

ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	630 STAINLESS STEEL, ASTM A-564
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 W/ SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL W/ 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 O-RING	BUNA-N
13	ISO FA12 SEAL (FOR BOUGHT OPER.)	COMMERCIAL STEEL

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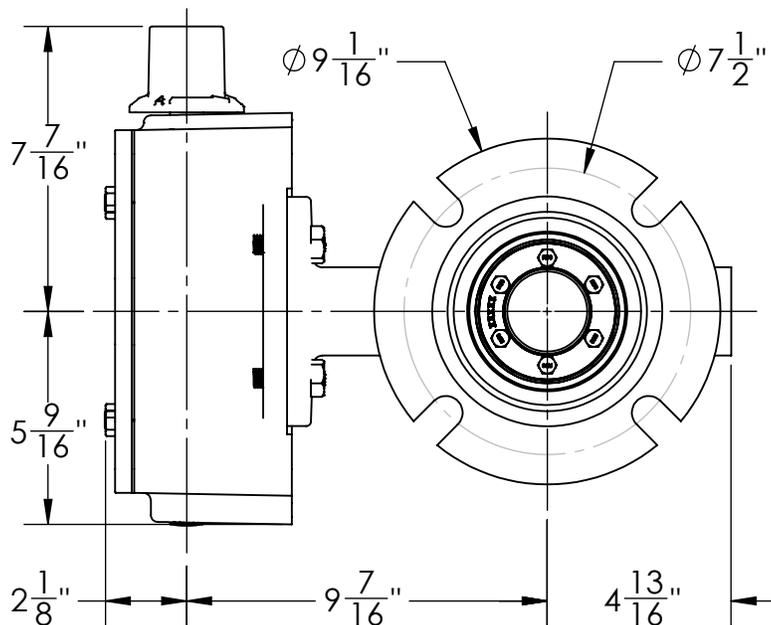
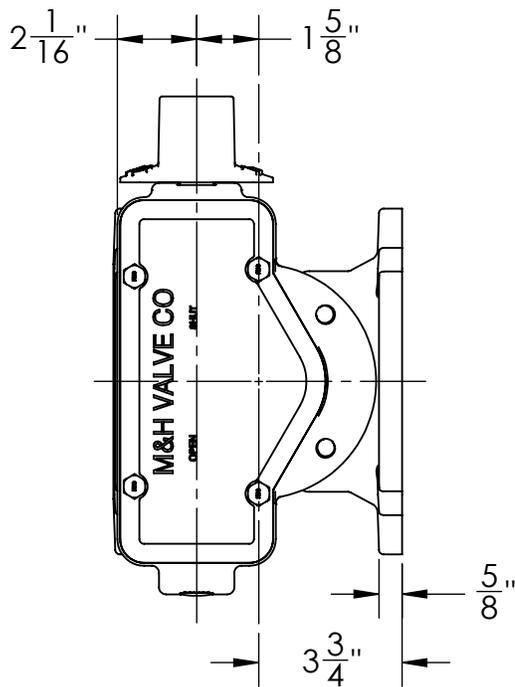
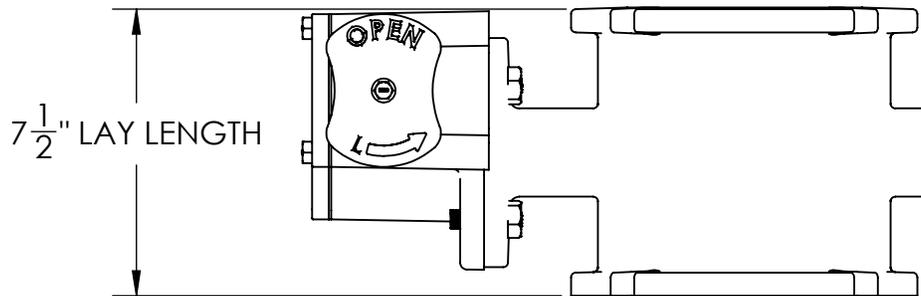


M&H VALVE COMPANY

A DIVISION OF McWANE INC.
P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BB04-M3-B01-000

