

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

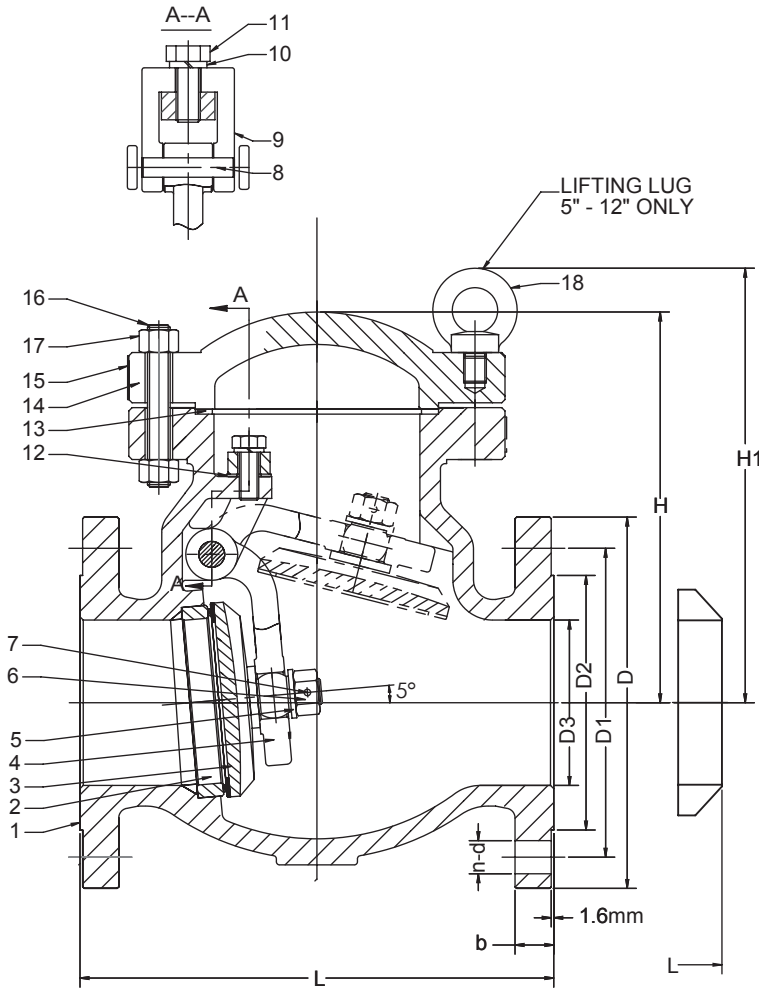
- Body/Bonnet/Cap: ASTM A216 Gr WCB Cast Steel
- Trim: API 8 standard
- Stem: ASTM A182 F6a (410 Gr SS) for Gates/Globes
- Seats: A105-Cr-Co Hard faced seats and Seal Welded
- Packing: Multiple Graphite rings for Gates/Globes
- Body Gaskets: Graphite/Stainless Steel

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



1570CB2 FLANGED ENDS 1572CB2 BUTT-WELD ENDS SWING CHECK CLASS 150 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		
ITEM	PART NAME	MATERIAL
1	BODY	ASTM A216 WCB
2	SEAT RING	A105+Co-Cr-W
3	DISC	ASTM 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	65Mn
11	BOLT	CARBON STEEL
12	ADJUSTER WASHER	CARBON STEEL
13	COVER GASKET	GRAPHITE+SS CORE
14	COVER	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
2"	IN	8.00	5.98	4.75	3.62	2.00	0.62	4	0.75	5.28	
	MM	203	152	121	92	51	16		19	134	
2 1/2"	IN	8.50	7.01	5.50	4.13	2.52	0.69	4	0.75	5.55	
	MM	216	178	140	105	64	18		19	141	
3"	IN	9.50	7.48	6.00	5.00	2.99	0.75	4	0.75	6.57	
	MM	241	190	152	127	76	19		19	167	
4"	IN	11.50	9.02	7.50	6.18	4.02	0.94	8	0.75	7.87	
	MM	292	229	191	157	102	24		19	200	
5"	IN	13.00	9.99	8.50	7.32	5.00	0.94	8	0.87		9.80
	MM	330	254	216	186	127	24		22		249
6"	IN	14.00	10.98	9.50	8.50	5.98	1.00	8	0.87		10.87
	MM	356	279	241	216	152	25		22		276
8"	IN	19.50	13.50	11.75	10.63	7.99	1.12	8	0.87		12.80
	MM	495	343	299	270	203	29		22		325
10"	IN	24.50	15.98	14.25	12.76	10.00	1.19	12	0.98		15.20
	MM	622	406	362	324	254	30		25		386
12"	IN	27.15	19.02	17.00	15.00	12.01	1.25	12	0.98		17.20
	MM	690	483	432	381	305	32		25		437

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