

- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 NUMBER OF TURNS TO CLOSE
- 5. 8 BOLTS ON FLANGE, 6 BOLTS ON MJ
- 6. 3/4" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE

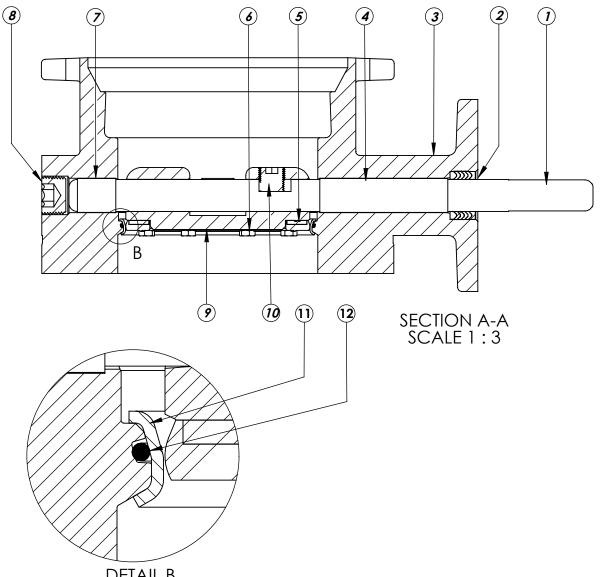
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KENNEDY VALVE
Division of McWane, Inc.
1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DRAWN: CTJ
DATE: 11/26/2018
DWG.
NO. BO6XAM11

6" - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection-FMJ ENDS - Buried Operator

 $\emptyset 11 \frac{1}{16}$ "



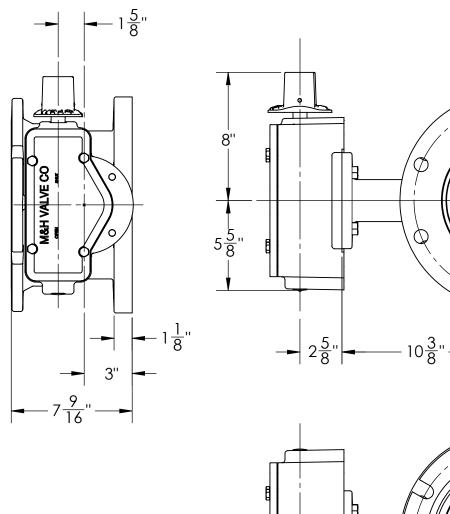
DETAIL B SCALE 2:1

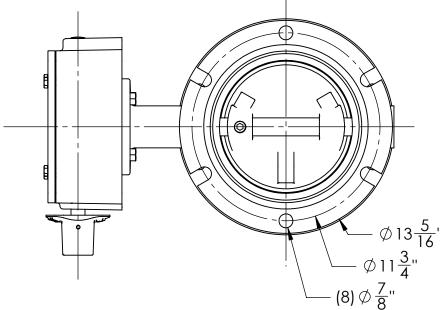
ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT with SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH
7	LOWER JOURNAL BEARING	NYLATRON
8	BFV BODY END PLUG	STEEL
9	BFV VANE	DUCTILE IRON ASTM A-536
10	VANE SHAFT TORQUE PLUG	18-8 STAINLESS STEEL
11	BODY SEAT RING	316 STAINLESS STEEL
12	BODY SEAT O-RING	BUNA-N

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KENNEDY VALVE Division of McWane, Inc. 1021 EAST WATER STREET ELMIRA, NEW YORK 14901

drawn: ZF DATE: 1/6/17 DWG. B06XBB11 6" AWWA C504 - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection Sub-Assembly - Material List FMJ ENDS





 $- \emptyset 13\frac{1}{2}$ "

— ∅113" B.C.

