

CONSULT MH-VALVE.COM OR LOCAL REPRESENTATIIVE FOR DETAILS ON OPTIONAL MATERIALS

OSKALOOSA, IOWA
A DIVISION OF MCWANE INC.

END COVER PLATE O-RING

TAPER PIN O-RING (3)

TAPER PIN WASHER (3)

TAPER PIN BOLT (3)

SHAFT (THRUST SIDE)

SHAFT (OPERATOR)

THRUST BEARING

TAPER PIN (3)

15

16

17

18

19

20

21

DWN: TRIJ

DATE: 9/1/12

DWG. NO.

BMJ-15-14AA

30" & 36"
AWWA C504-STYLE 1450
CLASS 150 BUTTERFLY VALVE
SUB-ASSEMBLY / MATERIAL LIST
MJ X MJ

BUNA-N

BRONZE

BUNA-N

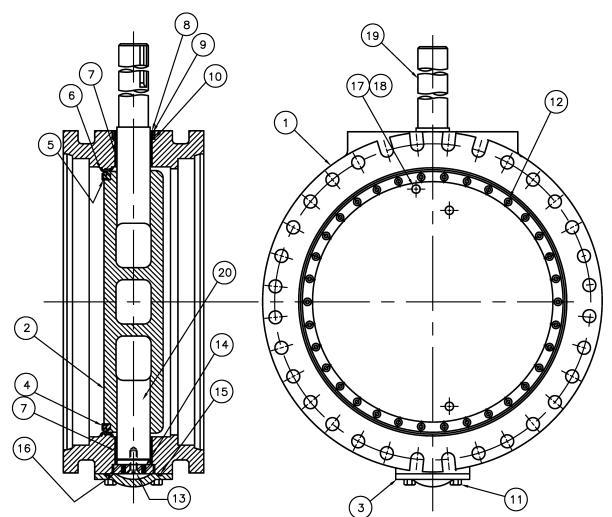
416 STAINLESS STEEL

416 STAINLESS STEEL

304 STAINLESS STEEL

304 STAINLESS STEEL

304 STAINLESS STEEL



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ITEM	DESCRIPTION	MATERIAL
1	BODY, VALVE	DUCTILE IRON, ASTM A-536, GR. 70-50-05 W/304 STN. STL. SEAT
2	VANE	DUCTILE IRON, ASTM A-536 GR. 70-50-05
3	END COVER	DUCTILE IRON, ASTM A-536 GR. 70-50-05
4	SEAT RING, VANE	EPDM
5	CLAMP RING, SEAT	304 STAINLESS STEEL
6	SEALING WASHER	NYLON
7	BUSHING, BODY	FIBERGLIDE
8	CARTRIDGE, SHAFT	BRONZE
9	SEAL, SHAFT	BUNA-N
10	SEAL, CARTRIDGE	BUNA-N
11	BOLT, END COVER	COMMERCIAL STEEL
12	SOCKET SCREW ~ FLAT HEAD	18-8 STAINLESS STEEL W/NYLOK INSERT
13	SOCKET SCREW ~ FLAT HEAD	18-8 STAINLESS STEEL W/NYLOK INSERT
14	SET SCREW ~ FLAT POINT	18-8 STAINLESS STEEL W/NYLOK INSERT
15	END COVER SEAL	BUNA-N
16	THRUST BEARING IP.	BRONZE
17	TAPER PIN	STAINLESS STEEL
18	TAPER PIN BOLT	18-8 STAINLESS STEEL
19	SHAFT (OPERATOR)	304 STAINLESS STEEL
20	SHAFT (THRUST)	304 STAINLESS STEEL

