



COVER PAGE

CRN 0C24483.5

The following products/components and sub-assemblies are covered by the
CRN (*Canadian Registration Number*)

Products and sub-assemblies covered:

Type Designation	Incl. sub-assembly
SVA-140B FIA-140B	

Special conditions for use apply as follows:

Applicable for	Special condition	Applies for



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

March 30, 2023

DANFOSS A/S
NORDBORGVEJ 81 E15 N6
NORDBORG SOUTHERN JUTLAND 6430

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 8254958

Your Reference No.: see CRN approval doc pack of SVA-140B, FIA-140B - Refrigeration Components

Registered to: DANFOSS A/S

Dear BIN ZHANG,

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

CRN : 0C24483.5

Main Design No.: Scope for CRN Registration(SVA-140B(Shut-off valve), FIA-140B(Strainer valve)), General Description

Expiry Date: Mar 30, 2033

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

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, 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,

Amir Hariri P.Eng.
Engineer, BPV
Tel. : +1 416-734-3461
Email : ahariri@tssa.org

June 19, 2023

Attention: Cecylia Garbacz
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, Tracking Number 2023-02416, Web Portal Number 2023-S1361, originally received on April 14, 2023 was surveyed and accepted for registration as follows:

CRN : 0C24483.52 **Accepted on:** June 19, 2023
Reg Type: NEW DESIGN **Expiry Date:** March 30, 2033
Drawing No. : SCOPE OF CRN REGISTRATION FOR DANFOSS COMPONENTS
Fitting type: SVA-140B(SHUT-OFF VALVE)/FIA-140B(STRAINER VALVE)
Design registered in the name of : DANFOSS A/S

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

*** See attached for scope of registration and a list of manufacturing locations*

*** Only the valve cover and valve housing(body) are pressure retaining components*

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is ASME B31.5.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.*
- 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 or AB-351 Declaration of Conformity form.*
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, 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.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,



POON, ASHLING, P. Eng.
DOP Cert. No. D00007936

Montréal, 15 mai 2023.

MADAME CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Fabricant : DANFOSS A/S
81 NORDBORGVEJ
NORDBORG SOUTH DENMARK
DENMARK 6430

Numéro de dossier : 946005
Numéro(s) de dessin(s) : Scope refrigeration Components

Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0C24483.56**.

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Bureau d'expertise et d'homologation en équipements sous pression

Montréal
545, boul. Crémazie Est, 7ième étage
Montréal (Québec) H2M 2V2
Téléphone : 514 873-6459
Sans frais : 1 866 262-2084
www.rbq.gouv.qc.ca

Montréal, le 15 mai 2023.

MRS. CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Manufacturer : DANFOSS A/S
81 NORDBORGVEJ
NORDBORG SOUTH DENMARK
DENMARK 6430

OUR REFERENCE : 946005
Design number : Scope refrigeration Components

Subject: Design registration confirmation

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0C24483.56.**

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each equipment manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

545, boul. Crémazie Est, 7ième étage
Montréal (Québec) H2M 2V2
Téléphone : 514 873-6459
Sans frais : 1 866 262-2084
www.rbq.gouv.qc.ca

Statutory Declaration Registration of Fittings

Building Act (B-1.1)
 Regulation respecting pressure vessels (B-1.1, r. 6.1)
 Boiler, pressure vessel, and pressure piping code (CSA B51)

This declaration **must** be filled out and sent to the Régie du bâtiment du Québec (RBQ) by pressure fitting manufacturers when they make an application registration for fittings.

For more information on the application registration for fittings, consult the www.rbq.gouv.qc.ca/fittings-pv.

1. Fittings to register

List the fittings included in this declaration and that you wish to register.

N°	Description	Additional information (detail, calculations or approval sheets)
1	Shut off ball valve	DOC PACK OF SVA-140B,FIA-140B
2		
3		
4		
5		

2. Declaration of the person in charge

The person in charge is someone in a position of authority, such as a vice-president, a plant manager or a chief engineer.

2.1 Design

I, the undersigned, Bin Zhang Senior Approval Specialist
 (Name of the person in charge) (Title of the person in charge)

from Danfoss A/S, located at Nordborgvej 81, 6430, Nordborg, Denmark
 (Company's name) (Plant's address)

hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:

☒ comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose
 or
☐ are not covered by the ANSI/ASME codes, but are in compliance with ASME B31.5
 (Name of code or standard)

code or standard and are designed according to the best current engineering practice, as proven by the enclosed approval report.