**4" AWWA C504 - Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
MECHANICAL JOINT END**



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEE AWWA C504 REQUIREMENTS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 29 TURNS TO CLOSE
5. (4) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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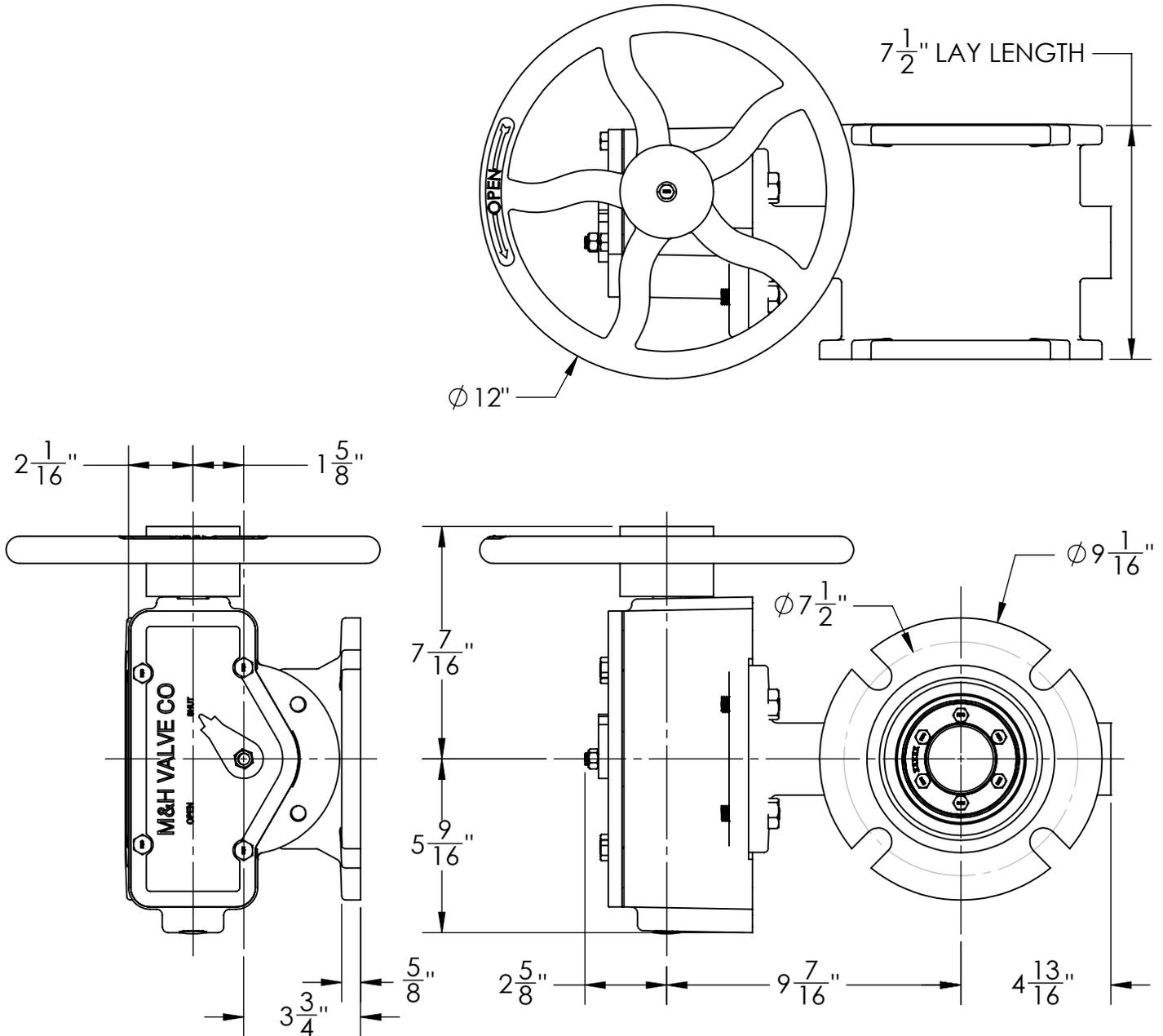


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ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 6/30/2020
DWG. NO.
BD04-M3-M11-000

