



Model AB-QM Pressure Independent Balancing and Control Valve

Actuator Submittal, 3-Point Floating AMV 435

DATE _____ SPEC. SECTION _____ PAGE _____ OF _____

| <u>PROJECT</u> | <u>ARCHITECT/ENGINEER</u> | <u>APPROVALS</u> | | | |
|------------------|---------------------------|------------------|----------------|------|-------|
| | | AGENCY | REPRESENTATIVE | DATE | NOTES |
| | | ARCHITECT | | | |
| | | ENGINEER | | | |
| | | CONTRACTOR 1 | | | |
| | | CONTRACTOR 2 | | | |
| | | (OTHER) | | | |
| | | NOTE | COMMENT | | |
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| <u>SUPPLIER</u> | <u>CONTRACTOR</u> | | | | |
| <u>ORDER NO.</u> | | | | | |



Description

AMV 435 actuator is specifically used with the AB-QM 2-way valve bodies in sizes ranging from 1½" to 4". This actuator receives a 3-point floating input signal and can provide an output signal for position indication. Other features of the AMV 435 include:

- No tool requirement for installation
- LED visual operation feedback
- Selectable stem travel speed
- Selectable linear or equal percentage actuator characteristic
- Automatic stem travel calibration

| Model | Number | Unit Tag | Qty |
|---------|--------|----------|-----|
| AMV 435 | | | |

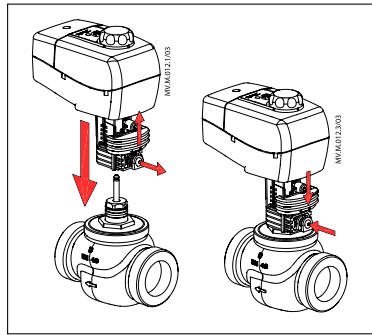
| <u>Code No.</u> | 082H0162 |
|--|--|
| Power supply | 24 VAC/DC; +10%...-15% |
| Power consumption | 2 VA |
| Frequency | 50 Hz/60 Hz |
| Control input, ter. 1 & 3 | 3-point floating |
| Output signal, ter. 4 & 5 | Position indication |
| Close of force | 400 N |
| Max. actuator travel | 20 mm |
| Speed | 7.5 s/mm or 15 s/mm selectable |
| Max. medium temperature | 248°F (120 °C) |
| Ambient temperature | 32 ... 131 °F (0 ... 55 °C) |
| Degree of protection | IP 54, NEMA 2 |
| Weight | 1.0 lb (0.45 kg) |
| CE - 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 |

Specification

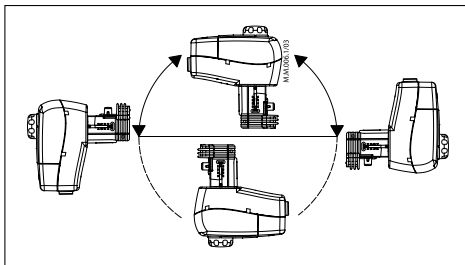
The motorized actuator shall be 24VAC/DC powered and mount directly to the AB-QM valve body. The actuator shall mount to the valve through an integrated mechanism that does not require any tools. The actuator shall be capable of calibrating its travel to the required stem travel of the valve. The stem travel speed of the actuator shall be determined based upon a DIP switch located beneath the cover of the actuator. The motorized actuator shall have a visible LED feedback to provide operation information and a manual knob for override adjustment of the actuator.

Mounting

No tool is required to mount the actuator to the valve. The mounting mechanism is integrated into the design of the actuator.



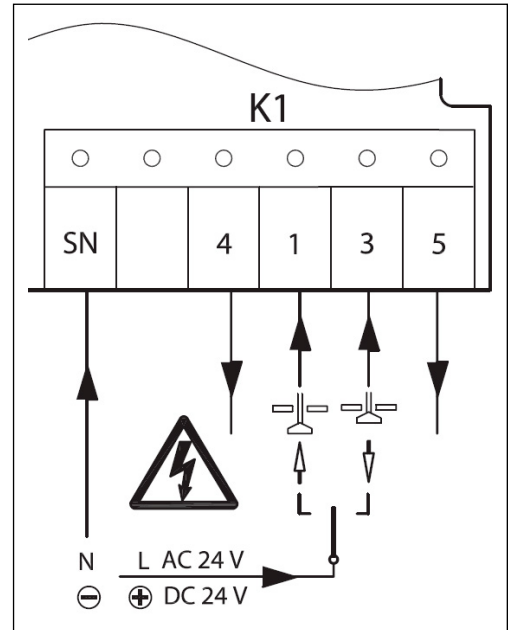
Orientation



Installation of the valve with the actuator is allowed in a horizontal or pointing in an upwards position. The installation of the actuator pointing down is not allowed.

The actuator may be rotated 360° with respect to the valve's mounting base stem by loosening the mounting mechanism. Once properly rotated, re-engage the mounting mechanism.

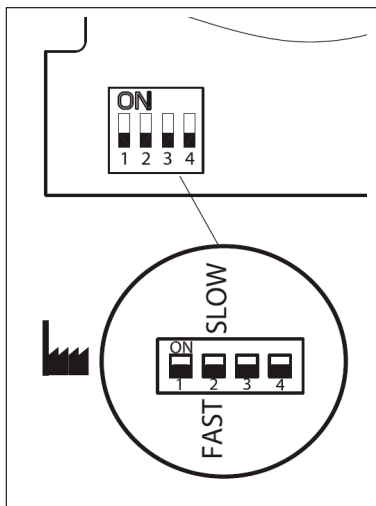
Wiring



- SN** NeutralCommon
- 1, 3** Open valve, input signal, 24V
- 1, 3** Close valve, input signal, 24V
- 4, 5** Output position indication

DIP switches

- **SW 1:** Not used
- **SW 2:** Input signal range selector
 - 0-10 V / 2-10 V
 - 0-20 mA / 4-20 mA
- **SW 3:** Not used
- **SW 4:** Not used



Dimensions