2.2 Manufacturing quality control

I further declare that the manufacture of these fittings is controlled by a quality control program that complies with the requirements of the following code: ISO 9001:2015, and has been verified by Bureau Veritas
 (Name of code) (Authorized agency)

Signature of the person in charge: Bin Zhang Date (yyyy-mm-dd): 2022-08-03

3. Declaration of commissioner for oaths

I certify that this declaration has been administered before me, at Kolding, on 2022-08-04.
(Location) (Date (yyyy-mm-dd)):

Signature of commissioner for oaths:

Date (yyyy-mm-dd):

Stamp the seal:

4. Registration confirmation (for RBQ's use only)

As far as I know, this application complies with the requirements of the Act and with standard CSA B51, Part 1, section 4.2, and is accepted for registration in the class _____.

This registration expires in ten (10) years after the date of registration indicated above, and it must be validated again after this period.

Canadian registration number (CRN):

Registration date (yyyy-mm-dd):



Documents to attach

Any application registration for fittings must include these documents:

- Statutory Declaration Registration of Fittings (2 copies)
- Detailed calculations or burst test report (1 copy)
- Detailed technical drawings or catalogues (2 copies)
- Example of the manufacturer's marking (1 copy)
- Proof that a valid and approved quality control program has been implemented (1 copy)
- Form Application for design registration (1 copy)

Sending the form

This declaration is mandatory in order to submit an application registration of fittings.

Application registration for fittings must only be sent by mail to this address:

Bureau d'expertise et d'homologation en équipements sous pression

Régie du bâtiment du Québec

545, boulevard Crémazie Est, 7^e étage

Montréal (Québec) H2M 2V2

Overview of Danfoss multi production sites

the list of the additional manufacturing facilities and their plant addresses

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Refrigeration Components	ISO 9001:2015	Design, development and manufacturing of components for refrigeration, a/c, HVOR and heating applications, and related services	07 February 2024	Bureau Veritas	Head Office Nordborgvej 81, 6430 Nordborg, Denmark
2.	Refrigeration Components	ISO 9001:2015	Design and manufacturing of valves, control and components for refrigeration, air conditioning and fluid controls	25 April 2024	Bureau Veritas	Albuen 29, 6000, Kolding, Denmark
3.	Refrigeration Components	ISO 9001:2015	Design and manufacturing of valves, controls and components for refrigeration, air conditioning and fluid controls	07 February 2024	Bureau Veritas	Ul. Chrzanowska 5, 05-825 Grodzisk Mazowiecki, Poland
4.	Refrigeration Components	ISO 9001:2015	Design and manufacturing of refrigeration and air conditioning components	11 September 2024	Bureau Veritas	No.9 Quanhui road,wuqing development area, china 301700
5.	Refrigeration Components	ISO 9001:2015	Design and manufacturing of filter dryers, valves, distributors, heat exchangers, condensing units and manifold assemblies for refrigeration and air-conditioning.	07 February 2024	Bureau Veritas	Carretera Miguel Aleman 162 El Milagro Nuevo León, 66634 Apodaca, Mexico
6.	Refrigeration Components	ISO 9001:2015	Design, development and manufacturing of components for refrigeration, a/c, HVOR and heating applications, and related services.	07 February 2024	Bureau Veritas	Plot No:A-19/2, Sipcot Industrial Growth Centre, Oragadam, Kanchipuram District 602105 Tamilnadu, India

A copy of the Quality Certificate from each manufacturing site is included in the application document pack.

Scope for CRN Registration for Danfoss Components

Refrigeration Components

Danfoss A/S located in Denmark is responsible for design, engineering and manufacturing of the following refrigeration components

The CRN registration should cover the valves as tabulated below. Products must be registered as **Category "C"** (valves/Fittings registration).

Type	Description	Material of construction	Connection size	MDMT	Temp. °C (°F)	Rated pressure
SVA-140B	Shut off valve	A350 LF2 class 1 / A352 LCC	Butt weld DN 50-100	-40°C / -40°F	-40°C (-40°F) to +150°C (+302°F)	140 bar / 2030 psi
FIA-140B	Stainer valve	A350 LF2 class 1 / A352 LCC	Butt weld DN 50-100	-40°C / -40°F	-40°C (-40°F) to +150°C (+302°F)	140 bar / 2030 psi

The listed components are intended for use in refrigeration applications

The application for the Canadian National Registration must cover all Provinces and Territories.

