



Thermostatic Expansion Valves

The Thermostatic Expansion Valves control the flow of liquid refrigerant. The ideal expansion device for most A/C & refrigeration applications.



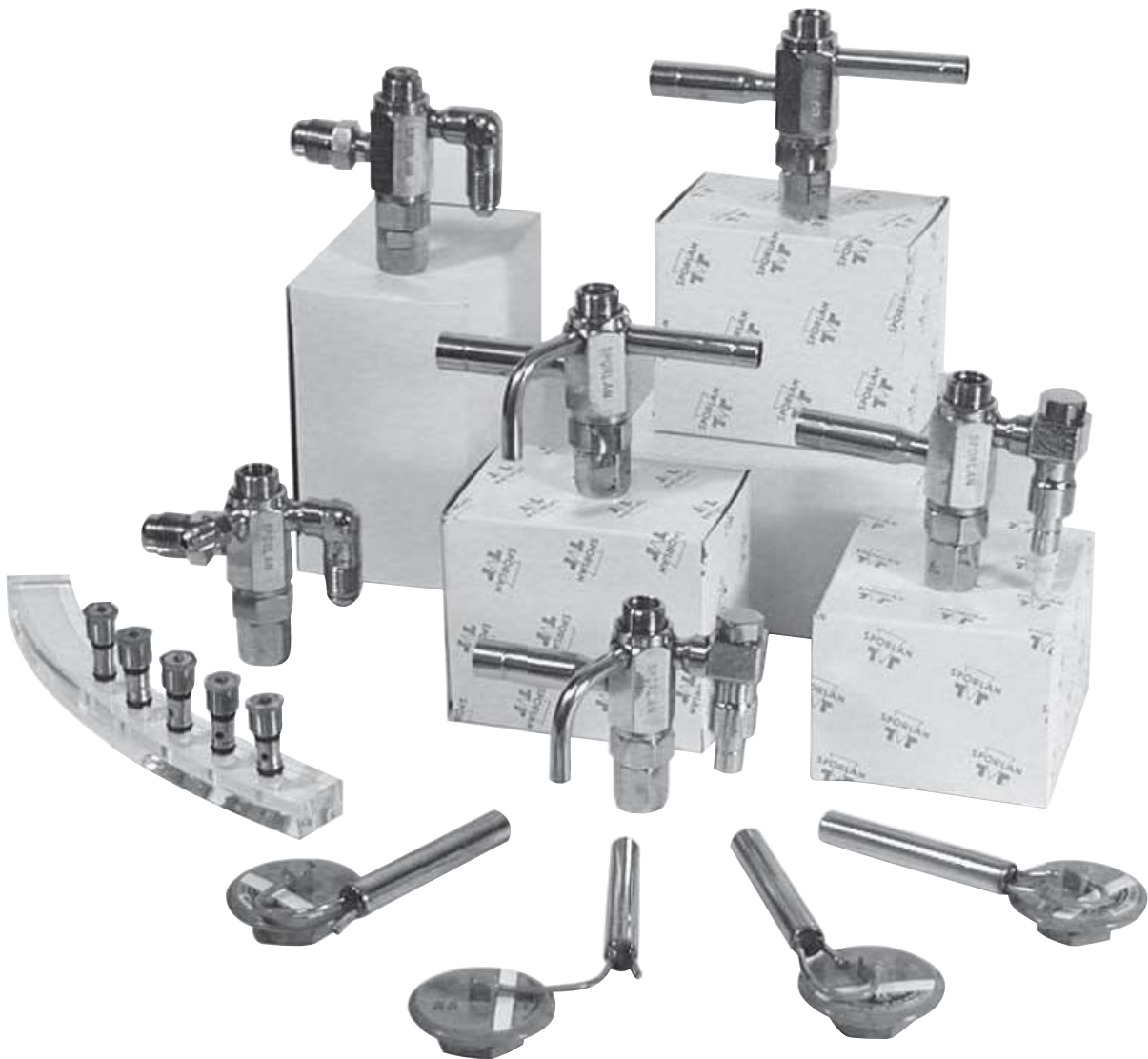
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Description

The **Thermostatic Expansion Valve (TEV)** controls the flow of liquid refrigerant entering the direct expansion (DX) evaporator by maintaining a constant superheat of the refrigerant vapour at the outlet of the evaporator.

The **TEV** controls the difference between the actual temperature and the saturation temperature of the refrigerant corresponding to the suction pressure at the sensing bulb location; this is superheat. By controlling superheat, the **TEV** keeps most of the evaporator surface active, while preventing liquid refrigerant from returning to the compressor.

The ability of the **TEV** to match refrigerant flow to the rate at which refrigerant can be vaporised in the evaporator makes the **TEV** the ideal expansion device for most air conditioning and refrigeration applications.



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Accurate at the time of going to print.