



**Danfoss A/S**

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**MANUFACTURER'S DECLARATION**

**Danfoss A/S**

**Danfoss Cooling Segment**

declares under our sole responsibility that the

**Product category :** Thermal Expansion Valves, Capacity Regulator, Flare/Solder Adaptor, Liquid Distributor

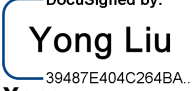

**Type designation(s):**

- Thermal Expansion Valves Type TD1/TDE1  
Type TE5-TE12-TE20-TE55
- Capacity Regulator Type TGE10-TGE20-TGE40
- Flare/solder Adaptor Type TGHE10-TGHE20-TGHE40
- Liquid Distributor Type FSA
- Type RD21-RD26-RD27-RD33-RD42-RD49-RD62-RD79-RD85

| Types    | DN (mm) | PS (bar) | Fluid Group      | PED category              | Standard   | Additional standard          |
|----------|---------|----------|------------------|---------------------------|--|------------------------------|
| TD1/TDE1 | 6~12    | 34       | 2 <sup>(1)</sup> | Article 4,<br>Paragraph 3 | PED 2014/68/EU<br>EN ISO 21922-2021 <sup>(a)</sup> | N/A                          |
| TD1/TDE1 | 6~12    | 34       | 1 <sup>(2)</sup> |                           |  |                              |
| RD       | 12-28   | 49       | 2                |                           |  |                              |
| TGE/TGHE | 6~32    | 49       | 2                |                           |  |                              |
| TGE/TGHE | 6~25    | 49       | 1                |                           |  |                              |
| TE5      | 12~25   | 34       | 1&2              |                           |  | CAS85535-84-8 <sup>(b)</sup> |
| TE12-55  | 12~25   | 28       | 1&2              |                           |  |                              |
| TE5-55   | 32      | 28       | 2                |                           |  |                              |
| FSA      | 6~18    | 46       | 1 & 2            |                           |  |                              |

**Note:**

1. Fluid group 2 (non-toxic and non-flammable refrigerants);
2. Fluid group 1 (flammable or toxic refrigerants);

|   |  |   |  |
|---|--|---|--|
| Date: 2025.03.12<br>Place of issue:<br>301700 Tianjin China | Issued by<br>DocuSigned by:<br><br><b>Yong Liu</b><br>39487E404C264BA...<br><b>Name: Liu Yong</b><br><b>Title: Senior Design Engineer</b> | Date: 2025.03.12<br>Place of issue:<br>301700 Tianjin China | Approved by<br>Signed by:<br><br><b>lishaohui</b><br>AA84EB33721F4AD...<br><b>Name: Li Shaohui</b><br><b>Title: Head of R&amp;D Hub China</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

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 2014/68/EU**

- a. EN ISO 21922-2021 "Refrigerating systems and heat pumps – Valves – Requirements, Testing and marking";
- b. Regulation of Kingdom of Norway, FOR-2004-06-01-922 "Product Control Regulation", §2-4. Short-chained chlorinated paraffin's.

**Ignition Hazard Assessments for component(s) used in fluid group I were conducted in accordance to :**

EN ISO 80079-36 Non-electrical equipment for explosive atmospheres – Basic method and requirements

The component(s) do not have its own source of ignition according to 2014/34/EU, Article 2 when operated as intended in normal conditions (Category3, Zone 2)

Equipment used for the above condition must be designed, installed and maintained according to: IEC60335-2-24/IEC60335-2-40/IEC60335-2-89/ EN378/ ISO5149/ GBT9237 or equivalent standards.