

T2 / TE2, Thermostatic expansion valves

T2 / TE2 thermostatic expansion valves are used for liquid injection into evaporators on both refrigeration and air conditioning systems using fluorinated refrigerants e.g. R407C / R22, R134a, R404A / R507, R407C, R407F and R407A.

T2 / TE2 valves are supplied as a parts programme, with separate thermostatic element/valve body and orifice assembly. Available as angleway valves with flare x flare or flare x solder connection, with internal and external equalisation.

Features T2 / TE2



Laser-welded power element in stainless steel

- long diaphragm life
- high pressure tolerance and working pressure
- high corrosion resistance

Stainless steel capillary tube and bulb:

- high corrosion resistance
- high strength and vibration resistance

Flare or solder outlet

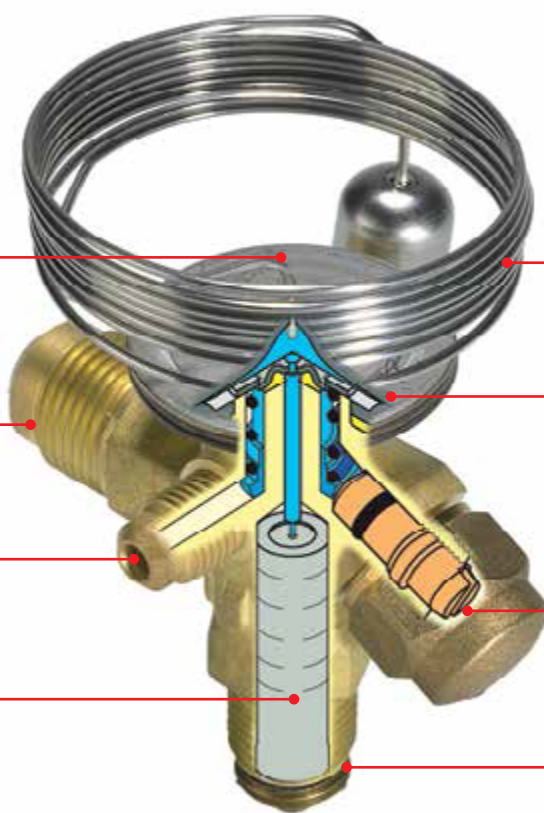
Laser-engraved label

Flare or solder pressure equalization

Easy adjustment of superheat setting

Interchangeable orifice assembly with dirt protection strainer

Flare inlet
Solder adaptor available as an option



Facts

Applications:

- Traditional refrigeration
- Heat pump systems
- Air conditioning units
- Liquid coolers
- Transport refrigeration

Maximum working temperature:

- -60 to 10 °C / -76 to 50°F

Refrigerants:

- R22/R407C
- R23
- R236fa
- R404A/R507
- R407C
- R407F
- R134a/R513A
- R407A
- R448A
- R449A
- R452A

Capacity range:

- 0.18 – 6.51 TR / 0.64 – 22.9 kW

Benefit:

- Interchangeable orifice assembly
- Easy stocking
- Easy capacity matching
- Better service
- Can be supplied with MOP(Max. Operating Pressure)
- Protects the compressor motor against excessive evaporating pressure during normal operation

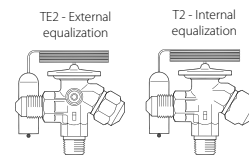
Technical data and ordering



Thermostatic element + Orifice

T2 / TE2

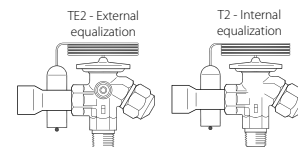
Thermostatic element with: bulb strap, without: orifice, strainer cone and nuts
Flare × flare connection



Refrigerant	Valve type	Pressure equalization Flare	Capillary Tube (m)	Connection Inlet × outlet		Code no.			
						Range N		Range NL	Range B
						-40 to +10°C		-40 to -15°C	-60 to -25°C
				in. × in.	mm × mm	Without MOP	MOP +15°C	MOP -10°C	MOP -20°C
R22	T 2	Int.	1.5	$\frac{3}{8} \times \frac{1}{2}$	10 × 12	068Z3206	068Z3208	-	-
	TE 2	Ext.				068Z3209	068Z3211	068Z3227	068Z3229
R134a	T 2	Int.				068Z3346	068Z3347	-	-
	TE 2	Ext.				068Z3348	068Z3349	-	-
R404A / R507	T 2	Int.				068Z3400	068Z3402	068Z3408	068Z3410
	TE 2	Ext.				068Z3403	068Z3405	068Z3409	-
R448A / R449A	T2	Int.				068Z3727	-	-	-
	T2	Ext.				068Z3728	-	-	-

