-80-10		80 liter tank	80	21.1	10
GCN-35GV	MUPN-130-8.6		130 liter tank	130	34.3	8.6
GCN-50GV	MUPN-200-8.6		200 liter tank	200	52.8	8.6
GCN-60GV	MUPN-250-8.6		250 liter tank	250	66.0	8.6
GCN-80GV	MUPN-300-8.6		300 liter tank	300	79.3	8.6
GCN-120GV	MUPN-450-8.6		450 liter tank	450	118.9	8.6
GCN-20GV	MUPN-80-8.6		80 liter tank	80	21.1	8.6
GCN-25GV	MUPN-100-8.6		100 liter tank	100	26.4	8.6
GFU-170LV	MUFA-170-8.6		170 liter tank	170	44.9	8.6
GFU-325LV	MUFA-325-8.6		325 liter tank	325	85.9	8.6
GFU-80LV	MUFA-80-8.6		80 liter tank	80	21.1	8.6
<b>GRUNDFOS</b>						
Base Item	Type (potable) no RCP	Type (Grundfos liter V)	Description	Liter	Gallon	Pressure Rating (bar)
GCB-GFS-130LV	MUPA-130-10	GT-D-130 V	130 liter tank	130	34.3	10
GCB-GFS-200LV	MUPA-200-10	GT-D-200 V	200 liter tank	200	52.8	10
GCB-GFS-240LV	MUPA-250-10	GT-D-240 V	250 liter tank	250	66.0	10
GCB-GFS-300LV	MUPA-300-10	GT-D-300 V	300 liter tank	300	79.3	10
GCB-GFS-450LV	MUPA-450-10	GT-D-450 V	450 liter tank	450	118.9	10
GCB-GFS-80LV	MUPA-80-10	GT-D-80 V	80 liter tank	80	21.1	10
GCN-GFS-60GV	MUPA-250-8.6	GT-D-60GV	60 gallon tank	250	66.0	8.6
GCN-GFS-80GV	MUPA-310-8.6	GT-D-80GV	80 gallon tank	300	79.3	8.6
GCN-GFS-120GV	MUPA-450-8.6	GT-D-120GV	120 gallon tank	450	118.9	8.6
GFU-GFS-80LV	MUFA-170-8.6	GT-DF-170 V	170 liter tank	170	44.9	8.6
GFU-GFS-170LV	MUFA-325-8.6	GT-DF-325 V	325 liter tank	325	85.9	8.6
GFU-GFS-325LV	MUPA-80-8.6	GT-DF-80 V	80 liter tank	80	21.1	8.6

The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 2014/68/EU and following Design Code(s):

ANSI/WSC (Water System Council) PST2000:2014 Pressurized Water Tank Standard

### Technical File Contents

<b>Title</b>	<b>Document Number</b>	<b>Date</b>
Design Technical File	PED 004 TCF, Rev. A	14 December 2016 & 17 January 2017
01 Organizational Chart, 02 Scope, 03 Revision Log, 04 General Description, 05 Category of the Product, 06 Manufacturing Drawing, 07 Design Calculations, 08 Bill of Materials, 09 PMAs, 10 Weld Testing, 11 Declaration of Conformity, 12 Product Technical Bulletin, 13 Risk Assessment/Hazard Checklist of Pressure Equipment, 14 ESR Checklist		

### LR Reports

<b>Title</b>	<b>Document Number</b>	<b>Date</b>
Design Appraisal Document Certificate of Inspection	NAO0302020/001/SMR, Issue No 03 NAO0302020/01	25 January 2017 19 April 2004

Schedule Issue: 02  
Date of Schedule Issue: 14 March 2017  
LRV Notified Body Number 0038



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P. Mintzaridis on behalf of Lloyd's Register Verification

