



ST RESOURCES THAILAND CO., LTD

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Sales support department (Petro equipment)

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GATE VALVE

MODEL : TGB1CF



DESCRIPTION AND FEATURES

A gate valve is a type of linear valve used to isolate areas of a fluid supply. As the name suggests, it acts like a gate that shuts off the flow and opens it again when needed.

Gate valves work via a gate or wedge that lifts (opens) or lowers (closes) into the path of the flowing liquid. Motion is produced by an actuator that is connected to the stem of the gate, which may be manual, electrically, pneumatically or hydraulically powered. They may have a rising stem, meaning it is fixed to the gate, or a non-rising stem, where it is fixed to the actuator and remains within the valve body. The latter is most commonly used in the waterworks industry and is suitable for underground applications where there is limited vertical space.

Gate valves may also sometimes be referred to as stop valves, line valves, wedge gate valves and sluice valves, but they are not to be confused with sluice gates or penstocks. These are altogether larger devices used to sever the flow of sewage and water in treatment plants and drainage systems, etc.

STANDARD, CONSTRUCTION AND APPLICATION

Design and Manufacture: Steel gate valve to API 600 or API 6D; corrosion resistant gate valve to API 603

Inspection and Test: API 598, or API 6D.

End flange connection: ASME B16.5 (NPS \leq 24); ASME B16.47 series A and B, or

MSS SP-44 (NPS > 24).

Face to face: ASME B16.10.

Pressure-temperature ratings: ASME B16.34.

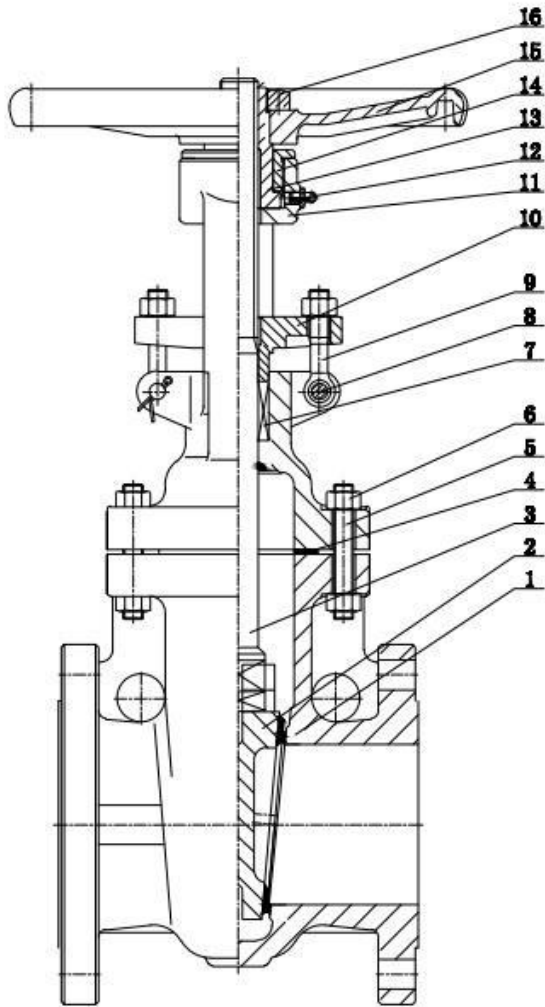
Casting: WCB, WCC, Duplex Stainless Steel, Super Duplex Stainless Steel, CF8, CF8M, CF3, CF3M, A995 4A, 5A) Monel, Inconel, Hastelloy, UB6

Forged: A182 F304, F304L, F316, F316L etc.