- (8) $\emptyset \frac{7}{8}$ "

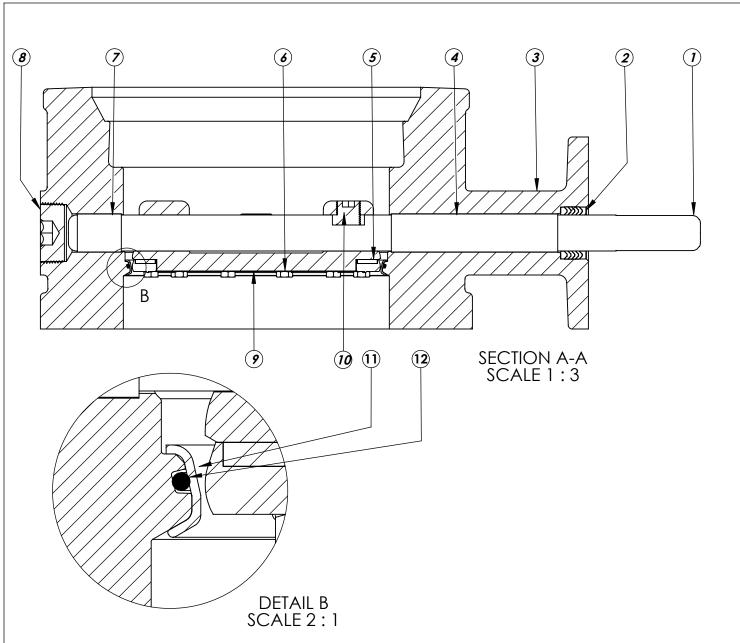
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 TURNS TO CLOSE
- 5. 8 BOLTS ON FLANGE SIDE, 6 ON MJ SIDE
- 6. 3/4" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE

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KENNEDY VALVE
Division of McWane, Inc.
1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DRAWN: CTJ
DATE: 11/26/2018
DWG.
NO. BO8XAM11

8" - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection-FMJ ENDS - Buried Operator



ITEM NO.	DESCRIPTION	MATERIAL					
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276					
2	V-RING PACKING SET	EPDM, BUNA-N					
3	BFV BODY	DUCTILE IRON ASTM A-536					
4	UPPER JOURNAL BEARING	NYLATRON					
5	VANE SEAT RING	EPT with SS INSERT					
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH					
7	LOWER JOURNAL BEARING	NYLATRON					
8	BFV BODY END PLUG	STEEL					
9	BFV VANE	DUCTILE IRON ASTM A-536					
10	VANE SHAFT TORQUE PLUG	18-8 STAINLESS STEEL					
11	BODY SEAT RING	316 STAINLESS STEEL					
12	BODY SEAT O-RING	BUNA-N					

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KENNEDY VALVE

Division of McWane, Inc.

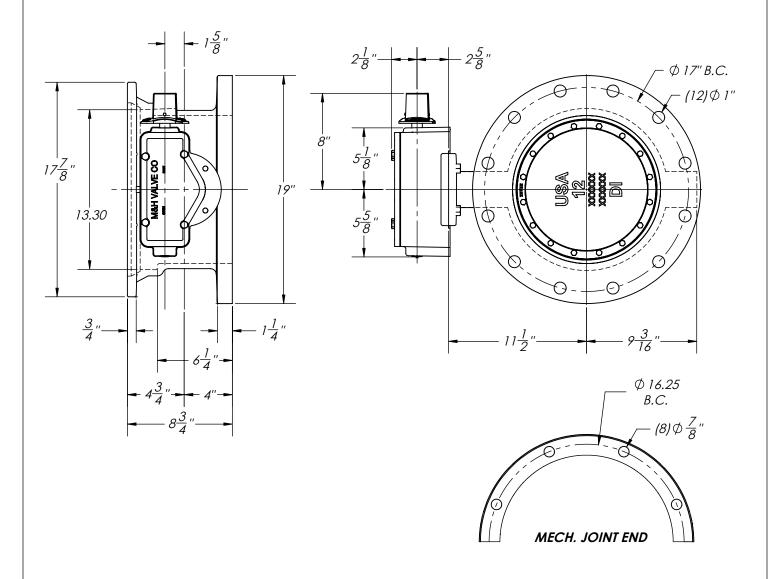
1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DRAWN: ZF

DATE: 1/9/17

DWG.
NO. BO8XBB11

8" AWWA C504 - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection Sub-Assembly - Material List FMJ ENDS



- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 TURNS TO CLOSE
- 5. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 6. RATED AND TESTED FOR 150psi WORKING PRESSURE
- 7. 7/8" DIA. BOLTS FOR FLANGED SIDE, 3/4" DIA. BOLTS FOR MJ SIDE
- 8. GASKET, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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KENNEDY VALVE

