



Danfoss A/S
 Refrigeration Controls
 DK-6430 Nordborg
 Denmark

Danfoss A/S

DK-6430 Nordborg
 Danmark
 CVR nr.: 20 16 57 15

Telefon: +45 7488 2222
 Fax: +45 7449 0949

MANUFACTURER'S DECLARATION

Danfoss A/S
 Danfoss Automatic Controls

declares under our sole responsibility that the product(s)

Thermostatic expansion valves, types: T/TE 2 and orifices (DK), TUA / TUAE and orifices, TUB / TUBE, TUC / TUCE, TCAE / TCBE / TCCE, TUH / TCHE, TXI
Solder adaptors for T/TE 2

Covered by this declaration is in conformity with the following directive(s), standard(s) or other normative document(s), provided that the product is used in accordance with our instructions.

Pressure Equipment Directive PED 2014/68/EU

Fluid group I and II

Maximum allowable Working Temperature: +100 °C (+212 °F) and

Maximum Working Pressure: 34 to 45,5 bar (depending on refrigerant)

Nominal bore: DN 6-16 mm or 1/4 - 5/8 inch, Category: a4p3.

2011/65/EU (RoHS)

EN 50581:2012-Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

In particular the following 6 substances:

Lead, Mercury, Cadmium, Hexavalent Chromium, PBB& PBDE.

References of other Technical Standards and Specifications used

EN 12284, 2003

- Refrigeration systems and heat pumps - valves - Requirements, testing and marking.
- Ignition assessment

Date 2017-03-21	Issued by Trine Frisk Design Engineer <i>Trine Frisk</i>	Date 2017-03-21	Approved by Jesper Kirkegaard R&D Director <i>Jesper Kirkegaard</i>
--------------------	---	--------------------	--

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:

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
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 ²	EN 13463-1	Yes

Assessment carried out by:	Date:
Bent Nielsen	2016.07.12
Approved by:	Date:
Jesper Kirkegaard	2016.07.12

Appendix to 068U9615 (Manufacturer's declaration TXV)

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