

T2 Selection and Installation Guide



1) Select valve body and orifice size

T2 type expansion valves are designed for flare connections. To make a functioning valve, pair the appropriate valve body and orifice using the charts below.

IF THE EXACT SYSTEM CAPACITY CANNOT BE FOUND, USE THE NEXT LARGER ORIFICE.

R22				Evap. Temperature (°F)							
Valve Body ¹		Orifice Size	Code Number	45	35	25	0	-10	-20	-30	-40
				Rated Capacity in Tons (TR) ²							
TX 2 068Z3206	TEX 2 068Z3209	0x	068-2002	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8
		00	068-2003	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4
		01	068-2010	1/2 3/4	1/2 3/4	1/2 3/4	1/2	1/2	1/2	1/4	1/4
		02	068-2015	1	1	1	3/4 1 1/2	3/4	3/4	1/2	1/2
		03	068-2006	2	2	2	1 1 1/2	1	1	3/4 1	3/4 1
		04	068-2007	3	3	3	2	2	2	1 1/2	1 1/2
		05	068-2008	4	4	3 1/2	3	2 1/2	2 1/2	2	2
		06	068-2009	5	5	4 1/2	3 1/2	3	3	2 1/2	2 1/2

R404A / R507				Evap. Temperature (°F)							
Valve Body ¹		Orifice Size	Code Number	45	35	25	0	-10	-20	-30	-40
				Rated Capacity in Tons (TR) ²							
TS2 068Z3400	TES 2 068Z3403	0x	068-2002	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/10 1/8	1/15
		00	068-2003	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/6 1/4	1/10 1/8
		01	068-2010	1/2	1/4 1/2	1/4	1/4	1/4	1/4	1/4	1/6
		02	068-2015	3/4	1/2	1/2	1/2	1/4	1/4	1/4	1/4
		03	068-2006	1	3/4 1	3/4 1	3/4	1/2 3/4	1/2	1/2	1/2
		04	068-2007	2	2	1 1/2	1	1	3/4 1	3/4	3/4
		05	068-2008	2 1/2	2	2	1 1/2	1 1/2	1	1	1
		06	068-2009	3	3	2 1/2	2	1 1/2	1 1/2	1	1

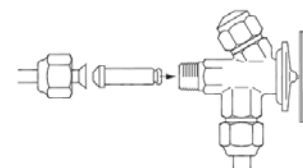
R134a				Evap. Temperature (°F)							
Valve Body ¹		Orifice Size	Code Number	45	35	25	0	-10	-20	-30	-40
				Rated Capacity in Tons (TR) ²							
TN 2 068Z3346	TEN 2 068Z3348	0x	068-2002	1/10 1/8	1/10 1/8	1/10 1/8	1/10	1/10	1/10	1/10	1/10
		00	068-2003	1/6 1/4	1/6	1/6	1/6 1/8	1/6 1/8	1/6 1/8	1/6 1/8	1/6 1/8
		01	068-2010	1/2	1/4 1/2	1/4	1/4	1/4	1/4	1/6	1/6
		02	068-2015	3/4	1/2	1/2	1/2	1/4	1/4	1/4	1/4
		03	068-2006	1	3/4 1	3/4 1	3/4	1/2 3/4	1/2	1/2	1/2
		04	068-2007	2	1 1/2	1 1/2	1	1	3/4	3/4	3/4
		05	068-2008	2 1/2	2	2	1 1/2	1	1	1	1
		06	068-2009	3	2 1/2	2 1/2	2	1 1/2	1 1/2	1	1

2) Assemble the orifice and valve body and install into system

Orifice and System Installation

- Slide the orifice into the valve body and secure using liquid line flare nut.
- Attach evaporator inlet or distributor assembly to valve outlet flare nut.

Tighten both flare nuts to 26 - 33 ft lbs.

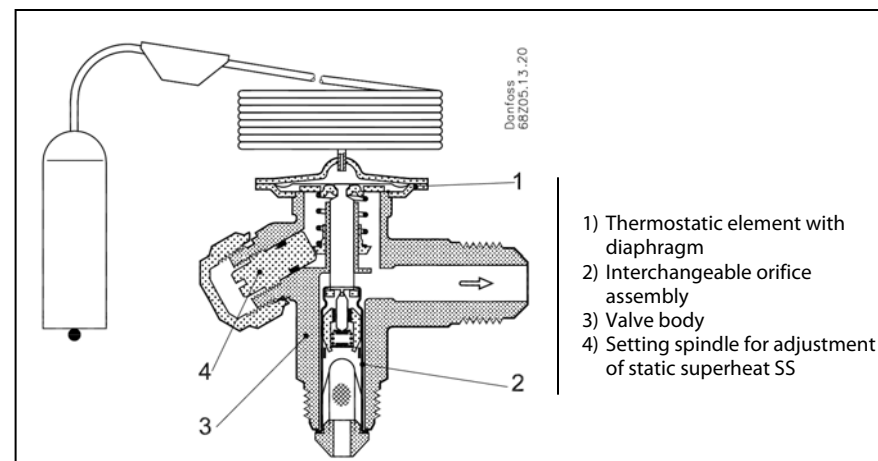


Torque Requirements

26-33 ft-lb
(35-45Nm)

Superheat Adjustment

- Remove the cap.
- Make superheat adjustments ¼ turn at a time (1 turn=7°F). Turning clockwise increases superheat. Turning counter-clockwise decreases superheat.
- Reinstall the cap.



¹ Valve Body - Internal: 3/8" X 1/2" ODF - External: 3/8" X 1/2" w/ 1/4" ODF Equalizer

² Capacities are based on a condensing temperature of 90 °F and a vapor free liquid temperature of 80 °F ahead of the expansion valve.