

14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Tel.: 416.734.3300

Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

May 19, 2016

EIGIL HANSEN DANFOSS A/S DBS-A E14 S4B, NORDBORGVEJ 81 NORDBORG DK-6430 DK

Service Request Type: BPV-Fitting Registration

Service Request No.: 1778790

Your Reference No .:

Registered to: DANFOSS A/S

Dear EIGIL HANSEN,

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

CRN No.: 0F18477.5

Main Design No.: PRESSURE TRANSMITTER TYPE: MBS, AKS, EMP

Expiry Date: 19-May-2026

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

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

Yours truly,

Zivko Gacevic P. Eng. Mechanical Engineer, BPV

Tel.: 416-734-3429 Fax: 416-231-6183

Email: zgacevic@tssa.org





TECHNICAL STANDARDS & SAFETY AUTHORITY 14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4

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



STATUTORY DECLARATION				
Registration of Fittings				
, Christian Dall Larsen, Director, Product Management &Tech.Support				
(Name and Position, e.g. President, Plant Manag	er, Chief Engineer)			
of Danfoss A/S				
(Name of Manufacturer)				
Located at Nordborgvej 81, DK 6430 Nordborg	+45 74882086	+45 74884318		
(Plant Address)	(Telephone No.)	(Fax No.)		
do solemnly declare that the fittings listed hereunder, which are subject and Pressure Vessels Regulation, comply with all of the requirements	to the <i>Technical Standard</i> of	Is and Safety Act, Boilers		
(Tille of recognized North American Star				
which specifies the dimensions, materials of construction, pressure/temperatu	re ratings, identification markin	g the fittings and service;		
or are not covered by the provisions of a recognized North American states EN 13445 ANSI B16.34 as supported by the attached data pressure/temperature ratings and the basis for such ratings, the marking	which identifies the dimensio	ns, material of construction.		
I further declare that the manufacture of these fittings is controlled by a quality s ISO/TS 16949which has been verified by the following authority, BUREAU V		ents of ISO 9001		
The items covered by this declaration, for which I seek registration, are category Type		type fittings. In support of		
this application, the following information and/or test data are attached as follows:				
Documents and pressure test report for pressuretransmitter Type: MBS, AK. (drawings, calculations, test reports,				
(urawnigs, calculations, test reports,	etc.)			
Declared before me at in the	4 1	of		
the day of <u>December AD 20 15</u> .	,			
Commissioner for Oaths:				
(Printed name)	Media			
(Signature)	(Signature of D	Declarer)		
FOR OFFICE USE ONLYStandards To the best of my knowledge and belief, the application meets the requirements of the nd Safety Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category				
CRN: OF 18477.5	RE GIST			
Registered by: ZIVKO GACEVIC	C.R.N.: 0F1847			
Registered by: ZIVICO GACEVIC Dated: May 19 2016	Signed: Lacue	1		
NOTE: This registration expires on May 19 2026 Date: May 19, 2016				

Note: Please see the attachment dor the scope of registration.



Scope for CRN registration of Danfoss pressure transmitter.

Date 2016.05.09

Danfoss A/S at the division Industrial Automation Nordborg Denmark are producing pressure transmitter mainly for refrigeration applications.

This application covers all the products in the type designations:

- MBS
- AKS
- EMP

The principal design for all types are a metal housing made of stainless steel and a pressure sensor made of stainless steel housing containing a stainless steel diaphragm and piezo electrical measuring device.

The differences of the types are mainly in the design of the housings, mainly 5 types and then the different ratings of the specific types.

An overview of the types is shown on the Application drawing 060R3155.

To verify the strength of the complete production range of each type the pressure tests are performed on samples with the highest rated design pressure.

Scope for this new application is the registration of the following pressure transmitters:

Type:	Temperature range	MAWP (bar)
MBS	-40° - +125°C (-40° - +257°F)	0 - 600 bar (0 - 8700 psi)
AKS	-40° - +85°C (-40° - +185°F)	0 – 160 bar (0 – 2320 psi)
EMP	-40° - +100°C (-40° - +212°F)	0 – 250 bar (0 – 3625 psi)

And we want to apply for a Canadian national registration in all provinces and territories.

Danfoss A/S

Senior approval consultant

Eigil Hansen

THIS IS PART OF CRN OF 18477.5

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

26. 5/19/16

Туре	ID-Type	Pressure range [bar] MIN / MAWP	Pressure range (psi) MIN / MAWP	Ambient temperature range [°C] TS MIN / TS Maks	Ambient temperature range [°F]
MBS 32	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 33	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 32R	Α	0,00 - 5,00 bar	0,00 - 72,52 psi	-40 - 85 °C	-40 - 185 °F
MBS 33M	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 2000	Α	-1.00 - 3.00 bar	-14,50 - 43,51 psi	-40 - 85 °C	
MBS 2050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 2100	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 185 °F
MBS 2150	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 2200	Α	0,00 - 25,00 bar	0,00 - 362,59 psi	-20 - 125 °C	-40 - 257 °F
MBS 2250	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-20 - 125 °C	-4 - 257 °F
MBS 3000	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-4 - 257 °F
MBS 3050	A	0,00 - 600,00 bar	0,00 - 8.702,26 psl	-40 - 85 °C	-40 - 185 °F
MBS 3053	Α	0,00 - 6,00 bar	0,00 - 87,02 psi		-40 - 185 °F
MBS 3100	A	0,00 - 400,00 bar	0,00 - 57,02 psi	-40 - 85 °C	-40 - 185 °F
MBS 3150	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 3153	A	0,00 - 40,00 bar		-40 - 85 °C	-40 - 185 °F
MBS 3200	A	0,00 - 250,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
MBS 3250	A	0,00 - 400,00 bar	0,00 - 3.625,94 psi	-40 - 125 °C	-40 - 257 °F
MBS 3300	C	0,00 - 40,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
MBS 3350	С	0,00 - 600,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 4050	A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
MBS 4201	Â	0,00 - 000,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 4251	A	0,00 - 25,00 bar	0,00 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
MBS 4500	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 4550	A		0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
MBS 4701	A	0,00 - 250,00 bar	0,00 - 3.625,94 psl	-40 - 85 °C	-40 - 185 °F
VIBS 4751	A	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
MBS 5150	D	0,00 - 500,00 bar	0,00 - 7.251,89 psi	-40 - 85 °C	-40 - 185 °F
MBS 5153	D	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 8200	E	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
MBS 8250	E	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
AKS 32	A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
AKS 32R	A	-1,00 - 50,00 bar	-14,50 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
AKS 32R	A	-1,00 - 34,00 bar	-14,50 - 493,13 psi	-40 - 85 °C	-40 - 185 °F
AKS 32K		0,00 - 50,00 bar	0,00 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
AKS 1008	A	0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
	Α .	0,00 - 48,26 bar	0,00 - 700,00 psi	-40 - 85 °C	-40 - 185 °F
KS 2050	A	-1,00 - 159,00 bar	-14,50 - 2.306,10 psi	-40 - 85 °C	-40 - 185 °F
KS 3000	Α	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
KS 3050	A	-1,00 - 25,00 bar	-14,50 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
EMP 2	В	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 100 °C	-40 - 212 °F

THIS IS PART OF CRN OF 18477.5

Technics Standards & Safety Authority Boilers & Pressure Vessels Safety Program

Z. 6. 5/19/16



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

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

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

Date:

August 9, 2016

Account #: 35231 Journal #: 66135 Our File #: 5603096

Attn: TANYA FRANCIS

Application for Design Registration

The design, as detailed in your, TSSA SR# 1886366, for a Fitting is accepted for registration as follows:

Registered To: DANFOSS AS

CRN:

0F18477.51

MDMT: -40 deg C

و بالوالخاء

MAWT: 125 deg C

MAWP: 8700 psig

Drawing #: 060R3155

Drawing Revision: 00

Conditions Of Registration:

Registration of Pressure Transmitters Type MBS, AKS, EMP as per scope of registration sheets (2 pages). 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 May 19, 2026. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

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

SHARON PETERS

boiler.designregistration@safetyauthority.ca **Design Administration**

cc:



Scope for CRN registration of Danfoss pressure transmitter.

