TØV Bill of Materials
3 to 12 Inches
ASME Class 150 & 300
Per API 609

Part Description		Material		Specification
		T0XXCS48G3XX (Carbon Steel)	T0XXSS48G3XX (Stainless Steel)	
1	Body	Carbon Steel w/Stellite 21 Seat Overlay		ASTM A216, WCB
			Stainless Steel w/Stellite 21 Seat Overlay	ASTM A351, CF8M
2	Disc	Stainless Steel		ASTM A351, CF8M
3	Disc Seat Retainer	Stainless Steel		ASTM A276, TY. 316
4	Seal Ring*	Stainless Steel/Graphite Laminate		UNS S30408/GRAPHITE LAMINATE
5	Stem	Stainless Steel		17-4PH
6	Stem Limit Block	Stainless Steel		ASTM A276, TY. 304 NITRIDED
7	Bottom Cap	Carbon Steel		ASTM A216, WCB
			Stainless Steel	ASTM A351, CF8M
8	Packing Gland	Carbon Steel		ASTM A216, WCB
			Stainless Steel	ASTM A351, CF8M
9	Adapter Bracket	Carbon Steel		AISI 1020
10	Bearing	Stainless Steel		ASTM A276, TY. 304 NITRIDED
11	Packing, Reinforced*	Reinforced Graphite		Commercial
12	Packing*	Graphite		Commercial
13	Packing Washer	Stainless Steel		ASTM A276, TY. 304
14	Retention Ring*	Stainless Steel		ASTM A276, TY. 304
15	Lock Washer, Packing Gland	Carbon Steel		AISI 1066
			Stainless Steel	ANSI B18.21.1
16	Nut, Packing Gland	Carbon Steel		ASTM A194, Gr. 2H
			Stainless Steel	ASTM A194, Gr. 8M
17	Stud, Packing Gland	Carbon Steel		ASTM A193, Gr. B7
			Stainless Steel	ASTM A193, Gr. B8M or ISO 4762 A4-70
18	Seal*	Graphite/Stainless Steel TY. 304		Commercial
19	Seal, Bottom Cap*	Graphite/Stainless Steel TY. 304		Commercial
20	Wedge, Disc/Stem	Stainless Steel		17-4PH
21	Set Screw, Disc	Stainless Steel		Commercial
22	SHCS, Retainer	Stainless Steel		ASTM A193, Gr. B8M or ISO 4762 A4-70
23	Hex Bolt, Bottom Cap	Carbon Steel		ASTM A193, Gr. B7
			Stainless Steel	ASTM A193, Gr. B8M or ISO 4762 A4-70
24	Lock Washer, Bottom Cap	Carbon Steel		AISI 1066
			Stainless Steel	ANSI B18.21.1
25	Key, Stem	Carbon Steel		Commercial
26	Key, Seat Alignment**	Stainless Steel		Commercial
27	Key, Bracket Alignment**	Carbon Steel		Commercial
28	Stud, Adapter Bracket	Carbon Steel		ASTM A193, Gr. B7
29	Nut, Adapter Bracket	Carbon Steel		ASTM A194, Gr. 2H
30	Lock Washer, Adapter Bracket	Carbon Steel		AISI 1066
31	Bolt, Gear Operator	Carbon Steel		ASTM A193, Gr. B7
32	Gear Operator	Ductile Iron		ASTM A536

*Included in repair part kits

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operations and Maintenance Manual (IOM) and the most current product information, go to www.milwaukeevalve.com.

