

# Thermo®-Expansion Valve Series TX6

## Hermetic Design

### Features

- Balanced port design for constant superheat operation over a wide application range under variation of condensing pressure
- Hermetic monobloc design with solder connections for minimal leakage
- Large diaphragm eliminates disturbances to the valve and provides smoother and consistent valve control
- Tailored charges for different applications
- External equalizer
- External superheat adjustment
- PS: TX6-H/N/M/Sxx : 31bar. TX6-Zxx: 42bar
- TS: -45 ... +65°C
- No CE marking according art. 3.3 PED 97/23 EC



### Standard-MOP

Refrigerant	MOP			Evaporating temperature range
	Code	(bar)	°C	
R134a	M1	3.8	+14	-45 ... +10°C
R22	H1	6.9	+15	-45 ... +12°C
R407C	N1	6.9	+17	-45 ... +14°C
R410A	Z1	12.1	+16	-45 ... +15°C

Note: All temperatures are saturated/dew point. Pressures are given in gauge pressure.

### Selection Charts

#### R134a

Nominal Capacity Q <sub>n</sub> kW	less MOP		with Standard-MOP		Connection straight through Solder/ODF
	Type	Part No.	Type	Part No.	
10.3	TX6 - M02	801 543	TX6 - M12	801 547	12 mm x 16 mm
10.3	TX6 - M02	801 541	TX6 - M12	801 545	1/2" x 5/8"
18.4	TX6 - M03	801 544	TX6 - M13	801 548	12 mm x 16 mm
18.4	TX6 - M03	801 542	TX6 - M13	801 546	1/2" x 5/8"
25.6	TX6 - M04	801 569	TX6 - M14	801 577	16 mm x 22 mm
25.6	TX6 - M04	801 565	TX6 - M14	801 573	5/8" x 7/8"
32.5	TX6 - M05	801 570	TX6 - M15	801 578	16 mm x 22 mm
32.5	TX6 - M05	801 566	TX6 - M15	801 574	5/8" x 7/8"
48.1	TX6 - M06	801 571	TX6 - M16	801 579	22 mm x 28 mm
48.1	TX6 - M06	801 567	TX6 - M16	801 575	7/8" x 1-1/8"
62.8	TX6 - M07	801 572	TX6 - M17	801 580	22 mm x 28 mm
62.8	TX6 - M07	801 568	TX6 - M17	801 576	7/8" x 1-1/8"

Nominal capacity (Q<sub>n</sub>) is based on the following conditions:

Refrigerant	Evaporating temperature	Condensing temperature	Subcooling
R407C	+4°C dew point	+38°C bubble p. +43°C dew point	1K
R22, R134a, R410A	+4°C	+38°C	1K

Valve selection for other operating conditions see page 180 or use the Excel based Alco® Selection Tool (download from [www.emersonclimate.eu](http://www.emersonclimate.eu)).

## R407C

Nominal Capacity Q KW	less MOP		with Standard-MOP		Connection straight through Solder/ODF
	Type	Part No.	Type	Part No.	
14.4	TX6 - N02	801 651	TX6 - N12	801 655	12 mm x 16 mm
14.4	TX6 - N02	801 653	TX6 - N12	801 534	1/2" x 5/8"
25.6	TX6 - N03	801 652	TX6 - N13	801 656	12 mm x 16 mm
25.6	TX6 - N03	801 654	TX6 - N13	801 535	1/2" x 5/8"
35.7	TX6 - N04	801 659	TX6 - N14	801 667	16 mm x 22 mm
35.7	TX6 - N04	801 663	TX6 - N14	801 536	5/8" x 7/8
45.2	TX6 - N05	801 660	TX6 - N15	801 668	16 mm x 22 mm
45.2	TX6 - N05	801 664	TX6 - N15	801 537	5/8" x 7/8
66.9	TX6 - N06	801 661	TX6 - N16	801 669	22 mm x 28 mm
66.9	TX6 - N06	801 665	TX6 - N16	801 538	7/8" x 1-1/8"
87.3	TX6 - N07	801 662	TX6 - N17	801 670	22 mm x 28 mm
87.3	TX6 - N07	801 666	TX6 - N17	801 539	7/8" x 1-1/8"

## R22

Nominal Capacity Q KW	less MOP		with Standard-MOP		Connection straight through Solder/ODF
	Type	Part No.	Type	Part No.	
13.3	TX6 - H02	801 551	TX6 - H12	801 555	12 mm x 16 mm
13.3	TX6 - H02	801 549	TX6 - H12	801 553	1/2" x 5/8"
23.7	TX6 - H03	801 552	TX6 - H13	801 556	12 mm x 16 mm
23.7	TX6 - H03	801 550	TX6 - H13	801 554	1/2" x 5/8"
33.0	TX6 - H04	801 585	TX6 - H14	801 593	16 mm x 22 mm
33.0	TX6 - H04	801 581	TX6 - H14	801 589	5/8" x 7/8
41.8	TX6 - H05	801 586	TX6 - H15	801 594	16 mm x 22 mm
41.8	TX6 - H05	801 582	TX6 - H15	801 590	5/8" x 7/8
61.9	TX6 - H06	801 587	TX6 - H16	801 595	22 mm x 28 mm
61.9	TX6 - H06	801 583	TX6 - H16	801 591	7/8" x 1-1/8"
80.8	TX6 - H07	801 588	TX6 - H17	801 596	22 mm x 28 mm
80.8	TX6 - H07	801 584	TX6 - H17	801 592	7/8" x 1-1/8"

## R410A

Nominal Capacity Q KW	less MOP		with Standard-MOP		Connection straight through Solder/ODF
	Type	Part No.	Type	Part No.	
16.0	-	-	TX6 - Z12	801 510	12 mm x 16 mm
16.0	-	-	TX6 - Z12	801 511	1/2" x 5/8"
28.0	-	-	TX6 - Z13	801 512	12 mm x 16 mm
28.0	-	-	TX6 - Z13	801 513	1/2" x 5/8"
40.0	-	-	TX6 - Z14	801 514	16 mm x 22 mm
40.0	-	-	TX6 - Z14	801 515	5/8" x 7/8
50.0	-	-	TX6 - Z15	801 516	16 mm x 22 mm
50.0	-	-	TX6 - Z15	801 517	5/8" x 7/8
74.0	-	-	TX6 - Z16	801 518	22 mm x 28 mm
74.0	-	-	TX6 - Z16	801 519	7/8" x 1-1/8"
97.0	-	-	TX6 - Z17	801 520	22 mm x 28 mm
97.0	-	-	TX6 - Z17	801 521	7/8" x 1-1/8"

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