Date 2016,05.09

Danfoss A/S at the division Industrial Automation Nordborg Denmark are producing pressure transmitter mainly for refrigeration applications.

This application covers all the products in the type designations:

- MBS
- AKS
- EMP

The principal design for all types are a metal housing made of stainless steel and a pressure sensor made of stainless steel housing containing a stainless steel diaphragm and piezo electrical measuring device.

The differences of the types are mainly in the design of the housings, mainly 5 types and then the different ratings of the specific types.

An overview of the types is shown on the Application drawing 060R3155.

To verify the strength of the complete production range of each type the pressure tests are performed on samples with the highest rated design pressure.

Scope for this new application is the registration of the following pressure transmitters:

Type:	Temperature range	MAWP (bar)
MBS	-40° - +125°C (-40° - +257°F)	0 – 600 bar (0 - 8700 psi)
AKS	-40° - +85°C (-40° - +185°F)	0 – 160 bar (0 – 2320 psi)
EMP	-40° - +100°C (-40° - +212°F)	0 – 250 bar (0 – 3625 psi)

And we want to apply for a Canadian national registration in all provinces and territories.

Danfoss A/S

Senior approval consultant

THIS IS PART OF CRN 0F18477.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

2.6. 5/19/2016



	Type	ID-Type	Pressure range [bar]	Pressure range (psi) MIN / MAWP	Ambient temperature range [°C] TS MIN./ TS Maks	Ambient temperature range [*F]
1	MBS 32	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
~	MBS 33	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F ·
* L	MBS 32R	A	0,00 - 5,00 bar	0,00 - 72,52 psi	-40 - 85 °C	-40 - 185 °F
ļ	MBS 33M	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
\sim \sim	MBS 2000	A	-1,00 - 3,00 bar	-14,50 - 43,51 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 2050	·A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
_ ⊢	MBS 2100	A	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
<u> </u>	MBS 2150	A	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
- 1	MBS 2200	. A	0,00 - 25,00 bar	0,00 - 362,59 psl	-20 - 125 °C	-4 - 257 °F
1-	MBS 2250	А	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-20 - 125 °C	-4 - 257 °F
-	MBS 3000	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 3050	A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
~ T	MBS 3053	A	0,00 - 6,00 bar	0,00 - 87,02 psl	-40 - 85 °C	-40 - 185 °F
	MBS 3100		0,00 - 400,00 bar	0,00 - 5,801,51 psi	-40 - 85 °C	-40 - 185 °F
./	MBS 3150	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
~	MBS 3153	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 3200	A	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 125 °C	-40 - 257 °F
-	MBS 3250	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
	MBS 3300	C	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
1	MBS 3350	C	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
~	MBS 4050	A	0,00 - 600,00 bar-	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 4201	A	0,00 - 25,00 bar	0,00 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
/	MBS 4251	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
)	MBS 4500) <u>A</u>	0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 4550) A	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 85 °C	-40 - 185 °F
-	MBS 470	1 A	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
V	MBS 475	1 A	0,00 - 500,00 bar	0,00 - 7.251,89 psi	-40 - 85 °C	-40 - 185 °F
/	MBS 515		0,00 - 400,00 bar	0,00 - 5.801,51 psl	-40 - 85 °C	-40 - 185 °F
~	MBS 515		0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
	MBS 820		0,00 - 400,00 bar	0,00 - 5,801,51 psi	-40 - 125 °C	-40 - 257 °F
レ	MBS 825		0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
V	AKS 32		-1,00 - 50,00 bar	-14,50 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
	AKS 32F		-1,00 - 34,00 bar	-14,50 - 493,13 psi	-40 - 85 °C	-40 - 185 °F
	AKS 32F		0,00 - 50,00 bar	0,00 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
Ų	AKS 33		0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
v	AKS 100		0,00 - 48,26 bar	0,00 - 700,00 psi	-40 - 85 °C	-40 - 185 °F
C	AKS 205		-1,00 - 159,00 bar	-14,50 - 2,306,10 psi	-40 - 85 °C	-40 - 185 °F
V	AKS 300		0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
V	AKS 305		-1,00 - 25,00 bar	-14,50 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
	EMP 2	B	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 100 °C	-40 - 212 °F

THIS IS PART OF CRN OF 18477.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

7.6. 5/19/16



9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

August 09, 2016

Attention: Tanya Francis

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

The design submission, tracking number 2016-03398, originally received on June 17, 2016 was surveyed and accepted for registration as follows:

CRN:

0F18477.52

Accepted on: August 09, 2016

Reg Type:

New Design

Expiry Date: May 19, 2026

Drawing No.: SCOPE ATTACHED TO STATUTORY DECLARATION (AB-41) FORM

Fitting type: PRESSURE TRANSMITTER, TYPE: MBS, AKS, EMP

Design registered in the name of : DANFOSS A/S

Description	MAWP	Design Temperature	MDMT
MBS	60000kPa	125 °C	-40 °C
AKS	16000kPa	85 °C	-40 °C
EMP	25000kPa	100 °C	-40 °C

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

TSSA SR# 1886028

- This registration has been issued:
- 1. Based on TSSA's review.
- 2. Based on the Association of Chief Inspectors Policy on Reciprocal Recognition of Design Review. This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.

Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

RADISAVLJEVIC, ZANA, R.E.T.

Zana Padisay/jevil





STATUTORY DECLARATION Registration of Fittings



I,	Christian Dall Larsen ,
22 D20cana	Director Product Management & Techn. Support
(comp	pany title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)
of	Danfoss A/S Nordborg factory
_	(name of manufacturer)
locate	
	(plant address)
	lemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act k one)
	comply with the requirements of which specifies the dimensions,
	(title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
\boxtimes	are not covered by the provisions of a recognized North American standard and are therefore manufactured to
	comply with ANSI 16.34 and EN 13445 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 furth	ner declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the
follov	ving authority, BUREAU VERITAS as being suitable for the manufacture of these fittings to the
stated	standard. The fittings covered by this declaration, for which I seek registration, are Type F
In sup	pport of this application, the following information, calculations and/or test data are attached:
Docui	ments for Pressure transmitter Type: MBS, AKS, EMP
DECL	_ARED before me at in the of
this _	3 day of December, 2015 (Month), (Year)
(print)	Christian Dall Larsen
(sign)	(Signature of Applicant)
	(A Commissioner for Oaths)
For O	Office Use Only
	e best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard
вэ1, (Clause 4.2, and is accepted for registration in Category
Regist	tration Number:
Date I	Registered: (For the Administrator/Chief Inspector of Alberta) Expiry Date:
informat	ion you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.



Scope for CRN registration of Danfoss pressure transmitter.

Date 2016.05.09

Danfoss A/S at the division Industrial Automation Nordborg Denmark are producing pressure transmitter mainly for refrigeration applications.

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- **AKS**
- **EMP**

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MBS	-40° - +125°C (-40° - +257°F)	0 - 600 bar (0 - 8700 psi)
AKS	-40° - +85°C (-40° - +185°F)	0 - 160 bar (0 - 2320 psi)
EMP	-40° - +100°C (-40° - +212°F)	0 - 250 bar (0 - 3625 psi)
	Autoria ONIO	

And we want to apply for a Canadian national registration in all provinces and territories. SAFETY CODES ACT - PROVINCE OF ALBERTA

Danfoss A/S

Senior approval consultant

REGISTRATION OF FITTINGS

REGISTRATION NO.

