

Sample Specification

Section 15000; Modulating Control Valves

- A. All modulating control valves shall be pressure independent and provided by the same manufacturer. The basis of design is the DeltaPValve[®] as manufactured by:

Flow Control Industries, Inc.	P: (425) 483-1297
PO Box 848	F: (425) 486-5672
Woodinville, WA 98072	www.flowcontrol.com

- B. All control valves shall be industrial quality and may be fully rebuilt. Valves shall be designed to last 30 years or throughout the life of the facility.
- C. The control valve manufacturer shall provide written guarantee that the heating and cooling coils will meet or exceed maximum delta T performance at all load conditions as projected by an ARI certified coil program at time of commissioning. The valve manufacturer will reimburse the full purchase price of the valve(s) if this performance level cannot be met.
- D. Balancing valves and associated balancing shall not be required where pressure independent modulating control valves are installed.
- E. Each control valve shall be individually flow tested and factory verified to deviate no more than $\pm 5\%$ through the operating pressure range. A calibrated performance tag shall be provided with each valve (optional for $\frac{1}{2}$ " [15mm]) listing the measured flow rate in 10° rotation increments.
- F. Control valve rangeability shall be 100:1 minimum.
- G. Valve bodies 2" [50mm] and smaller shall be brass. Valve bodies 3" [80mm] thru 8" [200mm] shall be ductile iron. All internal parts shall be brass, carbon steel, stainless steel or Teflon[®]. Plastic internal parts are not acceptable.
- H. All valves shall have (3) factory installed pressure/temperature ports.
- I. Valve flow characteristics may be modified in valves 8" [200mm] and smaller without removal from the piping system. All seals may be replaced in valves 3" [80mm] and smaller without removal from the piping system.
- J. Actuators from major brands shall be factory mounted and shall meet close-off requirements.
- K. All valves shall be warranted by the manufacturer for no less than a full 5 years from the date of purchase. The warranty provided by the actuator manufacturer shall apply to actuators.