



VALVES & REGULATORS

Danfoss TEA Series

BRAND

Danfoss

SKU

RC_PROD_011

CATEGORY

Valves & Regulators



OVERVIEW

Danfoss TEA thermostatic expansion valves regulate the injection of liquid ammonia (R717) into evaporators, controlled by refrigerant superheat. They are especially suitable for liquid injection in dry evaporators where outlet superheat follows evaporator load proportionally — the standard configuration in industrial ammonia plants. TEA valves feature interchangeable orifice assemblies and interchangeable thermostatic elements, with external pressure equalization as standard. The wide temperature range of -50 to +30 °C covers both freezing and refrigeration duty in one series.

KEY FEATURES

Purpose-built design
for ammonia (R717) industrial duty

Large temperature range
-50 to +30 °C — freezing and refrigeration systems

Interchangeable orifice assemblies
capacity matching without body change

Interchangeable thermostatic elements
simplified service and stocking

SPECIFICATIONS

PARAMETER	VALUE
FUNCTION	Superheat-controlled liquid injection into dry evaporators
TEMPERATURE RANGE	-50 to +30 °C (element range dependent, e.g., -20 to +30 °C on TEA 20-2)
PRESSURE EQUALIZATION	External