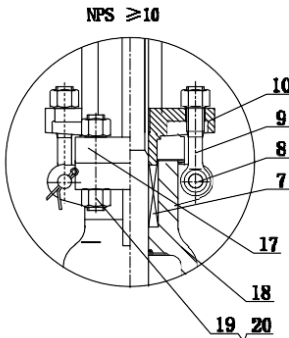
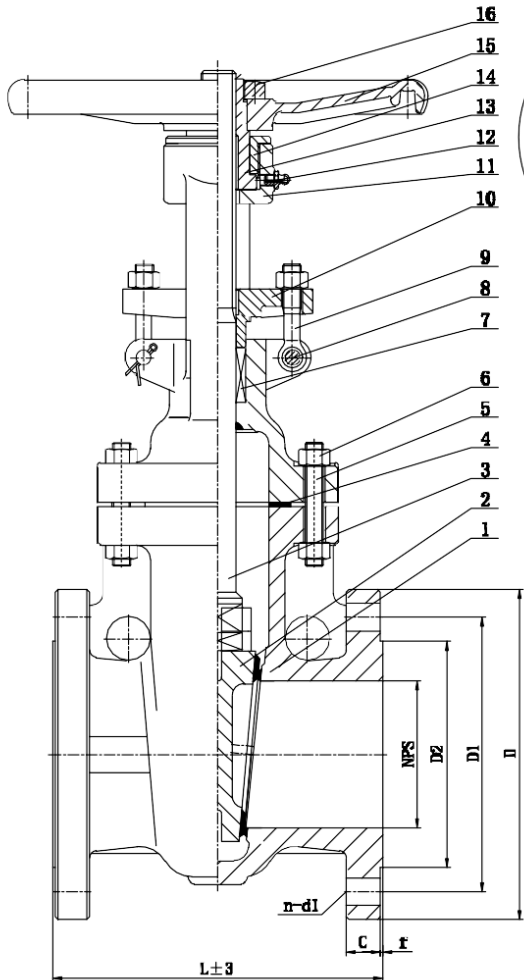
Sizes: NPS 2 to NPS 48

The gate valve can be used to control the flow of various types of fluids such as air, water, steam, various corrosive media, mud, oil, liquid metal and radioactive media.

DRAWING AND PARTNAMES



NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	WCB+13%Cr	11	Bonnet	WCB+13%Cr
2	Wedge	WCB+13%Cr	12	Nipple	Assembly
3	Stem	420	13	Stem Nut	Brass
4	Gasket	SS+Graphite	14	Nut	C. S
5	Bolt	B7	15	Handwheel	QT450
6	Nut	2H	16	Lock nut	C. S
7	Packing	Graphite	17	Yoke	WCB
8	Pin	C. S	18	Bonnet	WCB+13%Cr
9	Eye Bolt	B7	19	Bolt	B7
10	Gland Flange	WCB	20	Nut	2H



NPS	L	D2	D1	D	C	f	n-d1
2	178	92.1	120.7	150	14.3	2	4-Ø19
2 1/2	190	104.8	139.7	180	15.9	2	4-Ø19
3	203	127	162.4	190	17.5	2	4-Ø19
4	229	157.2	190.5	230	22.3	2	8-Ø19
5	254	185.7	215.9	255	22.3	2	8-Ø22
6	267	215.9	241.3	280	23.9	2	8-Ø22
8	292	269.9	298.5	345	27	2	8-Ø22
10	330	323.8	362	405	28.6	2	12-Ø26
12	356	381	431.8	485	30.2	2	12-Ø26
14	381	412.8	476.3	535	33.4	2	12-Ø29
16	406	469.9	539.8	595	35	2	16-Ø29

Technical Specification

1. Design and manufacture to ASME B16.34;
2. Face-to-face to ASME B16.10;
3. Flanged ends to ASME B16.5;
4. Inspection and test to API 598.

Performance Specification		
Nominal Pressure		CL150
Test Pressure	Shell test	3.0
	Back seal test	2.2
	Seal test	2.2
	Gas test	0.6
Working Temperature		-29~425 °C
Medium: water oil & gas		

NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	WCB+13%Cr	11	Bonnet	WCB+13%Cr
2	Wedge	WCB+13%Cr	12	Nipple	Assembly
3	Stem	420	13	Stem Nut	Brass
4	Gasket	SS+Graphite	14	Nut	C. S
5	Bolt	B7	15	Handwheel	QT450
6	Nut	2H	16	Lock nut	C. S
7	Packing	Graphite	17	Yoke	WCB
8	Pin	C. S	18	Bonnet	WCB+13%Cr
9	Eye Bolt	B7	19	Bolt	B7
10	Gland Flange	WCB	20	Nut	2H



