

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

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

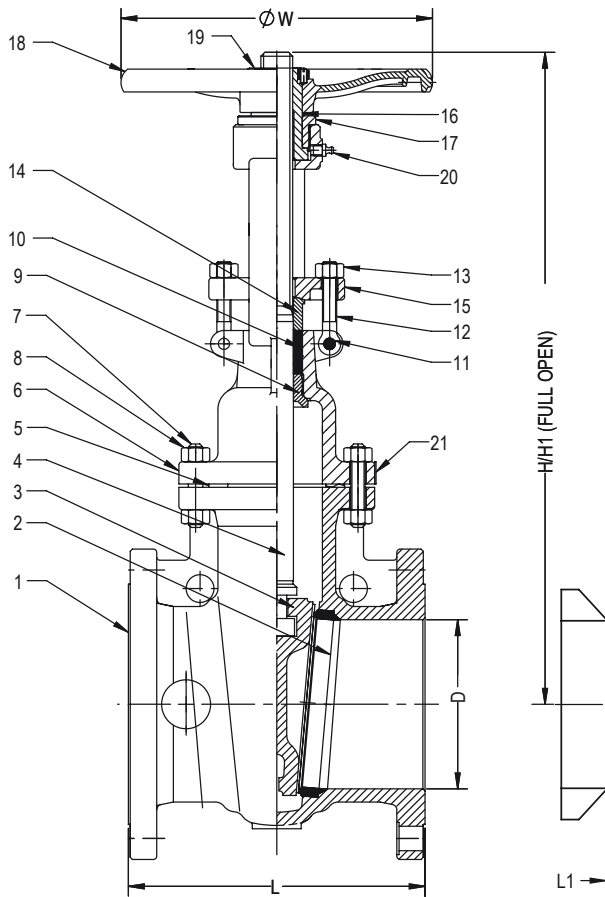
Options:
(blank) = None
BP = By-Pass
DT = Drilled & Tapped

Revision:
M = Designated Manufacturer

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1550CB2M FLANGED ENDS 1552CB2M BUTT-WELD ENDS GATE CLASS 150 2"-12"



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	BONNET	A216 WCB
7	STUD BODY/BONNET	A183 B7
8	NUT BODY/BONNET	A194 2H
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 BUSHING NUT	A439 D2
17	YOKE BUSHING	A29 1035
18	HANDWHEEL	A536
19	HANDWHEEL NUT	A29 1035
20	GREASE FITTING	A36
21	NAMEPLATE	A240 321
22*	YOKE BOLT	A193 B7
23*	YOKE NUT	A194 2H
24*	YOKE	A216 WCB
25*	BEARING	BEARING STEEL

* Sizes 10" and 12" made with separate yoke bolted to bonnet
 * 22-25 not shown

DIMENSIONS

SIZE		L FACE TO FACE	L1 BUTT WELD	D DIA	H CLOSED	H1 FULL OPEN	W HAND WHEEL	Cv
2"	INCHES	7.01	8.50	2.01	15.47	17.91	7.87	310
	mm	178	216	51	393	455	200	
2.5"	INCHES	7.48	9.49	2.52	16.50	19.45	7.87	480
	mm	190	241	64	419	494	200	
3"	INCHES	7.99	11.10	2.99	18.35	21.77	9.84	710
	mm	203	282	76	466	553	250	
4"	INCHES	9.02	12.01	4.02	20.43	24.92	9.84	1300
	mm	229	305	102	519	633	250	
5"	INCHES	10.00	15.00	5.00	23.66	29.17	11.81	1950
	mm	254	381	127	601	741	300	
6"	INCHES	10.51	15.87	5.98	26.02	32.56	11.81	3100
	mm	267	403	152	661	827	300	
8"	INCHES	11.50	16.50	7.99	31.42	39.96	13.78	5720
	mm	292	419	203	798	1015	350	
10"	INCHES	12.99	17.99	10.00	37.01	47.68	17.72	8940
	mm	330	457	254	940	1211	450	
12"	INCHES	14.02	19.76	12.01	42.87	55.55	19.69	13350
	mm	356	502	305	1089	1411	500	

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