



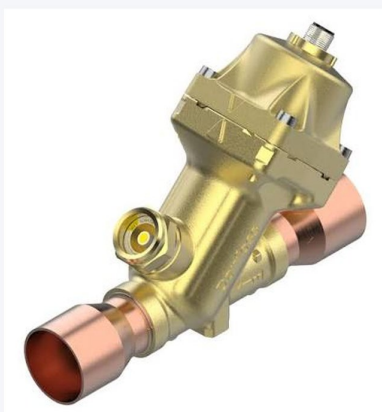
VALVES & REGULATORS

Danfoss ETS Series

BRAND
Danfoss

SKU
RC_PROD_017

CATEGORY
Valves & Regulators



OVERVIEW

Danfoss ETS electric expansion valves provide precise liquid injection into evaporators under electronic control. The valve is driven by a 2-phase bi-polar stepper motor that holds position without power; power pulses from a driver rotate the spindle, whose rotation is transformed into linear piston motion. Matched with a Danfoss superheat controller and pressure/temperature sensors, ETS valves deliver the precision that mechanical TXVs cannot — tighter superheat, better part-load efficiency, and wider operating envelopes. The piston design is pressure balanced, giving true bi-flow capability with near-identical performance in both directions, plus solenoid-tight shut-off in both flow directions — often eliminating separate solenoid valves from the circuit.

KEY FEATURES

Bi-polar stepper motor drive
precise positioning, holds position unpowered

Fully pressure-balanced piston
bi-flow operation and solenoid-tight shut-off both ways

Wide operating range
for all common refrigerants and capacities

Built-in sight glass
on ETS 50 – ETS 400

SPECIFICATIONS

PARAMETER	VALUE
MAX. WORKING PRESSURE	ETS 12.5/25/50/100: 45.5 bar (660 psig) · ETS 250/400: 34 bar (493 psig)
MOTOR	2-phase bi-polar permanent magnet stepper; gearing 8.5:1
DRIVE	Constant voltage: 150 steps/s · Chopper current: 0–300 steps/s (300 recommended)

Refrigeration Controls

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Specifications per manufacturer data; subject to change without notice.

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