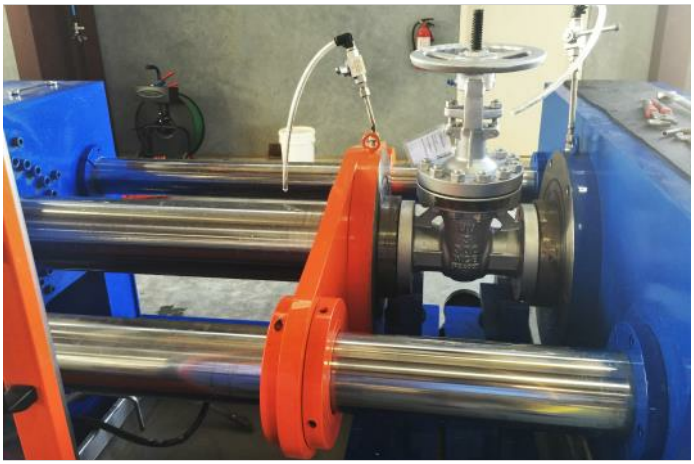
Master Valve

API 6D Gate Valve

Coretech Flow America Inc

Quality Controls

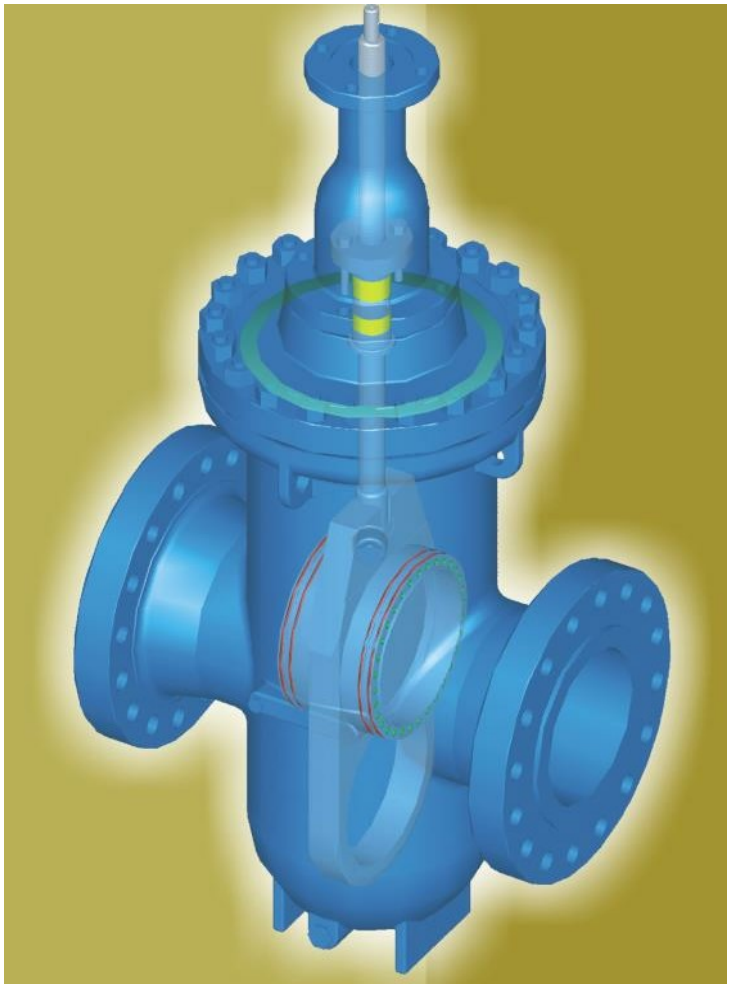
All manufacturing is conducted underISO 9001 certified quality management system
Products are stringently manufactured in accordance with applicable industry standards and to specific Master Valve Design Specifications.
Designs are compliant with ASME B16.34,API 608, API 600, API 6D, API 6A and MSS-SP110
Pressure testing is conducted to API6D, API 6A, API 598, MSS SP-110 as applicable
Fire test certifications to API 607 and API 6FA as applicable
All MV valves certified to NACE meets the predefined materialrequirements of NACE MR-0175/ISO 15156 or NACE MR-0103
Material Test Reports per EN 10204-1991 3.1.B & EN10204 3.1 available for each valve