CLOW VALVE COMPANY
OSKALOOSA, IOWA
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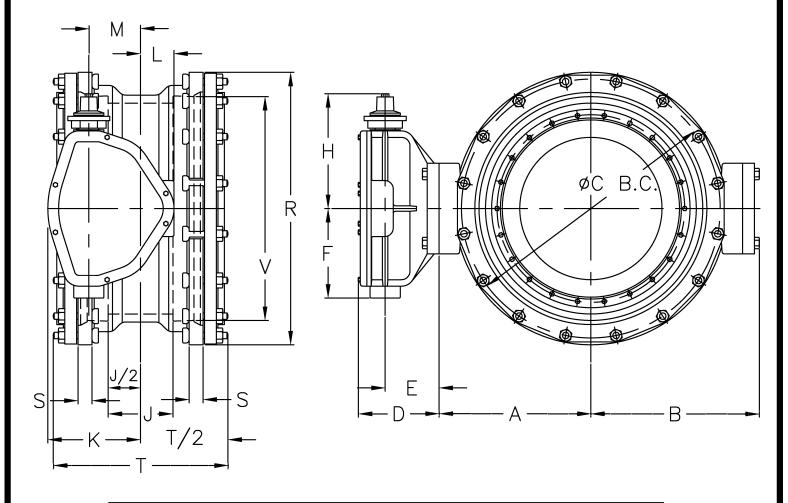
DWN: MMR

DATE: 7/8/11

DWG. NO.

BMJ-15-14AB

42" & 48" STYLE 1450
CLASS 150 BUTTERFLY VALVE
SUB-ASSEMBLY / MATERIAL LIST
(NON-ADJUSTABLE PACKING)
MJ X MJ



		OPERATOR MODEL	D	E	F	н	к	L	М	N
30"&	36"	2200	9 7/16	6 1/4	10 3/8	14 5/16	10 3/4	3 7/8	6	72
42	2"	4350	10 3/16	6 1/16	14 5/16	18	13 5/16	4 3/16	7 1/2	90

VALVE SIZE	Α	В	С	J	Р	Q	R	S	Т	٧	WEIGHT
30"	20 5/8	21 1/2	36 7/8	12	20	1	39 1/8	1 13/16	28 3/8	32.22	2300
36"	24 1/8	25 1/16	43 3/4	12	24	1	46	2	28 3/8	38.47	2840
42"	28	28 7/8	50 5/8	12	28	1 1/4	53 1/8	2	28 3/8	44.67	4405

NOTE 1: FLOW MAY BE IN EITHER DIRECTION

NOTE 2: VALVE SHAFT WILL MEET OR EXCEED REQUIREMENTS OF SHAFT TABLE PER AWWA STANDARD C-504 FOR APPLICABLE CLASS.

NOTE 3: REFERENCE AWWA C-111 (A.N.S.I. A21-11)

NOTE 4: "N" = NUMBER OF TURNS TO CLOSE

NOTE 5: "P" = NUMBER OF BOLTS ON EACH FLANGE

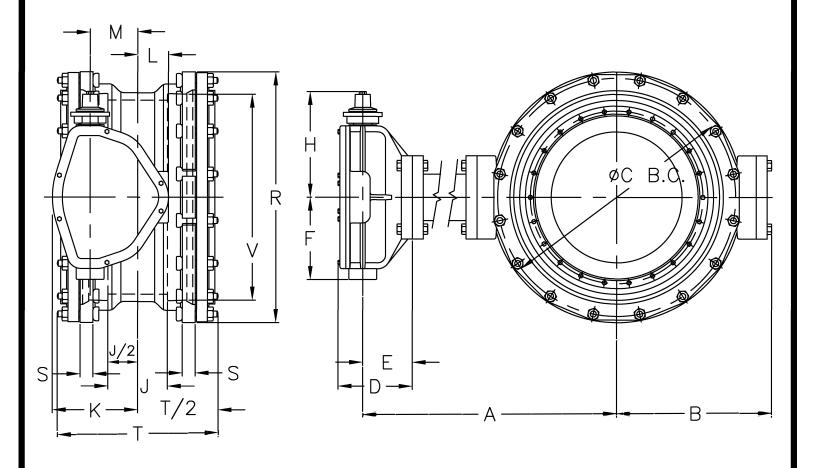
NOTE 6: "Q" = DIAMETER OF BOLTS

NOTE 7: OPERATED BY 2" AWWA OPERATING / WRENCH NUT
NOTE 8: GASKET, GLANDS, BOLTS, FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER
NOTE 9: 2200 OPERATOR ON 30" & 36"—4350 OPERATOR ON 42"

CLOW VALVE COMPANY OSKALOOSA, IOWA A DIVISION OF MCWANE INC.

DWN: TRIJ DATE: 8/9/11 DWG. NO.

