

# 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)

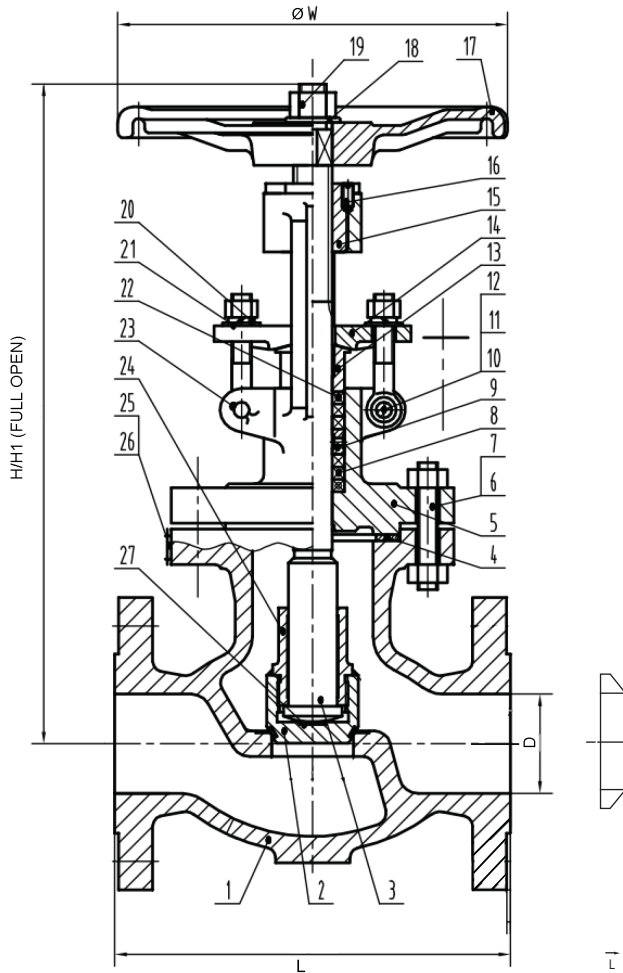
**Options:**  
(blank) = None  
BP = By-Pass  
DT = Drilled & Tapped

**Revision:**  
M = Designated Manufacturer

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# 3060CB2M FLANGED ENDS 3062CB2M BUTT-WELD ENDS GLOBE CLASS 300 2"-8"



SPECIFICATIONS		
DESIGN: API 623, 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		
NO.	PART NAME	MATERIAL
1	BODY <sub>1</sub>	A216 WCB+13Cr
2	DISC <sub>1</sub>	A105+STL6
3	STEM	A182 F6a
4	GASKET	GRAPHITE+SS CORE
5	BONNET	A216 WCB
6	STUD BODY/BONNET	A193 B7
7	NUT BODY/BONNET	A194 2H
8	PACKING	GRAPHITE
9	LANTERN	A276 410
10	GLAND EYEBOLT PIN	A29 1035
11	GLAND EYEBOLT	A193 B7
12	GLAND EYEBOLT NUT	A194 2H
13	GLAND	A276 410
14	GLAND FLANGE	A216 WCB
15	STEM NUT	A439 TYPE D2
16	SET SCREW	A29 1035
17	HANDWHEEL	A536
18	WASHER	A36
19	NUT	A194 2H
20	SPRING WASHER	A29 1566
21	WASHER	A36
22	PACKING	BRAIDED GRAPHITE+SS
23	SPLIT PIN	A36
24	DISC NUT	A182 F6a
25	NAMEPLATE	A240 321
26	RIVET	A276 321
27	THRUST PLATE	A276 321

<sup>1</sup> SEAT IS INTEGRAL TO THE BODY. DISC SEATING SURFACE HAS HARD FACING WITH COBALT BASED ALLOY.

SIZE		L FACE TO FACE/BW	D DIA	H	H1 FULL OPEN	W HAND WHEEL	C <sub>v</sub>
2"	IN	10.50	2.01	14.84	15.47	7.87	60
	MM	267	51	377	393	200	
2.5"	IN	11.50	2.52	16.54	17.36	9.84	84
	MM	292	64	420	441	250	
3"	IN	12.52	2.99	17.32	18.35	9.84	100
	MM	318	76	440	466	250	
4"	IN	14.02	4.02	20.63	21.93	13.78	185
	MM	356	102	524	557	350	
5"	IN	15.75	5.00	22.48	24.13	15.75	215
	MM	400	127	571	613	400	
6"	IN	17.48	5.98	24.45	26.34	15.75	440
	MM	444	152	621	669	400	
8"	IN	22.00	7.99	30.91	33.35	19.69	810
	MM	559	203	785	847	500	

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