



VALVES & REGULATORS

Danfoss KVC Series

BRAND
Danfoss

SKU
RC_PROD_005

CATEGORY
Valves & Regulators



OVERVIEW

The Danfoss KVC is a hot gas bypass regulator applied for adapting compressor capacity to the actual evaporator load. Part of the KV family of mechanical regulating valves, the KVC bypasses hot discharge gas to the low-pressure side when suction pressure falls below the set value, maintaining a minimum suction pressure and preventing excessively low evaporating temperatures during part-load operation. Where the CPCE regulates with direct suction-line reference, the KVC provides a simpler, compact bypass solution widely used in commercial refrigeration and smaller industrial plants.

KEY FEATURES

Minimum suction pressure control
maintained under falling load

Evaporator and compressor protection
prevents icing and short-cycling of the compressor

Compact, robust mechanical construction
no electrics required

Simple setpoint adjustment
via setting spindle

SPECIFICATIONS

PARAMETER	VALUE
FUNCTION	Hot gas bypass / capacity regulation
REGULATION RANGE	0.2 – 6 bar (3 – 87 psig)
MAX. WORKING PRESSURE	28 – 31 bar (406 – 450 psig, model dependent)