## EU TYPE EXAMINATION CERTIFICATE PRODUCTION TYPE

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of:  
The Pressure Equipment Directive 2014/68/EU;  
The Pressure Equipment (Safety) Regulations 2016, UK Statutory Instrument 2016 No.1105, did (in accordance with Module B of the Directive) undertake a Type Examination on the stated pressure equipment to ensure its conformity with the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

**APPLICANT:** Flexcon Industries  
300 Pond Street  
Randolph, MA 02368, USA

**PRODUCT DESCRIPTION:** CUPA, CUFA, GT-C & GT-CF Fiber-Wound Composite Pre-Pressurized Diaphragm Expansion Tanks

**PRODUCT TYPE:** Pressure Vessels

**DESIGN STANDARD:** ANSI/WSC (Water System Council) PST2000:2014  
Pressurized Water Tank Standard and  
ASME Code, Section X; 2004 Edition + Add 2006

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form a part of this certificate.

**"This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LRV of any modification or changes to the equipment in order to maintain a valid certificate."**

**"This certificate is valid for ten years from the date of issue."**

Certificate No: 0038/PED/20040012/H  
Original Approval: 24 April 2007  
Current Certificate: 23 April 2017  
Certificate Expiry: 23 April 2027  
LRV Notified Body Number 0038



P. Mintzaridis on behalf of Lloyd's Register Verification

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**EU TYPE EXAMINATION CERTIFICATE  
PRODUCTION TYPE (MODULE B)  
Flexcon Industries  
CUPA, CUFA, GT-C & GT-CF Fiber-Wound Composite Pre-  
Pressurized Diaphragm Expansion Tanks  
CERTIFICATE NO. 0038/PED/20040012/H SCHEDULE**

**Equipment data**

GLOBAL WATER SOLUTIONS							
Base Item	Type	Type (potable) no RCP		Description	Liter	Gallon	Pressure Rating (bar)
C2B-60	C2B-60LV	CUPA-60-8.6		60 liter tank	60	15.85	8.6
C2B-80	C2B-80LV	CUPA-80-8.6		80 liter tank	80	21.13	8.6
C2B-100	C2B-100LV	CUPA-100-8.6		100 liter tank	100	26.42	8.6
C2B-130	C2B-130LV	CUPA-130-8.6		130 liter tank	130	34.34	8.6
C2B-200	C2B-200LV	CUPA-200-8.6		200 liter tank	200	52.83	8.6
C2B-250	C2B-250LV	CUPA-250-8.6		250 liter tank	250	66.04	8.6
C2B-300	C2B-300LV	CUPA-300-8.6		300 liter tank	300	79.25	8.6
C2B-350	C2B-350LV	CUPA-350-8.6		350 liter tank	350	92.46	8.6
C2B-450	C2B-450LV	CUPA-450-8.6		450 liter tank	450	118.88	8.6
C2B-60	CFB-60LV	CUFA-60-8.6		60 liter tank	60	15.85	8.6
C2B-80	CFB-80LV	CUFA-80-8.6		80 liter tank	80	21.13	8.6
C2B-350	CFB-150LV	CUFA-150-8.6		150 liter tank	150	39.63	8.6
C2B-200	CFB-200LV	CUFA-200-8.6		200 liter tank	200	52.83	8.6
GRUNDFOS							
Base Item	Type	Type (potable) no RCP	Type (Grundfos liter V)	Description	Liter	Gallon	Pressure Rating (bar)
C2B-60	C2B-60LV	CUPA-60-8.6	GT-C-60 V	60 liter tank	60	15.85	8.6
C2B-80	C2B-80LV	CUPA-80-8.6	GT-C-80 V	80 liter tank	80	21.13	8.6
C2B-100	C2B-100LV	CUPA-100-8.6	GT-C-100 V	100 liter tank	100	26.42	8.6
C2B-130	C2B-130LV	CUPA-130-8.6	GT-C-130 V	130 liter tank	130	34.34	8.6
C2B-200	C2B-200LV	CUPA-200-8.6	GT-C-200 V	200 liter tank	200	52.83	8.6
C2B-250	C2B-250LV	CUPA-250-8.6	GT-C-250 V	250 liter tank	250	66.04	8.6
C2B-300	C2B-300LV	CUPA-300-8.6	GT-C-300 V	300 liter tank	300	79.25	8.6
C2B-350	C2B-350LV	CUPA-350-8.6	GT-C-350 V	350 liter tank	350	92.46	8.6
C2B-450	C2B-450LV	CUPA-450-8.6	GT-C-450 V	450 liter tank	450	118.88	8.6
C2B-60	C2B-60LV	CUFA-60-8.6	GT-CF-60 V	60 liter tank	60	15.85	8.6
C2B-80	C2B-80LV	CUFA-80-8.6	GT-CF-80 V	80 liter tank	80	21.13	8.6
C2B-130	C2B-150LV	CUFA-150-8.6	GT-CF-150 V	150 liter tank	150	39.63	8.6
C2B-200	C2B-200LV	CUFA-200-8.6	GT-CF-200 V	200 liter tank	200	52.83	8.6

