





**Data Sheet** 

# Thermostatic expansion valve Type **T 2** and **TE 2**

Thermostatic expansion valves maintain a constant superheat level at the evaporator outlet



Thermostatic expansion valves regulate the injection of refrigerant liquid into evaporators.

Injection is controlled by the refrigerant superheat.

Therefore the valves are especially suitable for liquid injection in "dry" evaporators where the superheat at the evaporator outlet is proportional to the evaporator load.



#### **Features**

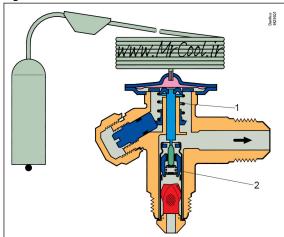
- Large temperature range
- Equally applicable to freezing, refrigeration and air conditioning applications.
- Interchangeable orifice assembly
- easy storage
- easy capacity matching
- better service.
- easy cleaning and replacement of filter
- Rated capacities from 1 to 20.5 kW / 0.3 to 5.8 TR for R407C
- Can be supplied with MOP (Max. Operating Pressure).
- Protects the compressor motor against excessive evaporating pressure during normal operation
- Stainless steel bulb and Danfoss patented bulb strap
  Fast and easy to install WWW.Mr.Cool.1r

  - Good temperature transfer from pipe to bulb
- Valves for special temperature ranges can be supplied
- Design protected



#### **Functions**

Figure 1: Functions



- I Element Spring
- 2 Orifice spring

T2 and TE2 valves have an interchangeable orifice assembly.

The orifice assembly is suitable for all versions of valve body and refrigerants and in all evaporating temperature ranges.

The charge in the thermostatic element depends on the refrigerant and evaporating temperature range.

The valves are available with internal (T2) or external (TE2) pressure equalization.

External pressure equalization should always be used on systems with liquid distributors. The bulb gives fast and precise reaction to temperature changes in the evaporator. The bulb is fixed with a Danfoss patented bulb strap for quick, easy and reliable connection. The valves are able to withstand the effects that normally occur with hot gas defrosting.

To ensure long operating life, the valve cone and seat are made of a special alloy with particularly good wear qualities.



### **Product specification**

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#### **Technical data**

Max. temperature

Bulb, when valve is installed: 100 °C Bulb, element not mounted: 60 °C

Min. temperature

T2 - TE2: -60 °C

Max. test pressure

PT = 38 bar

Max. working pressure

PS/MWP = 34 bar

Table 1: Technical data

	Range N -40 °C − 10 °C	Range NM -40 °C – -5 °C	Range NL -40 °C − -15 °C	Range B -60 °C − -25 °C				
Refrigerant	MOP-point in evaporating temperature $\mathbf{t_e}$ and evaporating pressure $\mathbf{p_e}^{(1)}$							
	15 °C / 60 °F	0°C/32°F	-10 °C / 15 °F	-20 °C / -4 °F				
R22	100 psig / 6.9 bar (abs)	60 psig / 4.0 bar (abs)	35 psig / 2.4 bar (abs)	20 psig / 1.4 bar (abs)				
R407C	95 psig / 6.6 bar (abs)	www.MrCool.ir	-	-				
R134a	55 psig / 3.8 bar (abs)	30 psig / 2.0 bar (abs)	15 psig / 1.0 bar (abs)	-				
R404A/R507	120 psig / 8.3 bar (abs)	75 psig / 5.2 bar (abs)	50 psig / 3.4 bar (abs)	30 psig / 2.1 bar (abs)				

<sup>&</sup>lt;sup>(1)</sup> Pe in bar gauge

#### Superheat

SS = static superheat

OS = opening superheat

SH = SS + OS = total superheat

 $Q_{nom} = rated capacity$ 

 $Q_{max}$  = maximum capacity

Static superheat SS can be adjusted with setting spindle.

Standard superheat setting SS is 4K for all standard valves.

The opening superheat OS is 6 K from when opening begins to where the valve gives its rated capacity  $Q_{nom}$ .

