

Can a main control valve be used as a secondary control valve if the main control valve is not fully open



Overview

The main valve is considered a backup valve or fail-safe valve. The image below shows the main valve connected to zone 12 on a. This tutorial briefly discusses the differences between electric and pneumatic actuators, the relationship between direct acting and reverse acting terminology, and how this affects a valve's controlling influence. The importance of positioners is discussed with regard to what they do and why they. Control valves are the unseen workhorses of industrial systems, ensuring seamless flow regulation and safeguarding the efficiency of operations. From directing liquid flow to managing pressure, their role is indispensable. If there is a fire in Zone B (the secondary zone), Zone A and B's flow switches would activate. Control valves are part of a control loop that controls a process.

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Control valves need actuators to operate. This tutorial briefly discusses the differences between electric and pneumatic actuators, the relationship between direct acting and reverse acting terminology, and ...



Control Valve Types and Applications
Common Control Valve Issues
Control Valve Troubleshooting
Like all process components, control valves are also subject to problems. These problems affect the process. Some common issues with the control valve include size miss-matching, leakage, and improper calibration. See more on control valve issues.
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The main valve is considered a backup valve or fail-safe valve. The purpose of the main valve is to stop the water supply to the irrigation system when any zone valve is not operating.



Yep, we do this quite often. As long as both control valves are supervised and accounted for in the calculations (if relevant to the calcs), it shouldn't be a problem.



A bypass valve allows the process fluid to continue flowing through a secondary line while the main control valve is isolated for maintenance or repair.
...



Typically, automatic control valves are opened or closed by electrical, hydraulic, or pneumatic actuators. When a modulating valve can be set anywhere between fully closed and fully ...



The valves must be staged (i.e., one valve goes from closed to open before the other valve opens). This document describes the more common split-range strategies and how to implement them in a ...



Control valves are often not properly maintained, which means they can't work at the desired performance level. This may contribute to their importance being ignored. In this article, we'll ...



A bypass valve allows the process fluid to continue flowing through a secondary line while the main control valve is isolated for maintenance or repair. This prevents a total plant shutdown ...



This type of valve is commonly used as a fully open or fully closed valve, but it may be used as a throttling valve. However, since the seating surface is a relatively large area, it is not suitable for a ...



An undersized valve's rated flow is below the process requirement. When this occurs, a control valve cannot supply the required flow, even if it is entirely opened. Also, when a control valve ...



Fail-Safe: A characteristic of a valve and its actuator, which upon loss of actuating energy supply, will cause a valve closure member to be fully closed, fully open, or remain in the last position, whichever ...

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