The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 2014/68/EU and following Design Code(s):



ANSI/WSC (Water System Council) PST2000:2014 Pressurized Water Tank Standard and ASME Code, Section X; 2004 Edition + Add 2006

**Technical File Contents**

Title	Document Number	Date
Design Technical File	PED 002FW Design Technical File Doc. #1 Rev. A	14 December 2016 & 17 January 2017

1 General Description, 2 Revision Log, 3 Scope, 4 Category of the Product, 5 Manufacturing Drawings & Specifications, 6 Bill of Materials, 7 PMAs, 8 Procedural Specifications, 9 Design Calculations, 11 Declaration of Conformity, 12 Product Technical Bulletin, 13 ESR Checklist, Risk Assessment/Hazard Checklist of Pressure Equipment

**LR Reports**

Title	Document Number	Date
Design Appraisal Document	COV0711034/CCW, Issue 2	21 July 2008
Design Appraisal Document	NAO0302020/002/BRG, Issue 3	25 January 2017
Certificate of Inspection	NAO0302020/003	07 December 2006
Inspection Certificate	NAO0302020/5	21 April 2017

Schedule Issue: 03  
 Date of Schedule Issue: 23 April 2017  
 LRV Notified Body Number 0038



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 P. Mintzaridis on behalf of Lloyd's Register Verification

## EU TYPE EXAMINATION CERTIFICATE PRODUCTION TYPE

This is to certify that Lloyd's Register Verification, a Notified Body under the terms of:  
The Pressure Equipment Directive 2014/68/EU;  
The Pressure Equipment (Safety) Regulations 2016, UK Statutory Instrument 2016 No.1105, did (in accordance with Module B of the Directive) undertake a Type Examination on the stated pressure equipment to ensure its conformity with the requirements of the Directive which apply to it. The equipment identified below was shown to comply.

This certificate is issued to:

<b>APPLICANT:</b>	<b>Flexcon Industries 300 Pond Street Randolph, MA 02368, USA</b>
<b>PRODUCT DESCRIPTION:</b>	<b>CUTA, CUTS, GT-CA &amp; GT-CS Fiber-Wound Composite Utility Vessels</b>
<b>PRODUCT TYPE:</b>	<b>Pressure Vessels</b>
<b>DESIGN STANDARD:</b>	<b>ANSI/WSC (Water System Council) PST2000:2016 Pressurized Water Tank Standard and ASME Code, Section X: 2017 Edition</b>

The attached Schedule details the content of the Technical Documentation and Specified Standards and shall form a part of this certificate.

