

SOLENOID CONTROL VALVE (6" and Larger)

		01/06
	Model	930-19
930 Series		630-19

Specifications

The Solenoid Control Valve shall be a pilot operated diaphragm valve designed to open fully or close driptight as commanded by a 3-Way Solenoid Pilot. The valve shall have provisions for manual operation in the event of power outage. Solenoid voltage shall be ______ and enclosure shall be NEMA 4 General Purpose. The main valve shall (open / close) when the solenoid is energized.

The main valve shall be a hydraulically operated, single diaphragm actuated, globe or angle pattern valve. Y-pattern valves shall not be permitted. The valve shall contain a disc and diaphragm assembly that forms a sealed chamber below the valve cover, separating operating pressure from line pressure. The diaphragm shall be constructed of nylon reinforced Buna-N, and shall not seal directly against the valve seat and shall be fully supported by the valve body and cover. Rolling diaphragm construction will not be allowed and there shall be no pistons operating the main valve or any pilot controls.

The main valve body and cover shall be Ductile Iron ASTM A536, and all internal cast components shall be Ductile Iron or CF8M (316) Stainless Steel. All Ductile Iron components, including the body and cover, shall be lined and coated with an NSF 61 Certified Epoxy Coating applied by the electrostatic heat fusion process. All main valve trim and throttling components (cover bearing, valve seat and disc guide) shall be Stainless Steel. The valve body and cover must be machined with a 360-degree locating lip to assure proper alignment.

The disc and diaphragm assembly shall contain a Buna-N synthetic rubber disc with a rectangular crosssection that is securely retained on 3-1/2 sides by a disc retainer and disc guide. Diaphragm assemblies utilizing bolts or cap screws for component retention will not be permitted.

The exposed portion of the seat disc shall contact the valve seat and seal drip-tight. The disc and diaphragm assembly must be guided by two separate bearings, one installed in the valve cover and one concentrically located within the valve seat, to avoid deflection and assure positive disc-to-seat contact. Center guided valves will not be permitted. All necessary repairs shall be made from the top of the valve while the body remains in line.

The pilot control system shall contain a 3-Way Solenoid Pilot with screw type Manual Operator, 3-Way Accelerator Pilot, separate Adjustable Opening and Closing Speed Controls, an external Y-Strainer and Isolation Ball Valves on all body connections. The pilot control system shall utilize copper tubing and brass fittings.

The valve shall be AMES Model 930GD-19 / 630GD-19 (Globe) or 930AD-19 / 630AD-19 (Angle) Solenoid On-Off Control Valve.