Model : TGVICF

Gate Valve

NPS 2~16

Class 150

ST RESOURCES THAILAND CO., LTD

INDUSTRIAL VALVES



FORGED STEELGATE VALVE

MODEL : TGV1ATW



DESCRIPTION AND FEATURES

STR forged steel gate valves with screwed and flanged ends are Bolted Bonnet, outside screw and yoke type, rising spindle & non-rising hand wheel construction, in size 1/2" (DN15) to 2" (DN50) to suit various critical, on-critical applications and pressure rating in 800 and 1500 class in Regular (Reduced) Port. Our Forged Gate Valves are available in Bolted Bonnet Design, Pressure Seal Bonnet Design, Welded Bonnet Design and Cryogenic Service.

STANDARD, CONSTRUCTION AND APPLICATION

Design Standard: BS 5352/API 602 /ASME B 16.34

Inspection & Testing Standard: BS EN ISO 12266 - 1 (BS 6755-1)/API 598/ISO 5208

Flange To Flange Distance:

As Per ANSI B 16.10 / BS 5352/ API 602

Screwed- Threaded End to ANSI B 1.20.1 Socket Weld End to ANSI B 16.11

Flanged Ends as per ANSI B 16.5

Manufacturing Size Range: 1/2" (DN15) to 2" (DN 50)

Pressure Rating of Valve: 800#/1500#/2500# for Screwed/ Socket Ends and 150#/300# /600# for Flanged Ends

Materials for valves:

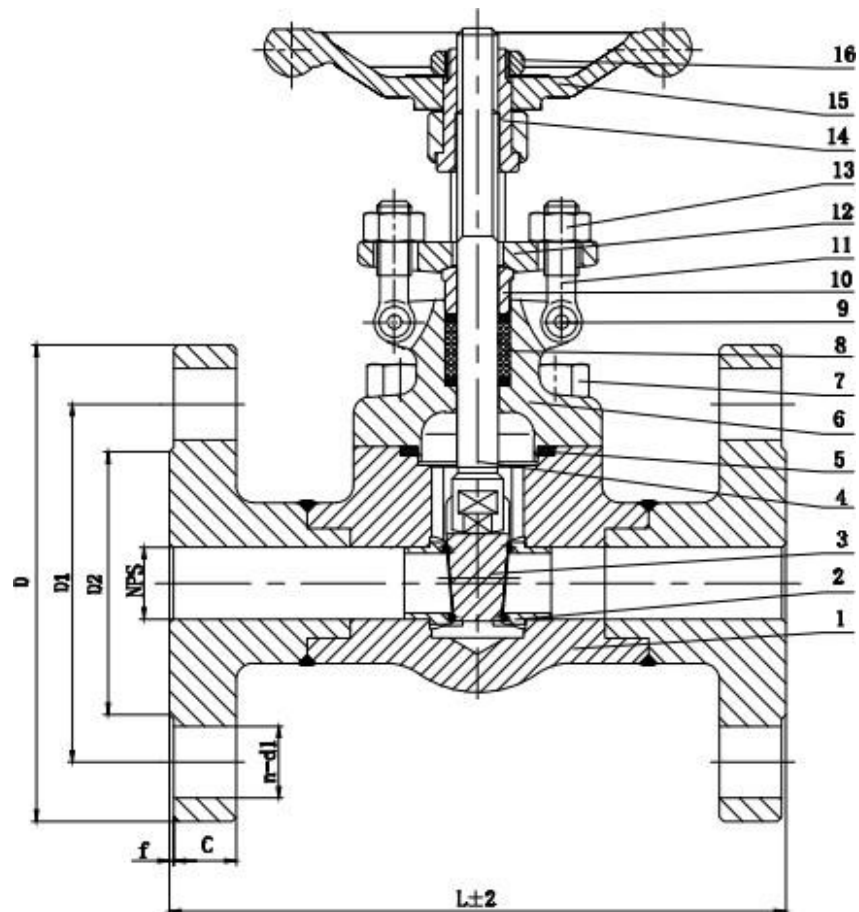
ASTM A 105 -Forged Carbon Steel

304/304L-ASTM A 182 F 304/F 304L-Forged Stainless Steel 316/316L-ASTMA 182

F 316/F 316L-Forged Stainless Steel ASTM A 182 F 11/ F 22 - Alloy Steel

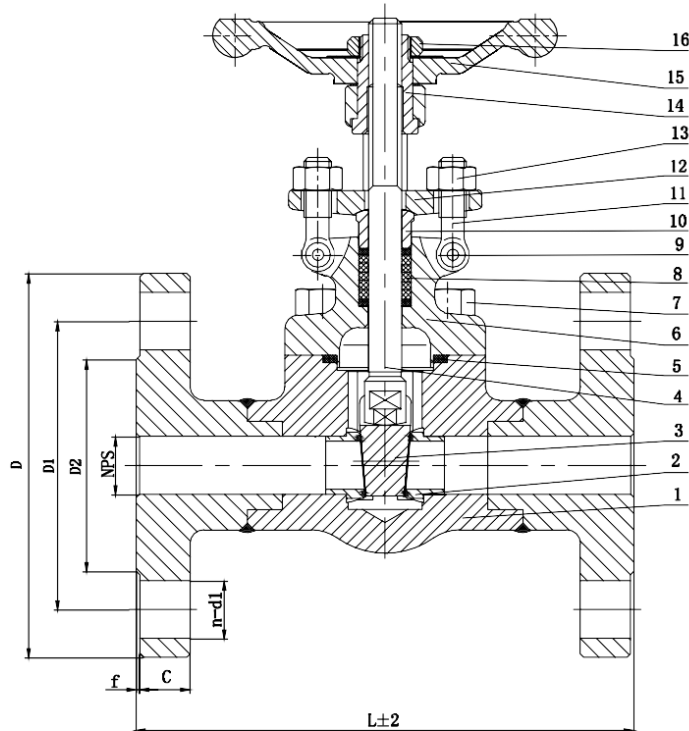
Valve Operation: Manual Hand Wheel Operated Valve Seat Leakage: Leakage Class IV

DRAWING AND PARTNAMES



NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	A105	9	Pin	35#
2	Seat Ring	13Cr	10	Gland	410
3	Wedge	13Cr	11	Eye Bolt	B7
4	Stem	13Cr	12	Gland Flange	A105
5	Gasket	304+Graphite	13	Nut	2H
6	Bonnet	A105	14	Stem Nut	35#
7	Bolt	B7	15	Handwheel	A197
8	Packing	Graphite	16	Lock nut	35#

NPS	L	D2	D1	D	C	f	n-d1
1/2	108	34.9	60.3	90	9.6	2	4-Ø16
3/4	117	42.9	69.9	100	11.2	2	4-Ø16
1	127	50.8	79.4	110	12.7	2	4-Ø16
1 1/4	140	63.5	88.9	115	14.3	2	4-Ø16
1 1/2	165	73	98.4	125	15.9	2	4-Ø16
2	178	92.1	120.7	150	17.5	2	4-Ø19



Technical Specification

1. Design and manufacture to ASME B16.34;
2. Face-to-face to ASME B16.10;
3. Ends Connection to ASME B16.5;
4. Inspection and test: API 598.

Performance Specification		
Nominal Pressure	CL150	
Test Pressure	Shell test	3.0
	Back seal test	2.2
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	Gas test	0.6
Working Temperature	-29~425°C	
Medium: water oil & gas		

NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
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3	Wedge	13Cr	11	Eye Bolt	B7
4	Stem	13Cr	12	Gland Flange	A105
5	Gasket	304+Graphite	13	Nut	2H
6	Bonnet	A105	14	Stem Nut	35#
7	Bolt	B7	15	Handwheel	A197
8	Packing	Graphite	16	Lock nut	35#



CLASS 150

Model: TGV1ATW

Gate Valve

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