



COVER PAGE

**CRN 0E24090.5**

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
DCL, DML Filter Drier	
DGP Purge Filter Drier	

**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](http://www.tssa.org)

July 21, 2022

DANFOSS A/S  
NORDBORGVEJ 81  
NORDBORG 6430

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 8151968  
**Your Reference No.:** REFRIGERATION FITTINGS  
**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 : 0E24090.5  
Main Design No.: Document: Scope of CRN Registration  
Expiry Date: Jul 21, 2032

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

1. Design validated by proof test per UG-101(m)(2)(a) 2. Housing material: ASTM A513 GR 1010; Bottom/End plate material: ASTM A1011

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](mailto: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,

Shreyas Madhuranath M.Eng, P.Eng  
Engineer, BPV



Technical Standards and Safety Authority  
 345 Carlingview Drive  
 Toronto, Ontario M9W 6N9  
 www.tssa.org

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

*Danfoss*

## STATUTORY DECLARATION Registration of Fittings

I, Bin Zhang, Senior Approval Specialist  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Danfoss A/S  
(Name of Manufacturer)

Located at Nordborgvej 81, 6430, Nordborg, Denmark +45 51808833  
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.5  
(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, Bureau Veritas

The items covered by this declaration, for which I seek registration, are category E type fittings. In support of this application, the following information and/or test data are attached as follows:  
 See enclosed document pack for DCL, DML, DGP

(drawings, calculations, test reports, etc.)

Declared before me at Kaldang in the \_\_\_\_\_ of \_\_\_\_\_

the 21 day of April AD 2022.

Commissioner for Oaths:

\_\_\_\_\_  
(Printed name)

\_\_\_\_\_  
(Signature)

Bin Zhang  
(Signature of Declarer)

### FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category E.

CRN: \_\_\_\_\_

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_

Technical Standards and Safety Authority      Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0E24090.5

Signed: [Signature]

Date: July 21, 2022.

\*Please see additional notes on the design registration letter

**NOTE: This registration expires on: Jul 21, 2032**

*\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*



THIS IS PART OF CRN  
0E24090.5  
Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program



This is to certify that **Bin Zhang** today in my presence at the Notarial Office approved and signed the above document. No conspicuous corrections or addenda were found in the document.

**Bin Zhang** has proved his identity by showing passport and Danish residence permit card.

**The Court in Kolding Denmark, 2022-04-21**

  
**Charlotte Rytger**  
**Notary Public**



THIS IS PART OF CRN

0E24090.5

Technical Standards and Safety Authority  
Boilers and Pressure Vessels Safety  
Program

## 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 "E"** (filters/Fittings registration).

<i>Type</i>	<i>Description</i>	Material of construction	Connection size	MDMT	<i>Temp. °C (°F)</i>	Rated pressure
<b>DCL, DML</b>	Filter Drier	ASTM A513 1010	Up to solder 1-1/8" ODF/ODM	-40°C / -40°F	-40°C (-40°F) to +70°C (+158°F)	46 bar / 667 psi
<b>DGP</b>	Purge Filter Drier	ASTM A513 1010	Face seal 3/8inch	-40°C / -40°F	-40°C (-40°F) to +70°C (+158°F)	14 bar / 200 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](mailto:zhangbin@danfoss.com), cellphone : +45 5180 8833

TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ON M9W 6N9

**Date:** October 19, 2022  
**Account #:** 35231  
**Journal #:** 81387

**Attn:** TSSA BPV NATIONAL REGISTRATION

**Re:** Application for Design Registration

The design, as detailed in your, 0E24090.5 - DANFOSS A/S, for a Fitting is accepted for registration as follows:

**Registered To:** DANFOSS A/S

**CRN:** 0E24090.51

**Drawing #:** Scope of CRN Registration

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 21-Jul-2032. 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. Any additional conditions of registration stated in TSSA CRN# 0E24090.5 registration shall apply to BC registration.

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

Janina Mihailescu

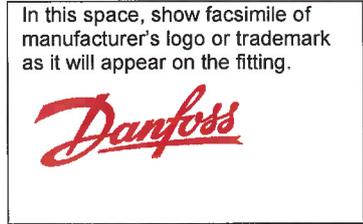
janina.mihailescu@technicalsaftybc.ca  
Design Administration

**cc:**



STATUTORY DECLARATION
Registration of Fittings
Single or Multiple Fitting Designs within one Fitting Category

I, Bin Zhang, Senior Approval Specialist
(name of applicant) (position title) (must be in a position of authority)
of Danfoss A/S
(name of manufacturer)
located at Nordborgvej 81, 6430, Nordborg, Denmark
(plant address)



