

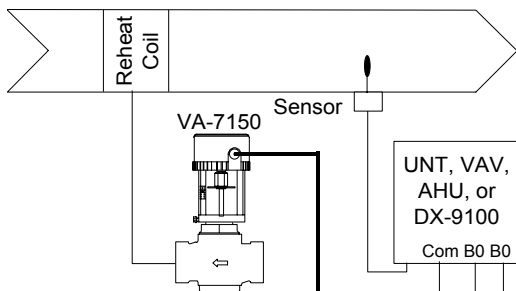
**APPLICATION NOTE****VA-7150 Incremental Reheat Control**

This application for the VA-7150 Series Electric Valve Actuator provides control for reheat operations. This may also include baseboard heat. It is for use with on-off/floating controllers. Obtain the system diagrams for controller installation to verify proper terminals for each actuator.

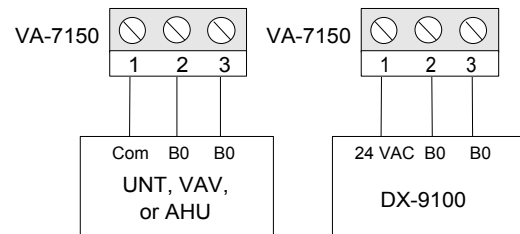
| Terminal | Function |
|----------|----------|
| 1        | Common   |
| 2        | Down     |
| 3        | Up       |

| Energizing Terminals | Actuator Coupler |
|----------------------|------------------|
| 1 - 2                | Extends          |
| 1 - 3                | Retracts         |

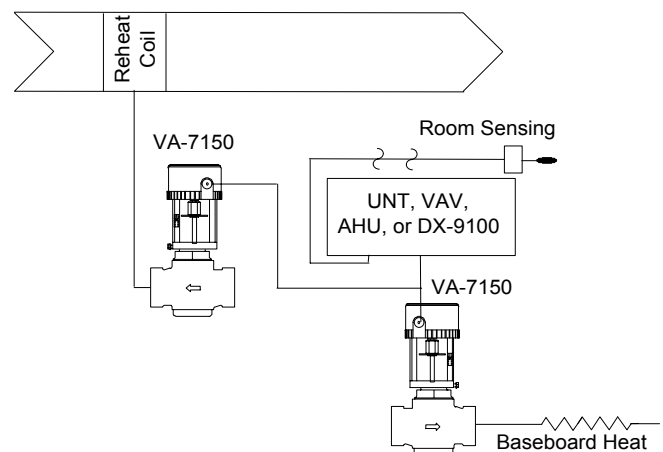
Providing 24 VAC to terminals 1 and 2 will cause the actuator drive screw to extend, pushing the valve stem down. Providing 24 VAC to terminals 1 and 3 will cause the actuator drive screw to retract, pulling the valve stem up.



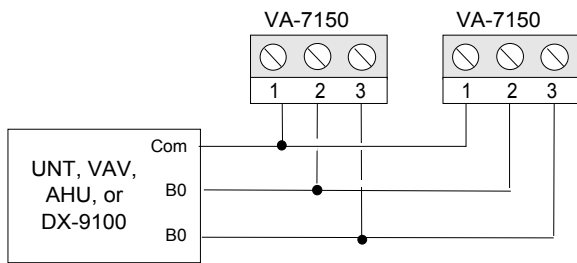
**Figure 1: Typical Incremental Control Reheat Configuration**



**Figure 2: Incremental Wiring**



**Figure 3: Parallel Operation, One Controller and Two Actuators**



**Figure 4: One Controller, Two Actuator Wiring**

- IMPORTANT:**
- Do not mix VA-8020 or VA-8050 actuators with VA-7150 actuators in this application.
  - Two position operation is not recommended unless a means is provided to disconnect power to the actuator at the ends of stroke. End stop limiting results in maximum life of the actuator.
  - It is not recommended to mix valves with different stroke lengths because of variations in time to stroke.

*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

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