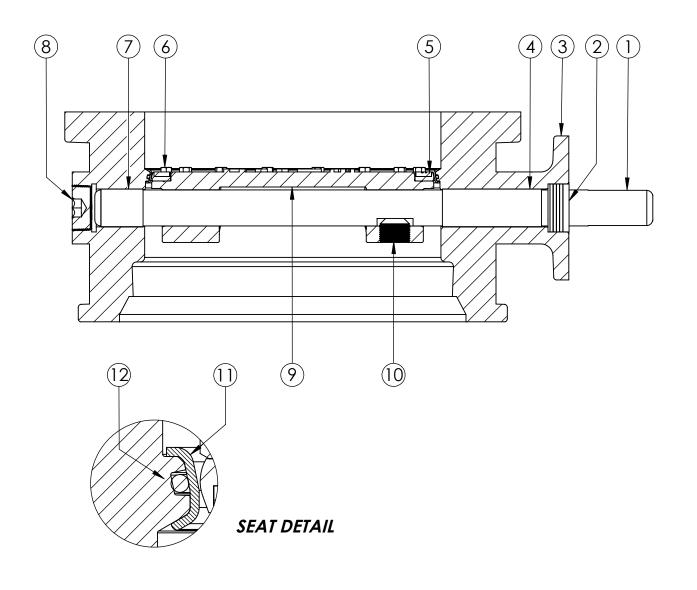
Division of McWane, Inc.

1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DRAWN: CTJ
DATE: 11/26/2018
DWG. NO.

B12XAM11

12" - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection-FLANGED x MECH. JOINT - Buried Operator

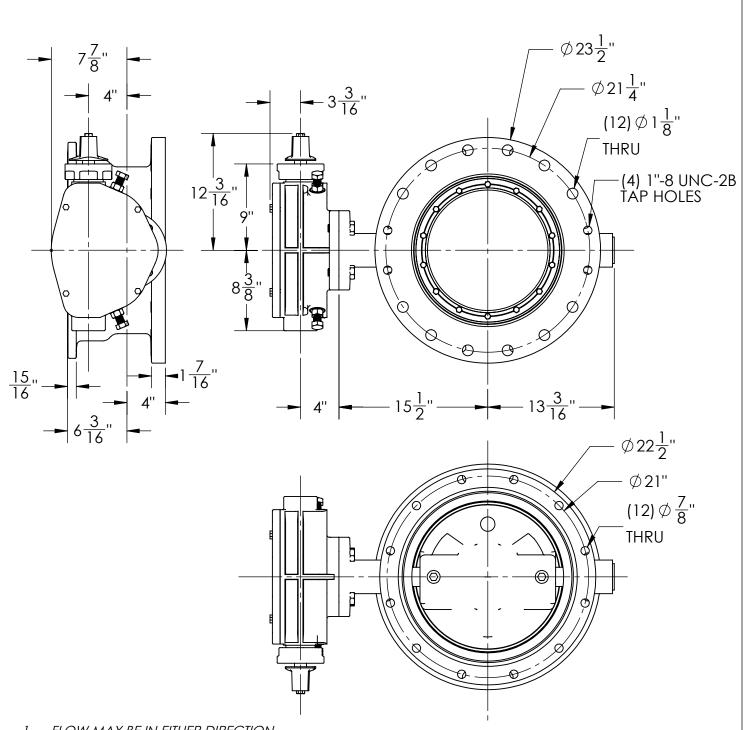


ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT with SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH
7	LOWER JOURNAL BEARING	NYLATRON
8	BFV BODY END PLUG	STEEL
9	BFV VANE	DUCTILE IRON ASTM A-536
10	VANE SHAFT TORQUE PLUG	18-8 STAINLESS STEEL
11	BODY SEAT RING	316 STAINLESS STEEL
12	BODY SEAT O-RING	BUNA-N

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KENNEDY VALVE Division of McWane, Inc. 1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DRAWN: CTJ **DATE:** 8/10/2018 B12XBB11 12" AWWA C504 - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection Sub-Assembly - Material List FLANGED by MECHANICAL JOINT



- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
- 3. 48 TURNS TO CLOSE
- 4. 16 BOLTS ON FLANGE SIDE, 12 ON MJ SIDE
- 5. 1" DIA. BOLTS FOR FLANGED SIDE, 3/4" DIA. BOLTS FOR MJ SIDE
- 6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 7. RATED AND TESTED FOR 150psi WORKING PRESSURE
- 8. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER
- 9. WEIGHT OF VALVE IS 450 LBS.