**4" Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
Buried Operator OPEN LEFT
MJ End Connection**



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEE AWWA C504 REQUIREMENTS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 29 TURNS TO CLOSE
5. (4) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 12" HANDWHEEL
7. RATED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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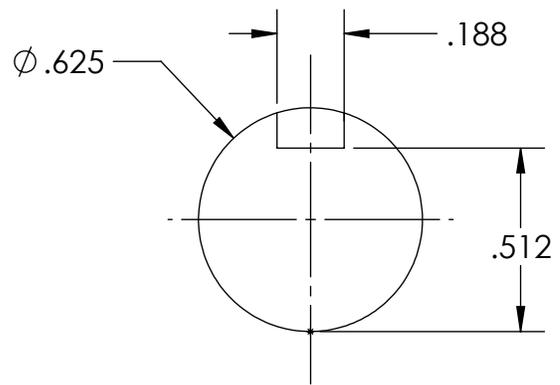
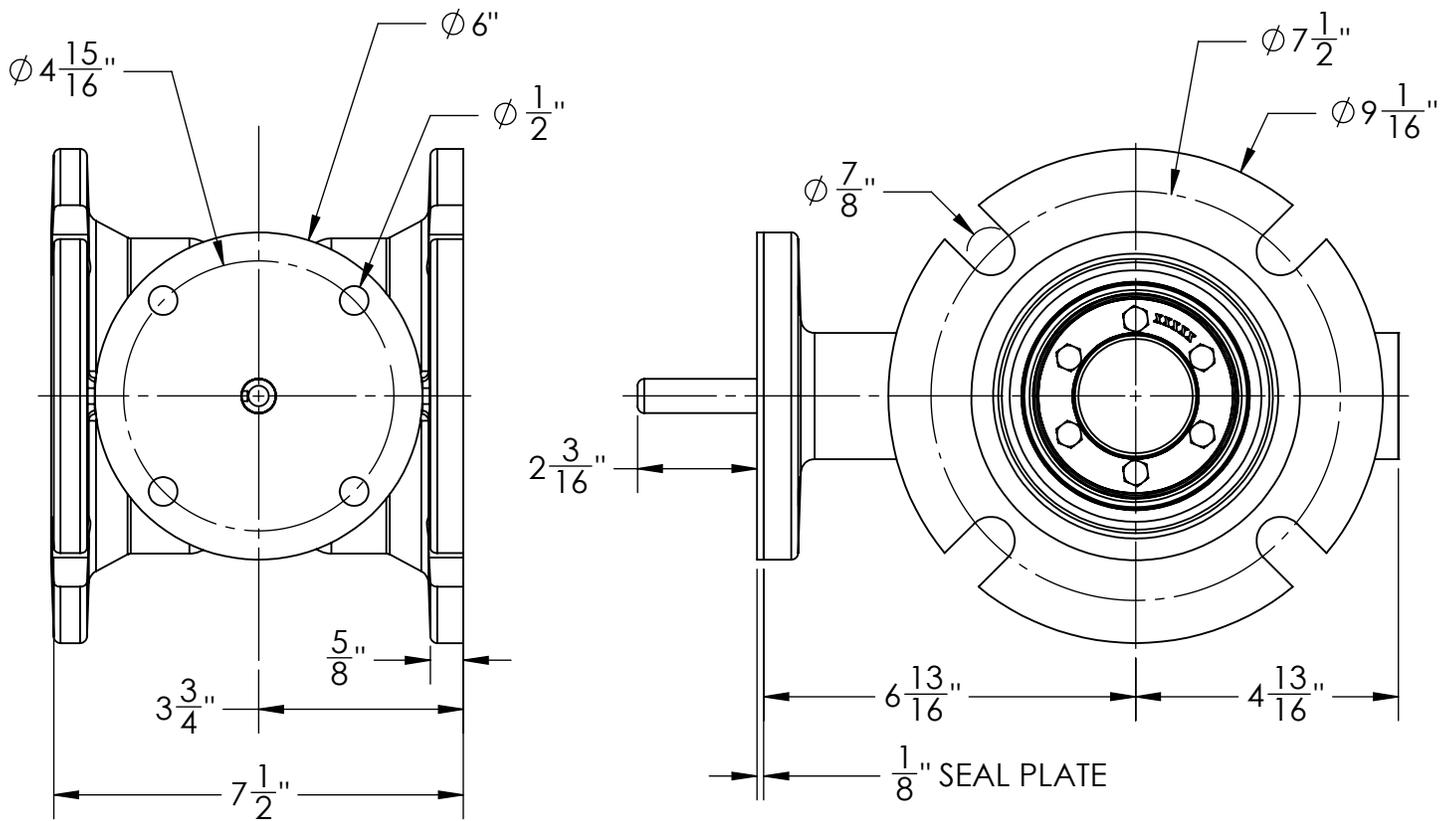


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DRAWN: CTJ
DATE: 6/30/2020
DWG. NO.
BD04-M3-M31-000

**4" - Style 4500 BFV - RATED CL250
W/ F/A 12 MSS/ISO Connection-
HANDWHEEL OPERATOR - OPEN LEFT
MECHANICAL JOINT ENDS**



SHAFT/KEYWAY DIM.

