

Check Valves Manufacturer Canada



Valvesonly is the best [Check Valves Manufacturer Canada](#). A check valve, also known as a non-return valve or one-way valve, is a mechanical device designed to allow fluid or gas to flow in one direction only, preventing backflow or reverse flow. Its structure typically consists of a body or housing, a movable element (such as a disc or a ball), and a seat. The body contains an inlet and an outlet, with the movable element positioned between them. When the fluid or gas flows in the desired direction, the pressure of the incoming flow pushes the movable element away from the seat, allowing unimpeded passage. However, when the flow attempts to reverse direction, the movable element is forced back against the seat by the pressure of the fluid or gas, effectively blocking the passage and preventing backflow.

The working principle of a check valve is relatively simple yet highly effective. As fluid or gas enters the valve, it exerts pressure on the movable element, causing it to move away from the seat and allowing the flow to proceed. However, if there is an attempt at reverse flow, the pressure of the fluid or gas on the opposite side of the movable element pushes it back against the seat, creating a seal and preventing any further passage. This mechanism ensures that the flow remains unidirectional, making check valves essential components in a wide range of systems and applications where backflow prevention is critical, such as in plumbing systems, industrial processes, and pumping systems.

Parts:

- Body or Housing
- Seat
- Movable Element
- Spring (optional)
- Hinge (if applicable)
- Internal Components

Types:

- Piston Check Valve
- Swing Check Valve
- Non Slam Swing Check Valve
- Pressure Seal Check Valve
- Tilting Disc Check Valve
- Single Plate Check Valve
- Dual Plate Check Valve
- Ball Check Valve
- Lift Check Valve
- Foot Check Valve

We manufacture [Check Valves](#) for these industries:

- Oil and Gas
- Petrochemical
- Chemical Processing
- Water Treatment and Distribution
- Power Generation (including nuclear, thermal, and renewable energy)
- Pulp and Paper
- Marine and Offshore
- Aerospace
- Automotive
- Mining
- Manufacturing (general industrial applications)

Benefits:

- Prevention of Backflow
- Reduced Maintenance
- Improved System Efficiency
- Versatility
- Simple Design and Installation
- Cost-Effective Solution

- Provides Safety to systems

Description:

- Body Material- Cast Iron and Cast Steel (LF2, A216, WCB, WCC, LCB, LCC, WC6, WC9), Ductile Iron, Stainless Steel [SS316, SS304, SS316L, SS904L, CF8, CF8M, F304, F316, F31L, F91], Duplex and Super duplex steel [F51, F53, F55] Forged Steel A105, A105N, F11, F22, F304, F316, F91] Alloy20, Hastelloy, ALBR.
- Size- ½" – 80"
- Class-150 – 2500; PN10 – PN-450
- Ends-threaded, socket weld, butt weld, flanged, lug, wafer

Our Website: <https://valvesonly.com/product-category/pressure-seal-swing-check-valve/>