

Cryogenic Butterfly Valve for Low-Temperature Applications

This butterfly valve is designed for low-pressure pipeline medium switch control. The valve can control air, water, steam, corrosive medium, mud, oil, liquid metal, and radioactive medium flow.



ADDITIONAL IMAGES



Product Overview

Cryogenic Butterfly Valve

This cryogenic butterfly valve is engineered specifically for reliable performance in extreme low-temperature applications. Featuring a robust stainless steel construction with a tight shut-off mechanism, it ensures efficient and leak-proof flow control for critical industrial processes. The design includes versatile operation options, including manual handwheel control and actuator compatibility for automated systems.

Technical Specifications

Recommended Torque Safety Factor

1.5 x

Max Multiplier

1.2 x

Min Multiplier

Actuator Structure Configurations

Configuration Type	Mechanism Description
Without Thrust Plate	Direct output torque mechanism.
With Thrust Plate	Output torque is converted to output thrust via stem nut.

Installation Considerations

- Hollow output shaft must exceed stem outer diameter
- Verify stem diameter and keyway dimensions for proper assembly
- Ensure actuator output torque meets operational requirements
- Calculate rotation turns using $M=H/ZS$ formula

Design Features

Operation Modes

Manual Handwheel • Actuator Compatible • Remote Control Ready

Material & Build

Stainless Steel Body, Cryogenic-Grade Internal Components, Circular Flange Design