

# 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)

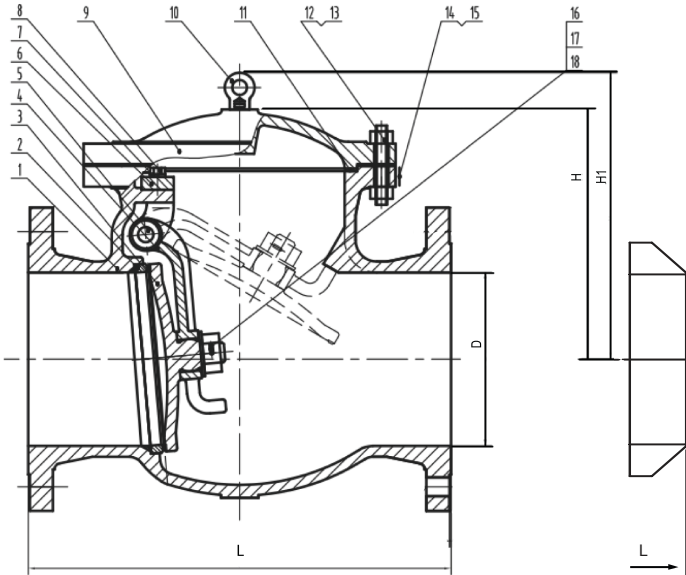
**Options:**  
(blank) = None  
BP = By-Pass  
DT = Drilled & Tapped

**Revision:**  
M = Designated Manufacturer

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# 6070CB2M FLANGED ENDS 6073CB2M BUTT-WELD ENDS SWING CHECK CLASS 600 2"-12"



SPECIFICATIONS		
DESIGN: API 594, 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	DISC	A216 WCB+13Cr
4	DISC HINGE	A216 WCB
5	HINGE PIN	A276 410
6	HINGE SEAT	A216 WCB
7	WASHER	A276 316
8	STUD	A193 B8M
9	BONNET	A216 WCB
10	LIFTING BOLT	A29 1025
11	GASKET	GRAPHITE AND SS CORE
12	STUD	A193 B7
13	NUT	A194 2H
14	NAMEPLATE	A240 321
15	RIVET	A276 321
16	CAGE NUT	A276 410
17	LOCK WASHER	A276 410
18	STEEL WIRE	A276 316

\* Lifting Bolt on sizes 8"-12" only

SIZE		L FACE TO FACE/BW	D DIA	H	H1	C <sub>v</sub>
2"	IN	11.50	2.01	6.73		154
	MM	292	51	171		
2.5"	IN	12.99	2.52	7.44		218
	MM	330	64	189		
3"	IN	14.02	2.99	8.15		282
	MM	356	76	207		
4"	IN	17.01	4.02	9.80		515
	MM	432	102	249		
5"	IN	20.00	5.00	11.61		842
	MM	508	127	295		
6"	IN	22.01	5.98	12.60		1233
	MM	559	152	320		
8"	IN	25.98	7.87		18.31	2188
	MM	660	200		465	
10"	IN	30.98	9.76		21.06	3564
	MM	787	248		535	
12"	IN	32.99	11.73		23.43	5069
	MM	838	298		595	

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