



## Standard information

This manual provides essential information to ensure the safe and proper use of solenoid spool diverter valves. It is intended for operators, technicians, and engineers responsible for installation and maintenance.

## General Safety Precautions

- **Authorized Personnel Only:** Ensure only trained and qualified personnel install, operate, or maintain the valve.
- **System Isolation:** Always isolate the valve from the system and relieve pressure before any maintenance or inspection.
- **Power Disconnection:** Disconnect the electrical power supply before performing repairs or adjustments to avoid electric shock or unintentional actuation.

## Pre-Installation Safety

- **Inspect for Damage:** Check the valve for any visible damage or defects prior to installation.
- **Compatibility Check:** Verify that the valve specifications match the system requirements (pressure, temperature, fluid type, etc.).
- **Cleanliness:** Ensure the pipeline and valve are free from debris and contaminants before installation.
- **Proper Tools:** Use appropriate tools to avoid overtightening or damaging the valve or fittings.



## Operational Safety

- **Pressure Limits:** Operate within the manufacturer-specified pressure and temperature range to prevent equipment failure.
- **Avoid Rapid Cycling:** Excessive actuation can overheat the solenoid or cause mechanical wear.
- **Emergency Shutdown:** Depressurize the system immediately in case of malfunction. Use designated emergency controls as per system design.

## Maintenance Safety

- **Depressurize System:** Ensure the system is completely depressurized and drained before beginning maintenance.
- **Use PPE:** Wear appropriate personal protective equipment, including safety goggles, gloves, and steel-toed boots.
- **Check Components:** Inspect o-rings, seals, and electrical connections regularly for wear or damage.
- **Original Parts:** Replace components only with manufacturer-approved parts to maintain safety and performance.

## Electrical Safety

- **Proper Voltage:** Verify that the voltage supplied matches the solenoid's rated voltage.
- **Grounding:** Ensure proper grounding to prevent electrical hazards.
- **Wiring Integrity:** Regularly inspect wires for insulation damage, corrosion, or loose connections.



## Environmental Safety

- **Fluid Compatibility:** Confirm the valve is compatible with the fluid being used (e.g., oil, air, water) to avoid corrosion or failure.
- **Temperature Extremes:** Protect the valve from operating in environments exceeding its temperature range.
- **Protect Against Contaminants:** Install filters or strainers upstream to prevent contaminants from entering the valve.

## Emergency Situations

- **Valve Failure:** If the valve malfunctions shut down the system immediately and isolate the valve for inspection and repair.
- **Leakage:** Contain any fluid leakage promptly and identify and replace damaged seals or components.

## Disposal

- **Safe Removal:** Depressurize and disconnect the valve carefully to prevent residual pressure release.
- **Dispose Responsibly:** Follow local regulations for disposing of hydraulic components and electrical parts.
- **Recycle:** Recycle metal components whenever possible.

By adhering to these safety instructions, operators and maintenance personnel can minimize risks and ensure the safe and efficient use of solenoid spool diverter valves. Always refer to the technical PDF guidelines for specific details.