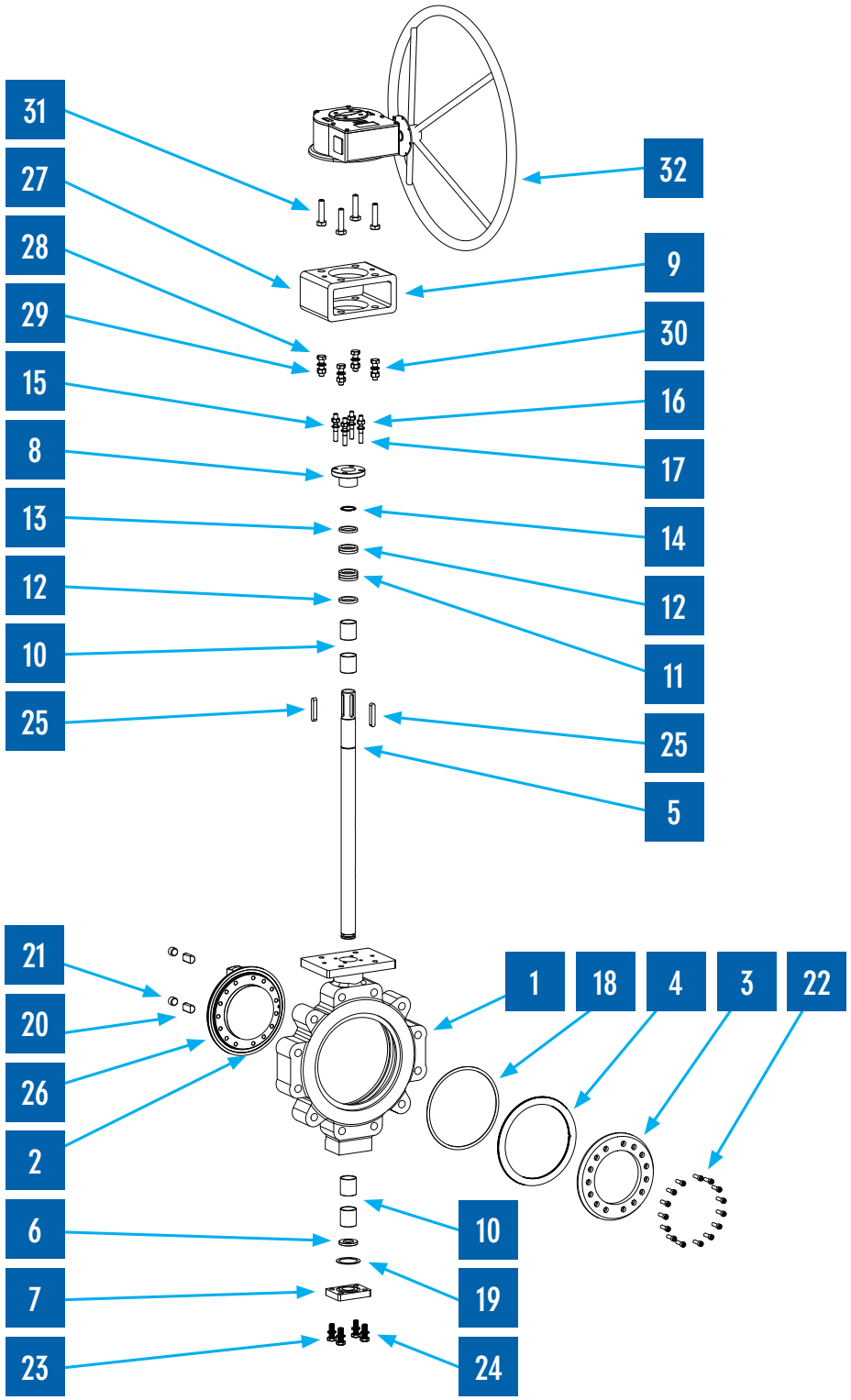
⚠ State of California Prop 65 Warning: Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

MILWAUKEE VALVE

TØV Bill of Materials
3 to 12 Inches
ASME Class 150 & 300
Per API 609

Part	Description
1	Body
2	Disc
3	Disc Seat Retainer
4	Seal Ring*
5	Stem
6	Stem Limit Block
7	Bottom Cap
8	Packing Gland
9	Adapter Bracket
10	Bearing
11	Packing, Reinforced*
12	Packing*
13	Packing Washer
14	Retention Ring*
15	Lock Washer, Packing Gland
16	Nut, Packing Gland
17	Stud, Packing Gland
18	Seal*
19	Seal, Bottom Cap*
20	Wedge, Disc/Stem
21	Set Screw, Disc
22	SHCS, Retainer
23	Hex Bolt, Bottom Cap
24	Lock Washer, Bottom Cap
25	Key, Stem
26	Key, Seat Alignment**
27	Key, Bracket Alignment**
28	Stud, Adapter Bracket
29	Nut, Adapter Bracket
30	Lock Washer, Adapter Bracket
31	Bolt, Gear Operator
32	Gear Operator

*Included in repair part kits
**Not shown



The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operations and Maintenance Manual (IOM) and the most current product information, go to www.milwaukeevalve.com.

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

MILWAUKEE VALVE

TØV Dimensions – Long 3 to 12 Inches
ASME Class 150
Per API 609

3"-12" CLASS 150 LONG									
Valve Size		Valve Dimensions							
		A	B	C	D	ØE B.C.	F Hole	G	H
3	in	8.23	9.61	4.70	1.88	6.00	4 x 5/8-11 UNC-2B	7.99	2.24
	mm	209.0	244.0	122.0	47.7	152.4		203.0	57.0
4	in	9.76	11.22	6.10	2.07	7.50	8 x 5/8-11 UNC-2B	9.02	2.50
	mm	248.0	285.0	155.0	52.7	190.5		229.0	63.5
6	in	11.10	12.83	7.09	2.27	9.50	8 x 3/4-10 UNC-2B	10.51	2.76
	mm	282.0	326.0	180.0	57.7	241.3		267.0	70.0
8	in	14.41	16.34	8.19	2.86	11.75	8 x 3/4-10 UNC-2B	11.50	2.99
	mm	366.0	415.0	208.0	72.7	298.4		292.0	76.0
10	in	15.33	17.36	10.00	3.26	14.25	12 x 7/8-9 UNC-2B	12.99	3.25
	mm	389.5	441.0	254.0	82.7	362.0		330.0	82.5
12	in	18.44	20.47	11.61	3.65	17.00	12 x 7/8-9 UNC-2B	14.02	3.50
	mm	468.5	520.0	295.0	92.7	431.8		356.0	89.0

