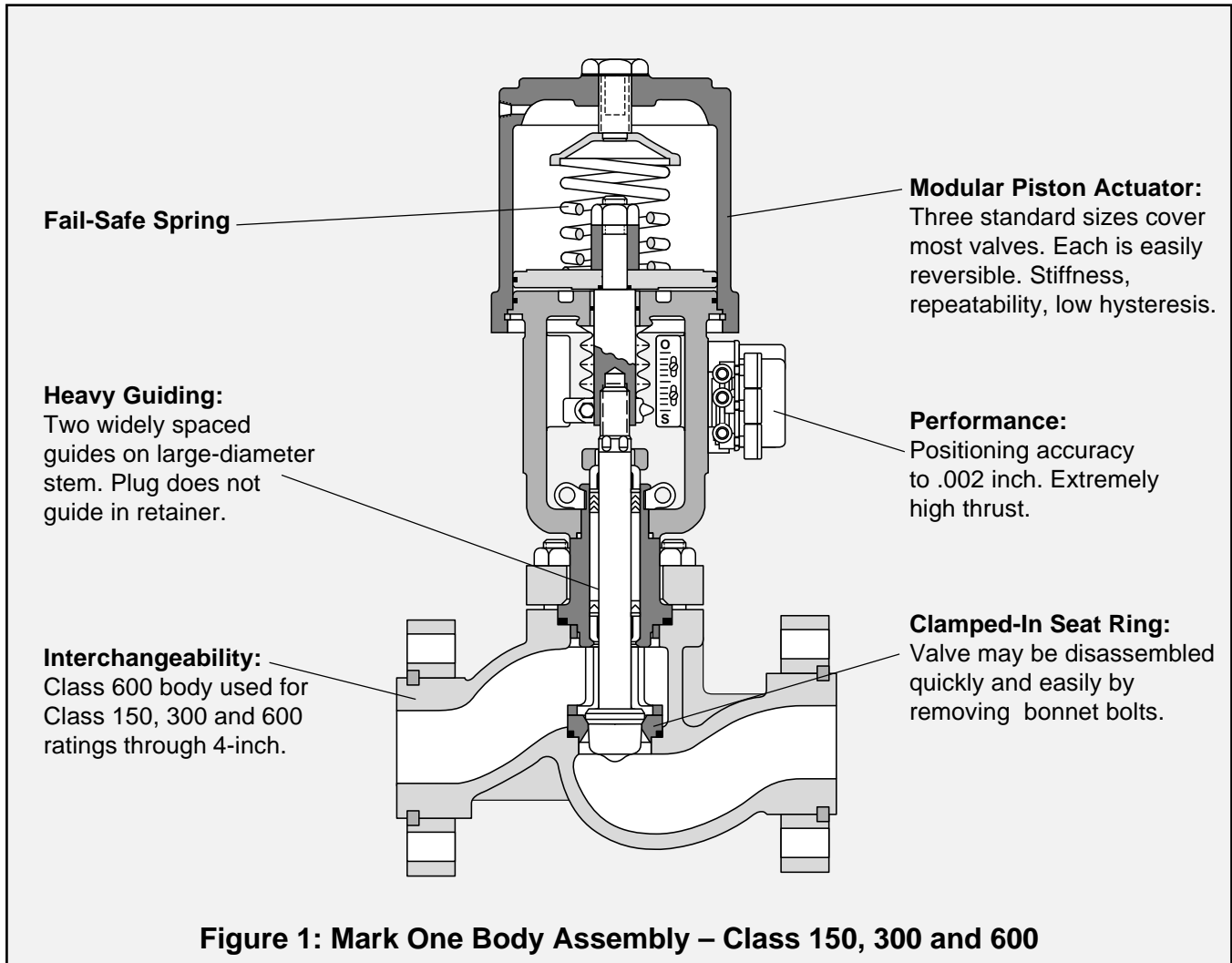




***Valtek Mark One
Control Valves***

Valtek Mark One Body Assembly



The Valtek® Mark One™ globe control valve offers superior performance in liquid and gaseous services, while also permitting easy, fast and inexpensive maintenance.

Unlike diaphragm-operated control valves, the spring-cylinder actuated Mark One provides stiffness and maintains high positioning accuracy, repeatability, controlled high speed and faithful response. The Mark One handles up to 150 psig / 10.3 Barg supply air and has the thrust to shut off against much higher fluid pressures.

Most diaphragm actuators rely entirely on springs to close the valve, but the Valtek Mark One is designed so the spring, supply air pressure and fluid pressure itself combine to produce exceptionally tight shutoff. A self-aligning seat ring further enhances the shutoff capability of the Mark One.

Many globe valve maintenance problems can be traced to cage-guiding. The close metal-to-metal contact between the cage and plug often result in galling and sticking. The Mark One, however, is double top-stem guided and completely avoids contact between the plug and seat retainer.

The clamped-in seat and top-entry trim permits easy, quick maintenance. Plus, with Mark One's high degree of parts interchangeability, fewer inventory parts are required. In addition, the actuator is lighter, smaller and easier to handle than comparable diaphragm actuators.

The Valtek Mark One is the industry choice for a simple, reliable, tough globe valve.

Valtek Mark One

Advantages and Features

Advantages	Features
Reliable, predictable service	Stiff, high-thrust cylinder actuator Accurate positioning High repeatability Faithful response Controlled, high-speed stroking action
Won't stick and shut down	Cage guiding eliminated Double stem guiding located out of flow stream Generous clearance between plug head and seat retainer
Easy, fast and inexpensive	Top-entry servicing Clamped-in seat ring Evenly compressed gasket – controlled gasket compression Separable flanges High degree of parts interchangeability Small, lightweight design
Leakproof when closed	High-thrust, spring-cylinder actuator Self-aligning seat ring Assisted shutoff from fluid pressure, cylinder spring, cylinder pressure Spring fails valve to desired position, pneumatics provide additional force
Built for toughest service	Corrosion-resistant construction High thrust overcomes high pressures Anti-cavitation and noise-trim options Heavy-duty plug stem Factory mutual approved as a fuel service valve ($\frac{3}{4}$ - 3-inch)
Compact and easy to install	Cylinder actuator is smaller than comparable diaphragm actuators Lower center of gravity than comparable diaphragm actuators Light weight means less pipe stress from static and dynamic loads Separable end flanges allow the valve to be installed in many orientations and compensate for flange misalignment
Design provides lower total lifetime cost	High interchangeability between sizes and other Valtek control products Valve design minimizes requirements for stocking spare parts Rugged, heavy-duty parts provide extended life Actuator design allows simple, easy maintenance