



CONTROL VALVE SERVICES

## Self-Contained Programmable Flush Control Valve (4" and Smaller)

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### F-100 Series Automatic Control Valve

FT-1000 (Globe)  
FT-1006 (Angle)

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#### Specifications

The Self-Contained Programmable Flush Control Valve shall be a pilot operated diaphragm valve designed to open or close drip-tight as commanded by a digitally timed latching solenoid pilot. The valve shall have provisions for manual operation and the ability to program the duration the valve will open while in manual operation.

The main valve shall be 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 a 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 or hour glass shaped diaphragm assembly.

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 a NSF and FDA approved 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 cross-section 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.

Pilot control systems for valves 4" and smaller shall contain a Flow Clean Strainer on the supply inlet port. Isolation Ball Valves shall be installed on all body connections to isolate the pilot system for testing and maintenance. To prevent surges and control the speed at which the valve closes, a Closing Speed Control shall be installed. A Digitally Timed Latching Solenoid that is completely self contained, having timed manual override, 6 programs available per day and meets NEMA 6P standards for submersion shall be installed.

A stem limiter shall be installed into the center cover port to prevent the valve from opening fully and maintaining system back-pressure to your state's minimum requirements. A 0-160 PSI pressure gauge shall be installed on the inlet side for measuring system back pressure. All pilot control systems shall utilize copper tubing and brass fittings regardless of valve size.

The valve shall be FLOWTECH Model F-1000 (Globe) or Model F-1006 (Angle) Self-Contained Programmable Flush Control Valve.

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