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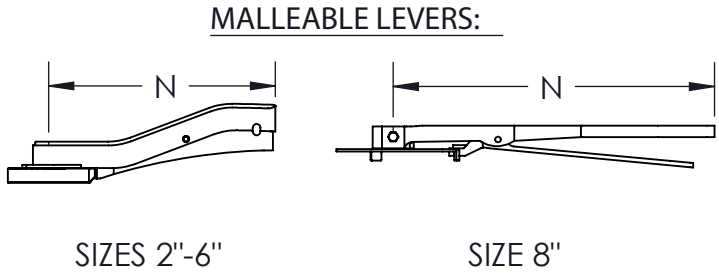
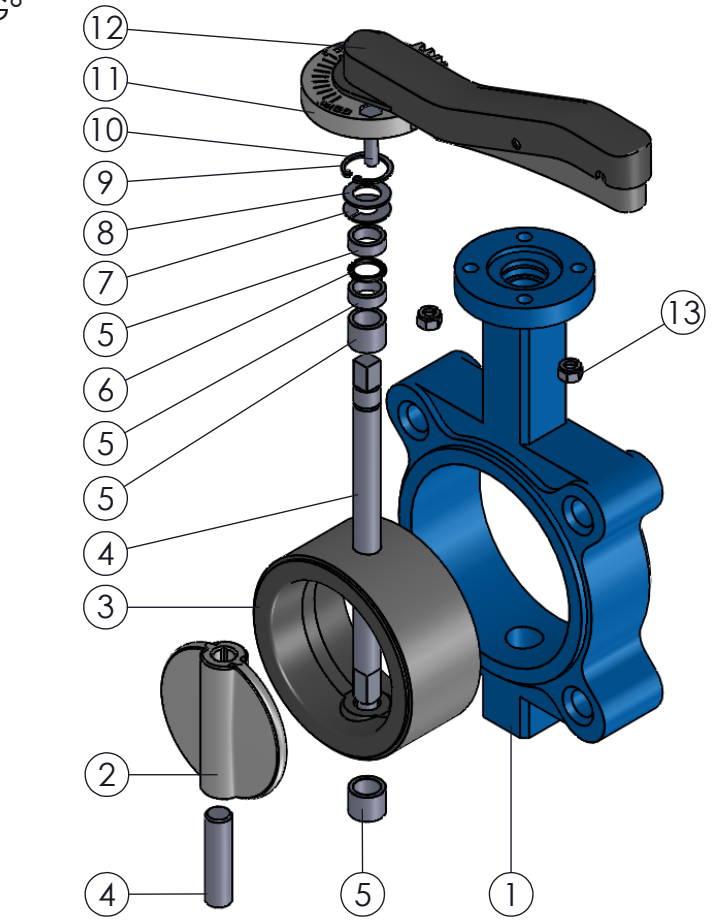
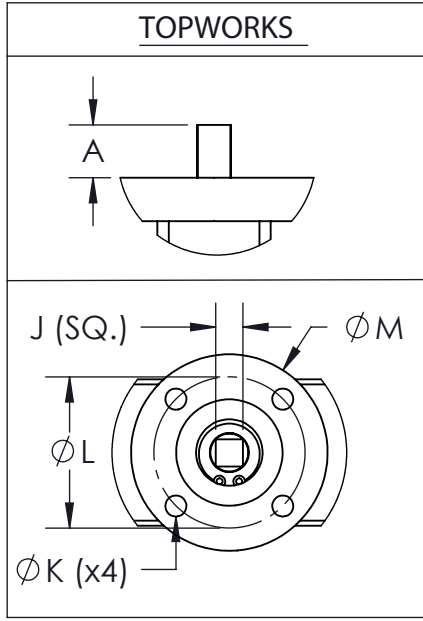
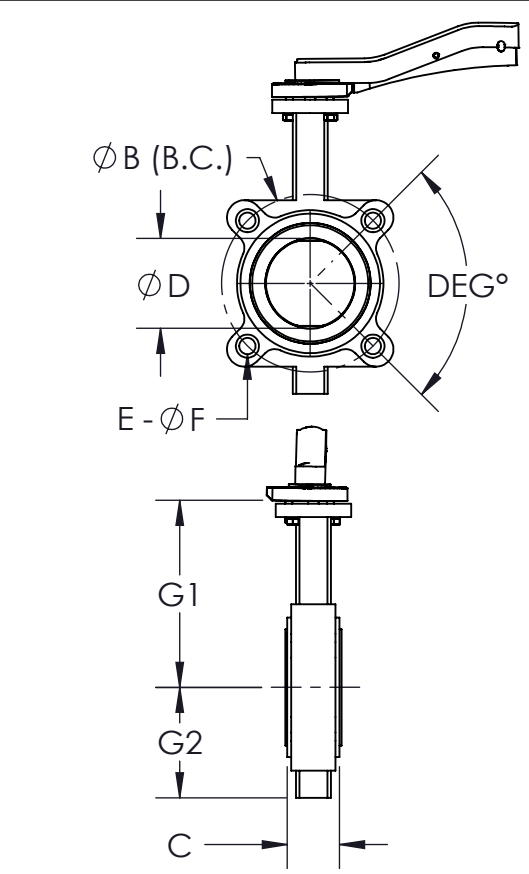
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SIZE	A	B	C	ϕD	E- ϕF	DEG°	G1	G2	J1 (SQ.)	ϕK	ϕL	ϕM	N	ISO 5211	WEIGHT (lbs)	Cv	TORQUE (in-lbf)
2"	0.55 (14)	4.75 (121)	1.69 (43)	2.09 (53)	4-5/8"	90°	5.51 (140)	3.15 (80)	0.35 (9)	0.28 (7)	1.97 (50)	2.56 (65)	7.15 (182)	F05	16	115	123
2-1/2"	0.55 (14)	5.51 (140)	1.77 (45)	2.56 (65)	4-5/8"	90°	5.91 (150)	3.50 (89)	0.35 (9)	0.28 (7)	1.97 (50)	2.56 (65)	7.15 (182)	F05	17	196	136
3"	0.55 (14)	5.98 (152)	1.77 (45)	3.11 (79)	4-5/8"	90°	6.22 (158)	3.74 (95)	0.35 (9)	0.28 (7)	2.76 (70)	2.56 (65)	7.15 (182)	F07	19	302	192
4"	0.55 (14)	7.51 (191)	2.05 (52)	4.09 (104)	8-5/8"	45°	6.89 (175)	4.49 (114)	0.43 (11)	0.39 (10)	2.76 (70)	3.54 (90)	8.90 (226)	F07	23	600	328
6"	0.67 (17)	9.49 (241)	2.20 (56)	6.10 (155)	8-3/4"	45°	8.31 (211)	5.47 (139)	0.55 (14)	0.39 (10)	2.76 (70)	3.54 (90)	8.90 (226)	F07	33	1579	831
8"	0.94 (24)	11.77 (299)	2.36 (60)	8.00 (203)	8-3/4"	45°	9.25 (235)	6.89 (175)	0.67 (17)	0.39 (10)	4.02 (102)	4.92 (125)	13.98 (355)	F10	55	3136	1531