30" THRU 42" STYLE 1450 CLASS 150 BUTTERFLY VALVE BURIED OPERATOR BMJ - 15 - 14B MJ X MJ



	OPERATOR MODEL	D	E	F	Н	К	L	М	N
30"& 36"	2200	9 7/16	6 1/4	10 3/8	14 5/16	10 3/4	3 7/8	6	72
42"	4350	10 3/16	6 1/16	14 5/16	18	13 5/16	4 3/16	7 1/2	90

VALVE SIZE	Α	В	С	J	Р	Q	R	S	Т	V	WEIGHT
30"	NOTE AA	21 1/2	36 7/8	12	20	1	39 1/8	1 13/16	28 3/8	32.22	2300
36"	NOTE AA	25 1/16	43 3/4	12	24	1	46	2	28 3/8	38.47	2840
42"	NOTE AA	28 7/8	50 5/8	12	28	1 1/4	53 1/8	2	28 3/8	44.67	4405

NOTE 1: FLOW MAY BE IN EITHER DIRECTION

NOTE 2: VALVE SHAFT WILL MEET OR EXCEED REQUIREMENTS OF SHAFT TABLE PER AWWA STANDARD C-504 FOR APPLICABLE CLASS.

NOTE 3: REFERENCE AWWA C-111 (A.N.S.I. A21-11)

NOTE 4: "N" = NUMBER OF TURNS TO CLOSE

NOTE 5: "P" = NUMBER OF BOLTS ON EACH FLANGE

NOTE 6: "Q" = DIAMETER OF BOLTS

NOTE 7: OPERATED BY 2" AWWA OPERATING / WRENCH NUT NOTE 8: GASKET, GLANDS, BOLTS, FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER NOTE 9: 2200 OPERATOR ON 30" & 36"—-4350 OPERATOR ON 42"

NOTE 10: MAXIMUM LENGTH OF TORQUE TUBE (15 FEET)——BONNET SUPPORTS SHOULD BE USED ON ALL BONNETS EXCEEDING 6 FEET CENTERLINE OF VALVE TO CENTERLINE OF OPERATOR. ALL BONNET SUPPORTS SHALL BE SUPPLIED BY CUSTOMER

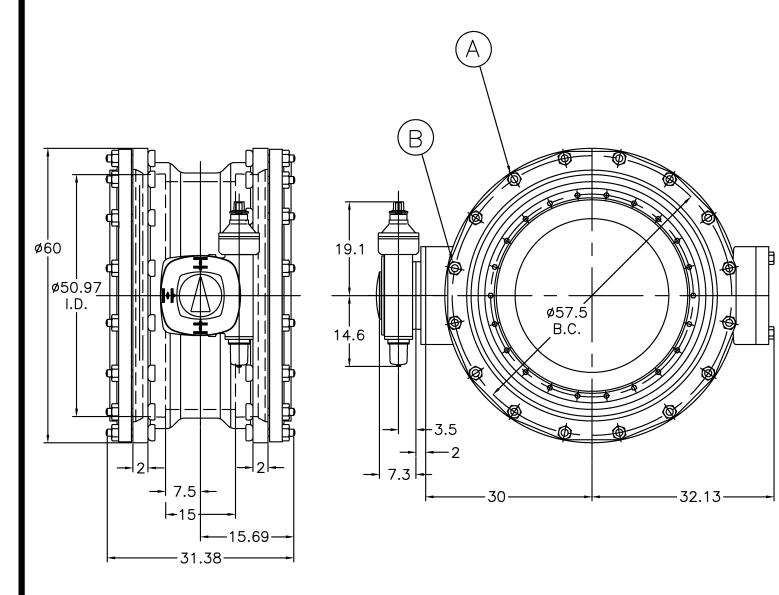
NOTE AA: "A" VARIES TO ENGINEER SPECIFICATIONS

*NOTE AB: APPROXIMATE WEIGHT PER EACH FOOT OF EXTENDED BONNET 150lbs (30"-42")

CLOW VALVE COMPANY OSKALOOSA, IOWA A DIVISION OF MCWANE INC.

DWN:	TRIJ
DATE:	8/9/11
DWG.	NO.
lamu-	-15 - 140

30" THRU 42" STYLE 1450 CLASS 150 BUTTERFLY VALVE WITH EXTENDED BONNET BURIED OPERATOR MJ X MJ



NOTE 1: FLOW MAY BE IN EITHER DIRECTION

NOTE 2: VALVE SHAFT WILL MEET OR EXCEED REQUIREMENTS OF SHAFT TABLE PER AWWA STANDARD C-504 FOR APPLICABLE CLASS.

