



COVER PAGE

CRN 0C24058.5

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
GBC Ball Valve	

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

July 4, 2022

DANFOSS A/S
NORDBORGVEJ 81
NORDBORG 6430

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8145003
Your Reference No.: see CRN approval doc pack of GBC - ball valve, see scope
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 : 0C24058.5
Main Design No.: Document: Scope of Application
Expiry Date: Jul 04, 2032

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

Design acceptance based on proof test of items per UG-101(m) and UG-101(k)

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,

Shreyas Madhuranath M.Eng, P.Eng
Engineer, BPV
Tel. : +1 416-734-3212
Email : smadhuranath@tssa.org



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



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 C type fittings. In support of this application, the following information and/or test data are attached as follows:

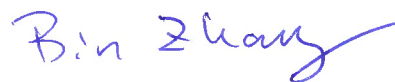
See enclosed document pack for GBC, GBC
(drawings, calculations, test reports, etc.)

Declared before me at Kolding in the _____ of Denmark
 the 21 day of April AD 2022.

Commissioner for Oaths:

(Printed name)

(Signature)



(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 C.

CRN: _____

Registered by: _____

Dated: _____

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C24058.5

Signed: Date: July 4, 2022.

NOTE: This registration expires on: July 4th, 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 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
0C24058.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program



Section 1

SCOPE OF APPLICATION

THIS IS PART OF CRN
0C24058.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Scope for CRN Registration for Danfoss Components

Refrigeration valves

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).

<i>Type</i>	<i>Description</i>	Material of construction	Connection size	MDMT	<i>Temp. °C (°F)</i>	Rated pressure
GBC	Ball valve	Brass GSC 601 EN12420	Up to solder 2-5/8" ODF/ODM	-40°C / -40°F	-40°C (-40°F) to +100°C (+212°F)	45 bar / 650 psi

THIS IS PART OF CRN
0C24058.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

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



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 C type fittings. In support of this application, the following information and/or test data are attached as follows:
See enclosed document pack for GBC, GBC
(drawings, calculations, test reports, etc.)

Declared before me at Kolding in the _____ of Denmark
the 21 day of April AD 20 22.

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 'C'.

CRN: _____

Registered by: _____

Dated: 2022-09-21

NOTE: This registration expires on: 2032-07-04

2022-05036

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: CC24058.52

See acceptance letter for conditions of registration.

Date: 2022-09-21 By: Ashling Dick

ASHLING DICK, P. Eng.
DOP: D00007936

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

Montréal, le 21 octobre 2022.

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

Manufacturer : DANFOSS A/S
ALBUEN 29 DK 6000
KOLDING
DANEMARK

OUR REFERENCE : 947192
Design number : As per Scope of registration GBC

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): **0C24058.56.**

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 GBC, GBC E
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 Koldung, 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.

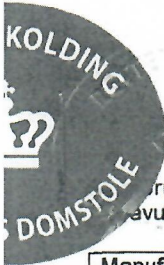
Application registration for fittings must only be sent by mail to this address:

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

Régie du bâtiment du Québec

545, boulevard Crémazie Est, 7^e étage

Montréal (Québec) H2M 2V2



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Quebec

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>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p><input checked="" type="checkbox"/> C Valves: all line valves</p> <p>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>Title of the Standard of Construction</p> <p>ASME B31.5</p> <p>Category of fittings: C - VALVES</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p style="text-align: center;"></p>	<p>Type of Construction</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>List of supporting documentation and identification of the actual items to be registered:</p> <p>see enclosed document packs. - GBC, GBC</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 Kolding
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: 0C24058.5

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: GBC shut-off ball valves. 45bar rated pressure;
11/2016 -40C to 100C; Up to solder 2-5/8"ODF/ODM.
CDI - A536; CRN expires July 4th, 2032 (DGallant)

