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Control Valve Installation Guidelines

Control valves are an increasingly vital component of modern manufacturing around the world. Properly selected and maintained control valves increase efficiency, safety, profitability, and ecology. The Control Valve Handbook has been a primary reference since its first printing in 1965.

CONTROL VALVE HANDBOOK - Emerson Electric

8. All styles of flow control valves are

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marked to show the direction of flow. **WARNING:** The flow arrow must point in the direction of flow for proper operation. 9. Do not install valves at pump discharge. Minimum of 8 pipe diameters or 8 feet, whichever is longer, is required before the valve. 10.

INSTALLATION & OPERATION INSTRUCTIONS FLOW CONTROL

While we don't have the room here to detail specific installation guidelines, here are some best practices: Always inspect your valve to make sure no damage occurred during shipping. Clean both the valve and the pipeline. Install the valve in the appropriate orientation. Many control valves can be ...

A Guide to Control Valve Selection, Maintenance, and ...

Before installation, ensure that scales, welding chips or any other foreign materials have been cleaned out of the process pipe to which the control valve is to be connected. While installing the

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control valve ensure the process fluid flow direction matches with the flow direction indicated on the connecting flanges of the valve body.

Installation and Maintenance of Control Valves ...

Understanding proper installation and application of the steam control valve is essential to experiencing maximum value and life cycle from the valve. Steam control valves not only control the pressure, but also the temperature in process applications. The steam control valve can be used simply as an on and off device, or any combination of ...

Best Practices for Steam Control Valve Installation

FLOW FLOW Valve Location: Butterfly valves should be installed if possible a minimum of 6 pipe diameters from other line elements, i.e., elbows, pumps etc. Where the butterfly valve is connected to a check valve or pump, use an

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expansion joint between them to ensure the disc does not interfere with the adjacent equipment.

Butterfly Valves Installation Guideline and Recommendation

Install the control valve, preferably in a straight run of pipe, away from bends or sections of abnormal velocity. 4 Control valves can be installed in any orientation. However the preferred installation is in horizontal pipeline with the actuator in a vertical position.

CV1500 - Control Valves Installation and Operation Manual

This kind of analysis is feasible for a control valve simulation program. The rule of thumb for permissible limits for the installed gain is that a change in gain larger than 2 (equation (13)), or a relative gain smaller than 0.5 (equation (14)) should be avoided in the process operating range.

FLOW CONTROL MANUAL - Metso

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Control valve bypass piping shall provide sufficient clearance for the removal of the control valve from the loop. All control valves shall be provided with block valves and bypass valves rated for the same design pressure as the upstream piping. Bypass valves shall be designed for a capacity at least equal to the capacity of the control valve.

Control Station Piping Layout » The Piping Engineering World

- Provide a cover or protective fence around valve installation when a valve is installed facing a path or if physical contact with valve is expected.
- Do not install a valve where it may be submerged water, or snow or where freezing may take place.
- Provide a wall for protection against heat radiation.

Control Valves - Azbil

Use a suitable gasket between the valve and the pipeline flanges. 4. If continuous operation is required during inspection or maintenance, install isolating valves

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on either side of the control valve with a bypass valve to control the flow while the control valve is receiving maintenance.

Fisher GX Control Valve and Actuator System

If you are wiring a 5-zone system, purchase a combination of wires with at least 6 total wires long enough to reach from your controller to the farthest valve. 3. controller. You will need one wire for each valve, plus one Installing wire: Lay the wire in the trench from the controller to the valve manifolds.

RESIDENTIAL SPRINKLER SYSTEM - Hunter Industries

GLOBE ALARM CHECK VALVE
INSTALLATION AND MAINTENANCE
GUIDE IMPORTANT NOTES 1. Any alarm check valve should be carefully tested, examined, and cleaned periodically in accordance with NFPA 25. 2. It is most important to ensure a clean water supply free of debris and solid particles

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such as sand, gravel, or mud. 3.

3, 4, 6 & 8 Model H Series Alarm Check Valve Installation ...

The FQB2 is a compressed gas flow control assembly. The assembly consists of an FQB2-Series proportional control valve, a PSR volume booster and an F-Series high speed flow monitor. The FQB2 control valve consists of two normally closed solenoid valves, a control circuit board and a protective canister.

Flow Control Installation Guide - Proportion-Air

By-pass valves and warm up valves should be used in control valve installation. In an application of pressure reduction, the warm up valve is used to warm the steam line, within recommended time frames, before the control valve is placed into operation. A steam control valve should not be used for warm up of a steam distribution line.

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Best Practices for Steam Control Valve Installation

Engineering Guide Installation Recommendations for FCI Single-Point, ... Recommendation for Flow Controlling Valves Upstream or Downstream Pipe Size Upstream Downstream < 6 inches [150 mm] 20 x Pipe ID 10 x Pipe ID ... flow and process control experts to eliminate the flow swirl and profile

Best Practices Engineering Guide

Flow Meter Installation Guidelines Perhaps the most common way in which the flow measurement accuracy of any flow meter becomes compromised is incorrect installation , and pressure-based flow meters are no exception to this rule.

Flow Meter Installation Guidelines - Instrumentation Tools

Mount PRVs in a vertical position, which means upright and with the spindle vertical. A valve installed in any position other than vertical might not perform

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correctly. For flanged valves, be sure to draw the bolts down evenly. This is especially crucial for cast iron valves.

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