



Wafer Check Valve FABIA Industry valves Standard term Prevent Medium Backflow

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: FABIA
- Certification: ISO9001,CE,CCS,DNV
- Model Number: 1/2 inch 48 inch
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Cartons/Wooden cases
- Delivery Time: 15-30 work days
- Payment Terms: L/C,D/A,D/P,T/T,MoneyGram,Western Union
- Supply Ability: 100-1000 set per week



Product Specification

- Product Name: Stainless Steel Wafer Check Valve
- Valve Type: Wafer Check Valve
- Material: Stainless Steel
- Handle: Lever
- Package: Carton
- Seal Type: PTFE
- Size: 1/2-48 Inch
- Temperature: -20~450
- Pressure: 150-600 PSI
- Media: Water, Oil, Gas
- Standard: ANSI, DIN, JIS, GB
- Connection: Threaded, Socket Weld, Butt Weld
- Application: Petroleum, Chemical, Power, Etc



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Product Description

Product Introduction: Wafer Check Valve

The Thin-Wafer Swing Check Valve is an ultra-compact check valve featuring a simple structure, aesthetically pleasing design, lightweight construction, and easy installation. It is particularly suitable for water supply systems, petroleum, chemical, metallurgical, and other industrial sectors **where installation space is limited**.

Function:

Installed in pipeline systems, its primary functions are to **prevent medium backflow**, avoid reverse rotation of pumps and their drive motors, and discharge media from containers. It can also be used on supplemental piping for auxiliary systems where pressure may exceed that of the main system. Depending on material selection, it is adaptable to pipelines carrying various media. As an integral fluid component of the pipeline, its disc opening/closing process is influenced by the system's transient flow state; conversely, the disc's closing characteristics impact the fluid flow dynamics.

Technical Parameters:

Models: Translated as "Wafer Check Valve" (standard industry term).

Applicable Standards: Nominal Pressure PN1.6MPa ~ 42.0MPa, Class150 ~ 2500LB; Nominal Diameter DN15 ~ 1200mm, NPS 1/2" ~ 48".

Operating Temperature: -196°C ~ 540°C.

Body Materials: Carbon Steel, Stainless Steel, etc.

Compatible Media: Water, Steam, Gas, Oil Products, Acids, etc.

Product Description:

The Wafer Swing Check Valve is an **ultra-thin design** utilizing a compact structure and a single-disc configuration. An integrated O-ring ensures **excellent sealing performance**. Compared to traditional swing check valves, this series offers advantages including:

Zero external leakage.

Installable in any orientation.

Superior sealing capability.

Minimal linear vibration.

Low pressure drop.

Zero seat ring wear.

Working Principle:

The valve employs an **internally mounted rocker-arm swing mechanism**. The disc rotates around a pivot pin: fluid flow pushes the disc open to allow passage. Upon flow reversal, the disc closes automatically under its own weight and the force of the reverse flow medium.

Product Features:

Rapid disc closure minimizes water hammer pressure.

Compact structure, small footprint, and lightweight

Disc opens fully under **minimal differential pressure**.

Unrestricted flow path ensures low fluid resistance.

Responsive operation and **reliable sealing performance**.



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