



NAUTILUS GLYCOL CONTROL Coolant Distribution Module

Nautilus technology leverages unique core valve technology to maximize the number of independent valve functions per actuator while optimizing packaging space. Nautilus combines flexible on-off and proportional valving functions to control and blend flow for any fluid circuit. Sculpted internal flow port routing, thermally insulated internal walls, and validated low leakage valve technology provides highly efficient system solutions. Furthermore, Nautilus offers optional integration of chillers, pumps, temperature sensors, and more to generate a full-system solution.

The valve provides absolute position sensing via the actuators, which allows for accurate real-time position data. The valve is immune to back pressure spikes, has low pressure drop and has a very low holding torque throughout operation. The integrated design provides a very cost competitive system solution.

***Technical Data:**

Configurable Porting: 3 Way to 22 Way

Configurable Modes: 2-6

Pressure Drop: <20kPa @ 25LPM^^

Leakage: <15 mL/min^^^

Shifting Current: <2A per Actuator

Speed: 6RPM

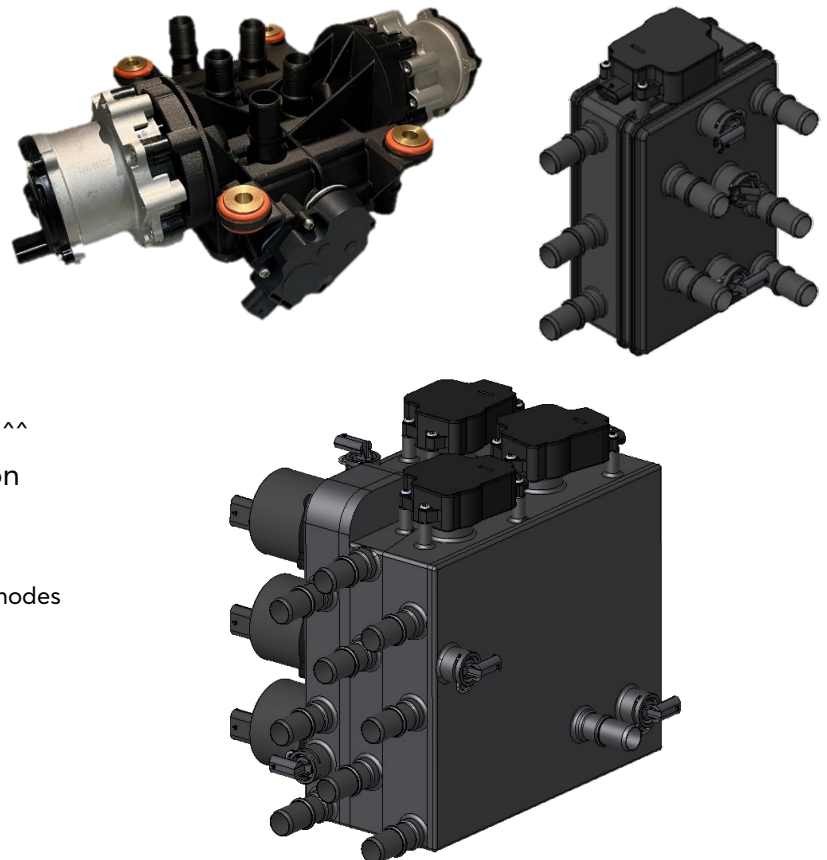
NVH: <50dbA

Connector Type: MLK (Code A)

Hose Connection: SAE J1231 and VDA QC^^^^

LIN Communication: LIN Protocol 2.1 Version

Internal Rotary Sensor: $\pm 3\%$ accuracy



^Design can sometimes allow for a larger number of modes

^^At largest package size

^^^During clean operating conditions

^^^^Flexible to other hose connection types

***Operating Limits:**

Supply voltage nominal: 12 ± 1 VDC

Supply voltage range: 9 to 16 VDC

Temperature: -40°C to 90°C

Durability cycles: 300,000

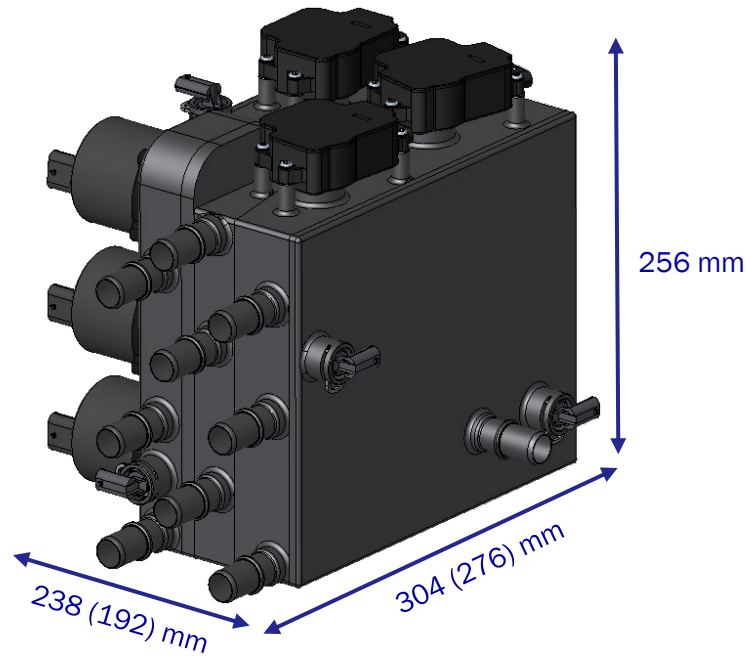


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Packaging Size

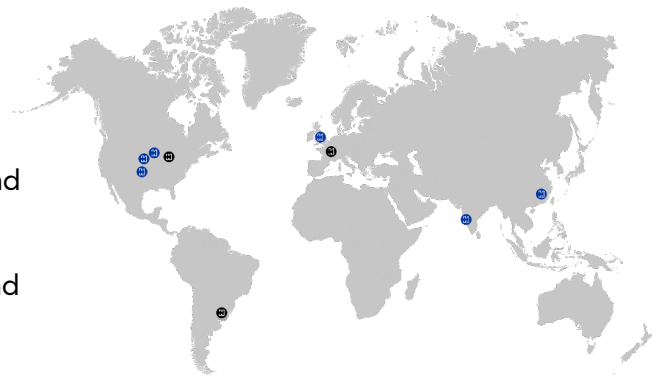


*Dimensions in parentheses exclude ports and sensors

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