We created digital actuators now we add big dimensions

Danfoss NovoCon® S was the first high-accuracy digital actuator on the market. It controls AB-QM and AB-QM 4.0 Pressure Independent Control Valves (PICVs) for Terminal Units in HVAC systems.

Now we are proud to announce NovoCon® M and its corresponding AB-QM NovoCon® PICVs for other HVAC applications such as Air Handling Units (AHUs), chillers and boilers.

Digital control for flows from
3 to 59 m³/h

novocon.danfoss.com
Engineering HVAC 4.0 for smart buildings

Digitalization is changing the way we live, work and interact. As result it is also changing the way HVAC systems are controlled. The ongoing development of smart buildings is changing the heating and/or cooling system requirements in buildings as well. With NovoCon® S, we have set the trend for using digital, connected, HVAC actuators. NovoCon® actuators provide high-accuracy control and collect valuable data for the BMS system via BACnet or Modbus bus communication.

Danfoss NovoCon® M is a new digital actuator. It is designed for the new AB-QM NovoCon® PICVs. This solution expands the usability of digital actuators to cover all main HVAC applications. The PICVs come in sizes DN40-100 and are designed for flows from 3-59 m³/h. This allows the digital control of, and data collection from, Air Handling Units (AHU), chillers and boilers.

Here is an overview of this 4-in-1 solution:

1. **Bus actuator**
   - High-accuracy digital actuator and hydronic flow control
   - For BACnet MS/TP or Modbus RTU bus communication
   - Plug & play BMS integration
   - HVAC data collection
   - Fits AB-QM NovoCon® DN 40-100 for 3-59 m³/h
   - Easy configuration with NovoCon® configuration tool
   - Remote commissioning, design flow setting, flushing and alarming
   - Predictive maintenance data

2. **Flow indicator**
   - Accurate flow indication
   - Power and energy indication
   - Based on open valve measurement + linear valve characteristic
   - > 1,000 steps for open<>close
   - Good alternative for flow and energy meters
   - Accurate pressure and flow measuring via PFM 1000 measuring instrument on Android or iOS mobile devices

3. **I/O device**
   - Analogue inputs: 3x ΩI, 1x AI
   - For temperature sensors, humidity sensors or pressure switches
   - > 1,000 steps for open<>close
   - 1x AO for Variable Speed Drive (VSD), damper actuator, pump or fan

4. **Energy manager**
   - For Active Energy Management (AEM)
   - Optimization of energy efficiency
   - Energy cost allocation
   - Enables continuous commissioning
   - Use for e.g. minimum delta T, minimum or maximum return T limitation

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