

Axial Flow Check Valve

MT GROUP

Axial Flow Check Valve



Product Standard:

API 6D

Application:

- The Axial Flow Non-Slam Check Valve provides quick reaction on flow velocity change. It is the preferred solution in the critical application such as fast reversing reciprocating compressors and systems with low pressure drop and stable dynamic response.
- Sizing and tailoring individual valve based on application's process parameters.
- Widely used in Oil & Gas, Refinery, Chemical, LNG, Power and Water industry for gases, liquids, steam and corrosive services.

Valve Production:

- Own foundry for quality casting supply.
- High-precision machining and grinding to ensure the valve performance.
- Complete in-house examination and testing.

Complete Research and Development Test Lab

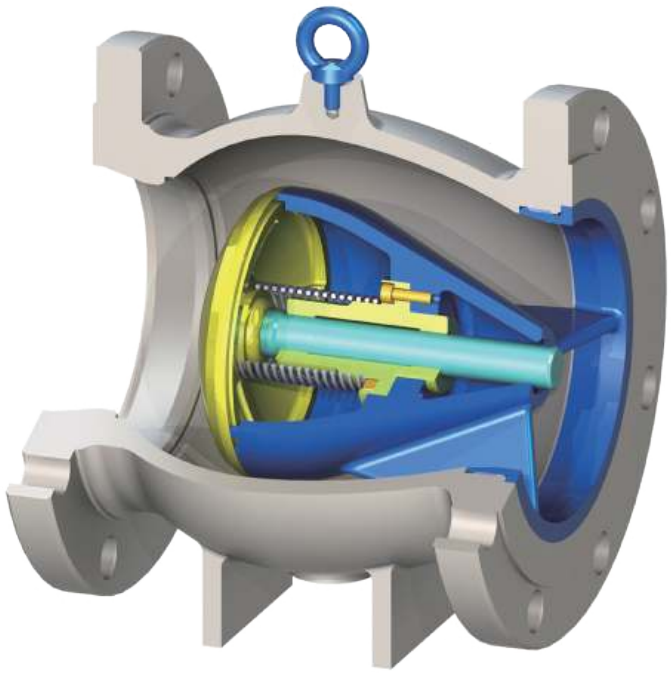






The company has a full set of cryogenic valve test equipment, including full-size liquid nitrogen pool, valve seat leakage flowmeter, torque and test machine, helium detector, to provide capability and product research and development and production test.

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Short Pattern Design

The shot pattern design provides 30%-70% weight reduction but better flow characteristic compared to long pattern.

Low Pressure Drop

The axial design results in a streamlined flow path around the trim and diffuser providing high pressure recovery, and minimizing pressure drop across the valve.

Non-Slam Performance

The spring-loaded disc reacts smoothly and quickly to ensure no backflow and pressure surges when pump turned off.

Venturi Effect

The shape of valve body, seat and disc invokes the Venturi effct where the smooth reduction in cross-section area along the length of the path causes velocity increasing of the medium flow. The large velocity in the seat area leads to a high dynamic opening force on the disc, and creates a low pressure in the throat area behind the disc which compensates for the engineered spring. The design of spring is important based on applications to allow the valve to be open at low cracking pressure and to be fully open at low flows.

Flow Simulation

The streamlined flow path through body is designed to reduce turbulence and prevent erosion and vibration. Use Flow Simulation software to optimize valve flow characteristic in static and dynamic to ensure the function of flow data provided by clients.

Product Range

2-36" CLASS 150 / 300 / 600

REV. 2020-A

MT GROUP

INDUSTRIAL VALVE MANUFACTURER

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