Danfoss A/S

Senior Approval Specialist

Bin Zhang

Nordborg, Denmark



Contact information :

Bin Zhang, e-mail : zhangbin@danfoss.com, cellphone : +45 5180 8833




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Norborgvej 81, 6430, Nordborg, Denmark		
Plant Locations: Norborgvej 81, 6430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories <input type="checkbox"/> N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documentation and identification of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I, Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.

Signature of Declarer: Bin Zhang

Declared before me at Kodung

This 04 day of August AD 2022

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

<p>CRN: <u>0C24483.5</u></p> <p>FID#: <u>1348</u></p> <p>Notes:</p> <ol style="list-style-type: none">All Fittings shall be registered in the name of the Manufacturer.Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.Quality Control programs shall be resubmitted for validation. <p>Note: 140bar/2030psi; -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 Cl.1, A352 LCC. CRN expires March 30th, 2033 1/2016 (DGallant)</p>	<p>This space for Regulatory Authority use</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance</p> <p>New Brunswick DEPT OF JUSTICE PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT</p> <p>REGISTRATION ONLY CRN <u>0C24483.57</u></p> <p><u>Sam Aross</u> CHIEF BOILER INSPECTOR DATE <u>4/21/23</u> Sect 1.0 - Fittings Rev.2</p>
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☐ BLRs

☐ PVs

☒ FITTINGS

☐ NUCLEAR COMPONENTS




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Nørborgvej 81, 6430, Nordborg, Denmark		
Plant Locations: Nørborgvej 81, 6430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories <input type="checkbox"/> N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documentation and identification of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I, Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.

Signature of Declarer: Bin Zhang

Declared before me at Kodjery

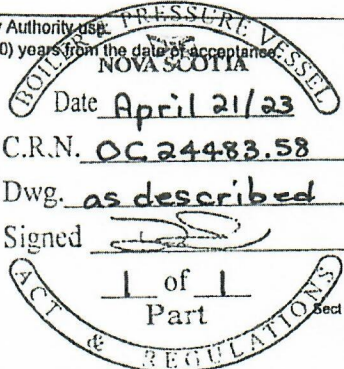
This 04 day of August AD 2022

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: <u>0C24483.5</u>	This space for Regulatory Authority use
FID#: <u>1348</u>	This registration must be revalidated after ten (10) years from the date of acceptance.
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. Note: 140bar/2030psi; -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 Cl.1, A352 LCC. CRN expires March 30th, 2033 1/2016 (DGallant)	 Date <u>April 21/23</u> C.R.N. <u>0C24483.58</u> Dwg. <u>as described</u> Signed <u>[Signature]</u> 1 of 1 Part Sect 1.0 - Fittings Rev.2




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Norborgvej 81, 6430, Nordborg, Denmark		
Plant Locations: Norborgvej 81, 6430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories <input type="checkbox"/> N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documentation and identification of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.

Signature of Declarer: Bin Zhang

Declared before me at Kedong

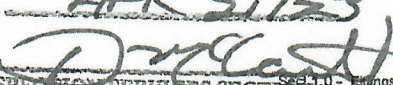
This 04 day of August AD 2022

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: <u>0C24483.5</u>	This space for Regulatory Authority use.
FID#: <u>1348</u>	This registration must be revalidated after ten (10) years from the date of acceptance.
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. Note: 140bar/2030psi; -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 Cl.1, A352 LCC. CRN expires March 30th, 2033 11/2016 (DGallant)	ACCEPTED PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT C.R.N. <u>0C24483.59</u> DATE: <u>APR 21/23</u>  INSPECTION SERVICES SECTION BOILER/PRESSURE VESSEL BRANCH See 1.0 - Forms Rev.2




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Norborgvej 81, 6430, Nordborg, Denmark		
Plant Locations: Norborgvej 81, 6430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documentation and identification of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I, Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.

Signature of Declarer: Bin Zhang

Declared before me at Kodung

This 04 day of August AD 2022

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: <u>0C24483.5</u>	This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of compliance. Newfoundland Labrador
FID#: <u>1348</u>	
Notes: 1. All Fittings shall be registered in the name of the Manufacturer. 2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality Control programs shall be resubmitted for validation Note 140bar/2030psi; -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 Cl.1, A352 LCC. CRN expires March 30th, 2033 (DGallant)	Registered <u>0C24483.50</u> Date <u>April 25, 2023</u> Engineering and Inspection Services Registered by <u>[Signature]</u> UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS Sect 1.0 - Fittings Rev.2




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Norborgvej 81, 6430, Nordborg, Denmark		
Plant Locations: Norborgvej 81, 6430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories <input type="checkbox"/> N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> , (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documentation and identification of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I, Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.