DWG. NO. or CAT. NO. Per

TYPE OF FITTINGS

Date

ZANA RADISAVLJEVIC, R.E.T. **DESIGN SURVEYOR**

Туре	ID-Type	Pressure range [bar] MIN / MAWP	Pressure range (psi) MIN / MAWP	Ambient temperature range [°C] TS MIN / TS Maks	Ambient temperature range [°F]
MBS 32	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 33	A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 32R	Α	0,00 - 5,00 bar	0,00 - 72,52 psi	-40 - 85 °C	-40 - 185 °F
MBS 33M	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 2000	Α	-1,00 - 3,00 bar	-14,50 - 43,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 2050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 2100	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 2150	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 2200	Α	0,00 - 25,00 bar	0,00 - 362,59 psi	-20 - 125 °C	-4 - 257 °F
MBS 2250	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-20 - 125 °C	-4 - 257 °F
MBS 3000	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 3050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psl	-40 - 85 °C	-40 - 185 °F
MBS 3053	Α	0,00 - 6,00 bar	0,00 - 87,02 psi	-40 - 85 °C	-40 - 185 °F
MBS 3100	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 3150	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 3153	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
MBS 3200	Α	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 125 °C	-40 - 257 °F
MBS 3250	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
MBS 3300	С	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	
MBS 3350	С	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
MBS 4050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 257 °F
MBS 4201	Α	0,00 - 25,00 bar	0,00 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
MBS 4251	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 4500	Α	0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
MBS 4550	Α	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 85 °C	-40 - 185 °F
MBS 4701	Α	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F -40 - 185 °F
MBS 4751	Α	0,00 - 500,00 bar	0,00 - 7.251,89 psi	-40 - 85 °C	-40 - 185 °F
MBS 5150	D	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
VIBS 5153	D	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
MBS 8200	E	0,00 - 400,00 bar	0,00 - 5,801,51 psi	-40 - 125 °C	-40 - 185 °F
MBS 8250	E	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
AKS 32	Α	-1,00 - 50,00 bar	-14,50 - 725,19 psi	-40 - 85 °C	-40 - 257 °F
AKS 32R	A	-1,00 - 34,00 bar	-14,50 - 493,13 psi	-40 - 85 °C	
AKS 32R	Α	0,00 - 50,00 bar	0,00 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
AKS 33	Α	0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
AKS 1008	Α	0,00 - 48,26 bar	0,00 - 700,00 psi	-40 - 85 °C	-40 - 185 °F
AKS 2050	A	-1,00 - 159,00 bar	-14,50 - 2.306,10 psi	-40 - 85 °C	-40 - 185 °F
AKS 3000	A	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
KS 3050	Α	-1,00 - 25,00 bar	-14,50 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
EMP 2	В	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 100 °C	-40 - 185 °F -40 - 212 °F



Inspection and Technical Services Manitoba

500 - 401 York Avenue Winnipeg Manitoba R3C 0P8 T (204) 945-3373 F (204) 948-2309

www.firecomm.gov.mb.ca/codes_steam_pressure.html

September 7, 2016

TSSA 345 Carlingview Drive Toronto, ON M9W 6N9

Attn: Tanya Francis

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: Danfoss A/S

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

DRAWING / CATALOGUE	CRN	FILE
PRESSURE TRANSMITTER: MBS, AKS, EMP	0F18477.54	36734

An invoice covering survey and registration fees is enclosed.

NOTE:

- CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: TSSA.
- See attached stamped "this is part of CRN" for scope of registration.
- This registration expires May 19, 2026.

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

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

Yours truly,

Rabie Harb, E.I.T.

Design Surveyor

Office of the Fire Commissioner

Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg, Manitoba, R3C 0P8

Phone: 204-945-3373

Email: rabie.harb@gov.mb.ca





TECHNICAL STANDARDS & SAFETY AUTHORITY 14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLAI Registration of Fitting		
Christian Dall Larsen, Director, Product Management & Tech Support		
(Name and Position, e.g. President, Plant Manager, Chie	f Engineer)	
of Danfoss A/S		
(Name of Manufacturer)		
Located at Nordborgvej 81, DK 6430 Nordborg	+45 74882086	+45 74884318
(Plant Address)	(Telephone No.)	(Fax No.)
do solemnly declare that the fittings listed hereunder, which are subject to the and Pressure Vessels Regulation, comply with all of the requirements of	Technical Standard	s and Safety Act, Boilers
(Title of recognized North American Standard) which specifies the dimensions, materials of construction, pressure/temperature ratir	ngs, identification markin	g the fittings and service;
or are not covered by the provisions of a recognized North American standard EN 13445 ANSI B16.34 as supported by the attached data which pressure/temperature ratings and the basis for such ratings, the marking of the	identifies the dimension	ns, material of construction,
I further declare that the manufacture of these fittings is controlled by a quality system ISO/TS 16949 which has been verified by the following authority, BUREAU VERITA	meeting the requireme	ents of ISO 9001
The items covered by this declaration, for which I seek registration, are category Type F		type fittings. In support of
this application, the following information and/or test data are attached as follows:		
Documents and pressure test report for pressuretransmitter Type: MBS, AKS, EN	IP	
(drawings, calculations, test reports, etc.)		
Declared before me at in the		of
the 3 day of December AD 20/5.		
Commissioner for Oaths:	2	:
Commissioner for Outris.	1111	/7
(Printed name)	Milie	
(Signature)	(Signature of L	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	Inspection & Technical Services Manitoba	Office of the Fire Commissioner
CSA Standard B51 and is accepted for registration in Category	Manito	oba Ser
CRN: 0F/8477.54	KEGIS	11 CRN: 0F
Registered by: Resistered by:	Signed:	La rfart
Dated: 2016/04/07	Date: Zois	109/07
NOTE: This registration expires on Note: 19, 2016		

PV 09553 (06/04)



Scope for CRN registration of Danfoss pressure transmitter.

Date 2016.05.09

Danfoss A/S at the division Industrial Automation Nordborg Denmark are producing pressure transmitter mainly for refrigeration applications.

This application covers all the products in the type designations:

- MBS
- AKS
- EMP

The principal design for all types are a metal housing made of stainless steel and a pressure sensor made of stainless steel housing containing a stainless steel diaphragm and piezo electrical measuring device.

The differences of the types are mainly in the design of the housings, mainly 5 types and then the different ratings of the specific types.

An overview of the types is shown on the Application drawing 060R3155.

To verify the strength of the complete production range of each type the pressure tests are performed on samples with the highest rated design pressure.

Scope for this new application is the registration of the following pressure transmitters:

Туре:	Temperature range	MAWP (bar)
MBS	-40° - +125°C (-40° - +257°F)	0 - 600 bar (0 - 8700 psi)
AKS	-40° - +85°C (-40° - +185°F)	0 – 160 bar (0 – 2320 psi)
EMP	-40° - +100°C (-40° - +212°F)	0 – 250 bar (0 – 3625 psi)

And we want to apply for a Canadian national registration in all provinces and territories.

Danfoss A/S

Senior approval consultant

Eigil Hansen



To:	TSSA	From:	Janet Townsend
Company:	Danfoss AS	Phone:	416-747-4291
Pages:	12	Location:	Toronto
Our File:	ANR-4143	Date:	September 1, 2016

Your File: 1886370

Subject: Request for Design Registration

Dear Ms. Francis.

CSA has reviewed the documentation submitted by TSSA on behalf of Danfoss AS These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0F18477.56.

The cost for this service is \$850.00 plus HST.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

Janet Townsend

Account Manager CSA Group

janet.townsend@csagroup.org

www.csagroup.org





TECHNICAL STANDARDS & SAFETY AUTHORITY 14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DEC Registration of F					
Christian Dall Larsen, Director, Product Management & Tech. Support					
(Name and Position, e.g. President, Plant Manager, Chief Engineer)					
of Danloss A/S					
(Name of Manufacturer)					
Located at Nordborgvej 81, DK 6430 Nordborg	+45 74882086 +45 74884318				
(Plant Address)	(Telephone No.) (Fax No.)				
do solemnly declare that the fittings listed hereunder, which are subject to the <i>Technical Standards and Safety Act</i> , Boilers and Pressure Vessels Regulation, comply with all of the requirements of					
(Title of recognized North American Sta					
which specifies the dimensions, materials of construction, pressure/temperate	ure ratings, identification marking the fittings and service;				
or are not covered by the provisions of a recognized North American s EN 13445 ANSI B16.34 as supported by the attached data pressure/temperature ratings and the basis for such ratings, the marking	which identifies the dimensions, material of construction,				
I further declare that the manufacture of these fittings is controlled by a quality s ISO/TS 16949 which has been verified by the following authority, BUREAU \					
The items covered by this declaration, for which I seek registration, are category Typ					
this application, the following information and/or lest data are attached as follows:					
Documents and pressure test report for pressuretransmitter Type: MBS, Af					
(drawings, calculations, lest reports	r, etc.)				
Declared before me at in the	of				
the 3 day of December AD 20/5.	·				
Commissioner for Oaths:	23				
(Back)	11/1/				
(Printed name)	Molley Co.				
(Signalure)	(Signature of Declarer)				
FOR OFFICE USE ON	IV				
To the best of my knowledge and belief, the application meets the requirements of Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation,	the GD CSA Group				
CSA Standard B51 and is accepted for registration in Category	REGISTERED				
CRN: CSA-OF18477.56	CRN.CSA-OF18477.18				
Registered by: A. BANWATT	ma - To				
. togistoroo by.	Signed: Company Signed:				
Dated: +VGUST 09 2016	Signed: Date: 09 August 2016				

PV 09553 (06/04)

Who see the attachment for the scope of the registration.