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

- comply with the requirements of ASME B31.5 which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or
are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with... as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

Quality Program Verification and Manufacturing Sites

A copy of the Quality Certificate from each manufacturing site must be included

Table with 7 columns: Item #, Product Description, Model or Series, Quality Program, Scope of Certification, Expiry Date, Verifying Organization, Location(s) Plant Name and address. Row 1: 1, Refrigeration Components, ISO 9001:2015, Design, development and manufacturing of components for refrigeration, a/c, HVOR and heating applications, and related services, 07 Feb 2024, Bureau Veritas, Nordborgvej 81, 6430, Nordborg, Denmark

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

See enclosed document packs. - DCL, DML, DGP

Signature of the Declarer

2022-04-21 (Date)

DECLARED before me at Koldury in the of this day of (Month) (Year) (province, territory, or state)

(print) (a Commissioner of Oaths or Notary Public)

(sign) (a Commissioner of Oaths or Notary Public)

(expiry date (mm/dd/yy))

Commissioner of Oaths / Notary Public in and for: (province, territory, or state)

For ABSA Office Use Only:

NOTES: \*\* See attached Scope of CRN Registration.

Registration details form including fields for CRN, Registered Date (2022-09-28), Expiry Date (2032-07-21), Signature, and a red ABSA stamp with acceptance letter for conditions of registration.

Tracking #: 2022-05222

## REGISTRATION OF A PRESSURE FITTING DESIGN

25-Oct-22

TSSA  
345 Carlingview Drive  
Toronto, Ontario  
M9W 6N9

**Attention: Cecylia Garbacz**

**File Number: 13319 [ 0 F]**

**Re: Manufacturer: Danfoss A/S**  
**Item: Filter Drier**  
**Catalog or Drawing: Per Scope of Registration & Supporting Drawings**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**OE24090.53                      Expiry Date: July 21, 2032**

Please note that every fitting shall be constructed in strict 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.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.  
Codes and Standards Compliance

### Remarks:

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

Conditional upon compliance with the notes on the original TSSA registration.



# Technical Safety Authority of Saskatchewan

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](mailto:boilerpermits@tsask.ca)  
Website: [www.tsask.ca](http://www.tsask.ca)

## Statutory Declaration (Registration of Fittings)

TSK-1008

### I. Declaration Information

I, Bin Zhang,

Senior Approval Specialist

(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)

of: Danfoss A/S  
(name of manufacturer)

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



located at: Nordborgvej 81, 6430, Nordborg, Denmark Nordborg 6430  
(Plant Address – Apt/Street) (City,Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

- Comply with the requirements of ASME B31.5 which specifies the dimensions, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or  
(title of recognized North American Standard)
- Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with \_\_\_\_\_ as supported by the attached data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, Bureau Veritas as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category E

In support of this application, the following information, calculations and / or test data are attached:  
See enclosed document packs for DGP, DML, DCL

### II. Declaration

DECLARED before me at Leading In the \_\_\_\_\_ of Denmark  
this 21 day of April, 2022  
(print name) (Signature) Bin Zhang

(Signature of Commissioner of Oaths)

### III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_

(Registration Number)

(Date Registered – MM DD YYYY)

(Expiry Date – MM DD YYYY)

(For the Administrator / Chief Inspector)

 **Technical Safety Authority of Saskatchewan**

Registration No. 0E24090.53

File No. 13319

Date: October 25, 2022

Expiry Date: July 21, 2032

Registered

Codes & Standards Compliance Office

TSK-1008  
Rev. 10/2012  
Page 1 of 1

October 31, 2022

TSSA  
345 Carlingview Drive  
Toronto, ON M6W 6N9

**Dear Cecylia Garbacz,**

**Re: Reciprocal CRN Registration in Manitoba**

As indicated by the Regulatory Reconciliation and Cooperation Table and the Reconciliation Agreement for the Canadian Registration Number (CRN) for Pressure Equipment, the design reviews conducted and accepted by the Canadian province or territory, or their delegated safety authority, will be mutually recognized in the Province of Manitoba. If a registration is conditionally based on compliance with the notes set by the original issuing Jurisdiction, such compliance shall be applied the same to this Province.

Your submission has been registered, as follows:

File Number: 74-R2683  
CRN: 0E24090.54  
Scope: Document: Scope of CRN Registration  
Manufacturer: Danfoss A/S  
Expiry Date: 21 July 2032

Along with this letter is the invoice for registration.

