**Model AB-QM Pressure Independent Balancing and Control Valve**

**Actuator Submittal, 3-point Floating AMV 13 SU/SD Safety Function Actuator**

**Description**

The AMV 13 SU/SD actuators are low voltage 3-point floating actuators that are available with spring return function that are installed on the pressure independent control valve AB-QM. The spring return function of the AMV provides a safety open or close of the valve in the event of power failure. Other features of the AMV 13 SU/SD include:

- No tool requirement for installation
- Selectable linear or equal percentage actuator characteristic
- Force sensitive switch-off reducing overload to the actuator

<table>
<thead>
<tr>
<th>Model</th>
<th>Number</th>
<th>Unit Tag</th>
<th>Qnty</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMV13 SU</td>
<td></td>
<td></td>
<td>- requires adapter 003Z3960</td>
</tr>
<tr>
<td>AMV13 SD</td>
<td></td>
<td></td>
<td>- required spacer 003Z0257</td>
</tr>
</tbody>
</table>

**Code No.**

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<th>AMV 13 SU</th>
<th>AMV 13 SD</th>
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<td>AMV13 SU</td>
<td>082H3043</td>
<td>082G3004</td>
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</table>

- **Power supply**: 24 VAC; +10%...-15%
- **Power consumption**: 7 VA
- **Frequency**: 50 Hz/60 Hz
- **Control input**: 3-point floating
- **Output signal**: 4&5 position indication or monitoring
- **Close off force**: 300 N
- **Max. actuator travel**: 5 mm (AMV13 SU) 5.5 mm (AMV13 SD)
- **Speed**: 14 s/mm
- **Safety function speed**: 10 sec. from full open/close
- **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
AMV 13 SU/SD 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.

Wiring

```
\[ \begin{array}{c|c|c|c|c|c}
\text{N} & \text{L} & 4 & 1 & 3 & 5 \\
\hline
\text{L} & 24 \text{VAC/DC} & \text{Power supply} \\
\text{N} & \text{Neutral} & \text{Common} \\
1, 3 & \text{Control voltage input from controller} \\
4, 5 & \text{Output used for position indication or monitoring} \\
\end{array} \]
```

Mounting

1. [Image of mounting process]
2. [Image of mounting process]

AMV 13 SD (082G3004): 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.

Dimensions

```
\begin{align*}
&4.2\text{in (121mm)} \\
&3.2\text{in (83mm)} \\
\end{align*}
```

AMV 13 SU (082H3043): An adapter (prt# 003Z3960) is required to be installed onto the AB-QM valve prior to the installation of the actuator. Then the actuator is tightened to the valve.