1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEE AWWA C504 REQUIREMENTS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 4 BOLTS ON EACH FLANGE
5. 3/4" DIAMETER OF BOLTS
6. RATED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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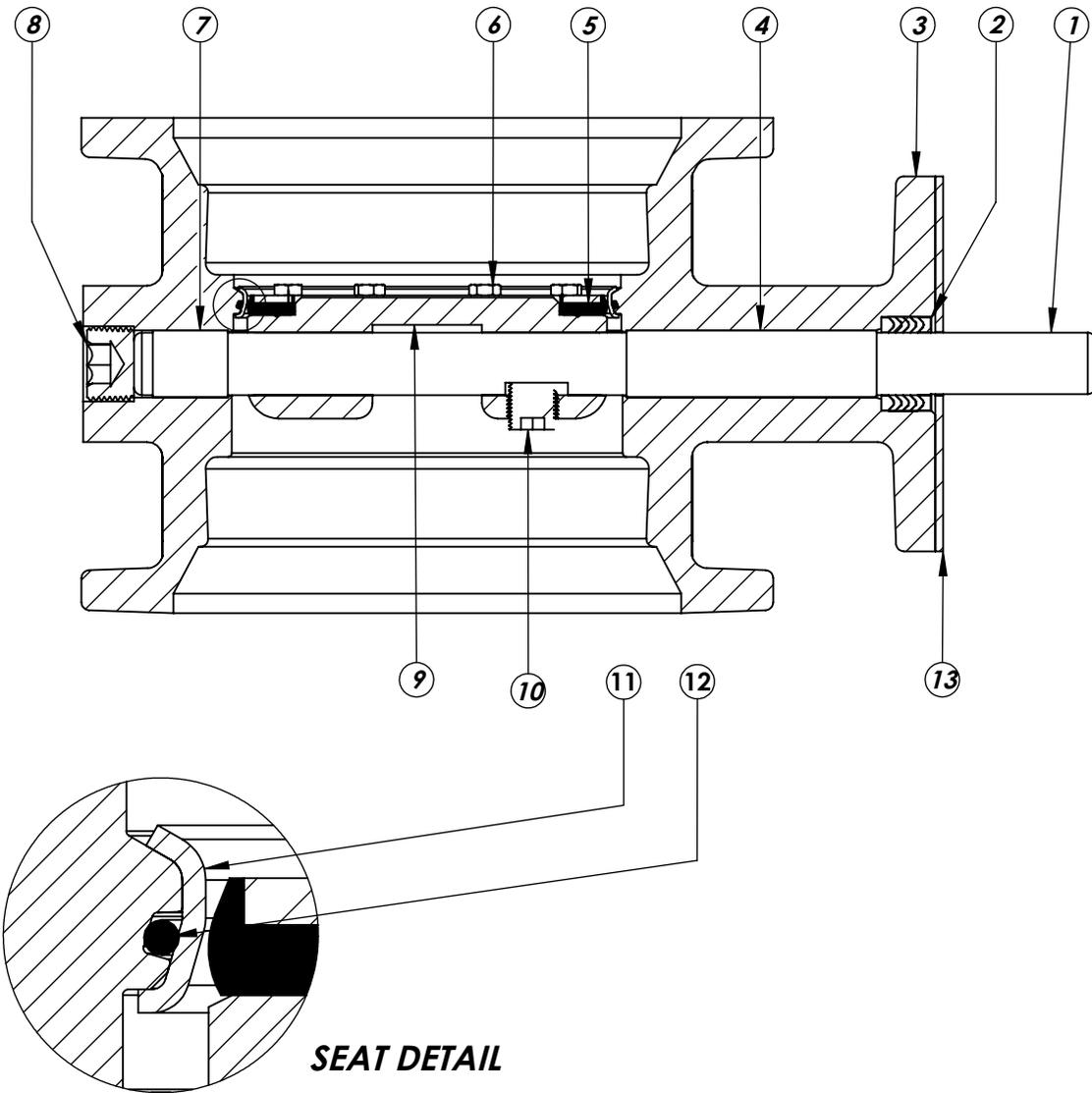