#### **Example**

Static superheat SS = 5 K

Opening superheat OS = 6 K

Total superheat SH = 5 + 6 = 11 K

Table 2: Range N: -40 to 50 °F

		WWW.N	1rCool.ii	r	Rated capacity in tons (TR)							
Orifice no.	R22	R407C	R134a	R513A	R404A R507	R407A	R407F	R448A	R449A	R454C	R455A	R1234yf
0X	0.25	0.26	0.19	0.16	0.18	0.25	0.28	0.26	0.25	0.22	0.24	0.14
0	0.51	0.51	0.34	0.29	0.37	0.49	0.56	0.51	0.49	0.42	0.47	0.25
1	1	1	0.59	0.51	0.75	1	1.1	1	0.97	0.79	0.93	0.43
2	1.3	1.4	0.73	0.62	1	1.3	1.5	1.4	1.3	1	1.3	0.53
3	2.3	2.3	1.2	1	1.8	2.3	2.6	2.3	2.3	1.8	2.2	0.88
4	3.4	3.5	1.8	1.5	2.8	3.5	4.1	3.6	3.5	2.6	3.3	1.3
5	4.8	4.7	2.4	2	3.7	4.6	5.4	4.6	4.5	3.4	4.2	1.7
6	5.6	5.6	2.9	2.5	4.4	5.6	6.5	5.7	5.5	4.2	5.2	2.1

The rated capacity is based on:

Evaporating temperature te = 40 °F

Condensing temperature tc = 100 °F

Refrigerant temperature ahead of valve tl = 98 °F



Table 3: Range N: -40 to 10 °C

		Rated capacity in kW										
Orifice no.	R22	R407C	R134a	R513A	R404A R507	R407A	R407F	R448A	R449A	R454C	R455A	R1234yf
0X	0.9	0.92	0.68	0.58	0.64	0.88	1	0.9	0.88	0.77	0.86	0.49
0	1.8	1.8	1.2	1	1.3	1.7	2	1.8	1.7	1.5	1.7	0.87
1	3.5	3.5	2.1	1.8	2.6	3.4	3.9	3.5	3.4	2.8	3.3	1.5
2	4.7	4.8	2.6	2.2	3.7	4.7	5.4	4.8	4.6	3.6	4.4	1.8
3	8	8.1	4.3	3.7	6.3	8	9.2	8.1	7.9	6.2	7.6	3.1
4	12.1	12.4	6.4	5.4	9.9	12.4	14.3	12.6	12.1	9.3	11.5	4.6
5	16.7	16.5	8.4	6.9	13	16.3	19	16.3	15.7	11.8	14.7	5.9
6	19.7	19.7	10.1	8.6	15.5	19.6	22.9	19.8	19.1	14.8	18.3	7.3

The rated capacity is based on: Evaporating temperature te = 4.4 °C

Condensing temperature tc = 38 °C

Refrigerant temperature ahead of valve tl = 37 °C

#### Valve selection based on capacity calculation

As for extended capacity calculations and valve selection based on capacities and refrigerants, please refer to Coolselector®2. Rated and extended capacities are calculated with the Coolselector®2 calculation engine to ARI standards with the ASEREP equations based on laboratory measurements of selected valves.

#### How to select a valve

Example:

Refrigerant = R407C

Q (capacity) = 1.1kW

Tcond (condensing temperature) = 25 °C

Tevap (evaporator temperature) = -30 °C

Tsub (subcooling temperature) = 2 K

Dpd (distributer pressure drop) = 1 bar

Q (capacity) = 1.1 kW WWW. MrCool. Ir

fsub (subcooling correction factor) = 0.98

fp (distribution correction factor) = 0.96

$$\frac{Q}{fsub \times fp} = selected capacity$$

$$\frac{1.1}{0.98 \times 0.96} = 1.17 \text{ kW}$$

The selection will be: TE2 orifice 00 (1.21 kW > 1.17 kW)

Table 4: Capacity in kW, range N -40 °C to 10 °C. Opening superheat sh= 6 K

Valvo tupo	Orifice no.	Cond. temp. [°C]	Evaporating [°C]					
Valve type	Offlice no.	Cond. temp. [ C]	-40	-30	-20	-10		
T2 / TE2	0X		0.76	0.83	0.88	0.9		
T2 / TE2	00	25	0.99	1.21	1.42	1.6		
T2 / TE2	1		1.41	1.8	2.27	2.77		

#### Table 5: Subcooling correction factor 'fsub'

Subcooling [K]	2	4	10	15
Correction factor	0.98	1	1.07	1.12



Table 6: Distributer correction factor 'fp' \*

Droccuro	Pressure drop [bar]		Evaporating [°C]						
riessule			-35	-30	-25				
	0	1	1	1	1				
"Pressure drop [bar]"	1	0.96	0.96	0.96	0.96				
riessure drop [bar]	1.5	0.94	0.94	0.94	0.94				
	2	0.92	0.92	0.92	0.92				

