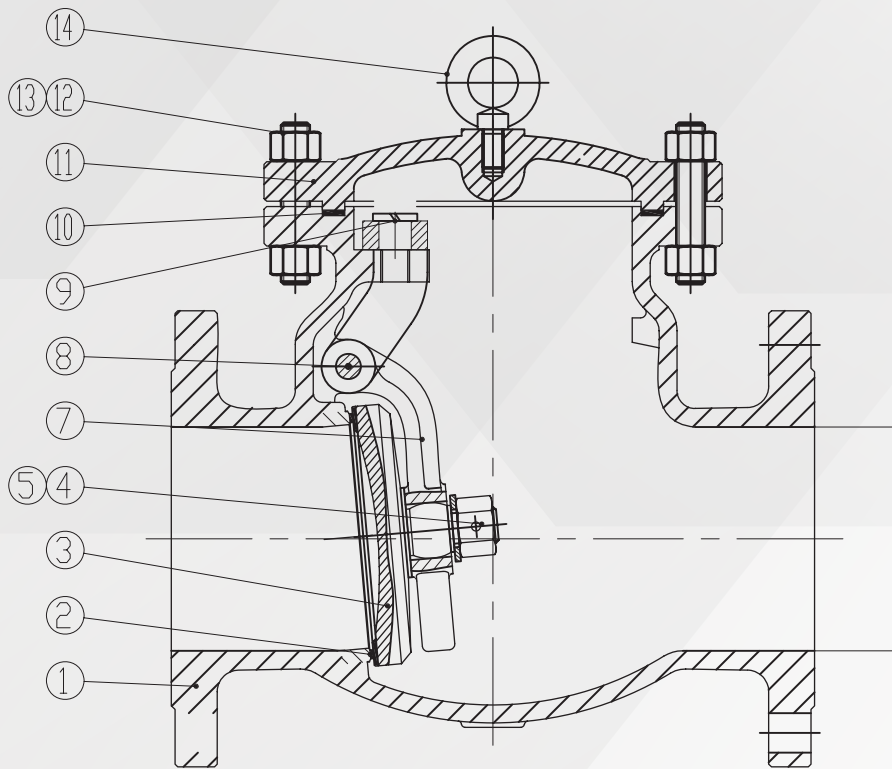




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## Installation, Operation, and Maintenance (IOM) Manual For Flanged Swing Check Valves



14	EYE SCREW
13	NUT
12	STUD
11	BONNET
10	GASKET
9	BOLT
8	HINGE PIN
7	HINGE
6	GASKET
5	NUT
4	PIN
3	DISC
2	SEAT RING
1	BODY

Refer to the diagram and parts list above for a detailed view of each component, assisting with installation, operation, and maintenance for optimal valve performance.



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**Note:** This document is a general guideline for the installation, operation, and maintenance of flanged swing check valves, intended to assist trained personnel in following recommended procedures. It is not an exhaustive set of instructions. Carefully read the manual for safe and efficient use. We are not liable for damages arising from its use. Consult a professional if you have specific concerns related to your application or environment. For additional assistance, contact your supplier or representative.

## PRODUCT OVERVIEW

- Flanged swing check valves are designed to allow fluid flow in one direction and prevent backflow in the opposite direction. The valve opens automatically when sufficient forward pressure is applied and closes to prevent backflow when the pressure drops.
  - These valves help reduce system surges and water hammer. Ensure that system operating conditions, including pressure, temperature, and flow rate, are within the valve's design parameters.
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## UNPACKING AND INSPECTION

- **Inspection Upon Receipt**
  - Inspect the shipping container for external damage. Report any damage to the carrier.
  - Open the container carefully and inspect the valve for any physical damage.
- **Storage Instructions**
  - If immediate installation is not required, store the valve indoors in a clean, dry location.
  - Use the original packaging for storage and ensure the valve is free from moisture and contaminants.
  - For long-term storage, consider using a desiccant depending on the environment.
- **Preparation Before Installation**
  - Remove any protective coatings or packaging materials from the valve.
  - Inspect the valve for foreign debris inside the body or seat.



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## INSTALLATION

### • Pre-Installation Checklist

- Confirm that the operating pressure, temperature, and material compatibility match system requirements.
- Ensure the pipeline is clean and free of debris. Install a strainer upstream if needed.
- Check the sealing surfaces for damage or contaminants.

### • Installation Procedure

#### ▪ Orientation

- Confirm the flow arrow on the valve body aligns with the system's flow direction.
- The valve can typically be installed in horizontal or vertical (upward flow) orientations.

#### ▪ Lifting and Positioning

- Use proper lifting equipment to handle heavy valves. Avoid lifting the valve by external components.

#### ▪ Flange Connection

- Install a gasket between the valve and mating flanges.
- Hand-tighten flange bolts and then torque them evenly in a crisscross pattern to ensure a proper seal.

## OPERATION

### • Start-Up Procedure

- Gradually pressurize the system to avoid sudden shock to the valve and connected components.
- Monitor the valve for any signs of leakage or improper operation.



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## MAINTENANCE

### • Routine Maintenance

- Flanged swing check valves are designed for minimal maintenance. Periodic inspection and cleaning are recommended to ensure optimal performance.
  - Inspection Steps:
    - Visually inspect the valve for external wear or leaks.
    - Check the internal components for debris or wear.

### • Cleaning

- Remove any accumulated debris from the valve body and seat surfaces.

### • Valve Removal

- Depressurize the system completely before loosening the valve.
- Isolate the valve by shutting off upstream and downstream flow.
- Loosen and remove the flange bolts in the reverse sequence of tightening.
- Carefully remove the valve from the pipeline.