Scope for CRN registration of Danfoss pressure transmitter.

ATTACHMENT TO

CRN:CSA-0F18477.1

Signed:

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Date 2016.05.09

Danfoss A/S at the division Industrial Automation Nordborg Denmark are producing pressure transmitter mainly for refrigeration applications.

This application covers all the products in the type designations:

- MBS
- AKS
- EMP

The principal design for all types are a metal housing made of stainless steel and a pressure sensor made of stainless steel housing containing a stainless steel diaphragm and piezo electrical measuring device.

The differences of the types are mainly in the design of the housings, mainly 5 types and then the different ratings of the specific types.

An overview of the types is shown on the Application drawing 060R3155.

To verify the strength of the complete production range of each type the pressure tests are performed on samples with the highest rated design pressure.

Scope for this new application is the registration of the following pressure transmitters:

Type:	Temperature range	MAWP (bar)
MBS	-40° - +125°C (-40° - +257°F)	0 - 600 bar (0 - 8700 psi)
AKS	-40° - +85°C (-40° - +185°F)	0 - 160 bar (0 - 2320 psi)
EMP	-40° - +100°C (-40° - +212°F)	0 - 250 bar (0 - 3625 psi)

And we want to apply for a Canadian national registration in all provinces and territories.

Danfoss A/S

Senior approval consultant

Figit Hanson

THIS IS PART OF CRN 0F18977.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

2.6. 5/19/2016

_	Туре	ID-Type	Pressure range [bar] MIN / MAWP	Pressure range (psi) MIN / MAWP	Ambient temperature range [°C] TS MIN / TS Maks	Ambient temperature range [°I
/	MBS 32	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
/	MBS 33	A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 32R	Α	0,00 - 5,00 bar	0,00 - 72,52 psi	-40 - 85 °C	-40 - 185 °F
/	MBS 33M	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
	MBS 2000	Α	-1,00 - 3,00 bar	-14,50 - 43,51 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 2050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
	MBS 2100	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
I	MBS 2150	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
l	MBS 2200	· A	0,00 - 25,00 bar	0,00 - 362,59 psi	-20 - 125 °C	-4 - 257 °F
-	MBS 2250	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-20 - 125 °C	-4 - 257 °F
1	MBS 3000	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
ſ	MBS 3050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
Ī	MBS 3053	Α	0,00 - 6,00 bar	0,00 - 87,02 psi	-40 - 85 °C	-40 - 185 °F
	MBS 3100	Α	0,00 - 400,00 bar	0,00 - 5,801,51 psi	-40 - 85 °C	-40 - 185 °F
ſ	MBS 3150	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	
I	MBS 3153	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
ľ	MBS 3200	Α	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 125 °C	-40 - 185 °F
ľ	MBS 3250	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
Ī	MBS 3300	С	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
Ī	MBS 3350	С	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
Γ	MBS 4050	Α	0,00 - 600,00 bar-	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 257 °F
	MBS 4201	Α	0,00 - 25,00 bar	0,00 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
Ī	MBS 4251	Α	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
	MBS 4500	А	0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
	MBS 4550	А	0,00 - 250,00 bar	0,00 - 3.625,94 psl		-40 - 185 °F
-	MBS 4701	A	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C -40 - 85 °C	-40 - 185 °F
	MBS 4751	A	0,00 - 500,00 bar	0,00 - 7.251,89 psi	-40 - 85 °C	-40 - 185 °F
1	MBS 5150	D	0,00 - 400,00 bar	0,00 - 7.231,63 psi		-40 - 185 °F
	MBS 5153	D	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
Н	MBS 8200	E	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
-	MBS 8250	E	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
_	AKS 32	A	-1,00 - 50,00 bar		-40 - 125 °C	-40 - 257 °F
-	AKS 32R	A	-1,00 - 34,00 bar	-14,50 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
-	AKS 32R	A	0,00 - 50,00 bar	-14,50 - 493,13 psi	-40 - 85 °C	-40 - 185 °F
-	AKS 33	A	0,00 - 68,95 bar	0,00 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
_	AKS 1008	A	0,00 - 48,26 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
-	AKS 2050	A		0,00 - 700,00 psi	-40 - 85 °C	-40 - 185 °F
-	AKS 3000	A	-1,00 - 159,00 bar	-14,50 - 2.306,10 psi	-40 - 85 °C	-40 - 185 °F
-	AKS 3050	A	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
-	EMP 2	В	-1,00 - 25,00 bar	-14,50 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
_	LIVIF 4	D	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 100 °C	-40 - 212 °F



THIS IS PART OF CRN 0F 18477.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

7.6. 5/19/16



330 – 1855 Victoria Avenue Regina, SK S4P 3T2 PH: (306)798-7112 Toli Free: (866)530-8599 FAX: (306)787-9273 Toli Free: (866)760-9255 Email: bollerpermits@tsak.ca Website: www.tsak.ca

Statutory Declaration (Registration of Filings)

Declaration Informa	tion			
a Cons	nn Dall Larsen		In this space, show manufacturer's logo appear on the fitting	or trademark as it v
	lanagement & Techn. Suppo		appear on the name	0
(must be in a position of auti	hority in the manufacturing plant wi		B	and to be
•	Danfoss A/S Nordborg (name of manufacturer)			
cated at: Nordborgvej 8	1, Nordborg	Denmark	DK 6	
Plant Address - Plant Address of Solemnly declare that the Plant Safety Act (check of	fittings listed hereinunder,	(City,Prov) which are subject to the Sa	· 100	l Code) and Pressure
O Comply with the requi	rements of	w	hich specifies the di	mensions,
Materials of constructi		d North American Standard) e ratings and identification m	arking of the fittings,	, or
to comply with ANSI	16.34 and EN 13445	ed North American standard	as supported by t	he attached
	he dimensions, materials on the marking of the fittings for the fittings for the fittings for the fittings for the marking of the distributions.	of construction, pressure / te for identification.	mperature ratings ar	nd the basis
rified by the following auth	ority, Bureau Veritas		eing suitable for the	manufacturer
these fittings to the stated afrigeration valves	standard. The fittings cov	ered by this declaration, for	which I seek registra	ition, are
	-1	calculations and / or test da	ta are attached:	
support of this application, ocuments for pressu Declaration	-1		ta are attached:	
Declaration	re transmitter Type: N		ta are attached:	
Declaration	re transmitter Type: N	MBS, AKS, EMP		
Declaration CLARED before me at day of Christian Dall Larsen	re transmitter Type: N	MBS, AKS, EMP		h
Declaration CLARED before me at day of Christian Dall Larsen	re transmitter Type: N	MBS, AKS, EMP		h
Declaration CLARED before me at day of	re transmitter Type: N ln December	MBS, AKS, EMP		
Declaration CLARED before me at s day of Christian Dall Larsen (print name) Signature of Commissioner of Oats . Office Use Only	re transmitter Type: N ln December (1300)	the	of	ol Safety Act an
Declaration CLARED before me at day of Christian Dall Larsen (print name) Signature of Commissioner of Oalt Office Use Only the best of my knowledge and A B51, Clause 4.2, and is according to the commissioner of the commissioner of Oalt	In December (/Base) d belief, the application meet cepted for registration in Cate	the	ofof	
Declaration CLARED before me at s day of Christian Dail Larsen (print name) Signature of Commissioner of Oalf Office Use Only the best of my knowledge an A B51, Clause 4.2, and is acc	In December (13 and 15) d belief, the application meet capted for registration in Cate 147,56	the	ofof	Y. 19.20
Declaration CLARED before me at s day of Christian Dall Larsen (print name) Signature of Commissioner of Oats Office Use Only the best of my knowledge and A B51, Clause 4.2, and is accompany to the control of the	In December (1300) In December (1300)	the	ofof	Y. 19.20
Declaration CLARED before me at substitution Dail Larsen (print name) Signature of Commissioner of Oath Office Use Only the best of my knowledge an A B51, Clause 4.2, and is accommissioner of Daily (Kegistration Number)	In December (1300) In December (1300)	the	ofof	Y. 19.20
Declaration CLARED before me at day of Christian Dall Larsen (print name) Signature of Commissioner of Catt Office Use Only the best of my knowledge an A B51, Clause 4.2, and is accommissioner of Catt (Registration Number)	In December (/3a) In Oecember (/3a)	the	r and Pressure Vesse	VI (9.20 VIM DD YYYY) TSK- Rev. 09/
Declaration CLARED before me at s day of Christian Dall Larsen (print name) Signature of Commissioner of Oalt Office Use Only the best of my knowledge an A B51, Clause 4.2, and is accompany to the control of the c	In December (/3a) In Oecember (/3a)	the	r and Pressure Vesse	Y. 19.20





スプラス Scope for CRN registration of Danfoss pressure transmitter.

