

Cast Steel: Gates/Globes/Checks

Milwaukee Valve Company

WCB Body/Bonnet/Cap/API 8 Trim

Features and Benefits

Gates

- Flexible Wedge for improved seating
- 2 bolt adjustable stem packing arrangement for longer packing life
- Stems have a grounded finish for improved packing seal
- Outside Screw and Yoke rising stem design

Globes

- Rotating seat disc for improved seating
- Outside Screw and Yoke rising stem design
- 2 bolt adjustable stem packing arrangement for longer packing life

Swing Checks

- Horizontal design
- Pinned rotating disc for improved sealing

Gate/Globe/Swing Checks

- Seat faces lapped for improved sealing
- Seats rings are sealed-welded for stable shut-off
- API 8 trim standard on Gate/Globe/Checks
- Materials to ASTM standards
- Heat codes and MTR's provided for traceability of each valve

Product Range

- ASME Class 150/300/600 Flanged and Butt-Weld Connections
- Size Range: 2"-24", Consult Factory for larger sizes

Operators Available

- Handwheel and Bevel Gear Operators available
- Electric Actuation available for Gates

Materials of Construction

- Body/Bonnet/Cap: ASTM A216 Gr WCB Cast Steel
- Trim: API 8 standard
- Stem: ASTM A182 F6a (410 Gr SS) for Gates/Globes
- Seats: A105-Cr-Co Hard faced seats and Seal Welded
- Packing: Multiple Graphite rings for Gates/Globes
- Body Gaskets: Graphite/Stainless Steel

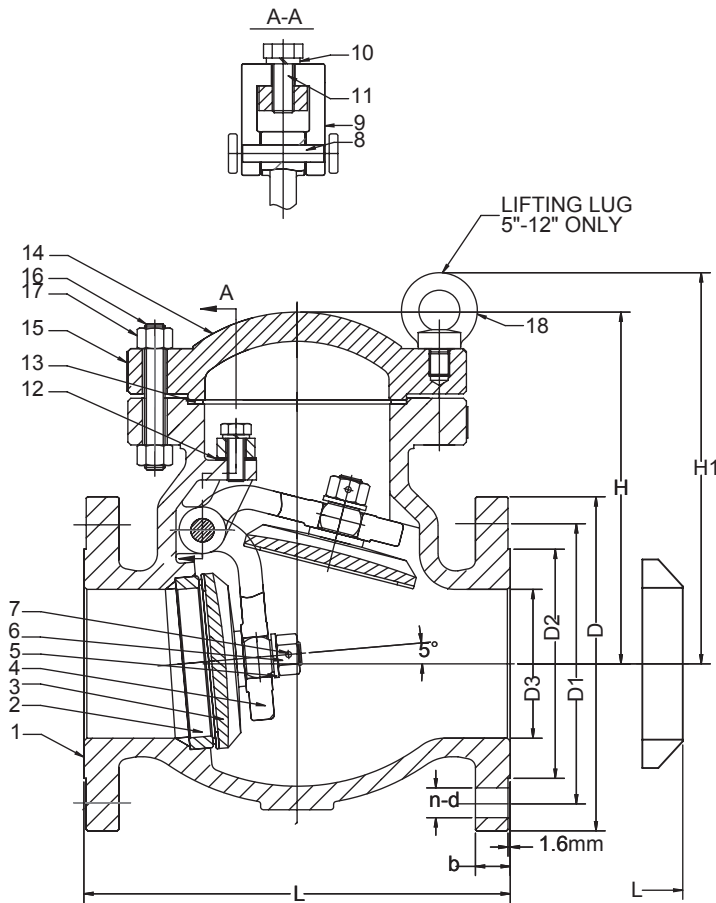
Specifications and Standards

- Design: Wall Thickness & Trim API 600/ASME B16.34
- Connections: Flanges to ASME B16.5/Butt-weld to ASME 16.25
- End to End Dimensions: ASME B16.10
- Testing and Inspection: API 598, RP 591
- Pressure and Temperature: ASME B16.34
- Operating Temperature: -20 to 800° F
- By-Passes and Drains: MSS SP-45



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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

3070CB2 FLANGED ENDS 3072CB2 BUTT-WELD ENDS SWING CHECK CLASS 300 2"-12"



SPECIFICATIONS		
DESIGN: WALL THICKNESS & TRIM API 600, ASME B 16.34, BS 1868		
PRESSURE-TEMP RATINGS: ASME B 16.34		
CONNECTIONS: ASME B 16.5, B 16.25		
FACE TO FACE: ASME B 16.10		
TEST & INSPECTION: API 598 RP 591		
MATERIAL LIST		
NO.	PART NAME	MATERIAL
1	BODY	ASTM A216 WCB
2	SEAT RING	A105+Co-Cr-W
3	DISC	A216 WCB+13Cr HF
4	DISC HINGE	ASTM A216 WCB
5	WASHER	CARBON STEEL
6	DISC NUT	CARBON STEEL
7	DISC PIN	304 SS
8	HINGE PIN	ASTM A276 420
9	DISC SUPPORT	ASTM A216 WCB
10	SPRING WASHER	65 Mn
11	BOLT	CARBON STEEL
12	ADJUSTER WASHER	CARBON STEEL
13	GASKET	GRAPHITE AND SS CORE
14	BONNET	ASTM A216 WCB
15	NAMEPLATE	304 SS
16	STUD COVER	ASTM A193 B7
17	NUT COVER	ASTM A194 2H
18	LIFTING BOLT	CARBON STEEL

SIZE		L FACE TO FACE/BW	D DIA	D1 BOLT CIRCLE	D2 RAISED FACE DIA	D3 DIA	b THICKNESS	n NUMBER OF HOLES	d HOLE DIA	H	H1	C _v
2"	IN	10.50	6.50	5.00	3.62	2.00	0.87	8	0.75	5.63		154
	MM	267	165	127	92	51	22		19	143		
2 1/2"	IN	11.50	7.48	5.87	4.13	2.52	1.00	8	0.87	6.18		218
	MM	292	190	149	105	64	25		22	157		
3"	IN	12.50	8.27	6.63	5.00	2.99	1.13	8	0.87	7.20		282
	MM	318	210	168	127	76	29		22	183		
4"	IN	14.00	10.00	7.87	6.18	4.02	1.25	8	0.87	8.50		510
	MM	356	254	200	157	102	32		22	216		
5"	IN	15.75	10.98	9.25	7.32	5.00	1.37	8	0.87		10.75	837
	MM	400	279	235	186	127	35		22		273	
6"	IN	17.50	12.52	10.63	8.50	5.98	1.44	12	0.87		11.54	1233
	MM	445	318	270	216	152	37		22		293	
8"	IN	21.00	15.00	13.00	10.63	7.99	1.63	12	0.98		13.94	2262
	MM	533	381	330	270	203	41		25		354	
10"	IN	24.50	17.52	15.25	12.76	10.00	1.87	16	1.14		16.22	3539
	MM	622	445	387	324	254	48		29		412	
12"	IN	28.00	20.51	17.75	15.00	12.01	2.00	16	1.26		18.66	5292
	MM	711	521	451	381	305	51		32		474	

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