<sup>\*</sup> Calculated at 32 °C condensing temperature

# **Dimensions and weights**

Figure 2: Flare × flare (All dimentions are in mm)

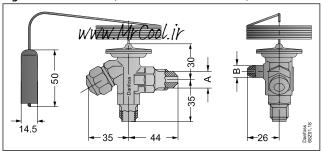


Figure 3: Flare × solder (All dimentions are in mm)

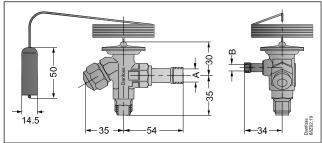


Table 7: Dimensions and weights

	Outlet	Equalization	Weight	
	A	В	[kg / lb]	
$Flare \times flare$	1/2 " flare	1/4" flare	0.3 / 0.7	
Flare × solder	1/2 ″ solder 12 mm solder	1/4″ solder 6 mm solder	0.3 / 0.7	

Figure 4: Solder adaptor

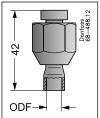


Table 8: Solder adaptor

Solde	Weight				
[in]	[in] [mm]				
1/4	6	0.05 / 0.11			
3/8	10	0.05 / 0.11			



# **Identification**

Figure 5: Identification

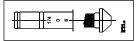


T2	internal equalization
TE2	external equalization
N	Nordborg, Denmark (BE = Wuqing, China)
45	week
11	2011
Α	Monday

#### **Production place and date N4511A**

The thermostatic element has laser engraved data on top of the diaphragm. This engraving gives valve type (with code number), evaporating temperature range, MOP point, refrigerant, and max. working pressure. PS/MWP.

Figure 6: Orifice assembly and filter for flare x flare version for T2 and TE2



#### Orifice assembly for T2 and TE2

The orifice assembly is marked with the orifice size (e.g. 06) and week stamp + last number in the year (e.g. 174). The orifice assembly number is also given on the lid of its plastic container.

Figure 7: Capillary tube label for T2 and TE2



#### **Capillary tube label for T2 and TE2**

The label gives the orifice size (04) and consists of the lid of the orifice assembly plastic container. It can easily be fastened around the expansion valve capillary tube to clearly identify the valve size.

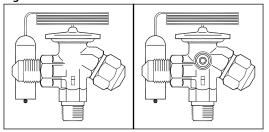


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# T2/TE2 Thermostatic element with bulb strap

### Flare x flare

Figure 8: Flare x flare



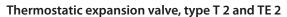
Capillary tube: 1.5 m Range N = -40 - 10 °C Range B = -60 - -25 °C

Range NM = -40 - -5 °C MOP 0 °C Range NL = -40 - -15 °C MOP -10 °C

Table 9: Flare x flare

Refrigerant	Type	Range	МОР	Pressure equliza-	Connection flar	e inlet × outlet	Code no. Multi
<del>Keiri</del> gerani	Type	[°C]	[°C]	tion Flare	[in]	[mm]	pack
	T2	-40 – 10	-	-	3/8 × 1/2	10×12	068Z3206
	T2	-40 – 10	15	-	3/8 × 1/2	10×12	068Z3208
	T2	-40 – -5	0	-	3/8 × 1/2	10×12	068Z3224
	T2	-40 – -15	-10	-	3/8 × 1/2	10×12	068Z3226
	T2	-60 – -25	-	-	3/8 × 1/2	10×12	068Z3207
R22/R407C (1)	T2	-60 – -25	-20	-	3/8 × 1/2	10×12	068Z3228
K22/K40/C**/	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3209
	TE2	-40 – 10	15	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3211
	TE2	-40 – -5	0	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3225
	TE2	-40 – -15	-10	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3227
	TE2	-60 – -25	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3210
	TE2	-60 – -25	-20	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3229
	T2	-40 – 10	-	-	3/8 × 1/2	10×12	068Z3496
R407C	T2	-40 – 10	15	-	3/8 × 1/2	10×12	068Z3516
14070	TE2	-40 – 10	-	1/4 in / 6 mm	$3/8 \times 1/2$	10×12	068Z3501
	TE2	-40 – 10	15	1/4 in / 6 mm	$3/8 \times 1/2$	10×12	068Z3517
	T2	-40 – 10	-	-	3/8 × 1/2	10×12	068Z3346
	T2	-40 – 10	15	-	3/8 × 1/2	10×12	068Z3347
	T2	-40 – -5	0	-	3/8 × 1/2	10×12	068Z3393
2124-/05124	T2	-40 – -15	-10	-	3/8 × 1/2	10×12	068Z3369
R134a/R513A	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3348
	TE2	-40 – 10	15	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3349
	TE2	-40 – -5	0	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3392
	TE2	-40 – -15	-10	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3370





