Y-PATTERN VS. T-PATTERN VS. ANGLE PATTERN GLOBE VALVES

Y-Pattern

The Y-pattern design is our best-selling globe valve. It is named for the Y shape of the body forging. The main advantage of the Y globe valve is that its flow rate (Cv) is greater than the traditional T globe valve.
The Y configuration may also facilitate installation in tight envelopes and allow the use of a smaller valve, thereby saving money for the customer.

T-Pattern

The T-pattern is likely the oldest globe valve design since it was developed by the ancient Phoenicians. It is named for the valve's 90° stem versus pipeline orientation (i.e., the stem is at a right angle to the pipeline).
The advantage of having the stem at 90° to the valve is that the seismic properties (i.e., the ability to withstand a seismic event) are enhanced. A T-pattern globe valve is also better at supporting an actuator atop the yoke since all the weight and stresses do not cause bending moments on the yoke arms and bonnet threads.

Angle Pattern

The Angle pattern design incorporates a 90-degree turn in the flow path. It can be highly advantageous in a piping system design since it eliminates the need for an elbow in the pipe run, which reduces the number of parts and welds required. Additionally, some Angle pattern valves have a higher Cvthan comparable Y-pattern globes. This style of globe valve is typically used in throttling and blowdown applications.

To learn more about our valve offerings and how they can benefit your operations, contact us today.

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