



ANSI 150# CAST IRON GATE VALVES

Literature



Introduction:



Figure 1 ANSI 150# Cast Iron Gate Valve

Gate valve is a valve that is installed on hydraulic systems to allow or cut off the fluids flow through the valve passage. The wedge can be lifted up or lifted down by rotating the wheel handle according to the direction of "open" and "close" which mark on the handle. It is designed and manufactured according to various standards such as ASME B16.10, API 600, and API 602. It will be inspected and tested according to API 598.

Material and Design:

ANSI 150# flange end gate valve is available in several materials such as forged steel A105, stainless steel SS316, cast iron A126B, and cast steel WCB. The materials can be selected accordingly by referring to the system requirement. For ANSI 150# gate valve, the cover is designed in bolted bonnet type where bolts and nuts are used to tighten the cover with the valve body.

The stem, which is one component part of the gate valve, is available in rising stem design and non-rising stem design. For rising stem design, it means that the stem will rise when the handle is rotated to open position and descend when the handle is rotated to close position. This design tells us if the valve is in an open position or closed position by looking at the amount of stem exposed. Alternatively for non-rising stem design, the valve is fully open when the handle is rotated to open position as far as possible and fully closed when the handle is rotated to close position as far as possible. Non-rising stem design gate valves are suitable to install on tight places where there is not enough space for the stem to raise, for example, underground pipe systems.

Size and Pressure Rating:

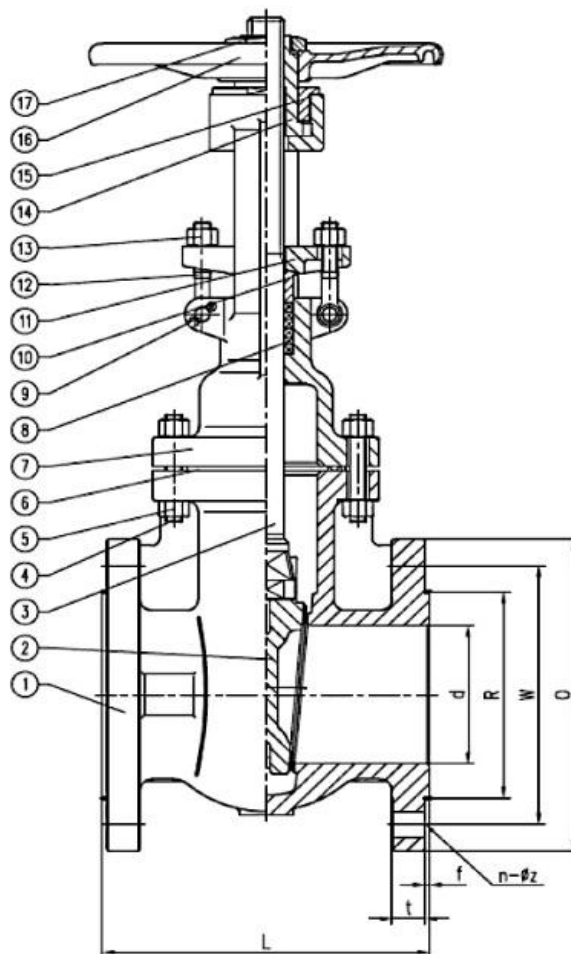
The available size for ANSI 150# gate valve is ranged from 1" to 6", subject to type of material. ANSI 150# gate valve can withstand up to 150 PSI working pressure.



Figure 2 ANSI 150# Cast Iron Gate Valve

Connection Type:

For ANSI 150# series flange end gate valve, the another connection end need to be in ANSI 150# flange connection as well. The number of bolt holes is dependent on the valve size. For example, for valve sizes that are below 4", there are only 4 bolt holes on the flange. While for valves that are above 4", there are 8 bolt holes on the flange. Bolts, nuts, and gaskets are required whenever there are any flange to flange connections.

ANSI 150# Cast Iron Gate Valve Drawing:


No	Part Name	Material
1	Body	A126 B Cast Iron
2	Wedge	A126 B Cast Iron
3	Stem	A276 SS304
4	Bolts	A29 1035
5	Nuts	A29 1025
6	Gasket	SS304 + Graphite
7	Bonnet	A126 B Cast Iron
8	Packing	Flexible Graphite
9	Pin	A29 1045
10	Packing Gland	A276 SS304

11	Gland Flange	A126 B Cast Iron
12	Eye Bolts	A29 1035
13	Nuts	A29 1025
14	Stem Nut	A276 SUS410
15	Cover	A29 1025
16	Handwheel	A47 32510 Malleable Iron
17	Nut	A29 1025

Main Technical Parameter:

Normal Pressure	150#
Hydraulic Body Test	2.06 MPa
Seal Test	1.57 MPa
Hermetical Seal Test	0.6 MPa

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