API 6D Slab Gate Valve

API 6D Gate Valve Standard BOM

Item	Part	Description
1	Body	ASTM A216WCB
2	Bonnet	ASTM A216WCB
3	Wedge	ASTM A105+ ENP
4	Yoke	ASTM A216WCB
5	Stem nut	ASTM A439D-2
6	Gland Flange	ASTM A216WCB
7	Seat ring	ASTM A105+ ENP
8	Stem	ASTM A182F6A CL2
9	Back seat	ASTM A276420
10	Gland	ASTM A276420
11	Packing washer	ASTM A276420
12	Gasket	316SS+ graphite
13	Packing	304SS+ graphite
14	Latten ring	ASTM A276420
15	Nut	ASTM A1942H
16	Stud	ASTM A193B7
17	Nut	ASTM A1942H
18	O-ring	NBR
19	Spring	INCONEL X-750
20	Seat insert	PTFE
21	Seat grease injection	Assembly
22	Plug	Carbon Steel
23	Stem Grease Injection	Assembly
24	Indicator plate	ASTM A276-420
25	Gear box	Assembly
26	Name plate	Stainlesssteel
27	Rivet	Stainlesssteel



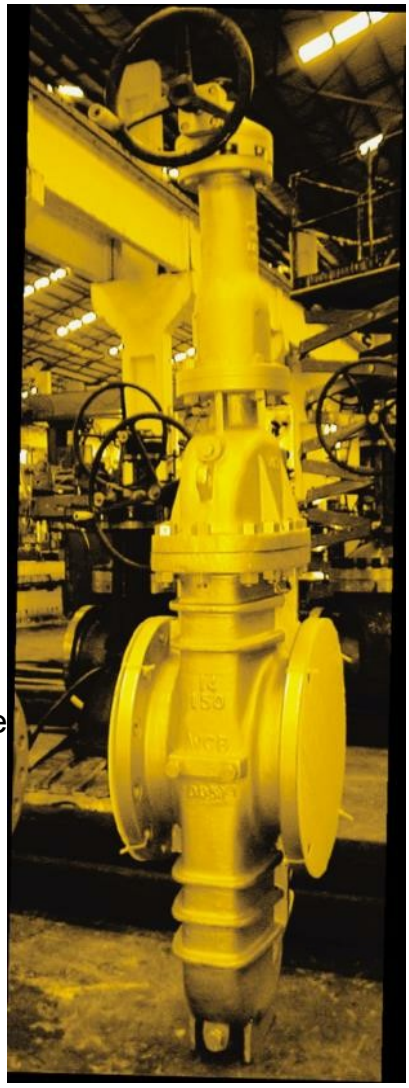
Pressure – Temperature Rating
ASME B16.34

Face to Face / End to End
ASME B16.10

Connection
ASME B16.5 / B16.25

Testing and Inspection
API 6D/ API 598

Standards of API 6D Slab Gate Valves



Design- API 6DASME B16.34
Wall thickness - ASME B16.34
Face to face dimension - ASME B16.10
Flange design - ASME B16.5
Butt weld design - ASME B16.25
Testing - API 598
Materials - ASTM

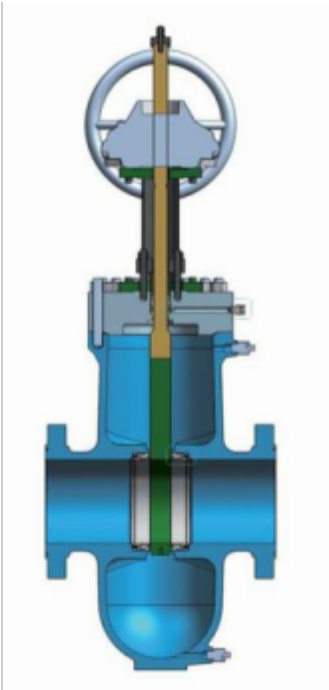
Features of API 6D Slab Gate Valves

Through Conduit Slab Gate Valves are manufactured with a full bore port, rising stem, OS&Y and with floating seats and gate, pressure energized, for a bubble tight shut off upstream and downstream under both low and high differential pressure Double block and bleed capability and automatic relief of excess body pressure are a standard feature of this seat design.

