

**Danfoss A/S**6430 Nordborg  
Denmark  
CVR nr.: 20 16 57 15Telephone: +45 7488 2222  
Fax: +45 7449 0949**MANUFACTURER'S DECLARATION****Danfoss A/S****Cooling segment, RAC**

declares under our sole responsibility that the

**Product category:** Electric Expansion Valve

**Type designation(s):** ETS 12C, ETS 24C, ETS 25C, ETS 50C, ETS 100C, KVS 1C, KVS 2C, KVS 3C, KVS 5C

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.

The products covered by this declaration are considered not to be source of ignition caused by temperature and arcs/sparks when located in enclosures/areas where stagnation of flammable refrigerants may occur due to abnormal situation of a leakage in the refrigeration system.

The products comply with IEC/EN 60335-2-24 cl. 22.110, IEC/EN 60335-2-89 cl.22.109 and IEC/EN 60335-2-40, cl. 22.117 in normal and abnormal conditions and does have a maximum surface temperature < 105°C

IEC/EN 60335-2-24 and IEC/EN 60335-2-89 applications:

The products comply with IEC/EN 60335-2-24, Annex CC, IEC/EN 60335-2-89 Annex BB and are not considered as source of ignition.

IEC/EN 60335-2-40 applications:

The products comply with Cl. 16 - 22 of IEC/EN 60079-15 : 2010 and are not considered as source of ignition.

**Pressure Equipment Directive 2014/68/EU**

The above products have been evaluated in relation to the Directive 2014/68/EU and found falling under the clauses of Article 4 §3 for the valve, regardless of connected pipe dimensioning.

The products are compliant acc. to below standard:

EN 12284:2003 Refrigerating systems and heat pumps. Valves. Requirements, testing and marking, for valve body.

EN 14276-2:2011 Pressure equipment for refrigerating systems and heat pumps – Part 2: Piping, for extended connectors.

**Electromagnetic Compatibility (EMC) Directive 2014/30/EU**



The above products have been tested and approved compliant acc. to below standards used:

Radiated EMI: CISPR16-2-3/IEC61000-4-20, Class B limit.

Radiated RF Immunity: IEC61000-4-20, test level 20 and 60V/m, fault criteria A.

Conducted RF Immunity: IEC61000-4-6, test level 10Vrms, fault criteria A

EFT/Burst Immunity: IEC 61000-4-4, test level: 1,2,3 and 4kV; fault criteria A for 1 and 2kV, B for 3kv and C for 4kV.

Date: YYYY.MM.DD Place of issue: 2019.06.12 Nordborg	Issued by  <b>Signature:</b> <b>Name: : Nielsen Bent</b> <b>Title: Lead Design Engineer</b>	Date: YYYY.MM.DD Place of issue: 2019.06.12 Nordborg	Approved by  <b>Signature:</b> <b>Name: Kirkegaard Jesper</b> <b>Title: Director Engineering</b>
---	--	---	--

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