

## 700 Series (UltraFlow) Valve

### Bidding Specifications

Valve(s) shall be 700 Series (UltraFlow) 3/4", 1", 1 1/2" or 2" electric globe models as manufactured under the brand name of Irritrol Systems or approved equal.

**Construction:** Valve body and bonnet shall be constructed of glass-reinforced nylon, with stainless steel hardware and spring. Valve shall have a slow-closing design to prevent water hammer. Valve shall have manual operation with internal bleed. Valve shall have a self-flushing, 150-mesh stainless steel control-water filter. Valve shall have a straight-through flow path that results in low pressure loss. A solid brass flow control stem shall be standard. Except 3/4" model, valve shall have a nylon-reinforced double-beaded Buna-N diaphragm. Valve shall have a Buna-N valve seat seal. Body shall have molded brass inserts for positive bonnet attachment.

**Operation:** Valve shall have a working pressure range from 10 to 150 psi (0,7 to 10 Bars) and include screen and flow control. Valve shall have a flow range of 2 to 180 GPM (0,39 to 681 <sup>L</sup>/<sub>M</sub>) depending on valve size.

Pressure Regulation (OmniReg™ Modular Option): Outlet pressure regulating range shall be from 5 to 100 psi (0,3 to 6,9 Bars) or 5 to 30 psi (0,3 to 2,1 Bars) dependent on the regulator option. Valve shall have self-modulating type pressure regulator that maintains constant downstream pressure and be accurate to within ±3 psi (0,2 Bars) of pressure setting. Inlet pressure shall be 10 psi (0,7 Bars) greater than desired outlet pressure. Valve shall have an internal bleed for manual operation in pressure regulation mode. Valve shall be able to be installed in any position.