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ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD04-M3-B01-000

4" AWWA C504 - STYLE 4500
RATED CL250
BFV W/ F/A 12 MSS/ISO Connection
MECHANICAL JOINT ENDS - BARE STEM



ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	630 STAINLESS STEEL, ASTM A-564
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 W/ SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL W/ 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 O-RING	BUNA-N
13	ISO FA12 SEAL (FOR BOUGHT OPER.)	COMMERCIAL STEEL

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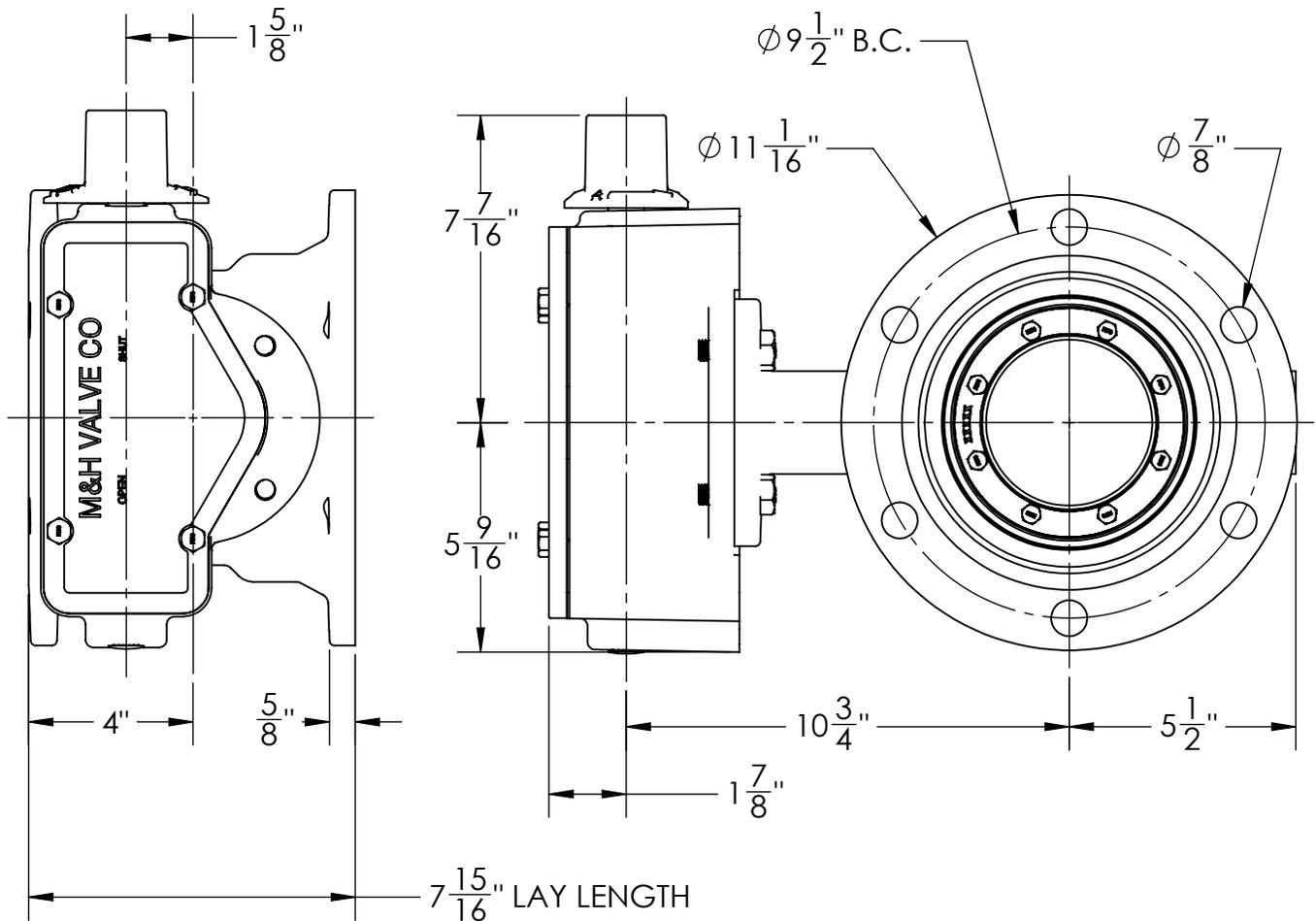