PRODUCT INFORMATION:
1. SEAT MATERIAL AVAILABLE IN: BUNA AND EPDM
2. TEN POSITION LEVER HANDLE
3. GEAR OP AVAILABLE FOR SIZES 6" AND 8"
4. COMPLETE BUTTERFLY VALVE AUTOMATION

APPLICABLE STANDARDS:
1. API 609: DESIGN CODE/ FACE TO FACE
2. ISO 5211: MOUNTING
3. API 598: INSPECTION AND TEST
4. ANSI 150LB: END STANDARD

ITEM NO.	DESCRIPTION	MATERIALS	QTY.
1	BODY	A536	1
2	DISC	A351-CF8M	1
3	SEAT	BUNA EPDM	1
4	SHAFT	410 STAINLESS STEEL	1
5	BUSHING	PTFE	4
6	O-RING	NBR	1
7	ELASTIC WASHER	304 STAINLESS STEEL	1
8	SPACER	304 STAINLESS STEEL	1
9	RETAINER RING	A276-316	1
10	BOLT	304 STAINLESS STEEL	2
11	INDICATOR	A216-WCB	1
12	HANDLE LEVER	MALLEABLE IRON	1
13	NUT	304 STAINLESS STEEL	2

DRAWN BY
E.P.
CHECKED BY
E.G.
APPROVED BY
J.S.
(FOR REV ONLY IF NOT APPROVES)

DATE
05/08/2017
DATE
03/22/2018
DATE
03/22/2018

PROJECTION
THIRD ANGLE:

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DESCRIPTION:
2" - 8" STREAMLINE LUG BUTTERFLY VALVE

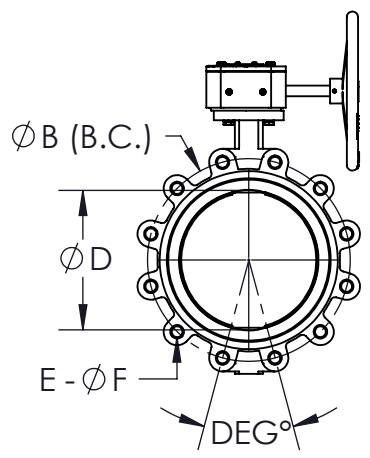
UNITS: INCH (MILLIMETERS)

DATE: 03/22/2018

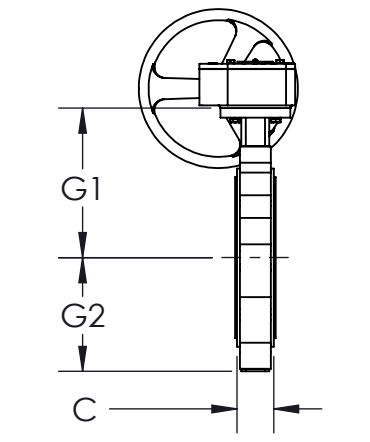
REV: B

SIZE	A	B	C	øD	E-øF	DEG°	G1	G2	J1 (SQ.)	øK	øL	øM	N1	N2	N3	N4	N5	W	ISO 5211	WEIGHT (lbs)	Cv	TORQUE (in-lbf)
10"	0.94 (24)	14.25 (362)	2.68 (68)	9.86 (251)	12-7/8"	30°	10.43 (265)	8.00 (203)	0.87 (22)	0.47 (12)	4.02 (102)	4.92 (125)	9.84 (250)	2.95 (75)	3.39 (86)	2.48 (63)	2.95 (75)	11.80 (300)	F10	91	5340	2531
12"	0.94 (24)	17.00 (432)	3.07 (78)	11.89 (302)	12-7/8"	30°	12.01 (305)	9.53 (242)	0.87 (22)	0.47 (12)	4.02 (102)	4.92 (125)	8.94 (227)	3.19 (81)	3.27 (83)	3.19 (81)	3.19 (81)	11.80 (300)	F10	119	8250	3797

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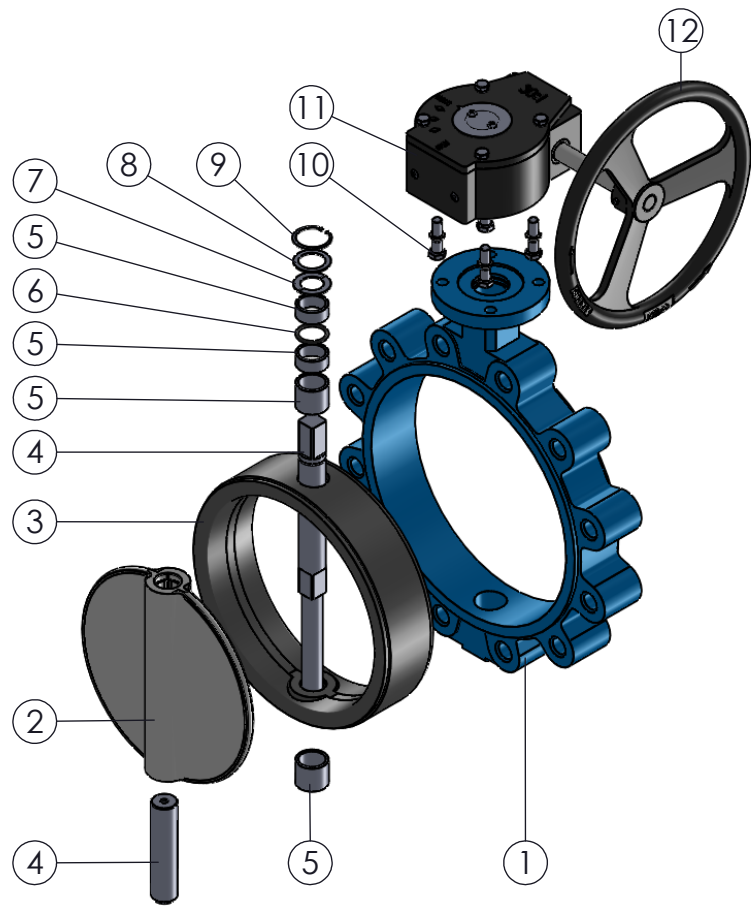