NOTE 3: REFERENCE AWWA C-504-B

NOTE 4: NUMBER OF TURNS TO CLOSE = 108

NOTE 5: OPERATED BY 2" AWWA OPERATING / WRENCH NUT

NOTE 6: A = (32) Ø1.25" BOLTS PER FLANGE

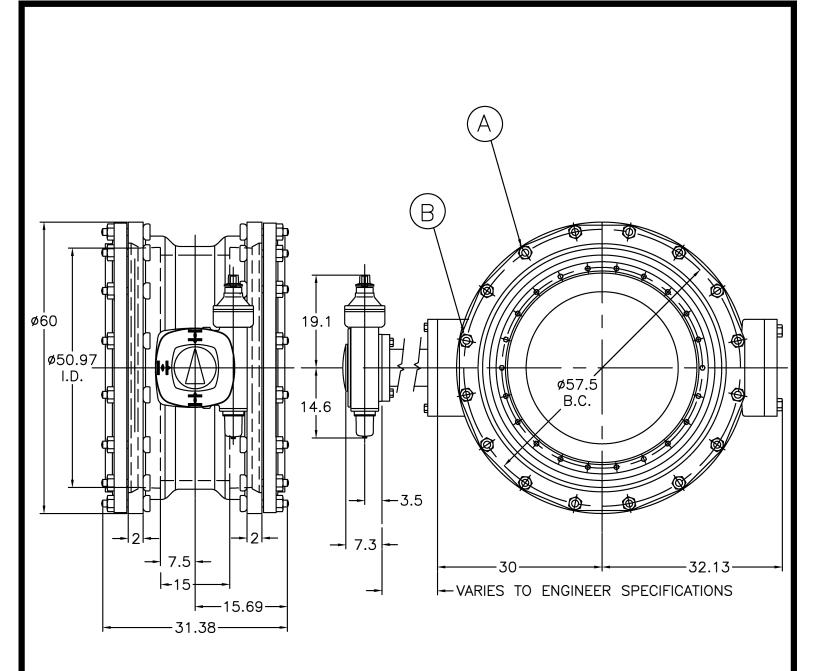
NOTE 7: B = (8) 1.38 SLOTTED HOLES EACH FLANGE NOTE 8: APPROXIMATE WEIGHT = 6300lbs.

CLOW VALVE COMPANY OSKALOOSA, IOWA

A DIVISION OF MCWANE INC.

DWN:	TRIJ
DATE:	8/25/11
DWG.	NO.
BMJ-	-15-AA

48" STYLE 1450 CLASS 150 BUTTERFLY VALVE (AUMA GS200.3/GZ200.3:8 GEAR BOX) BURIED OPERATOR X MJ ENDS



- NOTE 1: FLOW MAY BE IN EITHER DIRECTION
- NOTE 2: VALVE SHAFT WILL MEET OR EXCEED REQUIREMENTS OF SHAFT TABLE PER AWWA STANDARD C-504 FOR APPLICABLE CLASS.

 NOTE 3: REFERENCE AWWA C-504-B

 NOTE 4: NUMBER OF TURNS TO CLOSE = 108

 NOTE 5: OPERATED BY 2" AWWA OPERATING / WRENCH NUT

 NOTE 6: A = (32) Ø1.25" BOLTS PER FLANGE

- NOTE 7: B = (8) 1.38 SLOTTED HOLES EACH FLANGE
- NOTE 8: RATED AND TESTED TO 150 PSI WORKING PRESSURE
- NOTE 9: APPROXIMATE WEIGHT = 6300lbs.

CLOW		V۸	LVE	E CC	COMPANY		
	OSKALOOSA, IOWA						
Α	DIVISI	ON	OF	MCW	ANE	INC.	

DWN: TRIJ	48" STYLE 1450
DATE: 8/25/11	CLASS 150 BUTTERFLY VALVE
DWG. NO. BMJ-15-AA2	CLASS 150 BUTTERFLY VALVE (AUMA GS200.3/GZ200.3:8 GEAR BOX) BURIED OPERATOR & EXTENDED BONNET MJ X MJ ENDS