DUCTILE & CAST IRON GATE VALVES (150/300 LB)

DESCRIPTION

These rugged 150/300 pound ductile & cast iron gate valves are recommended for steam, water, oil or gas service and can be tailored to the specified service for maximum efficiency. The gate valve stops and starts the flow by sliding the wedge (disc) across the stream. It is designed for use in either the full open or full closed positions but is not recommended for throttling. In the full open position, it is the only valve which permits an unrestricted full flow.

The true guiding system in the body prevents contact between the seating surfaces until the valve is almost closed.

Bonnets are designed with a large, deep stuffing box, equipped with a gland so that when wide open, the valve can be repacked while under pressure.

Sizes up to, and including, 4" feature integral yoke and bonnet construction while sizes 5" and above have bolted yoke.

Gate valve body markings are as follows:

SIZE
PRESSURE
DI or CI
PIMA

TESTING

Each gate valve that leaves Pima is tested in accordance with applicable commercial specifications MSS-SP128 (Ductile Iron) & MSS-SP70 (Cast Iron).

The test envelope is dependent on the applicable service rating. For example, a class 150 ductile iron valve (ASTM A395) would have a service rating of 250 PSI at 100 degree Fahrenheit which would mean a hydrostatic shell test at 375 PSI and a hydrostatic seat test at 250 PSI.

The maximum allowable tangential force used to seat the valve under full differential pressure shall not exceed:

Handwheel Diameter	Total Tangential Force on Rim of Hull
2" & below	90
3"	98
4"	106
5"	112
6"	118
7"	121
8"	124
9"	127
10"	130
11"	133
12"	135
14"	138
16"	141
18"	144
21"	147
24"	150
27"	150
30"	150
36"	150