

Mariani - fluid control -

GATE VALVES

Fluids flow through this type of valve in a straight line with little resistance to flow and the minimum pressure drop. A gate-like disc-actuated by a stem screw and handwheel-moves at right angles to the path of flow, and closes against two seat faces.

Gate valves are best services that require infrequent valve operation, and where the disc is kept either fully opened or closed; they are not practical for throttling and, with this type, close regulation is impossible. Velocity of flow against a partly opened disc may cause vibration and chattering, surfaces. Also, when throttled, the disc is subjected to severe wire-drawing erosive effects.

Gate valves shall be either of the inside screw type with rising or non-rising stem or of the outside screw type with rising stem. In the either case they shall be of one of the following types:

-solid or split wedge

PRINCIPAL CONSTRUCTION CHARACTERISTICS

