HANSEN

PRODUCT DATA SHEET: SMv2 with Power-Close

INTRODUCTION

The patented **Hansen Sealed Motor Valve** is a unique industrial grade motor operated valve which eliminates the most common concern of other motor operated valves - valve stem seal leakage. The hermetic design has eliminated refrigerant leakage through stem seals because the non-electric rotor is enclosed in a stainless steel can which contains the fluid pressure. The electric stator is located outside the stainless steel can, and is isolated from the fluid in the valve. The outer enclosure provides secondary pressure containment further reducing the potential for refrigerant leaks. The Sealed Motor Valve is unaffected by frost or ice buildup. The V-port or throttling plug is precisely controlled and positioned by the powerful motor. Whether controlling level, temperature or pressure, the Sealed Motor Valve is superior to any valve on the market. The 4-20mA signal allows the customer to control the valve utilizing their own PLC or computer. No proprietary interfaces or controllers are necessary.

Hansen's Next Generation in Sealed Motor Valves, the SMv2, offers an optional motor with **Power-Close**. The Power-Close feature is an integral battery to close the valve in the event of either 24 VAC power failure or 4-20mA control signal failure. Power-Close motors are installed on HMMVC, HMMRC, HMXVC and HMSVC models. Power-Close eliminates the need for a separate battery backup, upstream solenoid valve, or UPS backup. In addition, the Power-Close motor can be retrofitted to existing Hansen Sealed Motor Valves installed in the field.

The SMv2 provides significant upgrades including a higher torque motor for positive seating, true valve position feedback with an independent sensing circuit, multiple V-port options for all industrial applications, and a magnetic calibration switch. Once the valve is calibrated and the magnetic switch is turned off, it will not lose valve position.

APPLICATIONS

Liquid Make-up to Accumulator
Liquid Injection to Compressors
DX Evaporators
Temperature or Pressure Control
Low or High Side Level Control
Slow Opening and Closing: Suction Stop Valve
No Pressure Drop: Gravity Drain
4-20 mA or Floating Point Control

SEALED MOTOR VALVE 1 1/2" HMMRC

VALVE MODEL APPLICATIONS

Model HMMVC valve series is best suited for computer controlled operations using 4-20mA signals. The HMMVC is ideal for precise temperature and pressure control, hot gas defrost, and other applications where accurate process control is required.

Model HMMRC valve series with expansion plug is for high pressure drop applications such as liquid makeup and liquid injection.

Model HMXVC valve series is suitable for liquid injection of screw compressors or direct expansion evaporators.

The full ported **HMSVC** valve series is best suited for applications requiring slow open/close operation only. (Floating Point Control)

For more information, visit:
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