

Skotch® Trifecta Gas Valve Systems

Revision 1

A safer, more reliable engineered system for automated burner shutoff of gas service in your plant.

When you are burning flammable or fuel gases, you need an automated shutoff system you can count on for safe, reliable performance – every time. No leaks. No out-of-sequence operation.

And that's where Engineered Valves Group can help. Skotch® valves are unique gas burner shutoff valve systems designed and manufactured with innovative technology.

The Skotch Trifecta T4000F valve systems offer a superior alternative to conventional multiple-valve packages. The Skotch Trifecta is a complete valve

system contained within a single housing. Fail-closed models, which include appropriate accessories, are Factory Mutual (FM) approved as automatic gas safety shutoff valves. Ruggedly constructed, the Trifecta system provides all the blocking and venting functions needed for safe automated gas burner operation.

Engineered Valves Group offers T4000 series valve systems in a broad range of sizes to meet the needs of any capacity gas burner or igniter. When necessary, valves can be specially configured to address specific requirements for piping design and support, and hazardous location classifications.



Shown are eight T4300F (3 inch) Skotch Trifecta gas valve systems replacing the need for twenty-four independently actuated valves. Considerable installation time and space are reduced.

A Look at the Problem

Strings of separate valves or multiple valve manifolds are frequently used to provide automated burner shutoff in fuel gas applications. Such arrangements often consist of a vent valve and two block valves, with each valve being driven by a separate actuator.

Failure of all actuators to operate in sequence is a concern. Sometimes a single operator is mechanically linked to drive both block valves in tandem. In such a configuration, obstruction or linkage problems that affect one valve will prevent the other from closing, so the advantage of using a double block is lost.

In many systems, vent valves are direct solenoid operated, with no provision for ensuring positive closure. The result can be continuous leakage into vent piping when the block valves are open.

Installation of the conventional three-valve system can require as many as nine different connections. The Scotch® Trifecta system requires only three simple connections; inlet, outlet, and vent. In addition, the Trifecta automatically gives you the correct vent size based on the recommendations of NFPA and IRI.

Engineered Valves Group created the T4000 series as a fully integrated system engineered for gas burner shutoff applications. The result is elimination of performance problems and a device that offers continuous, reliable, trouble-free service in your most critical applications.



T4600F (6 inch) Scotch Trifecta gas valves are installed above the burner level in the horizontal position which reduces burner front clutter.