3"-12" CLASS 150 LONG							
Valve Size		Disc Dimensions		Gear Dimensions			
		J Intrusion	K Chord Diameter	N	P	ØQ	Weight (lbs.)
3	in	N/A	N/A	1.54	4.02	7.87	43
	mm			39	102	200	
4	in	N/A	N/A	2.05	6.57	11.81	66
	mm			52	167	300	
6	in	0.28	2.42	2.44	8.46	15.75	103
	mm	7.0	61.5	62	215	400	
8	in	0.96	5.00	3.11	9.06	19.69	163
	mm	24.5	127.0	79	230	500	
10	in	1.63	7.07	3.50	10.04	23.62	232
	mm	41.5	179.7	89	255	600	
12	in	2.20	8.78	3.50	10.04	23.62	330
	mm	56.0	223.0	89	255	600	

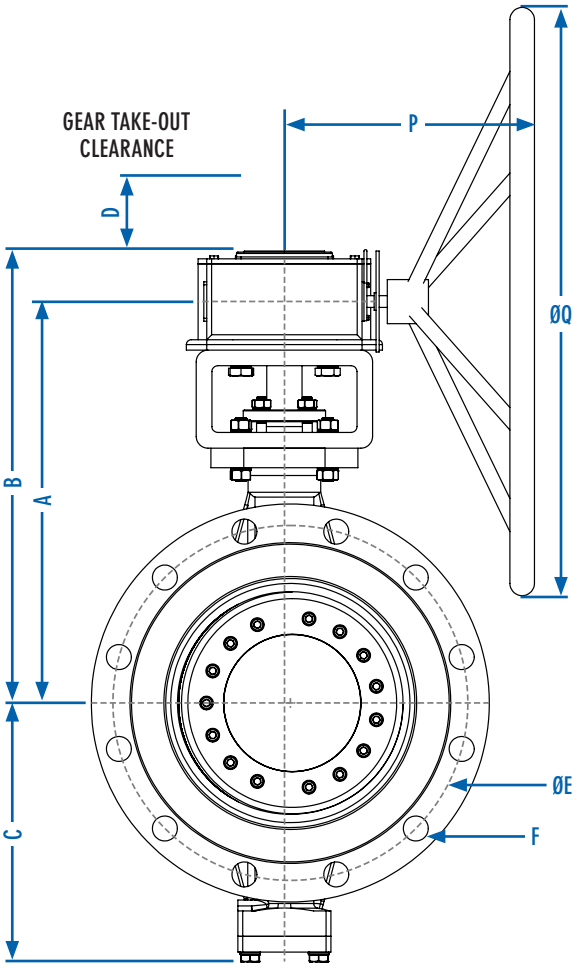
NOTES:
1. Face-to-face dimensions are in strict accordance with ASME B16.10.
2. Flange/end connections are in strict accordance with ASME B16.5.

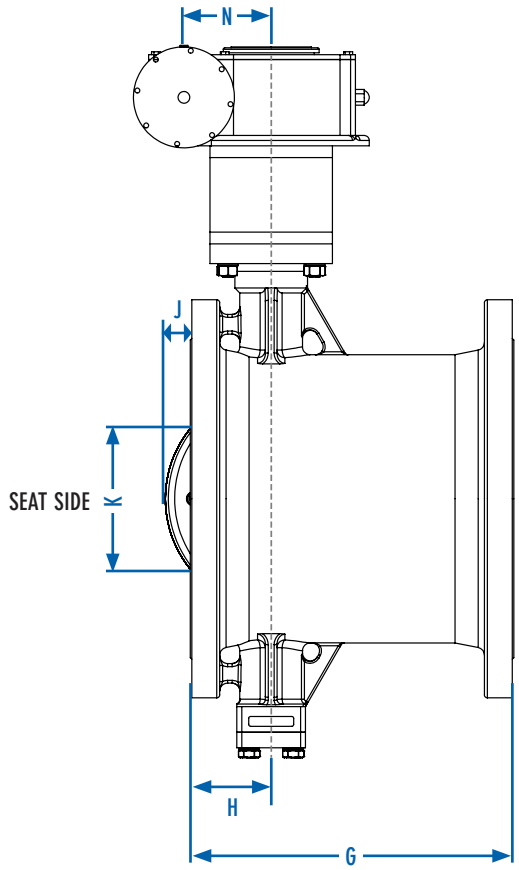
The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operations and Maintenance Manual (IOM) and the most current product information, go to www.milwaukeevalve.com.

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

MILWAUKEE VALVE

TØV Dimensions – Long 3 to 12 Inches
ASME Class 150
Per API 609





The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operations and Maintenance Manual (IOM) and the most current product information, go to www.milwaukeevalve.com.

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

MILWAUKEE VALVE