



VALVES & REGULATORS

Danfoss KVP Series

BRAND
Danfoss

SKU
RC_PROD_006

CATEGORY
Valves & Regulators



OVERVIEW

The Danfoss KVP is an evaporator pressure regulator installed in the suction line after the evaporator. It maintains a constant minimum evaporating pressure — and therefore a minimum evaporating temperature — regardless of falling suction pressure elsewhere in the system. This is essential in multi-evaporator installations where different evaporators must run at different temperatures on a common compressor, and in applications where product must be protected against freezing or dehumidification. Rated and extended capacities for KVP valves are calculated with Danfoss's Coolselector®2 engine to ARI standards, giving procurement engineers reliable selection data.

KEY FEATURES

Constant minimum evaporating pressure maintained independent of system suction pressure

Multi-temperature evaporator staging enables multiple evaporators at different temperatures on one compressor

Freezing and frosting protection protects against product freezing and coil frosting

Effective pulsation damping for long service life

SPECIFICATIONS

PARAMETER	VALUE
FUNCTION	Constant evaporating pressure regulation (opens on rising inlet pressure)
SIZING BASIS	Capacities based on liquid temp. ahead of expansion valve t _l = 25 °C; regulator offset = 0.6 bar
GAS VELOCITY LIMIT	Inlet velocity should not exceed 40 m/s