



Product Specifications

Pro Series 100 Electric Valve (1") / Professional Valve Series

Model # 7001, 7001-SL, 7001-BSP, 7001-BSP-NFC, 7001-NFC, 7001-SL-NFC,
7001-MXB, 7001-MXM, 7001-BSP-MXM, 7001-MXM-NFC,
7001-BSP-MXM-NFC, 7001-MXB-NFC

The remotely operated electric valve shall be a normally closed, electronically-actuated, diaphragm-operated, remote-control zone valve. The valve will be capable of operating between _____ and _____ PSI (bars; kPa) with a flow range of between _____ and _____ GPM (m³/hr; l/m). Pressure loss shall be _____ PSI (bars; kPa) at a maximum of _____ GPM (m³/hr; l/m). The standard solenoid shall be a 24 VAC, 60 cycle unit with a .43 Amps inrush current and .25 Amps holding current. The valve shall open or close in less than 1 minute at 150 PSI (10,35 bar), and less than 30 seconds at 20 PSI (1,38 bar).

The valve design shall have a heavy-duty tilt diaphragm/piston assembly allowing for straight flow path of the water to increase the flow rate while reducing the friction loss. The valve shall be debris tolerant in design for potable or non-potable water applications. The diaphragm shall have a metering screen of 50 mesh filter in the turbulent flow of water allowing for self-cleaning action during operation.

The body and bonnet shall be molded of non-corrodible, UV Resistant PVC rated to 150 PSI (10.3 bars/1030 kPa). The bonnet screws shall be stainless steel and serviceable with a Phillips screwdriver. The solenoid shall be an encapsulated, one-piece unit with captive plunger to allow for easy removal when servicing. The solenoid shall be equipped with a manual internal open/close capability to release the upper chamber water to the downstream piping, allowing the valve to open without electrically energizing the unit. The valve shall operate manually by means of adjusting the external bleed screw. The external bleed screw shall have a removable metering pin for easy cleaning without disassembly of the valve. The valve construction shall provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

When specified, the valve shall have an optional non-rising stem-type, flow control mechanism with removable tamper-resistant handle allowing for precise flow adjustment and manual shut off. The valve shall have an overall length of _____ inches (cm), a width of _____ inches (cm), and a height of _____ inches (cm). The valve with the optional flow control handle installed shall have an overall length of _____ inches (cm), a width of _____ inches (cm), and a maximum height of _____ inches (cm). When specified, the



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inside diameter shall measure 1-inch (2.5 cm) slip and glue and the outside diameter shall measure 1 ¼-inch (3.2 cm) slip. The valve shall be adjustable by a flat blade screwdriver for operation without the handle. The valve is manufactured for twelve (12) different applications:

1. To accept 1-inch (2.5 cm) female slip
2. To accept 1-inch (2.5 cm) female thread
3. To accept 1-inch (2.5 cm) female BSP (British Standard Pipe) thread
4. To accept 1-inch (2.5 cm) female thread
5. To accept 1-inch (2.5 cm) female slip
6. To accept 1-inch (2.5 cm) female BSP thread without flow control;
7. To accept 1-inch (2.5 cm) male thread by 1-inch (2.5 cm) male barb;
8. To accept 1-inch (2.5 cm) male thread by male thread;
9. To accept 1-inch (2.5 cm) male BSP by 1-inch (2.5 cm) male thread;
10. To accept 1-inch (2.5 cm) male thread by 1-inch (2.5 cm) male thread without flow control;
11. To accept 1-inch (2.5 cm) male BSP by 1-inch (2.5 cm) male thread without flow control; and
12. To accept 1-inch (2.5 cm) male thread by barb without flow control.

The valve shall carry a seven-year trade, exchange warranty.

The valve shall be manufactured by K-Rain Manufacturing Corporation of Riviera Beach, Florida.