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**MANUFACTURER'S DECLARATION**

**Danfoss A/S**  
**Cooling Segment**

declares under our sole responsibility that the concentration of the 6 hazardous substances contained by

Product(s): Thermostatic expansion valves

Type(s): T/TE 2, TUA/TUAE, TUB/TUBE, TUC/TUCE, TCAE/TCBE/TCCE, TUH/TCHE. TXI

Covered by this declaration is as below:

部件名称 Part Name	有害物质含量表 Hazardous Substances Table					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
Types listed	X	O	O	O	O	O
<p>O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。 Indicates that this hazardous substance contained in all of the homogeneous material for this part is below the limit requirement in GB/T 26572;</p> <p>X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。 Indicates that this hazardous substance contained in at least one of the homogeneous material for this part is above the limit requirement in GB/T 26572;</p>						

Date 2019-11-25 Issued by Signature Name Dora Vagner Title Design Engineer	Date 2019-11-25 Approved by Signature Name Jesper Kirkegaard Title Engineering Director
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Danfoss only vouches for the correctness of the English version of this declaration. In the event of the declaration being translated into any other language, the translator concerned shall be liable for the correctness of the translation

# Ignition Assessment

Products:

T/TE 2, TXI

Design standard:

EN 12284

Application standard:

EN 378, ISO 5149, ASHRAE 15, IEC 60335 or equivalent standards.

EX range:

Zone 2 (Category 3, IIA)

Potential Ignition Source			Measures applied to prevent the source becoming effective	Ignition protection used	Checked:
Normal operation	Expected Malfunction	Rare Malfunction			
Frictional heat		N/A		Internal: The valve must only be used in closed circuit refrigeration system, where no oxygen is present. Acc. EN 378, ISO 5149, ASHRAE 15 or ISO 60335 or equivalent standard.  External: Constructional safety	Yes
Temperature			The temperature of all parts of the valve will be below 150 Deg.C		Yes
Materials:					
Magnesium		N/A	No magnesium is used on the valve	EN 13463-1	Yes
Sealing material		N/A	All materials compatible with the refrigerant		Yes
Non-conductive materials		N/A	Projected area less than 100cm <sup>2</sup>	EN 13463-1	Yes

# Ignition Assessment

Products:

TUH/ TCHE/ TCAE/ TUA/ TUAE and orifices/ TCBE/ TCCE/ TUB/ TUBE/ TUC/ TUCE

Design standard:

EN 12284

Application standard:

EN 378, ISO 5149, ASHRAE 15, IEC 60335 or equivalent standards.

EX range:

Zone 2 (Category 3, IIA)

Potential Ignition Source			Measures applied to prevent the source becoming effective	Ignition protection used	Checked:
Normal operation	Expected Malfunction	Rare Malfunction			
Frictional heat		N/A		Internal: The valve must only be used in closed circuit refrigeration system, where no oxygen is present. Acc. EN 378, ISO 5149, ASHRAE 15 or ISO 60335 or equivalent standard.  External: Constructional safety	Yes
Temperature			The temperature of all parts of the valve will be below 150 Deg.C		Yes
<b>Materials:</b>					
Magnesium		N/A	No magnesium is used on the valve	EN 13463-1	Yes
Sealing material		N/A	All materials compatible with the refrigerant		Yes
Non-conductive materials		N/A	Projected area less than 100cm <sup>2</sup>	EN 13463-1	Yes