In addition, every vessel shall be stamp of the registration number and as required by CSA Code B51, a Manufacturer's Data Report (MDR) must be forwarded to this office immediately at the time a unit is shipped to Manitoba. Send your MDR to [gasupport@gov.mb.ca](mailto:gasupport@gov.mb.ca). In your subject line, indicate "*Manufacturer's Data Report-CRN No.*" A fee shall be billed to the Manufacturer to process data reports in accordance with the Steam and Pressure Plants Regulation section 17.1.

Please contact [gasupport@gov.mb.ca](mailto:gasupport@gov.mb.ca) for any questions or concerns.

**Inspection and Technical Services**

Labour, Consumer Protection and Government Services  
508 – 401 York Avenue, Winnipeg, MB R3C 0P8  
T (204) 945-3373 | F (204) 948-2089

Montréal, le 27 octobre 2022.

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

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

OUR REFERENCE : 947143  
Design number : Scope of registration DCL, DML, DGP

**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): **0E24090.56**.

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](http://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](http://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	Filter drier	DOC PACK OF DCL,DML,DGP
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): 2022-04-20

## Declaration of commissioner for oaths

I, \_\_\_\_\_, certify that this declaration has been administered before me, at Kaldun, on 2022-04-21.  
(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<sup>e</sup> étage  
Montréal (Québec) H2M 2V2



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

Brunswick  
N.B.

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

**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 Keldan

This 21 day of April AD 2022

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

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

CRN: 0E24090.5

FID#: 1348

Notes:

- All Fittings shall be registered in the name of the Manufacturer.
- Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality Control programs shall be resubmitted for validation. Scope: DCL, DML filter driers (667psi); DGP purge filter driers (200psi). Note: Design validated by proof test per UG-101(m)(2)(a). 11/2016 CRN expires June 21st, 2032 (DGallant)

Use this space for the Official Seal

**New Brunswick / Nouveau Brunswick**  
DEPT OF JUSTICE PUBLIC SAFETY  
BOILER & PRESSURE VESSEL ACT

REGISTRATION ONLY

CRN 0E24090.57

Ran A...  
CHIEF BOILER INSPECTOR

DATE 10/7/22

REGS Rev.2

- BLRs       PVs
- FITTINGS       NUCLEAR COMPONENTS



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

Brunswick Nova Scotia Prince Edward Island Newfoundland and Labrador
Yukon Northwest Territories

Manufacturers Name: Danfoss A/S
Manufacturers Address: Norborgvej 81, 8430, Nordborg, Denmark
Plant Locations: Norborgvej 81, 8430, Nordborg, Denmark
Category of Fittings to be registered. Circle one Category only
Title of the Standard of Construction
ASME B31.5
Category of fittings: E- filters
Type of Construction
Forged [ ] Welded [ ] Wrought [x]
Cast [ ] Other [ ]
Describe other:
List of supporting documentation and identification of the actual items to be registered:
see enclosed document packs. - DCL, DML, DGP

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.

Signature of Declarer: Bin Zhang
Declared before me at Kaldan
This 21 day of April AD 2022
Commissioner of Oaths
Or Notary Public: (sign)

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: OE24090.5
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.
Scope: DCL, DML filter driers (667psi); DGP purge filter driers (200psi). Note: Design validated by proof test per UG-101(m)(2)(a).
11/2016 CRN expires June 21st, 2032 (DGallant)
BOILER & PRESSURE VESSEL
NOVA SCOTIA
Date Oct. 7/22
C.R.N. OE24090.58
Des. as described
Signed Yvonne Perry
1 of 1
Part
ACT & REGULATIONS
Sect 1.0 - Fittings Rev.2



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

Brunswick Nova Scotia Prince Edward Island Newfoundland and Labrador
Halvut Yukon Northwest Territories

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
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers
B Flanges: all flanges
C Valves: all line valves
D Expansion joints, flexible connections, and hose assemblies: all types
E Strainers, filters, separators, and steam traps
F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs
H Pressure retaining components that do not fall into one of the above categories
N Nuclear components: Class 1 Class 2 Class 3 (Meeting CNSC or ASME requirements)
Show Manufacturers Name, Trademark, or Logo as it will appear on the product
Danfoss
Type of Construction
Forged Welded Wrought
Cast Other
Describe other:
List of supporting documentation and identification of the actual items to be registered:
see enclosed document packs. - DCL, DML, DGP

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 Keldum

This 21 day of April AD 2011

Commissioner of Oaths

Or Notary Public: (sign)

Use this space for the Official Seal

(Affix Official seal to the right)

This space for Regulatory Authority use.
This registration must be revalidated after ten (10) years from the date of acceptance.
CRN: 0E24090.5
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.
Scope: DCL, DML filter driers (667psi); DGP purge filter driers (200psi). Note: Design validated by proof test per UG-101(m)(2)(a).
1/2016 CRN expires June 21st, 2032 (DGallant)
ACCEPTED
PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT
C.R.N. 0E24090.59
DATE: OCT 7/22
INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH



