

PRODUCT DATA SHEET: HCK5D Gas-Powered Two Step Suction Stop Valve

INTRODUCTION

The Hansen HCK5D is a heavy-duty, gas-powered two step suction stop valve which is self-equalizing and includes a delayed opening feature after defrost or a power failure. The HCK5D valve provides an internal, controlled bleed-down (equalize) circuit which will not allow main seat to open until the pressure across the valve is at a lower, safer pressure differential. This is accomplished by a unique, internal bleed-down piston design, thereby greatly simplifying external control valve group piping and reduces installed cost. Valves remain normally open during refrigeration via a spring and require no pressure drop to operate. A higher pressure refrigerant gas closes the valve during defrosting. If loss of power occurs during defrost, evaporator pressure is utilized to keep valve closed until bleed-down occurs.

APPLICATIONS

The HCK5D valve is ideally suited for low temperature applications to positively close, during defrost, the following: suction lines, liquid overfeed and flooded evaporator gas return. These valves can be installed in horizontal or vertical lines and are best installed on their sides for improved conveyance of liquid and oil. Because they are gas-powered to close, valves operate reliably even under viscous oil conditions. They are suitable for Ammonia, Halocarbons, CO₂ and other Hansen approved refrigerants.

ADVANTAGES

Unique self-equalizing piston design eliminates the need and cost for a separate equalizing solenoid valve and piping. A single high pressure source is the only pilot piping required. Main piston/seat opens based on pressure difference to ensure adequate bleed time. Bleed rate is adjustable via screw-in orifice discs. The ductile iron body is much stronger and tougher than grey iron or "semi-steel" iron. Protective pilot line disc strainers are included. Manual opening stems are standard for positive opening during servicing or trouble shooting systems.



HCK5D

FEATURES

- Internal, self-equalizing piston/seat
- Requires only one pilot solenoid valve for operation
- Remains closed during loss of power
- Adjustable bleed rate via orifice discs
- No pressure drop required to open
- Durable metal-to-metal seating
- Tough ductile iron piston and body
- Lower cost of installation
- Flange-to-flange drop-in for standard Hansen HCK2
- Also available as weld-in, model HCK5DW

ORDERING INFORMATION

Available Sizes: 1-1/2" to 4"

For more information, visit:

WWW.HANTECH.COM