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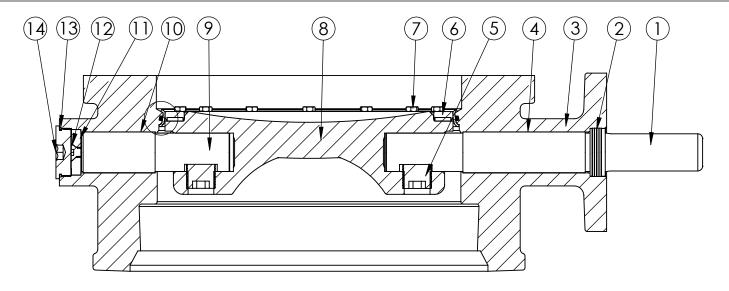
KENNEDY VALVE
Division of McWane, Inc.
1021 EAST WATER STREET ELMIRA, NEW YORK 14901

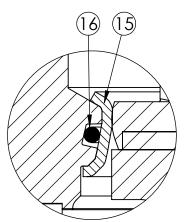
DRAWN: CTJ

DATE: 11/26/2018

DWG.
NO. B16XAM11

16" - Style 4500 - CL150 BFV with F/A16 MSS/ISO Connection-FE x FE ENDS - Buried Operator





SEAT DETAIL

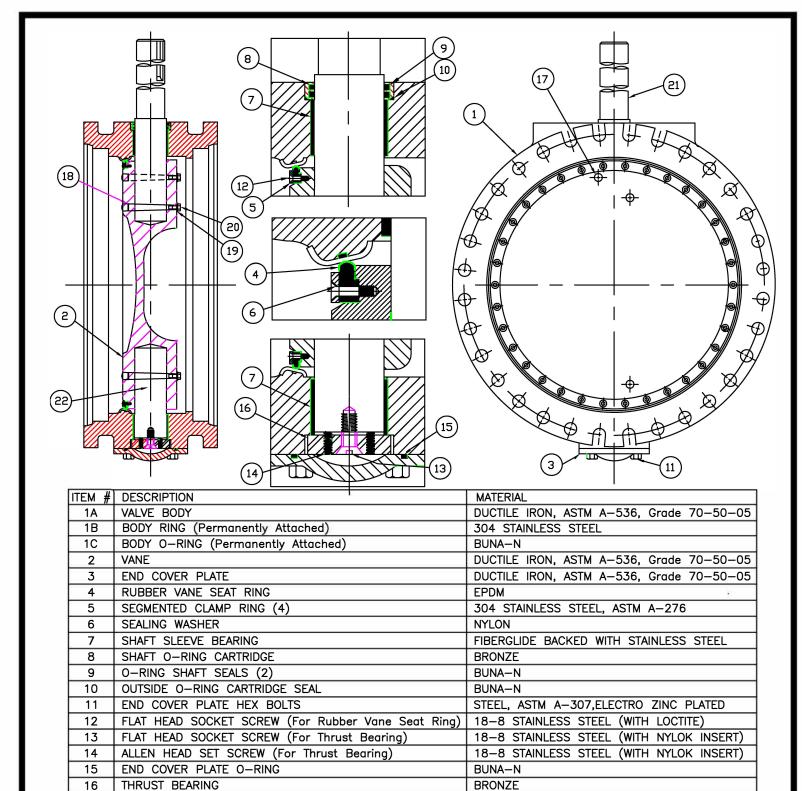
ITEM NO.	DESCRIPTION	MATERIAL
1	OPERATOR SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	FIBER & REINFORCED TEFLON
5	TORQUE PLUG	304 STAINLESS STEEL, ASTM A-276
6	VANE SEAT RING	EPT W/ STAINLESS STEEL INSERT
7	HEX HEAD CAP SCREW	18-8 STAINLESS STEEL W/ NYLOC PATCH
8	BFV VANE	DUCTILE IRON ASTM A-276
9	THRUST SHAFT	304 STAINLESS STEEL, ASTM A-276
10	LOWER JOURNAL BEARING	FIBER & REINFORCED TEFLON
11	THRUST BEARING	BRONZE ALLOY
12	THRUST BEARING CAP SCREW	18-8 STAINLESS STEEL
13	BODY END PLUG O-RING	BUNA-N
14	BODY END PLUG	STEEL
15	BODY SEAT RING	316 STAINLESS STEEL
16	BODY SEAT O-RING	BUNA-N