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BB06-M3-B01-000

**6" AWWA C504 - Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
MJ 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 NUMBER OF TURNS TO CLOSE
5. (6) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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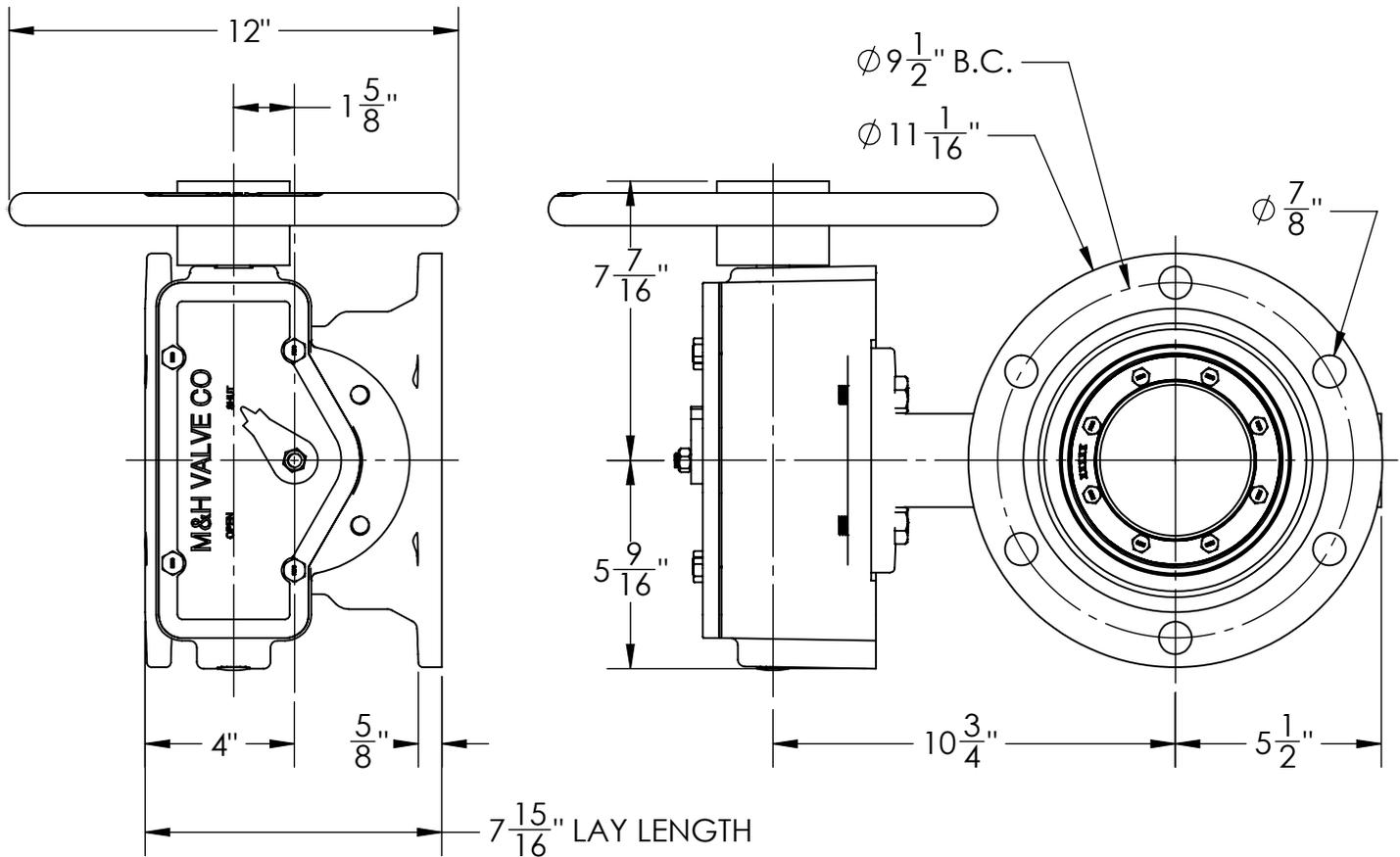


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DRAWN: CTJ
DATE: 7/1/2020
DWG. NO.
BD06-M3-M11-000

