

M100 Control Valves

- A. Manufacturers
 - 1. Solenoid Valves: ASCO, GC
 - 2. Ball Valves: Apollo, Sharpe, Jomar
 - 3. Butterfly Valves: Nibco, ABZ
 - 4. Actuators: RCI, Apollo

- B. General: Provide diesel fuel flow control valves as indicated on the drawings. Valves and actuators shall be UL listed or conform to PAI specifications.

- C. Design Criteria
 - 1. Solenoid Valves: Solenoid valves shall be brass or stainless steel body with threaded connections. Valves seats and seals shall be Viton or Teflon. Valves shall be rated for 150 PSI minimum. Valve operating coils shall be 120 VAC or as noted on the drawings. Solenoid Valves shall be UL listed. Valves shall be capable of being mounted in vertical or horizontal positions. Valves for suction service shall operate with zero pressure differential across the valve. Valves shall be normally closed, unless specifically noted as normally open on the drawings.
 - 2. Ball Valves: Ball valves shall be carbon steel construction with stainless steel trim and Teflon soft goods. Valves shall have threaded, socket weld, or flange connections as noted on the drawings. Valves shall conform to UL 805 or API 601 standards for use in diesel fuel service.
 - 3. Butterfly Valves: Butterfly valves shall be ductile iron body with stainless steel trim and Viton soft goods.
 - 4. Actuators: Actuators shall be NEMA 4 enclosure with additional ratings for NEMA 7-9 where indicated on the drawings. Actuators shall be 120 VAC unless otherwise noted. The actuator shall be sized to operate the valve at the maximum operating pressure of the valve. Actuators shall include position indicators. Actuators shall include limit switches for open and closed positions for integration with fuel system controllers. Actuators shall have manual over-ride capabilities to open when de-energized.

- D. Accessory Equipment
 - 1. Strainers: Wye type strainers with 100 mesh openings shall be installed upstream of all solenoid valves.