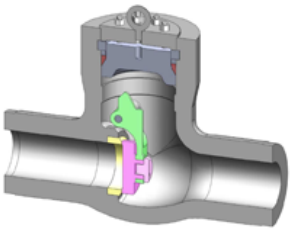
Check Valve

Check valves are self-acting valves. They maintain the flow of fluid in only one direction and prevent backflow with a disc that presses against the opening in the event of reverse flow.

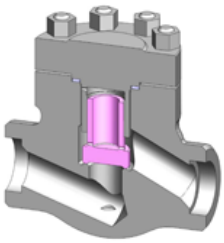


Swing Check Valve

Specifications

We typically call for less than 50 A diameter, that we confirmed by the corresponding valve forged steel lift check valve casing.

Name	Swing Check Valve
Body Material	ASTM, ASME, JIS, Cast Steel / Forged Steel Carbon Steel, 1Cr0.5Mo Steel, 2.5Cr1Mo Steel, Stainless Steel, 9Cr1Mo-V Steel, etc.
Fluid	Water, Steam, Gas, Oil etc.
Pressure Class, Size(Standardized)	Class 150 - 2500: 65 mm - 60 mm Class 3500: 65 - 400 mm Class 4500: 65 - 300 mm For 50 mm and smaller size, lift check type is adopted as our standard.
Connection Form	Socket weld, butt weld, flanged*



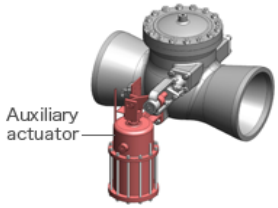
Lift Check Valve

Name	Lift Check Valve
Body Material	ASTM, ASME, JIS, Cast Steel / Forged Steel Carbon Steel, 1Cr0.5Mo Steel, 2.5Cr1Mo Steel, Stainless Steel, 9Cr1Mo-V Steel, etc.
Fluid	Water, Steam, Gas, Oil etc.
Pressure Class, Size(Standardized)	Class 150 - 2500：- 400 mm Class 3500 - 4500：- 150 mm
Connection Form	Socket weld, butt weld, flanged*

*For valves with flanged connection, indicate the surface shape (raised face, flat face, etc.) for each flange standard (ASME, JIS, etc.)
• The above specifications are for standard products. Please inquire for other specifications..

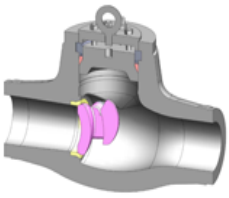
**We manufacture various swing check valves in addition to the standard type to meet different specifications.
Tilting disc check valves, which have a more specialized configuration than normal swing check valves, and valves with an auxiliary actuator are some examples.**

Swing check valve with actuator



This is a type of swing check valve that comes equipped with an auxiliary actuator to enable external valve operation for various applications.
The extraction check valve shown on the left is one example. This valve adds driving force in the direction of valve closure when air is bled from the cylinder on a turbine trip.

Tilting disc check valve



The tilting disc check valve is designed to shorten valve closure time compared to the normal swing check valve, thereby minimizing the increase in water hammer pressure when the valve is closed.
Although the two types of valves adapt the same hinge mechanism, the tilting disc check valve is structurally different from the normal swing check valve in that its axis of rotation is immersed in the flow of fluid and that it has conical seating surfaces, among other differences.