



ANDERSON GREENWOOD SAFETY SELECTOR VALVES (SPOOL STYLE)

INSTALLATION AND OPERATIONAL SAFETY INSTRUCTIONS

Before installation these instructions must be fully read and understood

GENERAL

The intent of these instructions is to acquaint the user with the storage, installation and operation of this product.

This Safety Selector Valve (SSV) should only be used in accordance with the applicable operating instructions and within the application specifications of the purchase order.

STORAGE AND HANDLING

Because cleanliness is essential to the satisfactory operation and tightness of an SSV, precautions should be taken during storage to keep out all foreign materials. Inlet and outlet protectors should remain in place until the valve is ready to be installed in the system. It is recommended that the valve be stored indoors in the original shipping container away from dirt and other forms of contamination.

The SSV should be handled with care and not subjected to heavy shocks.

INSTALLATION

Many valves are damaged when first placed in service because of failure to clean the connection properly when installed. Before installation, all flange faces or threaded connections on both the SSV and the connecting components (vessel, pipe or pressure relief valve) must be thoroughly cleaned of all dirt and foreign material.

Because foreign materials that pass into and through the SSV can damage the seat, the systems on which the valves are tested and finally installed must also be inspected and cleaned. New systems in particular are prone to contain foreign objects that inadvertently get trapped during construction and will destroy the seating surface when the valve flows. The system should be thoroughly cleaned before the SSV is installed.

The gaskets used must be dimensionally correct for the specific flanges. The inside diameters must fully clear the valve inlet and outlet openings so that the gasket does not restrict flow.

For flanged valves, draw down all connection studs or bolts evenly to avoid possible distortion of the valve body.

The SSV's are shipped from the factory with one side completely "isolated" and one side "active". The position indicator points to the "active" side. Check that the "active" side is correct for the initial installation and start-up operation. See OPERATION below for instructions to change.

The SSV is designed to minimize inlet pressure loss to a pressure relief valve. To assure this is accomplished follow these guidelines:

1. Connect the SSV as direct and close as possible to the vessel being protected.
2. The SSV should be mounted vertically in an upright position either directly on a nozzle from the pressure vessel or on a short connection fitting that provides a direct, unobstructed flow between the vessel and the valve.
3. The SSV should never be installed on a fitting having a smaller inside diameter than the inlet connection of the SSV.

The discharge piping should be carried by a separate support and be properly braced to withstand reactive thrust forces when the pressure relief valve relieves. The SSV should also be supported to withstand any swaying or system vibrations.

WARNING

Attempts to adjust and/or repair this product by unauthorized or unqualified persons void the product warranty and may cause damage to equipment and serious injury or death to persons.

This product is a safety related component intended for use in critical applications. The improper application, installation or maintenance of the valve or the use of parts or components not manufactured by Emerson may result in a failure of the valve.

Any installation, maintenance, adjustment, repair or test, performed on the safety selector valve must be done in accordance with the requirements of all applicable Emerson Procedures and Instructions as well as applicable National and International Codes and Standards.

The information, specifications and technical data (the "Specifications") contained in this document are subject to change without notice. Emerson does not warrant that the Specifications are current and assumes no responsibility for the use or misuse thereof. The Purchaser should verify that there have been no changes to the Specifications prior to use.

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FIGURE 1

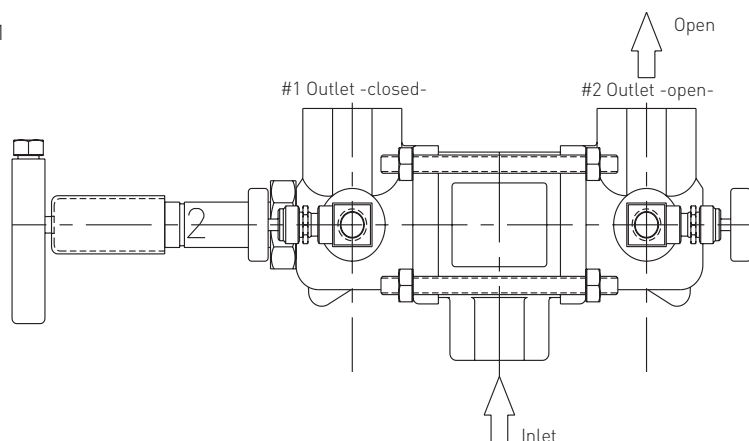
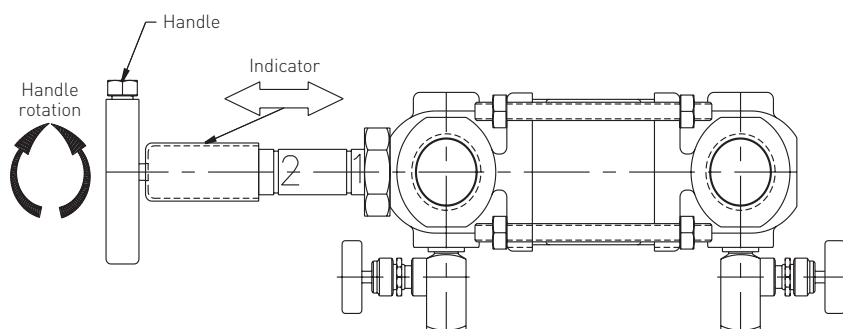


FIGURE 2



OPERATION

The Spool SSV is a device for diverting the process flow from one pressure relief valve to another during static conditions. Do not attempt to change over during a pressure relief event.

Refer to Figures 1 and 2 and follow these steps:

1. Make sure both bleed ports are closed.
2. To change Outlet flowing port from outlet port #1 to outlet port #2, rotate handle Clockwise (Inward) to stop.
3. To change Outlet flowing port from outlet port #2 to outlet port #1, rotate handle Counter Clockwise (Outward) to stop.
4. Open bleed port on neck opposite flowing side to vent isolated side.

Indicator numbers are provided for indication of flowing side; numbers are located on the cast boss of each neck.

SAFETY PRECAUTIONS

- Never attempt to operate the SSV Spool during a pressure-relieving event.
- The outlet should be piped or vented to a safe location.
- Always wear proper safety gear to protect head, eyes, ears, etc. anytime you are near pressurized valves.
- Never attempt to remove the SSV Spool from a system that is pressurized.
- Maintenance should be performed on a regular basis. The interval between inspection and maintenance will depend on service conditions and frequency of operation. Inspections are recommended on an annual basis.
- For further information including adjustment, maintenance, cleaning lapping and detail illustrations, obtain the following Operation and Maintenance Manual 05.9040.142. The manual may be requested from the factory or are available at Emerson.com/FinalControl.

- Service Technicians are available to assist with your installation or other field problems. Call your nearest Emerson representative.

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