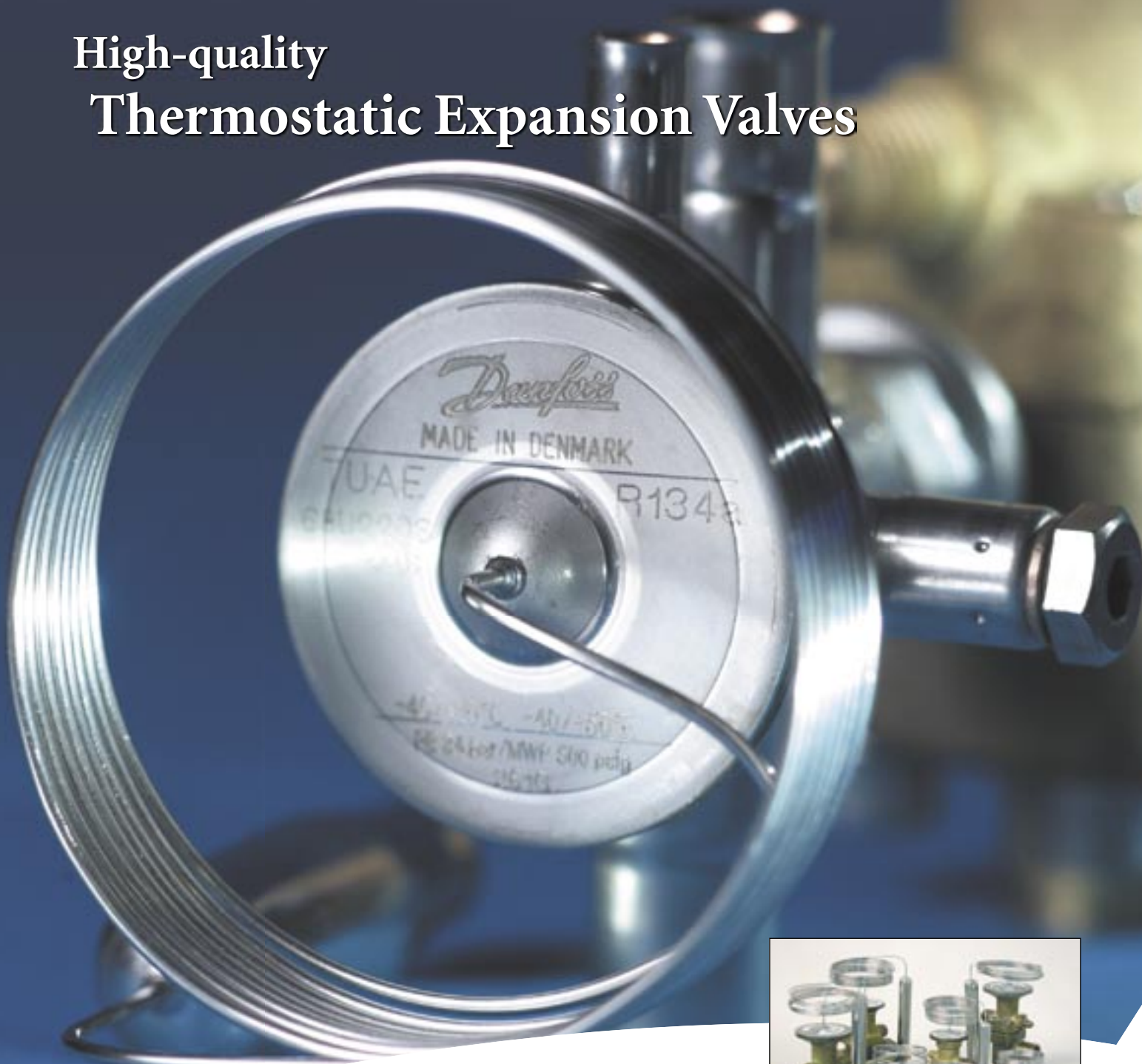




High-quality Thermostatic Expansion Valves



REFRIGERATION AND
AIR CONDITIONING



Danfoss - your solution provider

Danfoss offers a wide range of thermostatic expansion valves covering the majority of customer demands.