**6" - Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
MJ ENDS
Buried Operator - OPEN LEFT**



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. (6) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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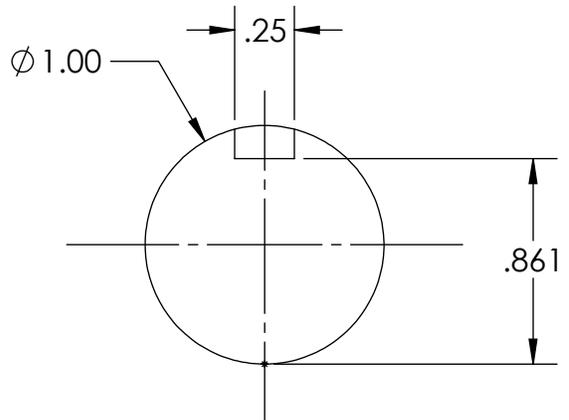
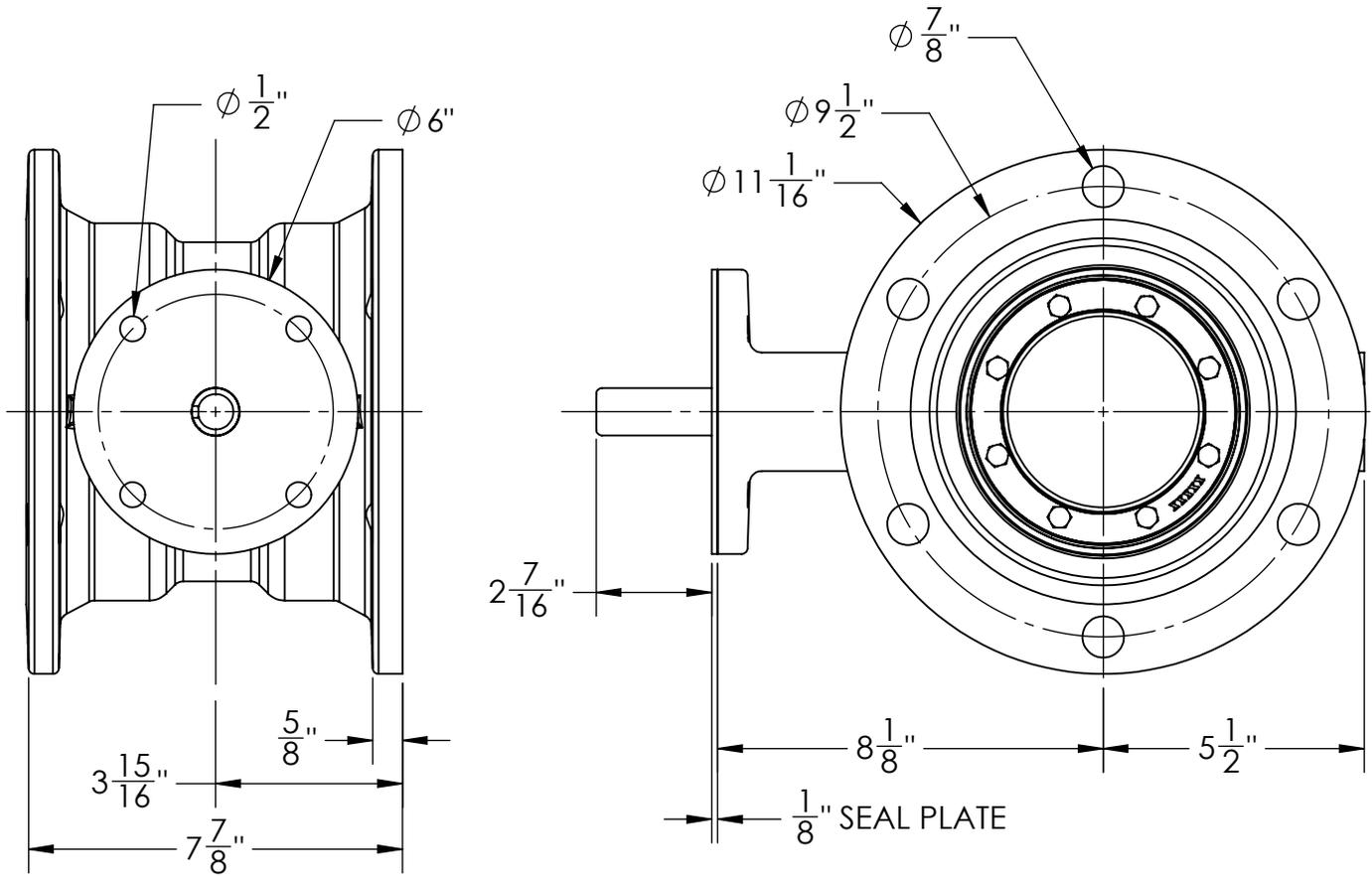


