PRODUCT MANUAL

Expansion Valve T Series

Model: TX2 – TEZ2



CATEGORY
Refrigeration Valves

MODEL
TX2 – TEZ2

ISSUE DATE
2026-11-23

1. Product Overview

EXPANSION VALVE T Series Feature: Wide temperature range; Interchangeable orifice; Orifice can be chose according to refrigerant and capacity; Suit to all HCFC and HFC refrigerant: R12,R22,R134A,R404A,R507A,R407…

The T series is a thermostatic expansion valve for small and medium refrigeration and air-conditioning circuits. It meters liquid refrigerant into the evaporator at the rate the load requires, holding a constant superheat at the evaporator outlet, and it does this without any electrical supply - the bulb clamped to the suction line provides the signal.

The model code carries two pieces of information that make selection straightforward. The first letter states the refrigerant: T for R22, N for R134a, S for R404A and R507, F for R12, Y for R502 and Z for R407C. The E prefix marks the externally equalised version, used where the evaporator has a distributor or a significant pressure drop. So TX2 and TEX2 are both R22 valves, the second with external equalisation, and the same pattern runs through all twelve models.

Capacity is set by the orifice, not by the body: the valve accepts interchangeable orifices from #X up to #6, covering 0.38 kW to 16.7 kW (0.11 to 4.9 RT). One body can therefore be re-orificed when a system is modified instead of being replaced. The capacity table is published for each refrigerant across the full evaporating range, and the orifice has to be chosen from that table at the design evaporating and condensing temperatures.

Connections are 3/8 inch inlet by 1/2 inch outlet with a 1.5 m capillary - the standard arrangement for small condensing units, display cases, water chillers and cold room evaporators. Static superheat is adjustable from the bottom of the valve with the cap removed.

Installation points: keep the bulb in intimate contact with a clean horizontal section of suction line and insulate it from ambient; mount the body upright; and on externally equalised versions take the equaliser from the suction line downstream of the bulb.

2. Key Features

- Wide temperature range with interchangeable orifice
- Orifice selectable by refrigerant and required capacity
- Suitable for all HCFC and HFC refrigerants
- Internal or external equalizer to match different evaporator designs

3. Technical Specifications

Item	Specification
Model series	TX2 / TEX2 / TN2 / TEN2 / TS2 / TES2 / TF2 / TEF2 / TY2 / TEY2 / TZ2 / TEZ2
Refrigerant	R12, R22, R134A, R404A, R507, R407C, R502
Equalizer	Internal or external
Capillary length	1.5 m
Connection (inlet x outlet)	3/8" x 1/2"

Item	Specification
Orifice	Interchangeable, #X and #0 – #6
Nominal capacity	0.11 – 4.9 RT / 0.38 – 16.7 kW (orifice #X – #6)

4. Commercial Terms

MINIMUM ORDER
Negotiable

LEAD TIME
Negotiable

SHIPPING PORT
Shanghai / Ningbo, China

PLACE OF ORIGIN
China

PAYMENT TERMS
T/T, L/C

SUPPLY ABILITY
Negotiable

5. Product Gallery









Contact us for a free quotation

Our engineering team replies within 24 hours with selection advice and an FOB / CIF quotation.



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