Our production utilises state-of-the-art processes and every product is thoroughly tested in accordance with the most demanding standards.

If the component you are looking for is not mentioned in this leaflet or if you have special requirements, our competent personnel are always ready with help and guidance.

Make sure you obtain the right solution - contact your local Danfoss sales company or find us on <http://www.danfoss.com/how2con/>



Thermostatic expansion valves, type T2 and TE2

- Large temperature range
Equally applicable to freezing, refrigeration and air conditioning applications
- Interchangeable orifice assembly designed for:
 - Easy mounting
 - Optimised tightness
- Available with MOP (Max. Operating Pressure)
- Patented double contact bulb
 - Fast and easy to install
 - Good temperature transfer from pipe to bulb
- Stainless steel power element

Facts:

- Rated capacities:
From 0.5 to 15.5 kW for R 22
- Max. working pressure:
28 bar
- Refrigerants:
R 22, R 407C, R 134a, R 404A / R 507



Thermostatic expansion valves, type TUA/TUAE

- Made of stainless steel
 - *Very suitable for refrigeration systems in the food industry*
- Interchangeable orifice assembly and adjustable superheat.
- Bimetal connections:
 - *Waterless brazing*
- Available with MOP (Max. Operating Pressure)
- Biflow function
- Patented double contact bulb
 - Fast and easy to install
 - Good temperature transfer from pipe to bulb

Facts:

- Rated capacities:
From 0.6 to 16 kW for R 22
- Max. working pressure:
34 bar
- Refrigerants:
R 22, R 407C, R 134a, R 404A / R 507, R 410A

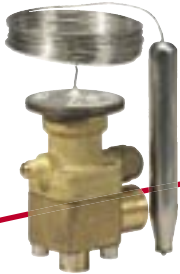


Thermostatic expansion valves, type TCAE

- Made of stainless steel
 - *Very suitable for refrigeration systems in the food industry*
- Interchangeable orifice assembly and adjustable superheat
- Bimetal connections:
 - *Waterless brazing*
- Available with MOP (Max. Operating Pressure)
- Biflow function
- Patented double contact bulb
 - *Fast and easy to install*
 - *Good temperature transfer from pipe to bulb*

Facts:

- Rated capacities:
From 17.5 to 26.5 kW for R 22
- Max. working pressure:
34 bar (42.5 bar for R 410A)
- Refrigerants:
R 22, R 407C, R 134a, R 404A / R 507, R 410A



Thermostatic expansion valves, type TE5 - TE20

- Large temperature range
Equally applicable to freezing, refrigeration and air conditioning applications
- Interchangeable orifice assembly designed for:
 - Easy mounting
 - Optimised tightness
- Available with MOP (Max. Operating Pressure)
- Patented double contact bulb
 - Fast and easy to install
 - Good temperature transfer from pipe to bulb
- Stainless steel power element

Facts:

- Rated capacities:
From 19.7 to 108 kW for R 22
- Max. working pressure:
22 bar
- Refrigerants:
R 22, R 407C, R 134a, R 404A / R 507



Thermostatic expansion valves, type TE55

- Large temperature range
Equally applicable to freezing, refrigeration and air conditioning applications
- Interchangeable orifice assembly designed for:
 - Easy mounting
 - Optimised tightness
 - Balanced port
- Available with MOP (Max. Operating Pressure)
- Patented double contact bulb
 - Fast and easy to install
 - Good temperature transfer from pipe to bulb
- Stainless steel power element

