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.

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 compressors 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

A world leader in climate and energy technology

Danfoss is a world leader in climate and energy technology, with a wide range of thermostatic expansion valves that achieve the highest precision flow control—regardless of the system conditions. The valves feature: laser-welded stainless steel thermostatic element, bimetal connections, capillary tube and bulb in stainless steel, and can be supplied with MOP (Maximum Operating Pressure), which protects the compressor motor against excessive evaporating pressure during normal operation.

Main Features

- Stainless steel, hermetically tight solder version
- Straightforward and fast soldering (no wet cloth or refrigeration pliers required)
- Laser welded power element in stainless steel
- Extremely strong and corrosion resistant
- Long life
- High pressure tolerance and working pressure
- High corrosion resistance
- Compact design
- Small dimensions and low weight
- Laser engraved label
- Allen key superheat setting screw for easy adjustment
- Extremely strong and corrosion resistant
- Can be supplied with MOP (Maximum Operating Pressure)
- Protects the compressor motor against excessive evaporating pressure during normal operation
Danfoss Thermostatic Expansion Valves are designed to ensure a precise control of the injection of refrigerant liquid into the evaporator. They also contain the compressor against liquid refrigerant entering it.

Depending on type, the Thermostatic Expansion Valves are delivered with connections in SAE flare or solder type. Connections in either copper or stainless steel/copper bi-metal. The valves diaphragm assemblies are laser welded which ensures a long lifetime of the system.

Danfoss has an extensive experience as industry leader thanks to its recognised innovation experience in the field of Air Conditioning and Refrigeration. Danfoss has an extensive experience as industry leader thanks to its recognised innovation experience in the field of Air Conditioning and Refrigeration.

Danfoss’ range of Thermostatic Expansion Valves are compliant as complete valves (fixed orifice) or parts programme, i.e. with separate valve body and orifice assemblies.

Main applications

- Transport Refrigeration
- A/C Systems
- Commercial Refrigeration
- Heat Pumps
- Cold Room
- Computer Room
- Ice Making Machine
- Display Cabinets
- Orifice type
- Equalisation
- Superheat
- Capacity for R407C
- Charge
- Valve body configuration
- Element
- Approvals
- Connections
- Technical Specification
- Transport Refrigeration
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