

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

# Actuator Submittal, Proportional AME 13 SU/SD Safety Function Actuator

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DATE	SPEC. SECTION	PAGE	OF

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



Model	Number	Unit Tag	Qnty
AME 13 SU			
	- requires adapter 003Z3960		
AME 13 SD			
	- 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 calibrating its travel to the required stem travel of the valve and ensure 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 position indication. The actuator shall also have the option of selectable valve flow adjustment in either a linear characteristic or equal percentage.

### Description

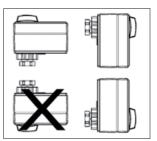
The AME 13 SU/SD actuators are low voltage proportional actuators that are available with spring return function that are installed on the pressure independent control valve AB-QM. The spring return function of the AME provides a safety open or close of the valve in the event of power failure. Other features of the AME 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
- Automatic stem travel calibration

Code No.	AME 13 SU	AME 13 SD
	082H3044	082G3006
Power supply	24 VAC; ±10%	
Power consumption	9 VA	
Frequency	50 Hz	/60 Hz
Control input	Proportional, 0(2) -10VDC, 0(4) -20mA	
Output signal	0 - 10	VDC
Close off force	300	0 N
Max. actuator travel	5 mm	5.5 mm
Speed	14 s	/mm
Safety function speed	10 sec. from f	ull open/close
Max. medium temperature	266°F (	130 °C)
Ambient temperature	32 131 °F	(0 55 °C)
Degree of protection	IP 54, N	EMA 13
Weight	1.3 lb (	0.6 kg)
<b>C</b> € - 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	

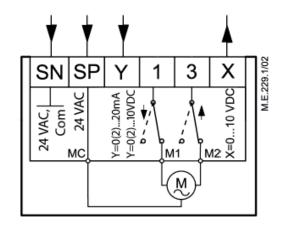


### Orientation



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.

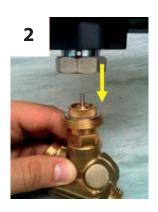
### Wiring



SP	24 VAC/DC	Power supply
SN	Neutral	Common
Υ	0(2) to 10VDC	Input Signal
	0(4) to 20mA	
X	0(2) to 10VDC	Output signal

# Mounting





AME 13 SD (082G3006):

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.

# 003Z3960

## AME 13 SU (082H3044):

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.

### **Dimensions**