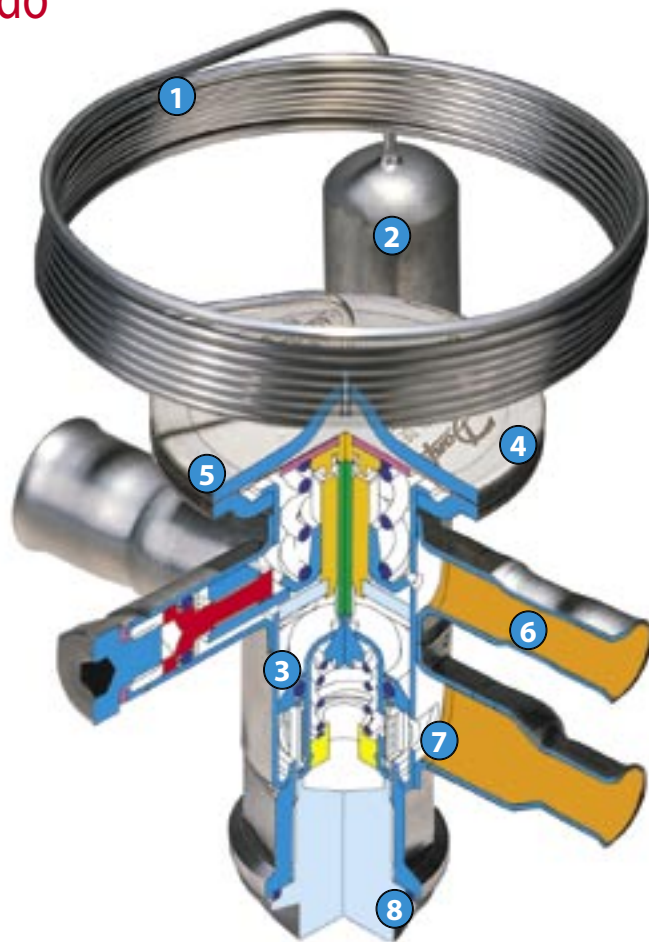
Facts:

- Rated capacities:
From 239 to 356 kW for R 22
- Max. working pressure:
22 bar
- Refrigerants:
R 22, R 407C, R 134a, R 404A / R 507



Quality in everything we do

- 1 *Stainless steel capillary tube for superior strength and ductility*
- 2 *Bulb with double contact surface for fast, safe and convenient mounting*
- 3 *The use of stainless steel makes the TU and TC valves light and strong and suitable for applications that are subject to vibration and mechanical shocks, e.g. transportation/ marine systems*
- 4 *Laser-engraved inscription will never wear out and can still be read after years of service*
- 5 *Laser-welded stainless steel thermostatic element for unsurpassed joint strength and operating life*
- 6 *Bi-metal connections (stainless steel with rolled-on copper cladding) for safe, fast and convenient copper-to-copper soldering*
- 7 *TUA/TCAE features a separate strainer, mounted on the orifice assembly for easy maintenance and cleaning*
- 8 *Each orifice features a label with information about size and code number*



Rated capacities in kW for R 22

| Type | Range N -40°C → + 10°C | Range B -60°C → -25°C | Connection |
|-----------------|---------------------------|--------------------------|--|
| T2/TE 2 | 0.5 → 15.5 | 0.5 → 7.0 | Flare × flare Flare × solder (copper) Solder × solder (copper) |
| TUA/TUAE | 0.6 → 16.0 | 0.52 → 10.4 | Stainless steel / copper bi-metal |
| TCAE | 17.5 → 26.5 | | Stainless steel / copper bi-metal |
| TE 5 | 19.7 → 55.3 | 11.9 → 35.4 | Solder × solder Straightway and angleway Flare × flare Angleway and Straightway |
| TE 12 | 26.8 → 84.4 | 17.2 → 55.9 | Solder × solder Straightway and angleway Solder flanges Straightway |
| TE 20 | 108.0 | 70.0 | Solder × solder Straightway and angleway |
| TE 55 | 239.0 → 253.0 | 148.0 | Solder × solder Straightway and angleway |

Refrigeration and Air Conditioning Controls, part of the Danfoss Group, is certified in accordance with international standards ISO 9001 and ISO 14001.

Danfoss thus fulfils international standards with respect to product development, design, production, sale and environmental awareness.

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