



Versatility of the Mark 8000 Helps Win Orders

Our pilot plant customer was looking for six control valves on three unique, critical service applications; Silicon Tetraiodide vapor, liquid Silicon Tetraiodide, and Iodine gas. Each of these corrosive applications is demanding, with some of the valves seeing maximum operating temperatures as high as 932°F (500°C).

The customer was considering both V-port ball valves and globe style control valves. The pilot plant operators eventually chose LowFlow Mark 8000 globe style control valves due to better flow control, especially on the low end, and our ability to offer linear or equal percentage trim characteristics with a wide variety of Cv offerings. The V-port ball valves only offered 3 Cv choices per valve size. They also liked the fact that we had more sophisticated sizing software.

We provided a total of six Mark 8000 control valves, two 3/4" and four 1-1/2", with ANSI Class 300 flanges and Inconel 625 bodies and trim. The valves also had high temperature packing and an Inconel 625 extended bonnet due to the high temperature requirement. Each valve was equipped with a Mark 16IQ Smart positioner with Hart protocol.

One more thing the customer liked - we were able to ship the order in six weeks!



Mark 8000 in Inconel 625 with ANSI 300 Flanges, extended bonnet and Mark 16IQ Smart Positioner

The Mark 8000 provides incredible flexibility in a control valve often used in critical applications, where service or environmental conditions may be too harsh for traditional lighter-duty fractional flow valves. The barstock construction allows us to provide materials appropriate for most applications while meeting aggressive delivery requirements.

Available in a wide selection of body sizes and styles, this valve can be configured in 2-way or 3-way designs, for diverting or mixing service, and with globe or angle valve style seats.

The Mark 8000 can be outfitted with a bellows stem seal in the bonnet to help eliminate fugitive emissions, a cryogenic bonnet extension for cryogenic applications down to -425°F, or an electric motor actuator.



Mark 8000
with Explosion – Proof
Positioner

It has a totally enclosed multispring actuator, which minimizes deadband and is field reversible without the use of special tools or extra parts. LowFlow Valve can also install a wide variety of positioners and actuators on the Mark 8000, to provide a valve that meets your customer's specific needs.

Again, the most unique feature of the Mark 8000 valve is the body design. The body and trim are manufactured completely out of barstock which, when combined with the standard heavy-duty yoke and actuator, gives the valve the ability to handle pressures up to 6000 psi, while still being able to offer Cv's ranging from 0.05-17. The barstock body design also allows great flexibility when specialty materials are required.

While the standard body materials are Stainless Steel and Carbon Steel, the Series 8000 can be manufactured in almost any exotic alloy including Alloy 20, Hastelloy, Inconel, and Monel. This makes the Mark 8000 ideal for corrosive or harsh process conditions.