Valvsys VIA series divides the entire electric actuator into two parts: Control Unit (VC) and Actuator (AM), and according to customer requirements to provide the right combination.

**Reliable Valve Automation**

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**Valvsys VIA Intelligent Multi-turn Electric Actuator**

Valvsys VIA series divides the entire electric actuator into two parts: Control Unit (VC) and Actuator (AM), and according to customer requirements to provide the right combination.

**VC Control Unit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Control Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC-F</td>
<td>Modulating</td>
</tr>
<tr>
<td>VC-A</td>
<td>DiOff</td>
</tr>
<tr>
<td>VC-B</td>
<td>Modulating</td>
</tr>
</tbody>
</table>

**AM Actuator**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Duty Cycle</th>
<th>Torque</th>
<th>Power Supply</th>
<th>RPM at 60 Hz (50 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>Multi-turn / On/Off</td>
<td>S2-13/15</td>
<td>50-1,200 Nm</td>
<td>Single phase</td>
<td>21-88 [19-72]</td>
</tr>
<tr>
<td>AMR</td>
<td>Multi-turn / Modulating</td>
<td>S4-25%</td>
<td>50-1,200 Nm</td>
<td>Single phase</td>
<td>9-57 [8-48]</td>
</tr>
<tr>
<td>AMRL</td>
<td>Linear / Modulating</td>
<td>S4-25%</td>
<td>3.4-217KN</td>
<td>Single phase</td>
<td></td>
</tr>
</tbody>
</table>

Other Technical Parameters

- **Power Supply**
  - 3-phase: 220, 230, 240, 380, 400, 415, 440, 460, 550, 600, 660, 690
  - Single phase: 110, 115, 127, 230, 240
  - DC Power: 30, 48, 60

- **Drive Coupling Standard**
  - ISO 5210

- **Operating environment**
  - Ambient Temp.: -20°C ~ +70°C
  - Relative Humidity: 85% (+40°C)
  - Atmospheric Pressure: 689-1610 kPa

- **Protection**
  - IP68

- **Control Method**
  - Hard-wire / 4-20mA / Modbus RS485
The new design of the aluminum alloy shell, the actuator has a smaller and more compact appearance, but it does have a stronger structure. Exclusively developed absolute encoders, simple and reliable and with higher accuracy and reliability, and the use of electronic torque switch design, eliminating the traditional mechanical torque adjustment inconvenience and increase accuracy. New humanization design interface, greatly simplifying the operation process, so that operators use more intuitive and easier to understand. Non-invasive settings — no need to open the cover, you can directly use the field manipulator or dedicated remote control settings. A full range of removable modular drive coupling design.

Product Design

1. Torque detection and control
By detecting the main control board to the motor power supply voltage and current, and through the microprocessor to accurately calculate the actual torque. Once the preset cut-off torque is reached or exceeded, the controller immediately cuts off the power supply to the motor, thus achieving over-torque protection. The torque switch can be set within the range of 60%–110% of the rated torque.

2. Humanization Interface
Through the LCD screen and local operation knob to set the parameters. It’s easier to use. The parameters can be set without opening the cover, ie non-intrusive parameter settings. Through the knob to control the actuator to reach the fully open position, and then reach the fully closed position. The controller adjusts the high precision absolute encoder to detect and save the two extreme positions, and the commissioning work is finished.

3. Position detection and control system
The use of torque integrated circuit devices to replace mechanical parts, electronic components are not worn, no maintenance, high degree of intelligence, and can be programmed design settings. Such as electronic limit protection and electronic torque protection function to replace the mechanical switch and the mechanical torque switch, eliminating the need for limit switch and torque switch adaptation. The parameters can be reset without having to open the cover.

4. Safe manual operation
Actuator design has been hand / electric switch to a reliable mechanical and electrical interlock, so that in the manual state to ensure reliable circuit off to prevent the hand wheel with the risk of personal injury.

5. Drive Coupling
VIA full range of drive coupling modular design, when the need for maintenance can be directly separated from the actuator and can also be replaced by different types of drive coupling; the connection standard using ISO 5210, in line with international standards.