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KENNEDY VALVE Division of McWane, Inc. 1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DRAWN: ZF DATE: 8/31/2018 DWG. B16XBB11

16" AWWA C504 - STYLE 4500 - CL150 BFV w/ F/A16 MSS/ISO CONNECTION SUB-ASSEMBLY - MATERIAL LIST FMJ ENDS



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



17

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KENNEDY VALVE

TAPER PIN (3)

TAPER PIN O-RING (3)

TAPER PIN WASHER (3)

TAPER PIN BOLT (3)

SHAFT (THRUST SIDE)

SHAFT (OPERATOR)

Division of McWane, Inc.
1021 EAST WATER STREET ELMIRA, NEW YORK 14901

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

416 STAINLESS STEEL

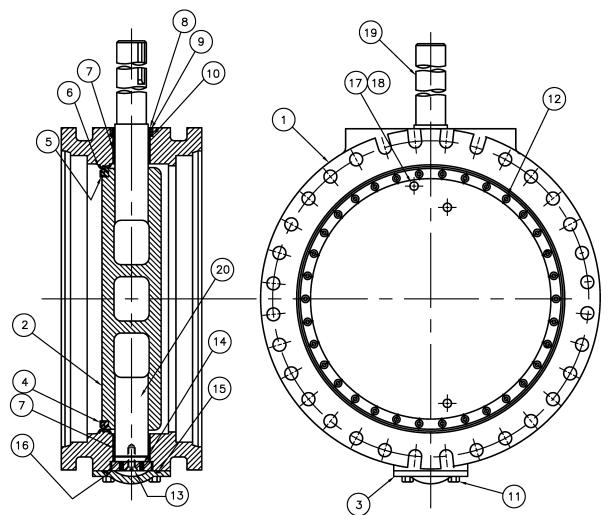
416 STAINLESS STEEL

304 STAINLESS STEEL

304 STAINLESS STEEL

304 STAINLESS STEEL

BUNA-N



_		
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



KENNEDY VALVE

Division of McWane, Inc.
1021 EAST WATER STREET ELMIRA, NEW YORK 14901

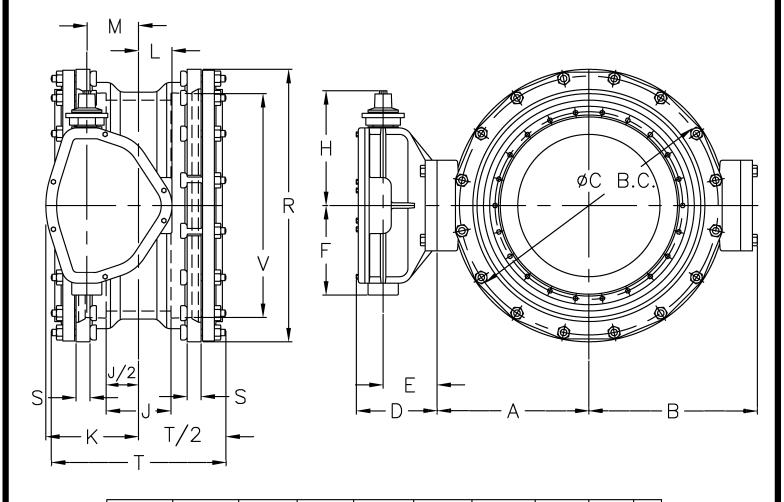
DWN: MMR

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"	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 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

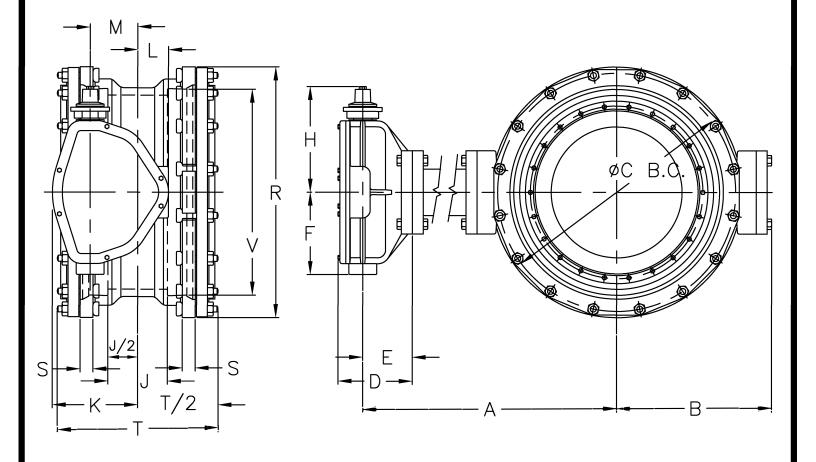
NOTE 6: "Q" = DIAMETER OF BOLTS

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"