Signature of Declarer: Bin Zhang

Declared before me at Kodling

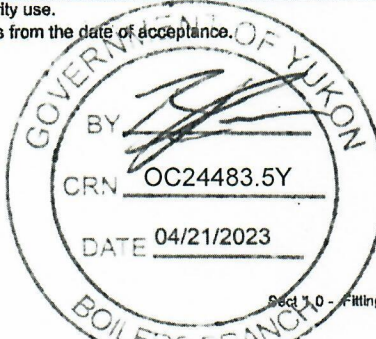
This 04 day of August AD 2022

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

This space for Regulatory Authority use.	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0C24483.5</u>	
FID#: <u>1348</u>	
Notes:	
<ol style="list-style-type: none">All Fittings shall be registered in the name of the Manufacturer.Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.Quality Control programs shall be resubmitted for validation. <p>Note: 140bar/2030psi; -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 Cl.1, A352 LCC. CRN expires March 30th, 2033 1/2018 (DGallant)</p>	

Page 1.0 - Fittings Rev.2




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Norborgvej 81, 6430, Nordborg, Denmark		
Plant Locations: Norborgvej 81, 6430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories <input type="checkbox"/> N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documentation and identification of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I, Bin Zheng, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.

Signature of Declarer: Bin Zheng

Declared before me at Kodiag


This 04 day of August AD 2022

Commissioner of Oaths

Or Notary Public: (sign) _____

(Affix Official seal to the right)

Use this space for the Official Seal

CRN: <u>0C24483.5</u>	This space for Regulatory Authority use.
FID#: <u>1348</u>	This registration must be revalidated after ten (10) years from the date of acceptance.
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. Note: 140bar/2030psi: -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 CL1, A352 LCC. CRN expires March 30th, 2033 1/2018 (DGallant)	 REGISTERED UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT. C.R.N <u>0C24483.5T</u> SIGNED <u>Ernie Beaulieu</u> DATE <u>Apr 24/23</u> Sect 1.0 - Fittings Rev.2 82.00




UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Nunavut

Nova Scotia
Yukon

Prince Edward Island
Northwest Territories

Newfoundland and Labrador

Manufacturers Name: Danfoss A/S		
Manufacturers Address: Nordborgvej 81, 8430, Nordborg, Denmark		
Plant Locations: Nordborgvej 81, 8430, Nordborg, Denmark		
Category of Fittings to be registered. Circle one Category only <input type="checkbox"/> A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers <input type="checkbox"/> B Flanges: all flanges <input checked="" type="checkbox"/> C Valves: all line valves <input type="checkbox"/> D Expansion joints, flexible connections, and hose assemblies: all types <input type="checkbox"/> E Strainers, filters, separators, and steam traps <input type="checkbox"/> F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters <input type="checkbox"/> G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting CNSC or ASME requirements)	Title of the Standard of Construction ASME B31.5 Category of fittings: C - VALVES	
Show Manufacturers Name, Trademark, or Logo as it will appear on the product 		Type of Construction Forged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Wrought <input type="checkbox"/> Cast <input type="checkbox"/> Other <input type="checkbox"/> Describe other:
List of supporting documents and description of the actual items to be registered: see enclosed document packs. - SVA-140B, FIA-140B		

Declaration:

I, Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S 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 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 Bureau Veritas as being suitable 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.


Signature of Declarer: Bin Zhang
Declared before me at Kodiag
This 24 day of August AD 2022
Commissioner of Oaths
Or Notary Public: (sign) _____

(Affix Official seal to the right)

This space for Registrar's Approval Use.
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OC24483.5
FID#: 1348
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.
Note: 140bar/2030psi; -40C to 150C; DN50 - 100 BW; ASTM A350 LF2 Cl.1, A352 LCC. CRN expires March 30th, 2033
1/2018 (DGallant)

Use this space for the Official Seal

 NUNAVUT	
Boilers and Pressure Vessels Act	
REGISTERED	
CRN	<u>OC 24483.5N</u>
Date	<u>April 21 2023</u>
Signed	<u>[Signature]</u>
Chief Inspector	
Sect 1.0 - Fittings Rev.2	
Territorial Registration Fee	