

# Milwaukee Valve Cast Steel Gate, Globe, and Check Valves

## API 600 GATE VALVES

- Flexible split wedge for improved seating
- 2-bolt adjustable stem packing arrangement for longer packing life
- Grounded finish on stem for improved packing seal
- Outside Screw & Yoke rising stem design
- Seal-welded seat rings for stable shut-off
- Handwheel, bevel gear operator, or electric actuation available
- Size range 2" - 24" (CL 150/300), 2" - 12" (CL 600). Contact factory for additional sizes.

## API 623 GLOBE VALVES

- Rotating seat disc for improved seating
- Outside Screw & Yoke rising stem design
- Integral seat with body and disc overlay
- 2-bolt adjustable stem packing arrangement for longer packing life
- Size range 2" - 8" (CL 150/300), 2" - 6" (CL 600). Contact factory for additional sizes.

## API 594 SWING CHECK VALVES

- Horizontal full port design with bolted cover
- Pinned rotating disc for improved sealing
- Seal-welded seat rings for stable shut-off
- Size range 2" - 12" (CL 150/300/600). Contact factory for additional sizes.



## SPECIFICATIONS & STANDARDS

<b>Design</b>	API (as noted), ASME B16.34
<b>Flange Connections</b>	ASME B16.5
<b>Butt-Weld Connections</b>	ASME B16.25
<b>End-to-End Dimensions</b>	ASME B16.10
<b>Testing and Inspection</b>	API 598
<b>Pressure &amp; Temperature</b>	ASME B16.34
<b>By-Passes &amp; Drains</b>	MSS SP-45
<b>Materials</b>	ASTM standards

**Notes:**

1. Heat codes and MTR's provided for traceability of each valve.
2. Contact factory for optional trim materials or larger sizes.
3. Customer must specify pipe schedule for butt-weld ends.
4. Operating temperature range is -20 to 800°F per ASME B16.34.

## HOW TO ORDER MILWAUKEE VALVE CAST STEEL

**15 5 0 CB 2 HW M BP**

**Pressure Class:**  
15 = Class 150  
30 = Class 300  
60 = Class 600

**Type:**  
5 = Gate  
6 = Globe  
7 = Check

**Pipe Ends:**  
0 = Flanged  
2 = Butt-Weld (Std)  
3 = Butt-Weld (Extra Heavy)

**Body Material:**  
CB = A216 WCB

**Trim Material:**  
2 = API 8 (std)  
(Contact factory for all other trim options)

**Operator:**  
HW = Handwheel  
GB = Bevel Gear Operator  
SC = Swing Check (No Operator)  
(Contact factory for Actuation)

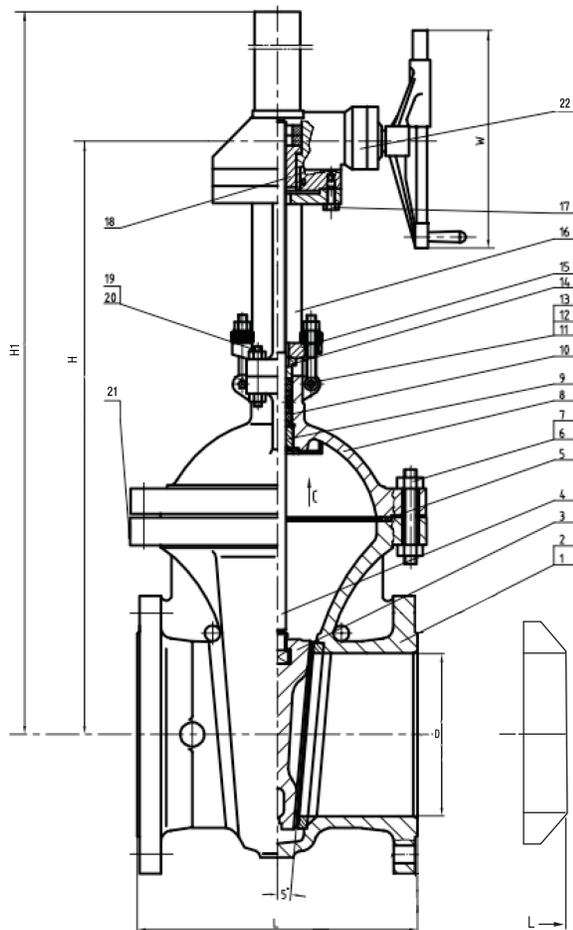
**Options:**  
(blank) = None  
BP = By-Pass  
DT = Drilled & Tapped

**Revision:**  
M = Designated Manufacturer

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# 3050CB2M FLANGED ENDS 3052CB2M BUTT-WELD ENDS GATE CLASS 300 16"-24"



SPECIFICATIONS		
DESIGN: API 600 12th Edition, ASME B16.34		
PRESSURE-TEMP RATINGS: ASME B16.34		
CONNECTIONS: ASME B16.5, B16.25		
FACE TO FACE: ASME B16.10		
TEST & INSPECTION: API 598 RP 591		
MATERIALS: ASTM		
MATERIAL LIST		
ITEM	PART NAME	MATERIAL
1	BODY	A216 WCB
2	SEAT RING	A105+STL6
3	WEDGE	A216 WCB+13Cr
4	STEM	A182 F6a
5	GASKET	GRAPHITE+SS CORE
6	STUD BODY/BONNET	A193 B7
7	NUT BODY/BONNET	A194 2H
8	BONNET	A216 WCB
9	BACKSEAT BUSHING	A276 410
10	PACKING	GRAPHITE
11	GLAND EYEBOLT PIN	A29 1035
12	GLAND EYEBOLT	A193 B7
13	GLAND EYEBOLT NUT	A194 2H
14	GLAND	A276 410
15	GLAND FLANGE	A216 WCB
16	YOKE	A216 WCB
17	BOLT	A193 B7
18	STEM NUT	A194 2H
19	BOLT	A193 B7
20	NUT	A194 2H
21	NAMEPLATE	A240 321
22	GEAR BOX	

SIZE		L FACE TO FACE/BW	D DIA	H CLOSED	H1 FULL OPEN	W HAND WHEEL	C <sub>v</sub>
16"	IN	32.99	15.24	52.72	70.43	18.11	21560
	MM	838	387	1339	1789	460	
18"	IN	35.98	17.01	57.52	76.81	24.02	27890
	MM	914	432	1461	1951	610	
20"	IN	39.02	19.02	63.03	84.69	24.02	34840
	MM	991	483	1601	2151	610	
24"	IN	45.00	22.99	75.63	101.42	24.02	51050
	MM	1143	584	1921	2576	610	

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