ATTACHMENT TO

Date 2016.05.09

OF18477.50

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Danfoss A/S at the division Industrial Automation Nordborg Denmark are producing pressure transmitter mainly for refrigeration applications.

This application covers all the products in the type designations:

- MBS
- **AKS**
- **EMP**

The principal design for all types are a metal housing made of stainless steel and a pressure sensor made of stainless steel housing containing a stainless steel diaphragm and piezo electrical measuring device.

The differences of the types are mainly in the design of the housings, mainly 5 types and then the different ratings of the specific types.

An overview of the types is shown on the Application drawing 060R3155.

To verify the strength of the complete production range of each type the pressure tests are performed on samples with the highest rated design pressure.

Scope for this new application is the registration of the following pressure transmitters:

Type:	Temperature range	MAWP (bar)
MBS	-40° - +125°C (-40° - +257°F)	0 - 600 bar (0 - 8700 psi)
AKS	-40° - +85°C (-40° - +185°F)	0 – 160 bar (0 – 2320 psi)
EMP	-40° - +100°C (-40° - +212°F)	0 – 250 bar (0 – 3625 psi)

And we want to apply for a Canadian national registration in all provinces and territories.

Danfoss A/S

Senior approval consultant

THIS IS PART OF CRN 0F18977.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

7.6. 5/19/2016

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

Туре	ID-Type	Pressure range [bar] MIN / MAWP	Pressure range (psi) MIN / MAWP	Ambient temperature range [°C] TS MIN / TS Maks	Ambient temperature range [°F
MBS 32	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 33	Α .	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 32R	Α	0,00 - 5,00 bar	0,00 - 72,52 psi	-40 - 85 °C	-40 - 185 °F
MBS 33M	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 2000	Α	-1,00 - 3,00 bar	-14,50 - 43,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 2050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 2100	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 2150	Α	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 2200	A	0,00 - 25,00 bar	0,00 - 362,59 psi	-20 - 125 °C	-4 - 257 °F
MBS 2250	А	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-20 - 125 °C	-4 - 257 °F
MBS 3000	А	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 3050	Α	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 85 °C	-40 - 185 °F
MBS 3053	A	0,00 - 6,00 bar	0,00 - 87,02 psi	-40 - 85 °C	-40 - 185 °F
MBS 3100	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	
MBS 3150	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 3153	A	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
MBS 3200	A	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 125 °C	-40 - 185 °F
MBS 3250	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
MBS 3300	C	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 125 °C	-40 - 257 °F
MBS 3350	C	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
MBS 4050	A	0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
MBS 4201	A	0,00 - 25,00 bar	0,00 - 362,59 psi		-40 - 185 °F
MBS 4251	A	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 4500	A	0,00 - 400,00 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
MBS 4550	A	0,00 - 250,00 bar		-40 - 85 °C	-40 - 185 °F
MBS 4701	A	0,00 - 60,00 bar	0,00 - 3.625,94 psi	-40 - 85 °C	-40 - 185 °F
MBS 4751	A	0,00 - 500,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
MBS 5150	D	0,00 - 400,00 bar	0,00 - 7.251,89 psi	-40 - 85 °C	-40 - 185 °F
MBS 5153	D		0,00 - 5.801,51 psi	-40 - 85 °C	-40 - 185 °F
MBS 8200	E	0,00 - 40,00 bar	0,00 - 580,15 psi	-40 - 85 °C	-40 - 185 °F
MBS 8250	E	0,00 - 400,00 bar	0,00 - 5.801,51 psi	-40 - 125 °C	-40 - 257 °F
AKS 32		0,00 - 600,00 bar	0,00 - 8.702,26 psi	-40 - 125 °C	-40 - 257 °F
AKS 32R	A	-1,00 - 50,00 bar	-14,50 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
AKS 32R	A	-1,00 - 34,00 bar	-14,50 - 493,13 psi	-40 - 85 °C	-40 - 185 °F
AKS 32R	A	0,00 - 50,00 bar	0,00 - 725,19 psi	-40 - 85 °C	-40 - 185 °F
	A	0,00 - 68,95 bar	0,00 - 1.000,00 psi	-40 - 85 °C	-40 - 185 °F
AKS 1008	Α .	0,00 - 48,26 bar	0,00 - 700,00 psi	-40 - 85 °C	-40 - 185 °F
AKS 2050	A	-1,00 - 159,00 bar	-14,50 - 2.306,10 psi	-40 - 85 °C	-40 - 185 °F
AKS 3000	A	0,00 - 60,00 bar	0,00 - 870,23 psi	-40 - 85 °C	-40 - 185 °F
AKS 3050	A	-1,00 - 25,00 bar	-14,50 - 362,59 psi	-40 - 85 °C	-40 - 185 °F
EMP 2	В	0,00 - 250,00 bar	0,00 - 3.625,94 psi	-40 - 100 °C	-40 - 212 °F



THIS IS PART OF CRN 0F 18477.5

Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

7.6. 5/19/16

Saskatchewan



Protection Fervices
330 - 1855 Victoria Avenus
Ragina, Enterichewan
sam 327

187-4509

April 23, 1998

Re: Fittings Registration

The Province of Saskatchewan will be participating with Quebec, Manitoba and the Canadian Standards Association (CSA) in a pllot project for the registration of fittings. We will recognize registrations done by CSA and accept such fittings for use in Saskatchewan.

The letters CSA will be applied as a prefix to the CRN to indicate which fittings have been registered in this manner. I would appreciate if you could inform your clients of this additional marking requirement.

You may also inform your clients that fittings registered by CSA are accepted for use in Saskatchewan.