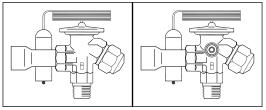


Refrigerant	Туре	Range	МОР	Pressure equliza-	Connection fla	re inlet × outlet	Code no. Multi
Reirigerant	Type	[°C]	[°C]	tion Flare	[in]	[mm]	pack
	T2	-40 – 10	-	-	3/8 × 1/2	10×12	068Z3400
	T2	-40 – 10	15	-	3/8 × 1/2	10×12	068Z3402
	T2	-40 – -5	0	-	3/8 × 1/2	10×12	068Z3406
	T2	-40 – -15	-10	-	3/8 × 1/2	10×12	068Z3408
	T2	-60 – -25	-	-	3/8 × 1/2	10×12	068Z3401
R404A/R507	T2	-60 – -25	-20	-	3/8 × 1/2	10×12	068Z3410
K404A/K507	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3403
	TE2	-40 – 10	15	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3405
	TE2	-40 – -5	0	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3407
	TE2	-40 – -15	-10	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3409
	TE2	-60 – -25	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3404
	TE2	-60 – -25	-20	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3411
R407F/R407A	T2	-40 – 10	-	-	3/8 × 1/2	10×12	068Z3715
K4U/F/K4U/A	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3714
	T2	-40 – 10	-	-	3/8 × 1/2	10×12	068Z3727
	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10×12	068Z3728
R448A/R449A	T2	-40 – -15	-10	-	3/8 × 1/2	10×12	068Z3675
	T2	-60 – -25	-20	-	$3/8 \times 1/2$	10×12	068Z3735
	TE2	-60 – -25	-20	1/4 in / 6 mm	$3/8 \times 1/2$	10×12	068Z3736
R454C	T2	-40 – 10	-	-	3/8 × 1/2	10x12	068Z7483
K454C	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10x12	068Z7485
DAFFA	T2	-40 – 10	-	-	3/8 × 1/2	10x12	068Z7496
R455A	TE2	-40 – 10	-	1/4 in / 6 mm	3/8 × 1/2	10x12	068Z7499
R1234yf	T2	-40 – 10	-	-	3/8 × 1/2	10x12	068Z7487
n 1234y1	TE2	-40 – 10	-	1/4 in / 6 mm	$3/8 \times 1/2$	10x12	068Z7489

 $<sup>\</sup>ensuremath{^{\text{(1)}}}$  For R407C plants. Please select valves from the dedicated R407C program

# Flare x solder

Figure 9: Flare x solder



Capillary tube: 1.5 m Range N=-40 – 10 °C Range NL = -40 – -15 °C Range B= -60 – -25 °C