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PRODUCT INFORMATION:
 1. SEAT MATERIAL AVAILABLE IN: BUNA AND EPDM
 2. COMPLETE BUTTERFLY VALVE AUTOMATION

APPLICABLE STANDARDS:
 1. API 609: DESIGN CODE/ FACE TO FACE
 2. ISO 5211: MOUNTING
 3. API 598: INSPECTION AND TEST
 4. ANSI 150LB: END STANDARD

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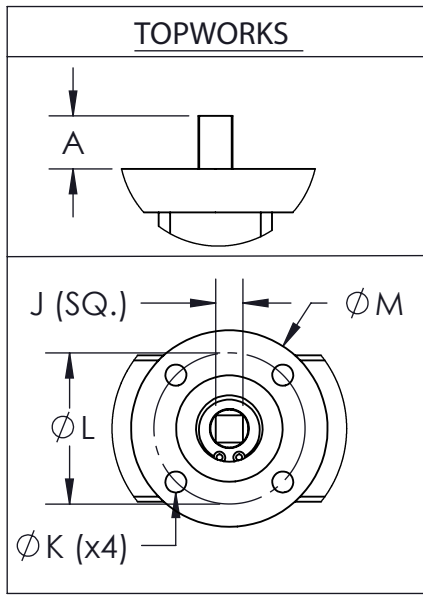
ITEM NO.	DESCRIPTION	MATERIALS	QTY.
1	BODY	A536	1
2	DISC	A351-CF8M	1
3	SEAT	BUNA EPDM	1
4	SHAFT	410 STAINLESS STEEL	1
5	BUSHING	PTFE	4
6	O-RING	NBR	1
7	ELASTIC WASHER	304 STAINLESS STEEL	1
8	SPACER	304 STAINLESS STEEL	1
9	RETAINER RING	A276-316	1
10	BOLT	304 STAINLESS STEEL	4
11	GEAR OP	A48	1
12	HANDWHEEL	A48	1

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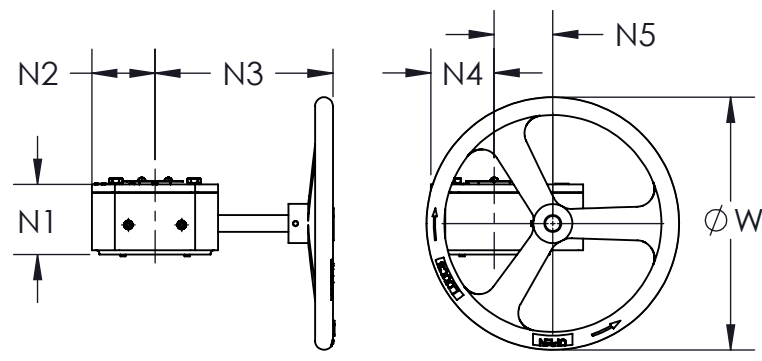
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GEAR OP WITH HANDWHEEL:



DRAWN BY
E.P.
CHECKED BY
E.G.
APPROVED BY
J.S.
(FOR REF ONLY IF NOT APPROVED)

DATE
05/11/2017
DATE
03/22/2018
DATE
03/22/2018

DESCRIPTION:
 10" AND 12" STREAMLINE LUG BUTTERFLY VALVE

UNITS: INCH (MILLIMETERS) DATE: 03/22/2018 REV: B