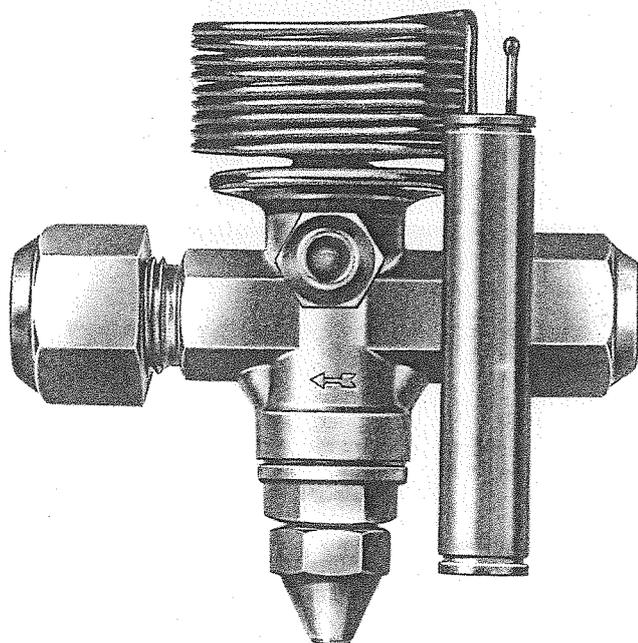


Thermostatic expansion valves with external pressure equalizer

TER/A



Application for general use

- Air-conditioning, refrigeration and freezer units.
- Heat pumps.
- Refrigeration for vans and trucks in units which have one or several evaporators.

Capacity

The indicated nominal capacity is related to -10° (14°F) evaporating temperature and 35°C (95°F) condensing temperature at 1 K subcooling of refrigerant.

For other temperature conditions – please refer to capacity tables.

Types and technical data

Type	Size	Nominal capacity in kW. (ton)				Thread UNF		Tube connections				Available for refrigerant	Weight	
		R 134 a	R 12	R 22	R 502	Inlet conn.	Outlet conn.	Inlet mm.	"	Outlet mm.	"		g.	ozs.
TER/A	5	16,7 (4,80)	13,4 (3,85)	22,3 (6,40)	15,2 (4,37)	3/4"	7/8"	12	1/2"	16	5/8"	R 134 a R 12	690	24,36
						7/8"	7/8"	16	5/8"	16	5/8"		720	25,41
TER/A	6	23,7 (6,81)	19,0 (5,46)	31,7 (9,11)	21,7 (6,24)	3/4"	7/8"	12	1/2"	16	5/8"	R 22 R 502	690	24,36
						7/8"	7/8"	16	5/8"	16	5/8"		720	25,41

Superheat

Factory-setting: 4 K.

- Normal and air-conditioning range related to bulb temperature 0°C (32°F).
- Low temperature range related to bulb temperature which corresponds to 1 bar (14 lbs. per \square inch) evaporating pressure (according to refrigerant).

Adjustment

One complete revolution of the adjusting screw effects an alteration of the superheat setting by approx. 0,2 bar (2,8 lbs. per \square inch).

- Clockwise rotation = higher superheat.
- Counter-clockwise rotation = lower superheat.

Element charge

Standard charge with pressure limited gas-ballast charge (MOP).

Temperature ranges and standard pressure limit (other pressure limits available to order)

		R 134 a	R 12	R 22	R 502
Refrigerator and air-conditioning range "N + K"	Range of evaporating temperature				
	from °C (°F)	10 (50)	10 (50)	10 (50)	10 (50)
	to °C (°F)	-40 (-40)	-40 (-40)	-40 (-40)	-40 (-40)
Pressure limit	bar (lbs per □ inch)	4,2 (59)	4,2 (59)	6,8 (95)	7,7 (108)
	°C (°F)	10 (50)	10 (50)	10 (50)	10 (50)
Low temperature range "T"	Range of evaporating temperature				
	from °C (°F)	-10 (14)	-10 (14)	-20 (-4)	-20 (-4)
	to °C (°F)	-40 (-40)	-40 (-40)	-60 (-76)	-60 (-76)
Pressure limit	bar (lbs per □ inch)	2,0 (28)	2,2 (31)	2,5 (35)	2,9 (41)
	°C (°F)	-10 (14)	-10 (14)	-20 (-4)	-20 (-4)

Special construction features

Diaphragm valve with stainless steel head, brass valve body
 maximum test pressure: 28 bar (392 lbs. per □inch)
 rupture pressure > 100 bar (1400 lbs. per □inch)
 length of capillary: 1,5 m
 connection pressure equalizing: 7/16" UNF thread
 maximum permissible temperature on the bulb: 200°C (392°F)
 maximum permissible temperature on the valve body 100°C (212°F)

Data requested when ordering

- valve type
- size
- refrigerant
- range
- thread connections inlet

If special construction is requested, please state in addition:

- pressure limit
- tube connections inlet/outlet.

Installation

Valve can be mounted in any position. In order to avoid influences on the bulb, we recommend to insulate the bulb (please refer to installation instructions).

Valves with pressure limited gas-charge should not be installed with thermal head downwards. Within a MOP valve the bulb should be the coldest spot i.e. capillary must not touch the evaporator.

Identification

- type
- size
- refrigerant
- MOP marked on the valve
- or
- code-no.

