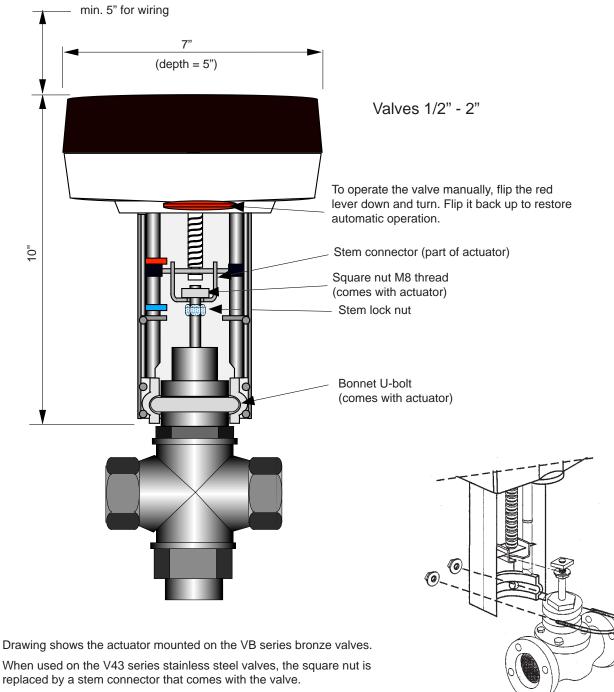
VM400, VM800, VM1500, Installation Instructions



All three actuator models have the same dimensions.

Thread the locknut and square nut onto the valve stem. If a stem adapter is used thread it onto the stem as far as it will go.

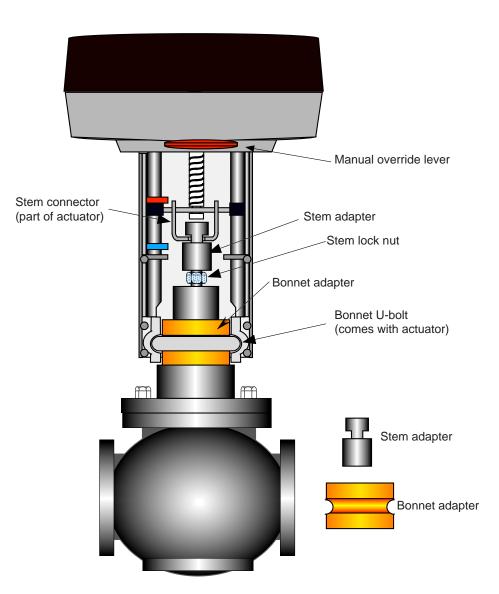
Position the valve stem or the actuator linkage so that the stem connector can slide under the square nut or through the slot of the stem adapter when the actuator is pushed over the valve bonnet.

Put the U-bolt through the grooves in the linkage and bonnet. Add and tighten the U-bolt nuts. Tighten the stem lock nut against the bottom of the stem connector.

To remove the actuator from the valve, remove the nuts from the U-bolt and loosen the stem locknut.

Valves with a threaded bonnet require a separate bonnet adapter.

Actuator mounted on valves 2 1/2" and up.



Wiring and Operation

Operation

The operating mode of the actuator is set by a row of switches on the circuit board. The operating mode can be changed by turning the power off and resetting the switches.

Dip Switch Settings

Switch

- 1 Actuator stem retracts on start-up
- 2 Modulating 2 10 Vdc or 0 10 Vdc Signal

OFF

- 3 Full range control signal
- 4 0 10 volt control signal (0 20 mA)
- 5 0- 5 (2-6) volt split range control signal
- 6 60 seconds full travel time in floating mode (switch #2 on; otherwise no effect)
- 7 Travel direction; stem down on increasing signal (modulating mode only)
- 8 Linear motion proportional to signal.
- 9 Normal operation

0	ON								
1	2	3	4	5	6	7	8	9	
Π									

Factory default: All switches OFF

ON

Stem extends on start-up

3 point floating (see also switch 5)

Split range control signal

2 - 10 volt control signal (4 - 20 mA)

5 - 10 (6-10) volt split range control signal

300 seconds travel time in floating mode (switch #2 on; otherwise no effect)

Stem up on increasing signal

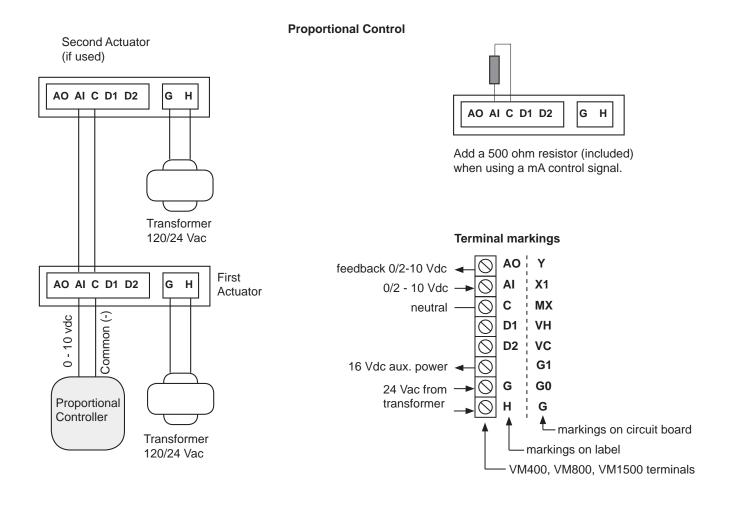
Changes valve characteristic: converts equal percentagevalves to linear and linear valves to quick opening.

Valve stroke adjustment. With switch 9 ON momentarily, the actuator self-adjusts to the stroke of the valve.

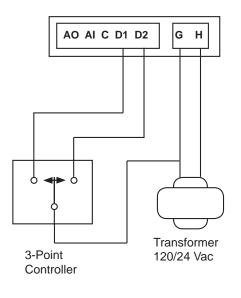
Wiring Terminal Markings

New (Label)	Old (On circuit board)				
AO	Y	Feedback signal	2 - 10 Vdc		
AI	X1	Input signal	0 -10 or 2 - 10 Vdc		
С	MX	Input neutral	0 Vdc		
D1	VH	Floating input signal stem up	24 Vac		
D2	VC	Floating input signal stem down	24 Vac		
*	G1	Power output for tac devices	16 Vdc		
Н	G	Power in	24 Vac		
G	GO	Power & signal neutral	24 Vac		

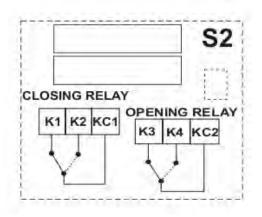
*/ This terminal is blank on the new label







Auxiliary Switches



Switches are only available in the -2S models