T2 / TE2

Thermostatic element with: bulb strap, without: orifice,
Flare × solder connection

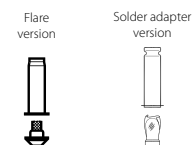


Refrigerant	Valve type	Pressure equalization Solder	Capillary Tube (m)	Connection		Code no.			
						Range N		Range NL	Range B
						-40 to +10°C		-40 to -15°C	-60 to -25°C
				Inlet Flare	Outlet ODF/solder	Without MOP	MOP +15°C	MOP -10°C	MOP -20°C
R22	T 2	-	1.5	$\frac{3}{8}$ in.	$\frac{1}{2}$ in.	068Z3281	-	-	-
	TE 2	$\frac{1}{4}$ in.				068Z3284	-	-	-
R134a	T 2	-				068Z3383	068Z3387	-	-
	TE 2	$\frac{1}{4}$ in.				068Z3385	068Z3389	-	-
R404A / R507	T 2	-				068Z3414	068Z3416	-	068Z3420
	TE 2	$\frac{1}{4}$ in.				068Z3415	068Z3417	068Z3430	-
R448A / R449A	T 2	-				068Z3729	-	-	-
	TE 2	$\frac{1}{4}$ in.				068Z3730	-	-	-

Technical data and ordering

T2 / TE2

Orifice assembly (Flare version)



Orifice no.	Rated capacity in kW																Code no.	
	R22		R407C		R134a		R404A/R507		R513A		R452F		R448A		R449A		Flare X Flare version	Solder adaptor version
	MT	LT	MT	LT	MT	LT	MT	LT	MT	LT	MT	LT	MT	LT	MT	LT		
0X	0.95	0.88	0.93	0.83	0.69	0.58	0.64	0.56	0.57	0.46	0.68	0.6	0.91	0.83	0.89	0.81	068-2002	-
0	1.78	1.35	1.72	1.28	1.12	0.76	1.24	0.88	0.93	0.6	1.2	0.97	1.71	1.32	1.66	1.29	068-2003	068-2090
1	3.21	2.05	3.11	1.971	1.8	1.08	2.37	1.4	1.5	0.85	2.44	1.57	3.14	2.05	3.05	2.03	068-2010	068-2091
2	4.09	2.43	3.94	2.28	2.14	1.22	3.14	1.65	1.77	0.97	3.18	1.86	4.02	2.4	3.9	2.37	068-2015	068-2092
3	6.95	4.07	6.7	3.84	3.6	2.05	5.37	2.79	2.99	1.63	5.4	3.14	6.83	4.05	6.64	4.01	068-2006	068-2093
4	10.47	6.01	9.91	5.65	5.31	3.04	8.25	4.11	4.39	2.43	8.26	4.63	10.21	5.95	9.94	5.91	068-2007	068-2094
5	14.14	7.85	13.13	7.39	7	4	10.89	5.4	5.62	3.08	10.53	5.9	13.35	7.78	13.01	7.74	068-2008	068-2095
6	16.49	9.16	15.7	8.71	8.34	4.74	13.01	6.3	6.94	3.77	13.15	7.25	16.17	9.24	15.74	9.19	068-2009	-

Rated capacity at:

MT rated condition: Evaporating Temp. $t_e = -5\text{ }^{\circ}\text{C}$, Condensing Temp. $t_c = +43\text{ }^{\circ}\text{C}$, superheat=8K, Subcooling=2K

LT rated condition: Evaporating Temp. $t_e = -25\text{ }^{\circ}\text{C}$, Condensing Temp. $t_c = +43\text{ }^{\circ}\text{C}$, superheat=8K, Subcooling=2K

Out of the box, factory settings:

On systems charged with R134a; SSH = 5.0 °C (9.0 °F)

On systems charged with R513A; SSH = 6.1 °C (11 °F)

Note: For capacity of other refrigerant please refer datasheet of the valve or Coolselector.

Solder adaptor without orifice assembly



Connection - ODF solder	Code no.
1/4 in	068-2062
3/8 in	068-2060

¹⁾ Including filter.

Filter as accessories



Filter type	Code no.
For flare connection	068-0003
For solder adaptor	068-0015

The solder adaptor is for use with thermostatic expansion valves T2 and TE2.

When the solder adaptor is fitted correctly it meets the sealing requirements of DIN 8964. The flare orifice in T2 and TE2 can be used with a solder adaptor when the orifice filter is replaced with a specific filter intended for solder adaptors. Only in this way the sealing requirements of DIN 8964 can be fulfilled.

Solder adaptors for filter driers (FSA) must not be used on the T2 inlet.