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 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")



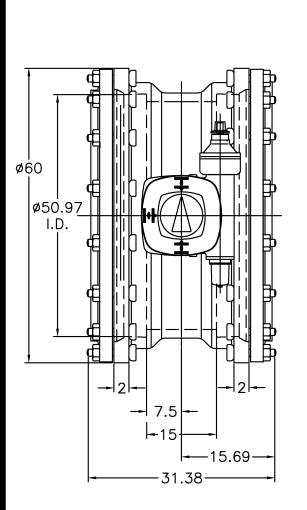
KENNEDY VALVE

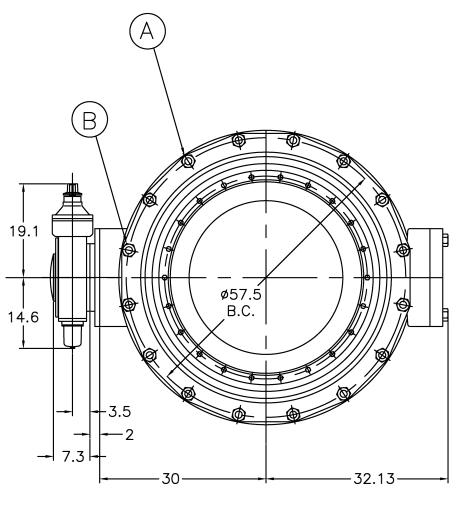
Division of McWane, Inc. 1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DWN: TRIJ DATE: 8/9/11 DWG. NO. BMJ-15-14C

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

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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

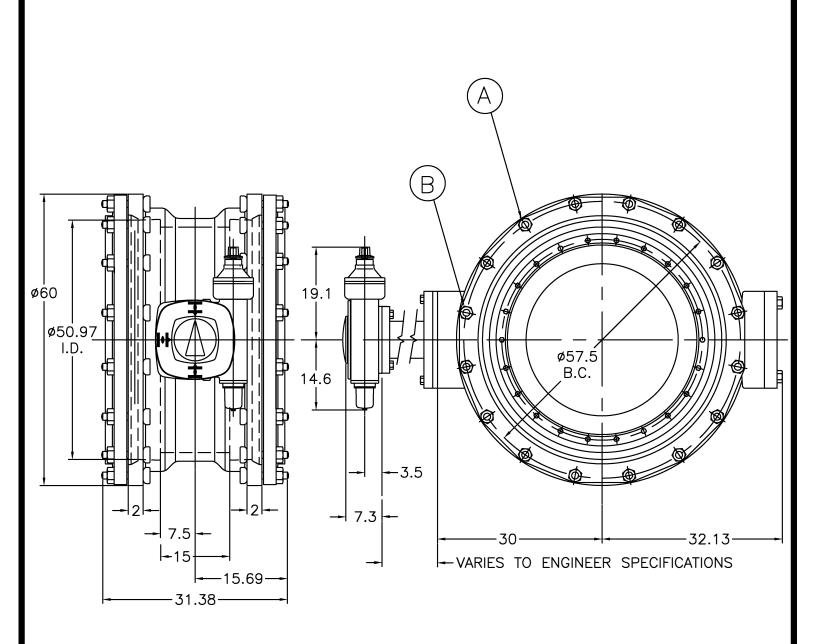
NOTE 7: B = (8) 1.38 SLOTTED HOLES EACH FLANGE NOTE 8: APPROXIMATE WEIGHT = 6300lbs.



KENNEDY VALVE

Division of McWane, Inc. 1021 EAST WATER STREET ELMIRA, NEW YORK 14901

DWN: TRIJ 8/25/11 DATE: 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 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: $A = (32) \emptyset 1.25$ " BOLTS PER FLANGE

NOTE 7: B = (8) 1.38 SLOTTED HOLES EACH FLANGE

NOTE 8: RATED AND TESTED TO 250 PSI WORKING PRESSURE

NOTE 9: APPROXIMATE WEIGHT = 6300lbs.



DWN: TRIJ DATE: 8/25/11 DWG. NO. BMJ-15-AA2

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