

## INTRODUCTION

**The Hansen Motorized Control Valve** is a unique industrial grade, direct motor operated valve which eliminates the most common concern of the motor operated valves - valve stem seal leakage. The hermetic design has eliminated refrigerant leakage through stem seals because the non-electric rotor and stem are enclosed in a stainless steel can which contains the fluid pressure. The motor is located outside the stainless steel can, and is isolated from the fluid in the valve. The V-port or throttling plug is precisely controlled and positioned by the powerful motor. Whether controlling level, temperature or pressure, the Motorized Control Valve provides precise control with an onboard, field programmable readout. The variety of control signal options allows the customer flexibility to control the valve utilizing their own PLC or computer. No proprietary interfaces or controllers are necessary.

**Hansen's Next Generation in Motorized Control Valves** offers a modernized design which provides improved reliability, simplified installation and use. The motorized control valve provides significant upgrades including a higher torque motor for positive seating, diversified options for power and control signal input, automatic calibration, increased pressure rating, and multiple V-port options for industrial applications.

### Replacing Existing Sealed Motor Valves

Flange-to-flange interchangeable with existing HMMR/HMMV or other Hansen control valves. If desired, existing HMMR/HMMV bodies can be re-used. A cable wiring conversion/adaptor kit is available upon request.

Safe working pressure: 400 psig

Refrigerant temp. range: -60F to +240F

## TYPICAL APPLICATIONS

Liquid Make-up to Accumulator

Liquid Injection to Compressors

DX Evaporators

Temperature or Pressure Control

Slow Opening and Closing: Suction Stop Valve

No Pressure Drop: Gravity Drain

Hot Gas/Soft Gas defrost supply



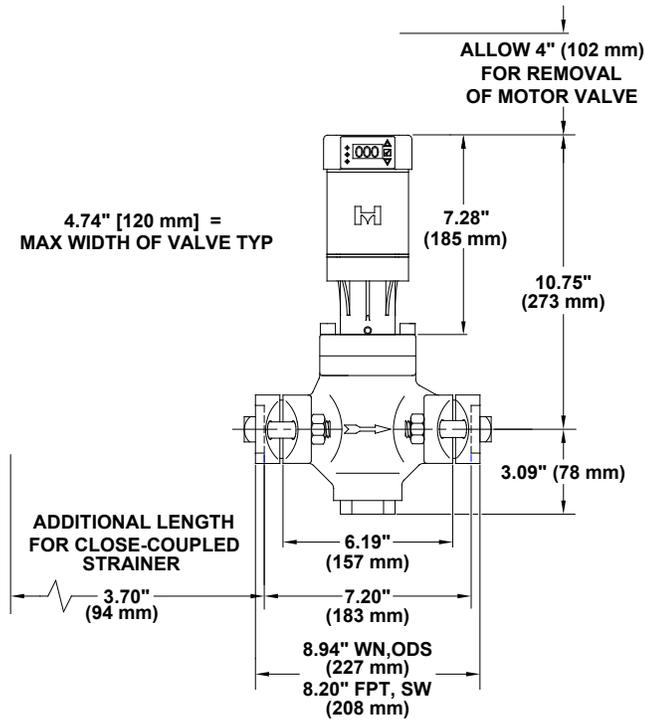
*MCV: Motorized Control Valve*

## MOTORIZED CONTROL VALVE FEATURES

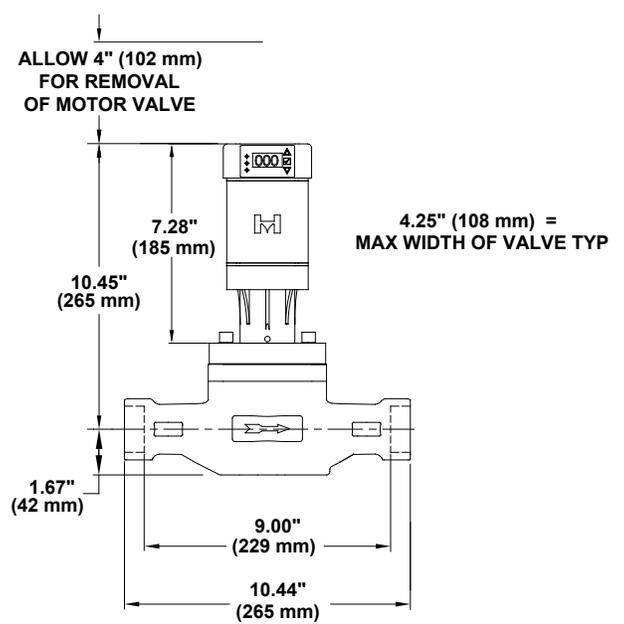
- One high-torque motor fits all 3/4" - 2" valves (20 to 50mm)
- Self-Calibrating  
Automatic calibration on power-up
- Safe Working Pressure  
800 psig (SWP) for weld-in-line valves upon request  
400 psig (SWP) for flanged valves
- Max. operating pressure differential: 800 psid
- Wide temperature range  
Ambient: -40°F - 122°F  
Refrigerant: -75°F - 240°F
- Low voltage power input  
24 Volt AC or DC
- Various Input Control Signal Choices:  
0-20 mA, 4-20 mA, 0-5 V, 0-10 V, 1-6 V, and dry contact
- Valve position feedback  
Built-in Digital Readout  
4-20 mA output signal
- Low Power Consumption (20 Watts)
- Fine motor control  
200 steps per revolution

## 3/4" (20mm) Thru 1-1/4" (32mm) Motorized

### FLANGED

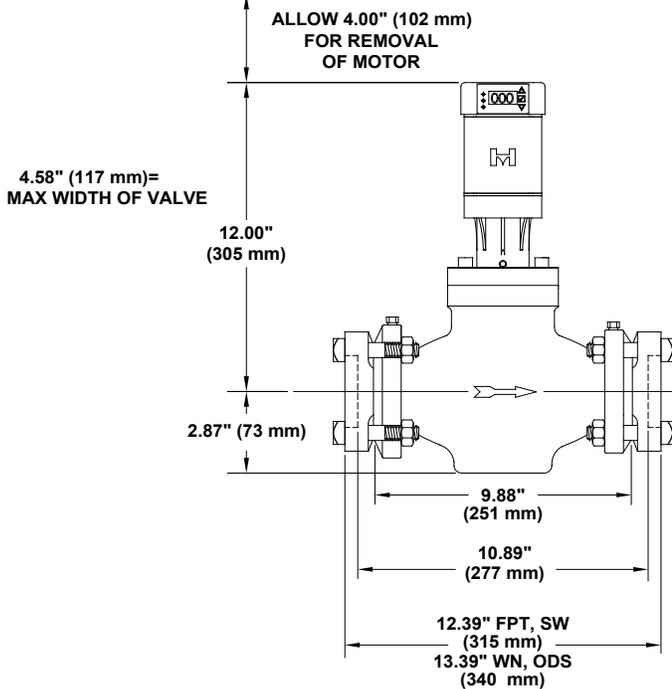


### WELD-IN-LINE

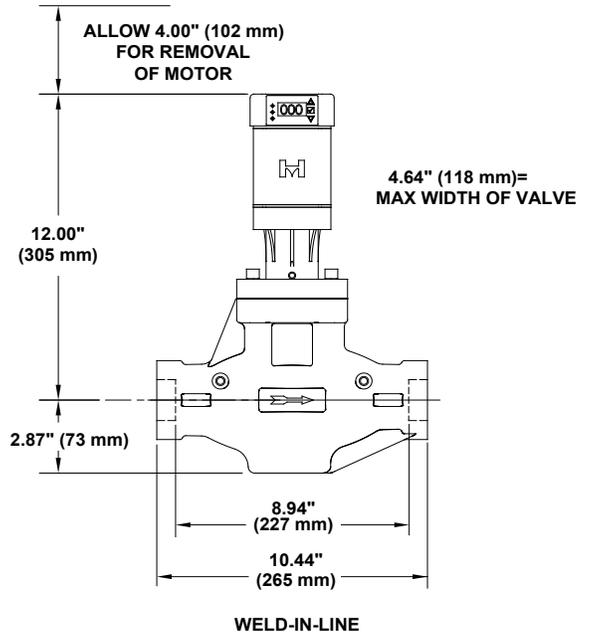


## 1-1/2" (40mm) & 2" (50mm) Motorized Valve

### FLANGED STRAINER CAN NOT BE CLOSE COUPLED



### WELD-IN-LINE



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