

APPLICATION NOTE

VA-7152 Proportional Reheat Control

This application for the VA-7152 Electric Valve Actuator provides control for reheat operations. This may also include baseboard heat. It is for use with proportional controllers. Obtain the system diagrams for controller installation to verify proper terminals for each actuator.

Terminal	Function
1	24 VAC Supply Voltage
2	Power Common
3	Signal Common
4	Input Control Signal

Note: Terminals 2 and 3 are tied together on the circuit board.

Application Values	Calibration Values
0 - 10	1 - 9
0 - 5	1 - 4
5 - 10	6 - 9

Note: Use of the calibration values in the table above will ensure proper shut off throughout the life of the valve (accounts for seat wear).

- DA: full up (minimum voltage)
- RA: full up (maximum voltage)

Input Control Signal		Actuator Coupler
DA	RA	
Increase	Decrease	Extends
Decrease	Increase	Retracts

Note: Follow wiring and termination instructions detailed in the applicable controller manual.

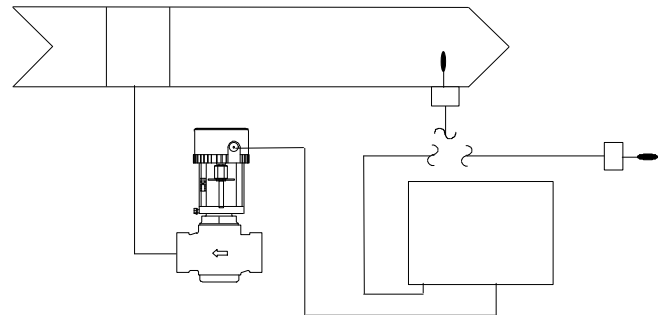


Figure 1: Typical Reheat Configuration

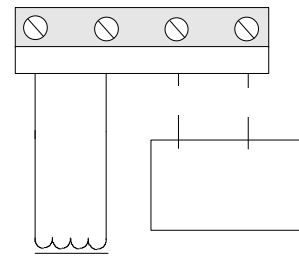


Figure 2: Using Voltage Controller

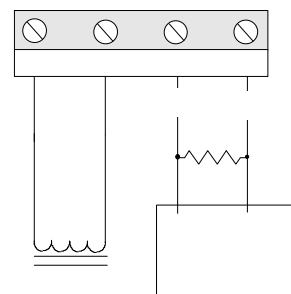


Figure 3: Using Current Controller

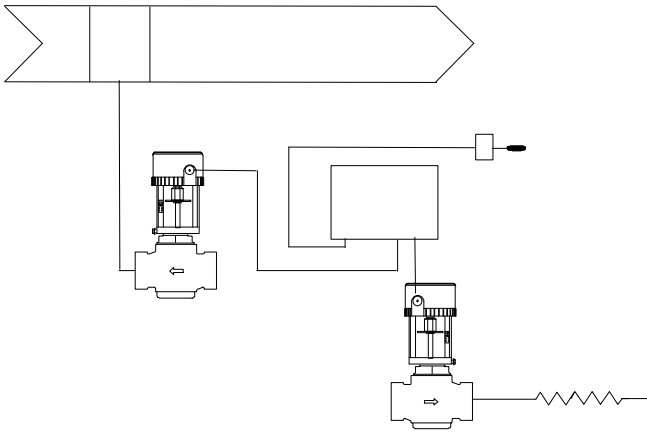


Figure 4: Sequencing Application

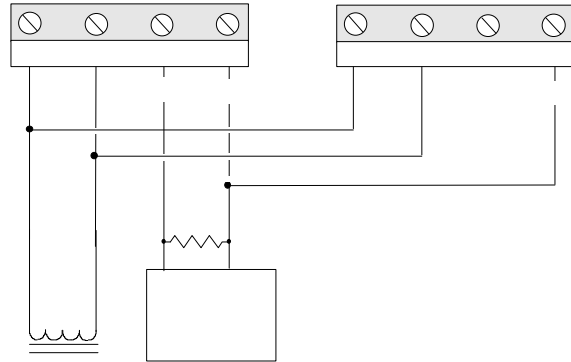


Figure 6: Sequencing or Parallel Operation Using Current Controller

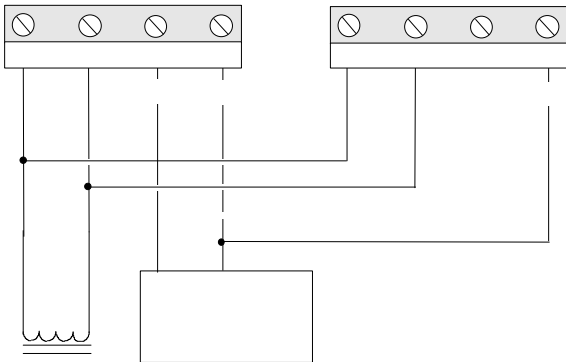


Figure 5: Sequencing or Parallel Operation Using Voltage Controller



CAUTION: Observe polarity when using multiple actuators on a single transformer.

Note: These applications may be used in combination with Johnson Controls VA-7202, VA-8052, and VA-8022 electric valve actuators.

For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

**JOHNSON
CONTROLS**

Controls Group
507 E. Michigan Street
P.O. Box 423
Milwaukee, WI 53201

Printed in U.S.A.