Use this space for the Official Seal

**DEPT OF JUSTICE PUBLIC SAFETY
BOILER & PRESSURE VESSEL ACT**

REGISTRATION ONLY

CRN 0C24058.57

Bin Zhang
CHIEF BOILERMAKER
Sec 1.0 - Fittings Rev.2


DATE 9/23/22

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: <u>Danfoss A/S</u>	
Manufacturers Address: <u>Norborgvej 81, 6430, Nordborg, Denmark</u>	
Plant Locations: <u>Norborgvej 81, 6430, Nordborg, Denmark</u>	
<p align="center">Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p><input checked="" type="checkbox"/> C Valves: all line valves</p> <p>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">Title of the Standard of Construction</p> <p>ASME B31.5</p> <p align="center">Category of fittings:</p> <p>C - VALVES</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p align="center"></p>	
<p align="center">Type of Construction</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>List of supporting documentation and identification of the actual items to be registered:</p> <p>see enclosed document packs. - GBC, GBC</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 Kolding

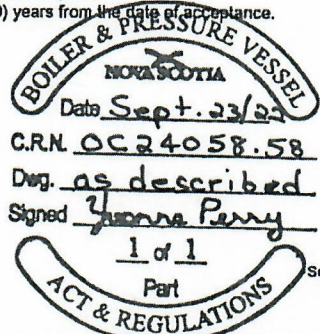
This 21 day of April AD 2022

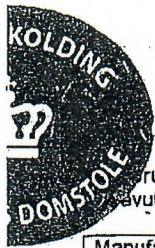
Commissioner of Oaths

Or Notary Public: (sign) _____

Use this space for the Official Seal

(Affix Official seal to the right)

This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0C24058.5</u> 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. Scope: GBC shut-off ball valves. 45bar rated pressure; 11/2016 -40C to 100C; Up to solder 2-5/8"ODF/ODM. CDI - A536; CRN expires July 4th, 2032 (DGallant)	 <p>Date <u>Sept. 23/22</u> C.R.N. <u>0C24058.58</u> Desc. <u>as described</u> Signed <u>Yvonne Perry</u> <u>1 of 1</u> Part</p>



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

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

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: C Valves; all line valves
Title of the Standard of Construction: ASME B31.5
Type of Construction: Cast
Show Manufacturers Name, Trademark, or Logo as it will appear on the product: Danfoss
List of supporting documentation and remuneration of the actual items to be registered: see enclosed document packs. - GBC, GBC

Declaration:

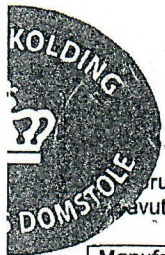
I Bin Zhang, Senior Approval Specialist (see note 3) employed by Danfoss A/S and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true to the best of my knowledge represents the product for which registration is sought.

Signature of Declarer: Bin Zhang
Declared before me at Kolding
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)

This space for Regulatory Authority use.
This registration must be revalidated after ten (10) years from the date of acceptance.
ACCEPTED
PROVINCE OF PRINCE EDWARD ISLAND
COMMUNITIES, LAND & ENVIRONMENT
C.R.N. 0C24058.59
DATE: Sept 23 2022
INSPECTION SERVICES SECTION
BOILER/PRESSURE VESSEL BRANCH
CRN: 0C24058.5
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: GBC shut-off ball valves. 45bar rated pressure; 11/2018 -40C to 100C; Up to solder 2-5/8"ODF/ODM.
CDI - A536; CRN expires July 4th, 2032 (DGallant)



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Quebec

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>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p><input checked="" type="checkbox"/> C Valves: all line valves</p> <p>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>Title of the Standard of Construction</p> <p>ASME B31.5</p> <p>Category of fittings: C - VALVES</p>	
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p style="text-align: center;"></p>		<p>Type of Construction</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>List of supporting documentation and identification of the actual items to be registered:</p> <p>see enclosed document packs. - GBC, etc</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 Kolding

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>0C24058.5</u>	 Digital Government and Service NL
FID#: <u>1348</u>	
Notes:	Registered <u>0C24058.50</u>
1. All Fittings shall be registered in the name of the Manufacturer.	Date <u>19-Oct-2022</u>
2. Each Category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.	Engineering and Inspection Services
3. The Declaration shall be made by the person having full authority and responsibility for the quality of the end product.	Registered by <u>David Jackson</u>
4. Quality Control programs shall be resubmitted for validation.	
Scope: GBC shut-off ball valves. 45bar rated pressure; 11/2016 -40C to 100C; Up to solder 2-5/8" ODF/ODM. CDI - A536; CRN expires July 4th, 2032 (DGallant)	UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