Table 10: Flare x solder

Refrigerant	Туре	Range	МОР	i ressure equitzu		re inlet × outlet	Code no. Multi
	.,,,,	[°C]	[°C]	tion Flare	[in]	[mm]	pack
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z3281
	T2	-40 – 10	-	-	-	10×12	068Z3302
	T2	-40 – 10	15	-	3/8 × 1/2	-	068Z3287
	T2	-40 – 10	15	-	-	10×12	068Z3308
	T2	-40 – -15	-10	-	-	10×12	068Z3366
	T2	-60 – -25	WWW.MrCool	Lir -	3/8 × 1/2	-	068Z3357
	T2	-60 – -25	-	-	-	10×12	068Z3361
R22/R407C <sup>(1)</sup>	T2	-60 – -25	-20	-	3/8 × 1/2	-	068Z3319
	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3284
	TE2	-40 – 10	-	6 mm	-	10×12	068Z3305
	TE2	-40 – 10	15	1⁄4 in	3/8 × 1/2	-	068Z3290
	TE2	-40 – 10	15	6 mm	-	10×12	068Z3311
	TE2	-40 – -15	-10	6 mm	-	10×12	068Z3367
	TE2	-60 – -25	-	1⁄4 in	3/8 × 1/2	-	068Z3359
	TE2	-60 – -25	-	6 mm	-	10×12	068Z3363
	TE2	-60 – -25	-20	1⁄4 in	3/8 × 1/2	-	068Z3320
	T2	-40 – 10	-	-	-	10×12	068Z3502
	T2	-40 – 10	15	-	3/8 × 1/2	-	068Z3329
	T2	-40 – 10	15	-	-	10×12	068Z3514
R407C	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3446
	TE2	-40 – 10	-	6 mm	-	10×12	068Z3503
	TE2	-40 – 10	15	1⁄4 in	3/8 × 1/2	-	068Z3447
	TE2	-40 – 10	15	6 mm	-	10×12	068Z3515
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z3383
	T2	-40 – 10	-	-	-	10×12	068Z3384
	T2	-40 – 10	15	-	3/8 × 1/2	-	068Z3387
R134a/R513A	T2	-40 – 10	15	-	-	10×12	068Z3388
N 134d/N313A	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3385
	TE2	-40 – 10	-	6 mm	-	10×12	068Z3386
	TE2	-40 – 10	15	1⁄4 in	3/8 × 1/2	-	068Z3389
	TE2	-40 – 10	15	6 mm	-	10×12	068Z3390
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z3414
	T2	-40 – 10	-	-	-	10×12	068Z3435
	T2	-40 – 10	15	-	3/8 × 1/2	-	068Z3416
	T2	-40 – 10	15	-	-	10×12	068Z3423
	T2	-40 – -15	-10	-	3/8 × 1/2	-	068Z3429
	T2	-40 – -15	-10	-	-	10×12	068Z3436
	T2	-60 – -25	-	-	3/8 × 1/2	-	068Z3418
	T2	-60 – -25	-	-	-	10×12	068Z3425
	T2	-60 – -25	-20	-	3/8 × 1/2	-	068Z3420
R404A/R507	T2	-60 – -25	-20	-	-	10×12	068Z3427
1404A/R307	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3415
	TE2	-40 – 10	-	6 mm	-	10×12	068Z3422
	TE2	-40 – 10	15	6 mm	-	10×12	068Z3424
	TE2	-40 – 10	15	1⁄4 in	3/8 × 1/2	-	068Z3417
	TE2	-40 – -15	-10	1⁄4 in	3/8 × 1/2	-	068Z3430
	TE2	-40 – -15	-10	6 mm	-	10×12	068Z3437
	TE2	-60 – -25	-	1⁄4 in	3/8 × 1/2	-	068Z3419
	TE2	-60 – -25	-	6 mm	-	10×12	068Z3426
	TE2	-60 – -25	-20	1⁄4 in	3/8 × 1/2	-	068Z3421
	TE2	-60 – -25	-20	6 mm	-	10×12	068Z3428
D407F/D407*	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z3716
R407F/R407A	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3713

Refrigerant	Туре	Range	МОР	Pressure equliza- tion Flare	Pressure equliza- Conn	Connection fla	Connection flare inlet × outlet	
		[°C]	[°C]		[in]	[mm]	pack	
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z3729	
	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3730	
	T2	-40 – -15	-10	-	3/8 × 1/2	-	068Z3664	
	T2	-60 – -25	-20	-	3/8 × 1/2	-	068Z3737	
R448A/R449A	TE2	-40 – -15	-10	1⁄4 in	3/8 × 1/2	-	068Z3665	
	TE2	-60 – -25	-20	1⁄4 in	3/8 × 1/2	-	068Z3738	
	T2	-40 – -15	-10	-	-	10×12	068Z3674	
	TE2	-60 – -25	-20	6 mm	-	10×12	068Z3672	
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z3806	
	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z3807	
R452A	T2	-40 – 10	-	-	-	10×12	068Z3808	
	TE2	-40 – 10	-	6 mm	-	10×12	068Z3809	
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z7490	
R454C	T2	-40 – 10	-	-	-	10x12	068Z7484	
K454C	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z7492	
	TE2	-40 – 10	-	6 mm	-	10x12	068Z7486	
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z7494	
DAFEA	T2	-40 – 10	www.MrCool.	ir -	-	10x12	068Z7498	
R455A	TE2	-40 – 10		¼ in	3/8 × 1/2	-	068Z7501	
	TE2	-40 – 10	-	6 mm	-	10x12	068Z7500	
	T2	-40 – 10	-	-	3/8 × 1/2	-	068Z7491	
R1234yf	T2	-40 – 10	-	-	-	10x12	068Z7488	
	TE2	-40 – 10	-	1⁄4 in	3/8 × 1/2	-	068Z7493	
	TE2	-40 – 10	_	6 mm	-	10x12	068Z7495	