Your truly,

N. Surtes, P. Eng. Executive Director



NOVA SCOTIA		
YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
Danfoss A/	'S	
n.		
TINGS TO BE REGISTERE	D. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCT
ings, tees, elbows, Ys, plug	s, unions, plpe caps, or reducers	ANSI 16.34
and steam traps	• •	EN 13445
iping and fusible plugs		
1 Class 2 Class 3 C	J, (Meeting AECB or ASME requirements)	
ME, TRADEMARK, OR LC	OGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
Dank	288 288	FORGED WELDED WROUGHY CAST OTHER DESCRIBE OTHER:
IMENITATION AND IDENTI	EICATION OF THE ACTUAL ITEMS TO BE DE	
or the end product do sole product for which regist ntification markings are in is regulated by a Quality ed by BUREAU VI	ed by <u>Danfoss A/S Nordborg</u> and be emnly declare that the information containe tration is sought. The dimensions, material n accordance with the herein named standar of Control Program which extends to each place. It is so the same force and e	ed in this form is true and to the be is of construction, pressure ards. I further declare that the lant where fabrication occurs in w
or the end product do sole product for which regist ntification markings are in is regulated by a Quality ed by BUREAU VI	emnly declare that the information containe tration is sought. The dimensions, material n accordance with the herein named standa r Control Program which extends to each pi ERITAS as being suitable for the	ed in this form is true and to the be is of construction, pressure ards. I further declare that the lant where fabrication occurs in w
or the end product do sole a product for which regist ntification markings are in its regulated by a Quality ed by BUREAU VI elieving it to be true, and	emnly declare that the information containe tration is sought. The dimensions, material n accordance with the herein named standa r Control Program which extends to each pi ERITAS as being suitable for the	ed in this form is true and to the be is of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem ffect as if made under oath.
or the end product do sole product for which regist intification markings are in its regulated by a Quality ed by BUREAU VI elieving it to be true, and	emnly declare that the information containe tration is sought. The dimensions, material in accordance with the herein named standar Control Program which extends to each plear the same force and each of the sam	ed in this form is true and to the be is of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem ffect as if made under oath.
or the end product do sole a product for which regist ntification markings are in its regulated by a Quality ed by BUREAU VI elieving it to be true, and	emnly declare that the information containe tration is sought. The dimensions, material in accordance with the herein named stands or control Program which extends to each plent in a speing suitable for the same force and each of the sam	ed in this form is true and to the bels of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem frect as if made under oath. SPACE FOR THE
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a product do sole a product for which regist it is regulated by a Quality ed by BUREAU VI elieving it to be true, and	emnly declare that the information containe tration is sought. The dimensions, material in accordance with the herein named stands of control Program which extends to each plender in a speing suitable for the same force and extended in the same for	ed in this form is true and to the belis of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem frect as if made under oath. SPACE FOR THE
of the end product do sole a product for which regist intification markings are in its regulated by a Quality ed by BUREAU VI elieving it to be true, and the complex AD (Affix Official seal to the right This	emnly declare that the information containe tration is sought. The dimensions, material in accordance with the herein named standar Control Program which extends to each pient of the same force and extending that it is of the same force and	ad in this form is true and to the bels of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem frect as if made under oath. SPACE FOR THE SPACE SAFETY OF PUBLIC SAFETY OF SAFETY
of the end product do sole a product for which regist intification markings are in its regulated by a Quality ed by BUREAU VI elieving it to be true, and the complex AD (Affix Official seal to the right This	emnly declare that the information containe tration is sought. The dimensions, material in accordance with the herein named standar Control Program which extends to each pient of the same force and extending that it is of the same force and	ed in this form is true and to the belis of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem ffect as if made under oath. SPACE FOR THE SPACE FOR THE CONTROL OF PUBLIC SAFETY DEFT OF PUBLIC SAFETY
of the end product do sole a product for which regist intification markings are in its regulated by a Quality ed by BUREAU VI elieving it to be true, and the complex AD (Affix Official seal to the right This	emnly declare that the information containe tration is sought. The dimensions, material in accordance with the herein named standar (Control Program which extends to each pick of the same force and extends to the sam	ad in this form is true and to the bels of construction, pressure ards. I further declare that the lant where fabrication occurs in what purpose and I make this solem frect as if made under oath. SPACE FOR THE SPACE SAFETY OF PUBLIC SAFETY OF PUBLIC SAFETY OF PUBLIC SAFETY
	Danfoss A/S: Nordborgy Nordborgy Nordborgy TINGS TO BE REGISTERE ings, tees, elbows, Ys, plug nections, and hose assem and steam traps g pressure gauges, level ga sure relief devices accepta ping and fusible plugs nts that do not fall into one 1 □ Class 2 □ Class 3 □ ME, TRADEMARK, OR LO	Danfoss A/S S: Nordborgvej 81, DK 6430 Nordborg Nordborgvej 81, DK 6430 Nordborg TINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY ings, tees, elbows, Ys, plugs, unions, plpe caps, or reducers nnections, and hose assemblies: all types and steam traps pressure gauges, level gauges, sight glasses, levels, or essure relief devices acceptable as primary over pressure protection on

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 at a maximum interval of five (5) years.

BLRS [

PVs

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03.12,2015 R/ 300/00 P



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

í	NEV	BRUNSWICK	C
		AVUT	

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: Danfoss A/S MANUFACTURERS ADDRESS: Nordborgvej 81, DK 6430 Nordborg PLANT LOCATIONS: Nordborgvej 81, DK 6430 Nordborg CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fillings, including couplings, leas, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all flanges C Valves: all flanges Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps EN 13445	
PLANT LOCATIONS: Nordborgvej 81, DK 6430 Nordborg CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY A Pipe fillings, including couplings, lees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all fine valves D Expansion joints, fields sensydors, and hose agreembles: all types ANSI 16.34	
Nordborgvej 81, DK 6430 Nordborg CATEGORY OF FITTINGS TO BE REGISTERED, CIRCLE ONE CATEGORY ONLY A Pipe fillings, including couplings, lees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all fine valves D Expansion joints, fiestible connections, and hose agreembles: all types ANSI 16.34	
A Pipe fillings, Including couplings, leas, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all flanguas E Stransfort joints, flexible connections, and hose assembles: all types E Strangers, fillers, sensyators, and team have	
B Flanges: all flanges C Valves: all flanges D Expansion joints, flexible connections, and hose assembles: all types E Straigers, filters, sensystem, and team have	UCTION
E Strainers, fillers, senarators, and steem trees	, IAALIAL
DN 1244E	
(F) Measuring devices, including pressure gauges, level passes and to place a level passes for the control of t	
G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on botters, 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 🖂 (Meating AECD or AGN)	
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION	-
Danfold Percent Welder Describe other	0
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
Documents and pressure test report for Pressure transmitter Type: MBS, AKS, EMP	
DECLARATION:	
Christian Dall Larsen (1940) employed by Danfoss A/S Nordborg and being the person having full authoresponsibility for the quality of the end product do solemnly declars that the Information contains the third solemnly declars that the Information contains the the I	
responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the my knowledge represents the product for which registration is acquired. The dimensions make the form is true and to the	odly a
emperature railings, and Identification and Identification and Identification pressure	
manufacture of these duties to security the transfer of the transfer of the transfer of the security the security the security the security that the security the security that the security the security that the	
or in part and has been verified by BUREAU VERITAS as being suitable for that sures a sure sures a sure sures a sure sures as sure sures as sure sure sures as sure sures as sure sures as sure sures as sure sure sures as sures as sure sures as sures as sures as sure sures as sures as sure sures as sure sures as sure sures as sure sures as sures as sure sures as su	whot
or in part and has been verified by <u>BUREAU VERITAS</u> as being suitable for that purpose and I make this sold declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.	nms
Signature of Declarer: Chilin Co	
Declared before me at	
This 3 day of December AD 2015	E
ULLIVIALSEVI	
Commissioner of Oalhs	
Commissioner of Oalhs or Notary Public: (sign)	
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right)	
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right)	
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right) This space for Regulatory Authority uso PRESS(This registration must be revalidated after ten (10) years from the state of accountages.	-
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right)	-
Commissioner of Oelhs or Notary Public: (sign) (Alfix Official seal to the right) This space for Regulatory Authority uso This registration must be revalidated after ten (10) years from the date of acceptance. CRN: OF 18477.5	
Commissioner of Oelhs or Notary Public: (sign) (Alfix Official seal to the right) This space for Regulatory Authority uso This registration must be revalidated after ten (10) years from the state of acceptance.	
Commissioner of Oelhs or Notary Public: (sign) (Affix Official seal to the right) This apace for Regulatory Authority uso This registration must be revalidated after ten (10) years from the date of acceptance. CRN: OF 18477.5 FID#: 1348 CRN. OF 18477.58	
Commissioner of Oalhs or Notary Public: (sign) (Affix Official seal to the right) This apace for Regulatory Authority use This registration must be revalidated after ten (10) years from the relation acceptance. CRN: OF 18477.5 FID#: 1348 CRN. OF 18477.58 Date Ture 24/16 CRN. OF 18477.58 Date Ture 24/16 CRN. OF 18477.58	
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right) This space for Regulatory Authority uso This registration must be revalidated after ten (10) years from the date of acceptance. CRN: OF 18477.5 FID#: 1348 CRN. OF 18477.58 Notas: 1. All fillings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Destrutors.	
Commissioner of Oaths or Notary Public: (sign) (Affix Official seal to the right) This apace for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance. CRN: OF 18477.5 FID#: 1348 CRN. OF 18477.58 Notas: 1. All fillings 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.	
Commissioner of Oelhs or Notary Public: (sign) (Affix Official seal to the right) This apace for Regulatory Authority use This registration must be revalidated after ten (10) years from the daily of acceptance. CRN: OF 18477.5 FID#: 1348 CRN. OF 18477.58 Notas: 1. All fillings 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 gasen having full supports and one copy of supporting documentation.	
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: OF 18477.5 FID#: 1348 CRN. OF 18477.58 Notas: 1. All fillings 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 each protection.	
Commissioner of Oalhs or Notary Public: (sign) (Affix Official seal to the right) This apace for Regulatory Authority use This registration must be revalidated after ten (10) years from the daily of acceptance. CRN: OF 18477.5 FID#: 1348 CRN. OF 18477.58 Notas: 1. All fillings 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 gerson having full subbodies and	