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

Brunswick  Nova Scotia  Prince Edward Island  Newfoundland and Labrador  
Yukon  Northwest Territories

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

**Declaration:**

I Bin Zhang, Boiler 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 Boiler 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 Keldang

This 21 day of April AD 2022

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

Use this space for the Official Seal

(Affix Official seal to the right)

<p>This space for Regulatory Authority use.</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance.</p>	
CRN: <u>0E24090.5</u>	 Digital Government and Service NL Registered <u>0E24090.50</u> Date <u>28-Oct-2022</u> Engineering and Inspection Services Registered by <u>Daniel Jackson</u>
FID#: <u>1348</u>	
<p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer.</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation. Scope: DCL, DML filter driers (667psl); DGP purge filter driers (200psl). Note: Design validated by proof test per UG-101(m)(2)(a). 1/2016 CRN expires June 21st, 2032 (DGallant)</li> </ol>	<p>UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS</p>

Sept 1.0 - Fittings Rev.2



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

Brunswick  
Nova Scotia  
Prince Edward Island  
Newfoundland and Labrador  
Yukon  
Northwest Territories

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

**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 Bin Zhang 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 Calgary

This 21 day of April AD 2022

Use this space for the Official Seal

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

(Affix Official seal to the right)

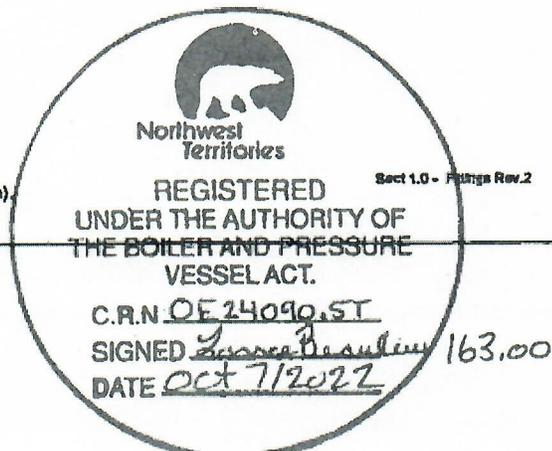
This space for Regulatory Authority use.  
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0E24090.5

FID#: 1348

Notes:

- All Fittings shall be registered in the name of the Manufacturer.
- Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality Control programs shall be revalidated for validation. Scope: DCL, DML filter driers (667psi); DGP purge filter driers (200psi). Note: Design validated by proof test per UG-101(m)(2)(a). 1/2016 CRN expires June 21st, 2032 (DGallant)





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

Brunswick  
 Yukon  
 Nova Scotia  
 Prince Edward Island  
 Northwest Territories  
 Newfoundland and Labrador

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

**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 Koldew

This 21 day of April AD 2022

Commissioner of Oaths

Or Notary Public: (sign) \_\_\_\_\_

Use this space for the Official Seal

<p align="center"><small>This space for Regulatory Authority use</small></p> <p align="center"><small>This registration must be revalidated after ten (10) years from the date of acceptance.</small></p> <p>CRN: <u>0E24090.5</u></p> <p>FID#: <u>1348</u></p> <p>Notes:</p> <ol style="list-style-type: none"> <li>All Fittings shall be registered in the name of the Manufacturer.</li> <li>Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality Control programs shall be resubmitted for validation.</li> </ol> <p><small>Scope: DCL, DML filter driers (667psi); DGP purge filter driers (200psi). Note: Design validated by proof test per UG-101(m)(2)(a). 11/2016 CRN expires June 21st, 2032 (DGallant)</small></p>	<p><b>NUNAVUT</b> Boilers and Pressure Vessels Act</p> <p align="center"><b>REGISTERED</b></p> <p>CRN <u>0E24090.5N</u></p> <p>Date <u>2022-10-09</u> <small>Form Rev. 2</small></p> <p>Signed <u><i>[Signature]</i></u></p> <p>Chief Inspector</p> <p align="center"><b>Territorial Registration Fee</b></p>
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**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**

Brunswick  
N.B.

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

**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 Kaldang

This 21 day of April 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: 0E24090.5

FID#: 1348

Notes:

- All Fittings shall be registered in the name of the Manufacturer.
- Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
- The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.
- Quality Control programs shall be resubmitted for validation.

Scope: DCL, DML filter driers (667psi); DGP purge filter driers (200psi). Note: Design validated by proof test per UG-101(m)(2)(a).  
11/2016 CRN expires June 21st, 2032 (DGallant)