

Gate Valve

Overview

A gate valve, also known as a sluice valve, is a valve that opens by lifting a barrier (gate) out of the path of the fluid. Gate valves require very little space along the pipe axis and hardly restrict the flow of fluid when the gate is fully opened.

A gate valve is generally used to completely shut off fluid flow or, in the fully open position, provide full flow in a pipeline. Thus it is used either in the fully closed or fully open positions.

PRODUCTS

Specifications

SIZES RANGE

- 2" to 48 " (50mm to 1200mm) Pressure Rating

PRESSURE RATING

- Class 150 to Class 2500. Design Standards

DESIGN STANDARDS

- API 600, API 603, ASME B 16.34

TESTING STANDARD

- API 598

Operations

MANUAL

- Bare-shaft, hand wheel & Gearbox.

AUTOMATION

- Electric, Pneumatic, and Hydraulic Actuators.



End Connection

SCOPE
STANDARD
FLANGED END
ASME B16.5
BUTTWELD END
ASME B16.25

Special Features

- Integral body seat. In-situ hardfacing provided for Trim 12 and 16 valves.
- Flex Wedge - Compensates for seat distortion and eliminates disc-jamming.
- Single-piece forged stem with T-head for superior strength.
- Body-bonnet Joint - Class 150 Gate Valves offered with square-shaped body-bonnet joints in size 2" and with oval-shaped joints in 3" size.
- Valves in all other sizes and pressure classes offered with circular body-bonnet joints.
- Robust stem-wedge design.

Shutoff Rating

- Zero Leakage for Soft Seated & Metal Seated as per API 598 or relevant STD.

Versatile Solutions:

- Gate valves work by inserting a rectangular gate or wedge into the path of a flowing fluid.
- They are operated by a threaded stem that connects the actuator to the stem of the gate.
- Options: Bellows-sealed, FBE/ Fusion-bonded Epoxy Lined, Steam-Jacketed