Model AB-QM Pressure Independent Balancing and Control Valve

Actuator Submittal, Proportional AME 10 Motor Actuator

Description
The AME 10 actuator is a low voltage proportional actuator that is available with a feedback function that is installed on the pressure independent control valve AB-QM in sizes ranging from ½" to 1¼". Other features of the AME 10 include:

- No tool requirement for installation
- Linear characteristic actuator
- Force sensitive switch-off reducing overload to the actuator

Model Number Unit Tag Qty
AME 10 - required spacer 003Z0257

Specification
The motorized actuator shall be 24VAC powered and mount to the AB-QM valve body. The actuator shall be capable of ensuring that excessive overload travel of actuator does not occur. The operation of the actuator shall be determined based upon a proportional input signal of 0-10VDC, 2-10VDC, 0-20mA, or 4-20mA and in addition be capable of a feedback signal for position indication. The actuator characteristic shall be linear.

Code No. AME 10 082H3005

- Power supply 24 VAC; +10%...-15%
- Power consumption 2 VA
- Frequency 50 Hz/60 Hz
- Control input Proportional, 0(2) -10VDC, 0(4) -20mA
- Output signal 0 - 10 VDC
- Close off force 300 N
- Max. actuator travel 5 mm
- Speed 11.75 s/mm
- Max. medium temperature 266°F (130 °C)
- Ambient temperature 32 … 131 °F (0 … 55 °C)
- Degree of protection IP 54, NEMA 2
- Weight 1.3 lb (0.6 kg)

- marking in accordance with standards Low Voltage Directive (LVD) 2006/95/EC: EN 60730-1, EN 60730-2-14 EMC Directive 2004/108/EC; EN 61000-6-2, EN 61000-6-3
AME 10 Motor Actuator Submittal

Orientation

The actuator should be mounted with the valve stem in either horizontal position or pointing upwards. The actuator is fixed to the valve body by means of a mounting ring which is tightened by hand and requires no additional tools for mounting. Prior to wiring the valve it is recommended that the actuator is mounted.

Mounting

AMES 10 (082G3005): A spacer (prt# 003Z0257) is required to be placed between the AB-QM valve body and the motor actuator. Then the actuator is tightened to the valve.

Wiring

<table>
<thead>
<tr>
<th>SP</th>
<th>24 VAC/DC</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>SN</td>
<td>Neutral</td>
<td>Common</td>
</tr>
<tr>
<td>Y</td>
<td>0(2) to 10VDC</td>
<td>Input Signal</td>
</tr>
<tr>
<td>X</td>
<td>0(4) to 20mA</td>
<td>Output signal</td>
</tr>
</tbody>
</table>

Dimensions

The dimensions are as follows:
- Maximum diameter: 4.7in (121mm)
- Minimum diameter: 4.2in (107mm)
- Length: 3.2in (83mm)
- Height: 7.8in (200mm)