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNS	WICK
NUNAVUT	

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME:	Danfoss A/S	
MANUFACTURERS ADDRESS:	Nordborgvei 81, DK 6430 Nord	hore
PLANT LOCATIONS:	Nordborgvej 81, DK 6430 Nord	
CATEGORY OF FITTINGS	TO BE REGISTERED, CIRCLE ONE CATEGOR	DOCK THE DETHE DEVANDATE OF CONSTRUCTION
A Pipe fillings, including couplings, to 9 Flanges: all flanges C Valves: all line valves	ies, elbows, Ys, plugs, untons, plpo caps, or redu	cers
D Expansion Joints, flexible connection	eacy illa sessional assembles.	ANSI 16.34
E Strainers, filters, separators, and si Measuring devices, including press pressure transmitters	eam traps ute gauges, levol gauges, sight glassos, levole, c	
H Pressure retaining components the	t do not fall into one of the above categories	
N Nuclear components: Class 1 D	Class 2 [] Class 3 []. (Maeling AECB or ASME	(elnemolupo
HOW MANUFACTURERS NAME, T	RADEMARK, OR LOGO AS IT WILL APPEAR C	ON THE PRODUCT TYPE OF CONSTRUCTION
	Danfors	FORGEO Q WELDEO CO WROUGHT CO CAST CO OTHER CONTROL OTHER
LIST OF SUPPORTING DOCUMENT	ATION AND IDENTIFICATION OF THE ACTUA	LITEMS TO BE REGISTERED;
Documents and pressu	re test report for Pressure transmitto	r Type: MBS, AKS, EMP
ECLARATION:	14 V2 Total Control of the Control o	
ly knowledge represents the prod imperature tallings, and identificat nanufacture of these filtings is reg of in part and has been verified by	uct for which registration is sought. The din ion markings are in accordance with the he ulated by a Quality Control Program which in BTIREATIVERITAS	ordborg and being the person having full authority formation contained in this form is true and to the best nensions, materials of construction, pressure rein named standards. I further declare that the extends to each plant where fabrication occurs in who eling suitable for that purpose and I make this sotemn same force and effect as if made under oath.
ilgnature of Declarer. 440	irlle	
Declared before me at		USETHIS SPACE FOR THE
his 3 day of Decen	yber AD 2015	OFFICIAL SEAL
commissioner of Oaths r Notary Public: (sign)		
(Amx	Official seal to the right)	
William 1	This space for Regulatory Auth	oeu ylho
i his regis	tration must be revalidated after ten (10) yo	
CRN: OF18477.5	Santa A	ACCEPTED

FIO#;

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1. All filtings 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

at a maximum interval of five (5) years.

1348

PROVINCE OF PRINCE EDWARD INLAND COMMUNITIES, LAND & ENVIRONMENT

DATE

INSPECTION SERVICES SECTION

DOILER/PRESSURE VESSEL BRANCH Grundata. 540893 01 0000.0011 60300-00900/2018

03.12.2015 RA 300,00 P

Agrborg

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

7/			STAIL ON THE REGISTRATION	OF FITTING DESIGNS
11	HEM BLINSMICK	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	IEWFOUNDLAND AND LABRADOR
ſ	MANUFACTURERS NAME:	Danfoss A/S	The second secon	
	MANUFACTURERS ADDRESS		, DK 6430 Nordborg	
	PLANT LOCATIONS:	Nordborgyci 81	DK 6430 Nordborg	
1	CATEGORY OF FITT	INGS TO BE REGISTERED, CI	RCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
	A Pipe littings, including coupling B Flanges: all llanges	ngs, tees, elbows, Ys, plugs, unio	ns, pipe caps, or reducers	
	C Valves: all line valves	appollous and barrens his		ANSI 16.34
	E Strainers, filters, separators.	nections, and hose assemblies: and steam traps		EN 13445
Ì	Measuring devices, including pressure transmitters			
	G Certified capacity-raied pres- bollers, pressure vessels, pig	sure relief devices acceptable as p	primary over prossure prolection on	
	H Pressure retaining componer	its that do not fall into one of the	above calegories	
	N Nuclear components: Class	1 D Class 2 D Class 3 D. (Me	ating AECB or ASMF regularments)	
-	SHOW MANUFACTURERS NA	ME, TRADEMARK, OR LOGO A	S. IT. WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
		D. 1		FORGED WELDED WROUGHY CAST OTHER DESCRIBE OTHER:
1		Hantoss		pescides (1) like
		0-1		
	LIST OF SUPPORTING DOCU	MENTATION AND IDENTIFICAT	ION OF THE ACTUAL ITEMS TO BE RE	GISTERED:
1				
-	Documents and p	ressure test report for Pre	essure transmitter Type: MBS,	AKS, EMP
-				\
1				
1				
l	Deal Lateral			
1	DECLARATION: Christian Dall Lar	SCD Issue was a smoloved by	Danfoes A/C Nordhard and but	ng the person having full authority and
ſ	esponsibility for the quality o	f the end product do solemnly	declare that the information contains	ng the person having full authority and d in this form is true and to the best of
i	amperature ratings and Iden	difficultion markings are in easy	ria adultic. The dimensions, material	s of construction, pressure
	the state of the s	ing. Foliatic a va polonopi el	roi Program which extends to each bi	ant where fabrication occurs to usual
	ilihev need sad bna haq ni to d viauolinelsanco notissisab	ad by <u>HUREAU VERIT</u>	CAS as being sultable for the same force and el	at purpose and I make this solemn
	//	grey in it to bo true, and know	wing that it is of the same force and el	lect as it made under oath.
,	Signature of Declarer:	myr cee		
	Declared before me at		USETHIS	SPACE FOR THE
<	This day of De	cemper AD 20,		ICIAL SEAL
	Commissioner of Oaths			
1	or Nolary Public: (sign)	(Affix Official sent to the right)		
		The state of the s	e for Regulatory Authority use	
	This	registration must be revalida	ted after ten (10) years from the date	of acceptance,
	CRN: 0F18477.5		,	Newforkuland
		discourse)		Labrador
	FID#: 1348	Name at	A	Barviso NI 10-1842250
	Notes			16 106 124
	Notes: 1. All fillings shall be registere	d in the name of the Manufacture	ar.	high-narring and inspection strates
	2. Each calegory shall be sup	ported with two Statutory Declara	••	constant to
	forms and one copy of support 3. The declaration shall be me	ide by the person having full auth		UNDER THE AUTHOR VOCANIE
	responsibility for the quality of	the end product, nall be resubmitted for validation	_	SUBLIC SAFET WIT AUD
	at a maximum interval of five (6) years.	Grundafa. 540893	CHANGE THE STATE OF THE STATE O
	I .		ARCHIGGO	GENTLE ZORTE PROTECTE A DETERMINE

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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