 $<sup>^{(1)}</sup>$  For R407C plants, please select valves from the dedicated R407C program

#### **Flare connections**

#### Figure 10: Flare connections





**Table 11: Flare connections** 

Connection for copper tubing with outside diameter		Reducer for copper tubing with outside diameter		Code no.
[in]	[mm]	[in]	[mm]	Code no.
1/4	6	-	-	011L1101
3/8	10	-	-	011L1135
1/2	12	-	-	011L1103
-	-	1/4	6	011L1107

A TE2 thermostatic expansion valve consists of two parts + flare nuts if required:

- 1 thermostatic element
- 1 orifice assembly and flare nuts

When ordering one thermostatic expansion valve, TE2 with orifice 01, five code numbers are required:

- 1-off thermostatic element 068Z3209
- 1-off orifice assembly 01 068-2010
- 1-off 3/8 in flare nut 011L1135
- 1-off 1/2 in flare nut 011L1103
- 1-off 1/4 in flare nut 011L1101





# Orifice assembly with filter

Figure 11: Orifice assembly with filter



Table 12: Orifice assembly with filter

Orifice no.	Code no.
OX	068-2002
00	068-2003
01	068-2010
02	068-2015
03	068-2006
04	068-2007
05	068-2008
06	068-2009

# Orifice assembly with filter for solder adaptor

Figure 12: Orifice assembly with filter for solder adaptor

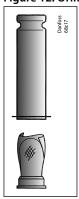


Table 13: Orifice assembly with filter for solder adaptor

Orifice no.	Code no.
0X	068-2089
00	068-2090
01	068-2091
02	068-2092
03	068-2093
04	068-2094
05	068-2095
06	068-2096



#### **Filter**

Figure 13: Filter

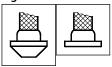
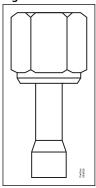


Table 14: Filter

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

# **Solder adaptor**

Figure 14: Solder adaptor



The adaptor is for use with thermostatic expansion valves T2 and TE2 with flare  $\times$  solder connections. When the adaptor is fitted correctly it meets the sealing requirements of DIN 8964.

The adaptor offers the following advantages:

- The orifice assembly can be replaced.
- The filter can be cleaned or replaced.

When using the solder adapter, a special orifice assembly is required. Please use the following tables to select both the appropriate adapter and orifice asembly.

Only in this way can the sealing requirements of DIN 8964 be fulfilled.

Solder adaptor for filter drier (FSA) must not be used in the T2 inlet.

Table 15: Solder adaptor without orifice assembly and filter

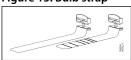
Connection ODF solder	Code no.
1/4 in	068-2062
6 mm	068-2063
3/8 in	068-2060
10 mm	068-2061

Table 16: Filter for solder adaptor

Description	Code no.	
Filter excl. orifice assembly	068-0015	

### **Bulb strap (Danfoss patented)**

Figure 15: Bulb strap



Each valve is delivered with a Danfoss patented bulb strap. Spares can be ordered.



# Thermostatic expansion valve, type T 2 and TE 2 $\,$

#### Table 17: Bulb strap (Danfoss patented)

Description	Pack mode	Quantity / pack	Code no.	
Accessory bag with short bulb strap I/45	I	45	068U3525	
Accessory bag with long bulb strap I/45	I	45	068U3527	
Accessory bag with short Bulb strap M/25	М	25	068U3520	
Accessory bag with long Bulb strap M/45	М	45	068U3528	



# Certificates, declarations, and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

Some approvals may change over time. You can check the most current status at danfoss.com or contact your local Danfoss representative if you have any questions.

Table 18: Certificates, declarations, and approvals

File name WWW.MrCool.ir	Document type	Document topic	Approval_authority
EAC RU Д-DK.БЛ08.В.00191_18	EAC Declaration	Machinery & Equipment	EAC
Danfoss 068U9615.06	Manufacturers Declaration	PED/RoHS	Danfoss
Danfoss 068Z9620.00	Manufacturers Declaration	-	Danfoss
Danfoss 068-9601.00	Manufacturers Declaration	-	Danfoss
UA.089.D.00188-17	UA Declaration	PED	LLC CDC EURO TYSK
UA.TR-089.0993-17	Pressure - Safety Certificate	PED	LLC CDC EURO TYSK
Danfoss 068U9616.01	Manufacturers Declaration	China RoHS	Danfoss







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