Material list:

Body and bonnet:A351 CF8M

Seat: INT+STL

Disc: A351 CF8M

O-ring: NA

Gasket: NA

Stem: A182 F316

Axial Flow Check Valve Instruction

An axial flow check valve is a non-return valve designed to prevent reverse flow while ensuring smooth, efficient forward flow with minimal pressure loss. Its streamlined flow path and spring-assisted disc mechanism enable fast response and stable operation under varying flow conditions.

Axial flow check valves are widely used in industries such as oil & gas, power generation, petrochemical, and water treatment, particularly in high-pressure or critical flow systems like pipelines, compressor discharge lines, and pump outlets. These valves are ideal where silent, non-slam closure is essential to protect equipment and avoid water hammer.

Key advantages include:

Low pressure drop due to streamlined internal design

Quick response and non-slam closing to reduce shock and vibration

Compact structure with inline flow direction, suitable for tight spaces

Long service life and high reliability under severe operating conditions

Design ranges typically cover:

Sizes from 2" to 48" (or customized)
Pressure ratings from Class 150 to Class 2500
Materials including carbon steel, stainless steel, duplex, and alloy options
Compliance with international standards such as API 6D, ASME B16.34, and EN
As a specialized axial flow check valve manufacturer, we offer tailored solutions to meet your project’s technical and performance requirements.


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