1	NEW BRUNSWICK				
	NUNAVUT				

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND

NEWFOUNDLAND AND LABRADOR

	NORTH	WEST TERRITORIES	
MANUFACTURERS NAME:	Danfoss A/S		
MANUFACTURERS ADDRESS:	Nordborgvej 81, DK 6	120 Noudhaus	
PLANT LOCATIONS:	Nordborgvej 81, DK 6	420 Nordhara	
CATEGORY OF FITTIN	IGS TO BE REGISTERED. CIRCLE ON	HE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe littings, including coupling	s, lees, elbows, Ys, plugs, unions, plpe	caps, or reducers	THE CHARDARD OF CONSTRUCTION
B Flanges: all flanges C Valvos: all line valves			
D Expansion joints, flexible conne	actions, and hose assemblies: all types		ANSI 16.34
E Strainers, filters, separators, and Measuring devices, including or	id steam traps ressure gauges, levol gauges, sight glas	nan lavala as	EN 13445
hiegarie transmitters .			
pullots, pressure vessels, pipin	re rellef devices acceptable as primary o ga and fusible plugs		
H Pressure retaining components	that do not fall into one of the above ca	tegories	
N Nuclear components: Class 1	☐ Class 2 ☐ Class 3 ☐, (Moeting AE	CB or ASME requirements)	
SHOW MANUFACTURERS NAME	, TRADEMARK, OR LOGO AS IT WIL	L APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
	0		FORGED [] WELDED [] WROUGHT []
	Danfoss		DESCRIBE OTHER:
	0		
LIST OF SUPPORTING DOCUME	ENTATION AND IDENTIFICATION OF	THE ACTUAL ITEMS TO BE RE	GISTERED:
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Documents and pre-	ssure test report for Pressure t	ransmitter Type: MRS	AKS RMD
		1,701 11180,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
DECLARATION:			
I Christian Dall Large	In (see sale 3) employed by Dan fo	en A/S Mordhaux L-	ng the person having full authority and
responsibility for the quality of the	ne end product do solemnly declare	that the Information containe	ing the person having full authority and d in this form is true and to the best of
my knowledge represents the p	roduct for which registration is soug	ht. The dimensions, material	s of construction, pressure
manufacture of these fittings is	regulated by a Quality Castel Day	with the nerein named standa	ards. I further declare that the
or in part and has been verified	by BUREAU VERITAS	as being sultable for th	ant where tabrication occurs in whole
declaration conscientiously beli	eving it to be true, and knowing tha	t It is of the same force and et	ant where fabrication occurs in whole at purpose and I make this solemn rifect as If made under oath.
Signature of Declarer:	Wir Cle		
Declared before me at		-	
This 3 day of Deci	ember AD 2015		SPACE FOR THE
	SUMPLY AD ECITY	_ OFF	ICIAL SEAL
Commissioner of Oaths or Notary Public: (sign)			
	Affix Official seal to the right)	wer	
		gulatory Authority use	
This re	egistration must be revalidated after	ten (10) years from the date	of accentance
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CRN: 01184//.5	-	(43.77)	
FID#: 1348		8/3/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		Gen. 0F 18477.5	Y
Notes:		DATE 6/23/2016	11
All fittings shall be registered in a second shall be assessed.	n the name of the Manufacturer,		
forms and one copy of supporting	ried with two Statutory Declaration	CRESS BRIME	Y
The declaration shall be made	by the person having full authority and	Theorem + 11.	
responsibility for the quality of the 4. Quality control programs shall	he resulted for walldallan		
at a maximum interval of five (5)	years,	Grundala, 540893	91 0000.0011 03.12 mg

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C Valves: all line valves Disparation plotine, floatible connections, and hose assemblics: all types E Strainer, flotine, floating processors augus, lovel gauges, eight glasses, levels, or pressure transmitters Cardiffied appeals, floating processors augus, lovel gauges, eight glasses, levels, or pressure transmitters Cardiffied appeals, pressure variety, popular of floating plugs In Nuclear compensate: Class 1 © Class 2 © Class 3 D, Mostling ACCB or ASME requirements) SHOW MANUEACTURERS NAME, TRADEMARK, DRLOSO AS IT WILL APPEAR ON THE PRODUCT PROCESSOR OF WALKES D	A Pipa fillings, including coup	ilings, lees, elbows, Ys, plugs, ur	nlons, pipo caps, or reducera	
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H Processor total related to geometric fields at 10 closes 3 Cl. (Bookan Action	G Certified capacity-rated pro	ssura rallat devices acceptable o	is primory over pressure protection on	
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Declaration: Christian Dall Larsen (case and a) employed by Danfoss A/S Nordborg and boing the person having full authority are responsibility for the quality of the end product do colemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is eought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards, first the manufacture of these filtings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole on in part and has been verified by a BURBAU VBRITAS as boing suitable for that purpose and i make this solamn dactaration conscientiously believing it to be true, and knowling that it is of the same force and effect as if made under oath. Signature of Declarer: Declared before me at This		Di intert	4	DESCRIBE OTHER;
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Commissioner of Oaths or Notary Public: (algn) This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the data of acceptance. Northwest Tarriones CRN: OF18477.5 FIDIF: 1348 Notes: 1. All fillings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Daclaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the and product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (6) years. 6 Fundo 63. 540393 01 Differ. 0011 03.12.20	This day of _	lecember AD 2)	
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK NUNAVUT

NOVA SCOTIA YUKON

PRINCE EDWARD ISLAND NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

, , , , , , , , , , , , , , , , , , , ,	NORT NORT	HWEST TERRITORIES	THIS ELLINDOR
MANUFACTURERS NAME:	Danfoss A/S		
MANUFACTURERS ADDRESS:	Nordborgvej 81, DK	6120 Norther	
PLANT LOCATIONS:	Nordharavei 81 DK	6/20 Mandle and	
CATEGORY OF FITTING	GS TO BE REGISTERED. CIRCLE	ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
A Pipe fillings, including couplings 3 Flanges: all flanges	s, taes, elbows, Ys, plugs, unions, pip	e caps, or reducers	THE STATIONARD OF CONSTRUCTION
Valves: all line valves			ANSI 16.34
Expansion joints, flexible connects Strainers, filters, separators, and	ctions, and hose assemblies: all type	\$	
Measuring devices, including pre	ossure gauges, level gauges, sight gi	assea, levels, or	EN 13445
Gertified capacity-rated pressure bollers, pressure vessels, ploton	e relief devices acceptable as primary	over pressure protection on	
Pressure retaining components	that do not fall into one of the above of	calegorles	
Nuclear components: Class 1 E	☐ Class 2 ☐ Class 3 ☐, (Meeting A	AECB or ASME requirements)	
HOW MANUFACTURERS NAME,	TRADEMARK, OR LOGO AS IT WI	ILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
	1.0		FORGED WELDED WROUGHT O
	Dantos		DESCRIBE OTHER:
	0		
IST OF SUPPORTING DOCUME	NTATION AND IDENTIFICATION OF	T WIN A CHILL IMMEDIA	
	THE BENTING TON OF	THE ACTUAL HEMS TO BE RE	GISTERED:
Doguments and pros	sure test report for Pressure		
	F I T COOKING	titudinities Type. Midd,	ALLO, EIVIP
ECLARATION:			
Christian Dall Larser	1(1340 note 3) employed by Danf	foss A/S Nordborg and bei	ing the person having full authority an
v knowledge represents the pr	e end product do solemnly declar	re that the Information containe	ng the person having full authority ar d in this form is true and to the best of
mneralure ratings and Identific	olion madiana and la control	inatellal	s of construction, pressure
		gram which extends to each ol	ords. I further declare that the ant where fabrication occurs in whole
in part and has been verified to	BUREAU VERITAS	as being sultable for th	at purpose and I make this solemn
ciaration conscientiously belie	ying It to be true, and knowling th	at it is of the same force and ef	fect as If made under oath.
gnature of Doctarer: 4	Vir Cla		
sclared before me at		— H S E T D L O	20405 7
is 3 day of Dece	unber AD 2015		SPACE FOR THE
ommissioner of Oaths	10_00)	OFF	ICIAL SEAL
Notary Public: (sign)		a see	and the same of th
	fix Official seal to the right)	TAN	· VAVUT
	This space for Re	edulathry Aldhordy use	
This reç	gistration must be revalidated after	e ten (10) years from the date	of acceptance d
CRN: 0F18477.5		Inmarat Pi	Cours Vessels Act
			TERED
FID#; 1348		1	LINED
Makene		CRN OF 18477	SN
Notes: 1. All fittings shall be registered in	the name of the Magnifesture	Date Sans 73	1,2016
2. Each calegory shall be supported	ad with two Statutory Declaration	1800 77 77	1010
forms and one copy of supporting	documentation	Signed tref	
 the declaration shall be made to responsibility for the quality of the 	by the person having full authority an	Chief hi	spector
 Quality control programs shall be 	of resubmitted for validation		
at a maximum Interval of five (5) ye	ears.	Territorian Rec	01 0000 0011 03.12.20