The smooth, continuous bore minimizes turbulence within the valve and when in the open position it produces a pressure drop equivalent to a portion of pipe of the same length and diameter.

The seat faces are outside the flow stream and therefore protected from the erosive action of the flow. Pigs and scrapers can be run through the valve without damage.

Range of API 6D Slab Gate Valve



Body materials: Carbon steel, stainless steel and alloy steel
Trim: standard trim A105+ENP wedge, 410 Stem; PTFE seat insert
End Connection- Flange/RTJ/Butt Weld
Pressrue Rating - Class 150, 300, 600, 800, 900, 1500 and 2500
Size- NPS 2"-64" (DN 50 - 1600)

Inventory in Texas Factory

Key Design Features

Stem/Stem Seal

The stem is designed with a threaded-in T bar allowing relative motions of the gate under line pressure. The stem seal uses braided graphite gaskets ensure sealing integrity. Stem sealant injection system is achieved through a port located on the bonnet. In case of leakage through the stem seal, it is possible to inject the sealant through the stem packing release valve

Seat

Seats are ENP coated and are provided with thermoplastic soft insert on their face. A “double face seal” effect is obtained due to metallic contact between the seat and the gate, thus increasing the reliability of the valve.
Metal-to-metal seating is available for abrasive service.
In such case gate and seat faces are coated with HVOF Tungsten Carbide coating.

Double Block and Bleed

Double block and bleed capability and automatic relief of excess body pressure are standard features of Master Valve Through Conduit Slab Gate Valves. With the valve fully closed and pressure on both sides, it is possible to bleed the pressure from the body cavity to check seat seal integrity and to achieve double isolation between the two sides and avoid any risk of product contamination

Fire-safe design

Master Valve Through Conduit Slab Gate valve is available in the API 6FA fire-tested design. Fire-safe gate valves offer the highest resistance against fire. The body seal is a spiral wound graphite/AISI 316 gasket and the stem seal is a die-formed/braided graphite packing. The stem incorporates the back seat feature to allow stem seal re-packing with valve in service. Fire-tests certification is available and can be provided upon request.

Additional features

- Metal seated/Tungsten Carbide coating for abrasive fluids
- Stem extension for buried service/high temperature service
- Inconel 625 cladding sealing surfaces for corrosive service
- Transition Pipe Pups welded to the valve ends
- Position indicator
- Actuation (Electric, Pneumatic and Hydraulic actuators)

How to Order

Example: **100CSG-16-WCB-111A**. This figure number represents a 10” API 6D slab gate valve, flanged raised face end, 600# class, body WCB, wedge A105/ENP, PTFE seat insert, 410 stem, electric actuator operator.

Size

020 = 2"
030 = 3"
040 = 4"
060 = 6"
080 = 8"
100 = 10"
120 = 12"
140 = 14"
160 = 16"
180 = 18"
200 = 20"
240 = 24"
300 = 30"
360 = 36"
480 = 48"

Valve Type

CSG = Cast Slab Gate

CEG = Cast Expanding Gate

End Connection

1 = Raised face

2 = Ring type joint

3 = Butt weld

S = Special

Pressure Class

1 = 150#

3 = 300#

6 = 600#

9 = 900#

A = 1500#

B = 2500#

Body

WCB

LCC

C5

C-12

WC6

WC9

CD3MN

C12A

CF8M

CF8

CG3M

CF8C

M-35

CW6MC

CN7M

Wedge

1 = A105/ENP

2 = F316

Seat Insert

1 = PTFE

2 = NYLON

3 = PEEK

4 = Tungsten Carbide

Stem

1 = F6A

2 = F304

3 = A105/ENP

4 = 17-4PH

5 = AISI 4140

6 = F316

7 = F304L

8 = F316L

9 = LF2/ENP

Operator

H = Handwheel

G = Bevel Gear

A = Actuator

Coretech Flow America Inc

Master Valve
23555 Clay Road, Katy, TX 77493, USA
+1 832 838-4999
www.coretechflow.com