

Electronically operated valves for CO₂ CCM – gas bypass & expansion

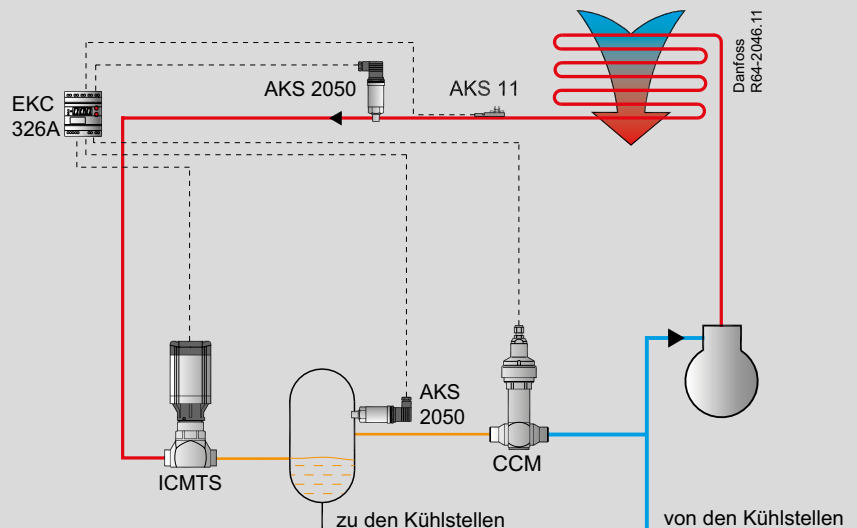


CCM – gas bypass & expansion

- Up to 90 bar (1305 ps) working pressure to accommodate CO₂ system pressures during standstill conditions
 - Precise positioning of optimal control of intermediate pressures in transcritical CO₂ systems or liquid injection in heat exchangers
 - Possibility of bi-flow operation
 - MOPD up to 50 bar (725 psi)
 - Combined stainless steel butt weld/solder connections for installation in copper piped systems (K65 alloy or standard) as well as steel piped systems
 - Standard M12 connector for simple and flexible connection to the motor driver
 - For manual operation and service of the CCM and AST-G service driver is available.
- For further information please contact Danfoss (Commercial Refrigeration and Air Conditioning Controls).

Gas bypass valve

A gas bypass valve is typically used to regulate the intermediate pressure in a transcritical CO₂ refrigeration system. By venting flashgas generated after the transcritical expansion, the pressure can be kept at a safe level for all components situated in the liquid lines of a transcritical CO₂ system. For use in the gas bypass application the EKC326A controller is recommended.



Liquid injection

A liquid expansion valve is typically used for injection in plate heat exchangers of CO₂/CO₂ cascades, or as an expansion valve for CO₂ evaporators. For the liquid injection applications CCM is used with EKC 316A controller.

