A world leader in climate and energy technology

The Danfoss Group operates globally with the primary aims of making modern living possible for our stakeholders and being a leader in refrigeration, heating, power electronics, and mobile hydraulics.

We employ 24,000 people, and produce approximately 250,000 components each day at our 76 factories in 25 countries.

We promise leadership in our businesses through reliability, excellence, and innovation – driving true customer satisfaction and solutions within climate and energy.

Main Features

Stainless steel, hermetically tight solder version
- High connection strength
- High corrosion resistance
- Capillary tube joints of high strength and vibration resistance

Bimetal connections
- Straightforward and fast soldering (no wet cloth or refrigeration pliers required).

Laser-welded stainless steel thermostatic element
- Longer diaphragm life
- High-pressure tolerance and working pressure
- High corrosion resistance

Compact design
- Small dimensions and low weight

Can be supplied with MOP (Maximum Operating Pressure)
- Protects the compressor motor against excessive evaporating pressure during normal operation

Laser-welded power element in stainless steel

JULIE Thermostatic Expansion Valve

Extensive experience in all key HVAC/R segments

Danfoss plays a leading role in research, development and production in a wide spectrum of industries, and has been a key player in the HVAC/R field for more than 75 years. Our Refrigeration & Air Conditioning Division designs, produces and markets a comprehensive range of automated solutions and components for a wide variety of HVAC/R segments, including:

- Heat Pumps
- Commercial Air Conditioning
- Residential Air Conditioning
- Commercial Refrigeration
- Household, Light Commercial and Mobile Refrigeration
- Wholesalers & Installers
- Industrial Refrigeration
- Food Retail

Learn more at ra.danfoss.com

Achieve the highest precision flow control - regardless of the system conditions

Wide range of thermostatic expansion valves

TU Celebrating 25 years of passion for expansion
Danfoss Thermostatic Expansion Valves are available as complete valves (fixed or parts programmes), with separate valve body and orifice assemblies.

Danfoss has an extensive experience as industry leader thanks to its recognised innovation. This experience is reflected in every feature of its Thermostatic Expansion Valve programme, which ensures the optimal performance for every RACV application.

In 2020, the company celebrated its passion for expansion with the 25th anniversary of the T2 series and the release of new Multi Electric Expansion Valves ETO, ESM for VRF, CCAC units and residential heat pumps.

Reliable function + Laser Welding + Wide capacity range.

**Choose the optimum solution**

**Type**
- TDU series
- TDB series
- TUA series
- TUB series
- TCAE
- TCBE
- TR6

**Technical Specifications**
- **Capacities** for R449A only  
- **External**
  - R404A/R452A/R448A/R449A
- **Internal**
  - R410A/R452A/R448A/R449A
- **Superheat**
  - R407C
- **Internal**
  - R410A/R452A/R448A/R449A
- **External**
  - R407C
- **Equalisation**
  - R407C
- **Max. working pressure (PS)**
  - 34 bar
  - 45.5 bar

**Main applications**
- A/C Systems
- Cold Room
- Computer Room
- Water Chiller
- Ice Making Machine
- Display Cabinets
- Commercial Refrigeration
- Heat Pumps

**Approvals**
- UL (angleway only)
- GOST / EAC

**Valve body configuration:**
- Single body
  - Brass / Flare / MIO
  - Copper / Flare / MIO

**Supplementary**
- UL (angleway only)
- ROFS

**Model number and parts list**

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**Capacity for:**
- R410A
- R452A
- R454B

**Standard temperature ranges available:**
- 6 - 30 °C

**Connections**
- Angled / Straightway
  - 90 °A - 45 °A
  - 90 °A - 45 °A
- Straightway
  - 90 °A - 45 °A
  - 90 °A - 45 °A

**Connections for valve body:**
- Single body
  - Brass / Flare / MIO
  - Copper / Flare / MIO

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**Main Characteristics**

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**Reliable function + Laser Welding + Wide capacity range.**

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