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## Section 23 09 00 – INSTRUMENTATION AND CONTROL FOR HVAC

23 09 13 Instrumentation and Control Devices for HVAC

## 13.13 ACTUATORS

- A. Industrial Electric Actuators (*ONLY TO BE USED WITH 13.33. E Butterfly Valves Resilient Seat and 13.33. F Butterfly Valves High Performance.*)
  - 1. The combination of valve and actuator shall meet the close-off requirements as specified in Section 2.16.D/E Butterfly Valves.
  - 2. Coupling: ISO 5211 mounting standards.
  - 3. Overload Protection: 120VAC and 220VAC line voltage units shall have a built-in thermal overload protector with automatic reset.
  - 4. Manual Override: Actuator shall be equipped with a declutchable hand wheel for manual operation. Engagement of the manual hand wheel shall disconnect power to the motor.
  - 5. Actuator shall have an option to provide remote indication of manual vs. automatic mode of operation.
  - 6. Power Requirements: 24VAC, 120VAC or 220VAC
  - 7. Auxiliary Switches: Two SPDT rated 10A at 120 VAC or 10A at 220 VAC.
  - 8. Temperature Rating:  $-20 \text{ to } +150^{\circ}\text{F.}(-29 \text{ to } +65^{\circ}\text{C})$
  - 9. Housing: Minimum requirement NEMA type 4X/ IP65 with polyester coating. Actuator shall have an option for an internal heater to prevent condensation within the housing. A visual indication beacon shall indicate position status of the device.
  - 10. Agency Listing: UL, CE, CSA
  - 11. The manufacturer shall warrant for 18 months from shipment or one year from service date.
  - 12. Bray S-70 or equal.