

CHF Silent Check Valves

Advanced Noiseless Flow Control for Demanding Applications

Engineered for Silent, Reliable Performance

[CHF Silent Check Valves](#) are designed to provide **efficient, silent non-return flow control**—eliminating the common issues of **water hammer** and metallic clanking noise found in conventional check valves.

Whether for industrial, commercial, or mechanical systems, CHF valves deliver **quiet, consistent performance** across a wide range of pressures and flow conditions.

Key Performance Features

Exceptional Flow Characteristics

- **Unrestricted flow:** Unlike traditional check valves that rely on fluid force to open, CHF valves use a **self-actuating gate** mechanism.
- **Low pressure drop:** Delivers superior flow performance even in compact installations.
- **Improved system efficiency:** Maintains optimal flow with **minimal energy loss**.

V-Ring Sealing System for Precision Control

- **Self-aligning gate/plug:** Automatically locates to the ideal sealing position regardless of flow direction or pressure variation.
- **Reliable sealing:** Advanced **V-Ring technology** ensures tight shut-off in both **high and low pressure** applications.
- **No sticking or binding:** Maintains smooth operation over time.

Built to Withstand Tough Operating Conditions

Robust Mechanical Design

- **Heavy-duty concave gate:** Offers maximum strength and durability for long service life.
- **Non-wearing plug seal seat:** Engineered to resist **pressure-induced wear and extrusion**, even in high-cycle environments.
- **Industrial-grade materials:** Constructed from corrosion- and wear-resistant components for dependable operation.

Applications

CHF Silent Check Valves are ideal for:

- Pump discharge lines
- HVAC systems
- Potable and non-potable water systems
- Industrial fluid handling
- Commercial plumbing installations

Technical Summary

Feature	Specification
Valve Type	Silent Non-Return (Check) Valve
Sealing Mechanism	V-Ring Seal with Hanging Plug
Flow Characteristics	High Flow Capacity, Low Pressure Drop
Construction	Heavy-Duty Concave Gate Design
Applications	Water, HVAC, Industrial Fluids
Noise Control	Water Hammer & Clanking Noise Eliminated