**"This Certificate is not valid for pressure equipment, the design, ratings or operational parameters of which have been varied from the specimen tested. The manufacturer shall notify LRV of any modification or changes to the equipment in order to maintain a valid certificate."**

**"This certificate is valid for ten years from the date of issue."**

Certificate No: 0038/PED/20040012/J  
Original Approval: 19 May 2009  
Current Certificate: 31 December 2019  
Certificate Expiry: 18 May 2029  
LRV Notified Body Number 0038



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P. Mintzaridis on behalf of Lloyd's Register Verification

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**EU TYPE EXAMINATION CERTIFICATE  
PRODUCTION TYPE (MODULE B)  
Flexcon Industries  
CUTA, CUTS, GT-CA & GT-CS Fiber-Wound Composite Utility  
Vessels  
CERTIFICATE NO. 0038/PED/20040012/J SCHEDULE**

**Equipment data**

<b>GLOBAL WATER SOLUTIONS</b>						
Base Item	Type (potable) no RCP		Description	Liter	Gallon	Pressure Rating (bar)
CUB-115LV	CUTA-115-6.9		115-liter tank	115	30.38	6.9
CUB-150LV	CUTA-150-6.9		150-liter tank	150	39.63	6.9
CUB-300LV	CUTA-300-6.9		300-liter tank	300	79.25	6.9
CUB-450LV	CUTA-450-6.9		450-liter tank	450	118.88	6.9
CSN-150LV	CUTS-150-6.9		150-liter tank	150	39.63	6.9
CSN-300LV	CUTS-300-6.9		300-liter tank	300	79.25	6.9
CSN-450LV	CUTS-450-6.9		450-liter tank	450	118.88	6.9

<b>GRUNDFOS</b>						
Base Item	Type (potable) no RCP	Type (Grundfos liter V)	Description	Liter	Gallon	Pressure Rating (bar)
CUB-GFS-115LV	CUTA-115-6.9	GT-CA-115 V	115-liter tank	115	30.38	6.9
CUB-GFS-150LV	CUTA-150-6.9	GT-CA-150 V	150-liter tank	150	39.63	6.9
CUB-GFS-300LV	CUTA-300-6.9	GT-CA-300 V	300-liter tank	300	79.25	6.9
CUB-GFS-450LV	CUTA-450-6.9	GT-CA-450 V	450-liter tank	450	118.88	6.9
CSN-GFS-150LV	CUTS-150-6.9	GT-CS-150 V	150-liter tank	150	39.63	6.9
CSN-GFS-300LV	CUTS-300-6.9	GT-CS-300 V	300-liter tank	300	79.25	6.9
CSN-GFS-450LV	CUTS-450-6.9	GT-CS-450 V	450-liter tank	450	118.88	6.9

The undermentioned documents have been reviewed for compliance with the Pressure Equipment Directive 2014/68/EU and following Design Code(s):

ANSI/WSC (Water System Council) PST2000:2016 Pressurized Water Tank Standard and  
ASME Code, Section X: 2017 Edition

**Technical File Contents**

**Title**

Design Technical File  
1 General Description, 2 Revision Log, 3  
Scope, 4 Category of the Product, 5

**Document Number**

PED 002FWUT Rev. B

**Date**

20 May 2019

Manufacturing Drawings & Specifications, 6  
Bill of Materials, 7 PMAs, 8 Procedural  
Specifications, 9 Design Calculations, 11  
Declaration of Conformity, 12 Product  
Technical Bulletin, 13 ESR Checklist, Risk  
Assessment/Hazard Checklist of Pressure  
Equipment

### LR Reports

Title	Document Number	Date
Design Appraisal Document	9003216-DAD, Issue 2	17 April 2009
Design Appraisal Document	NAO0302020/003/GVG, Issue 1	14 August 2019
Certificate of Inspection	NAO0302020/006	09 April 2009
Inspection Certificate	PRJ11100228131	23 October 2019

Schedule Issue: 06

Date of Schedule Issue: 31 December 2019

LRV Notified Body Number 0038



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P. Mintzaridis on behalf of Lloyd's Register Verification