Manufacturers Name: <u>Danfoss A/S</u> Manufacturers Address: <u>Norborgvej 61, 6430, Nordborg, Denmark</u> Plant Locations: <u>Norborgvej 61, 6430, Nordborg, Denmark</u>	
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 <input checked="" type="checkbox"/> 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 <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 <div style="text-align: center;"></div>	
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: <u>see enclosed document packs. - GBC, GBC</u>	

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 Leeds
 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)

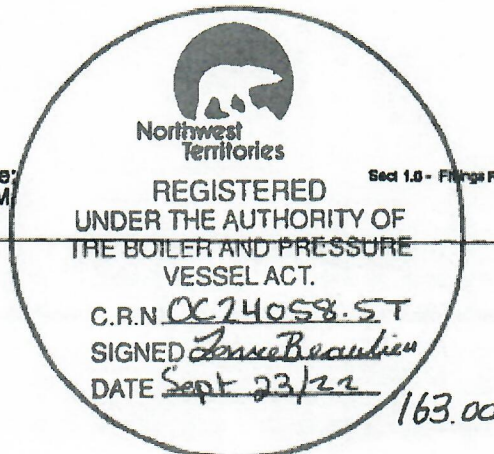
This space for Regulatory Authority use.
 This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0C24058.5
 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: GBC shut-off ball valves. 45bar rated pressure: 11/2018 -40C to 100C; Up to solder 2-5/8"ODF/ODM/ CDI - A538; CRN expires July 4th, 2032 (DGallant)





UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

<u>Manitoba</u>	<u>Nova Scotia</u>	<u>Prince Edward Island</u>	<u>Newfoundland and Labrador</u>
<u>Manitowishong</u>	<u>Yukon</u>	<u>Northwest Territories</u>	
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 <input checked="" type="checkbox"/> 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 <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 <div style="text-align: center; font-size: 2em; font-family: cursive;">Danfoss</div>		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 submitted with this form of the actual items to be registered: see enclosed document packs. - GBC, etc			

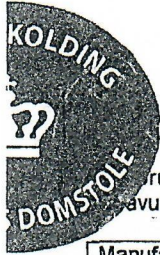
Declaration:

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 Kolding
 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) This space for Regulatory Authority use. This registration must be revalidated after ten (10) years from the date of acceptance. CRN: <u>OC24058.5</u> 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. Scope: GBC shut-off ball valves. 45bar rated pressure; 11/2018 -40C to 100C; Up to solder 2-5/8"ODF/ODM. CDI - A536; CRN expires July 4th, 2032 (DGallant)	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: 1.5em; font-weight: bold;">NUNAVUT</p> <p>Boilers and Pressure Vessels Act</p> <p style="font-size: 1.2em; font-weight: bold;">REGISTERED</p> <p>CRN <u>OC24058-5N</u></p> <p>Date <u>23-09-2022</u></p> <p>Signed _____ Chief Inspector</p> </div> <p style="font-size: 1.2em; font-weight: bold; text-align: center;">Territorial Registration Fee</p>
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

New Brunswick
Quebec

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>Category of Fittings to be registered. Circle one Category only</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p><input checked="" type="checkbox"/> C Valves: all line valves</p> <p>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>Title of the Standard of Construction</p> <p>ASME B31.5</p> <p>Category of fittings: C - VALVES</p>
<p>Show Manufacturers Name, Trademark, or Logo as it will appear on the product</p> <p style="text-align: center;"><i>Danfoss</i></p>	<p>Type of Construction</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>List of supporting documentation and identification of the actual items to be registered:</p> <p>see enclosed document packs. - GBC, GBC</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

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Commissioner of Oaths

Or Notary Public: (sign) _____

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CRN: 0C24058.5

FID#: 1348

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- All Fittings shall be registered in the name of the Manufacturer.
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- 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: GBC shut-off ball valves. 45bar rated pressure; 11/2016 -40C to 100C; Up to solder 2-5/8"ODF/ODM. CDI - A536; CRN expires July 4th, 2032 (DGallant)

Sect. 1.0 - Fittings Rev.2