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DRAWN: CTJ
DATE: 7/1/2020
DWG. NO.
BD06-M3-M31-000

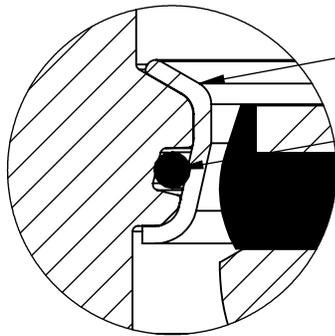
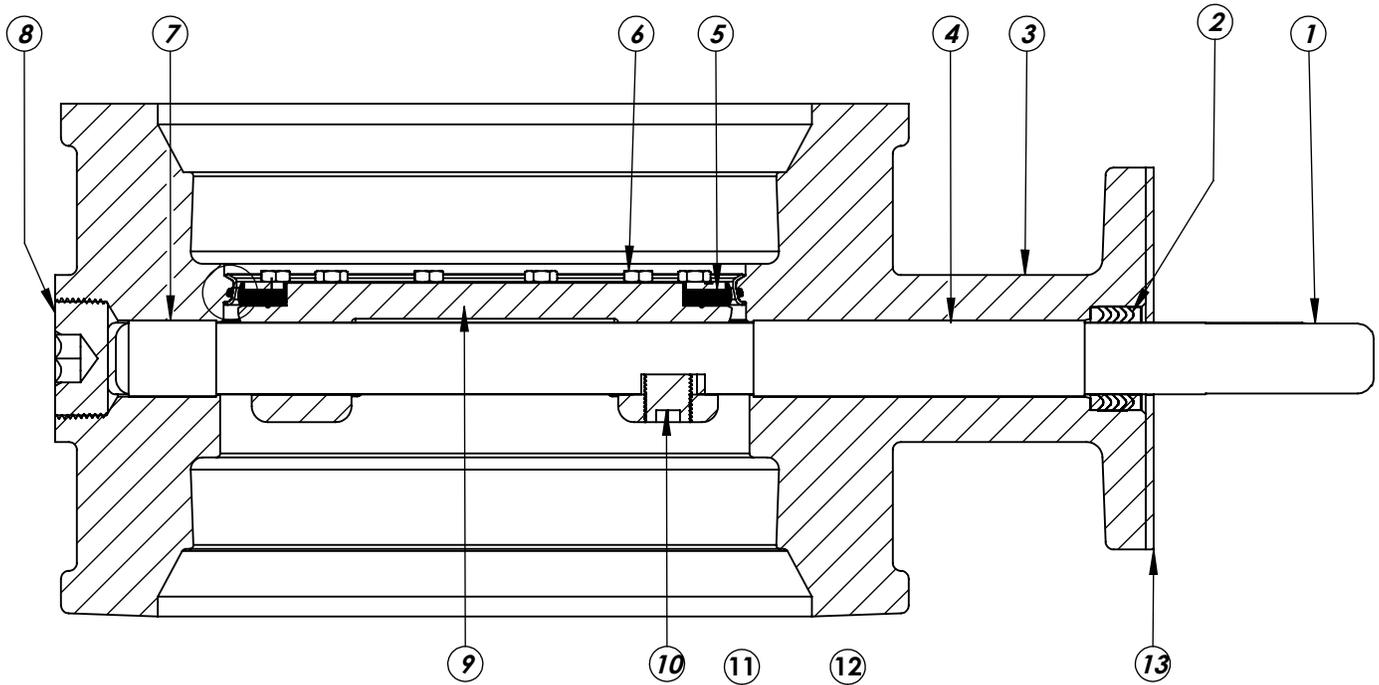
**6" - Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
MJ ENDS
HANDWHEEL Operator - OPEN LEFT**



SHAFT/KEYWAY DIM.

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. 8 BOLTS ON EACH FLANGE
5. $\phi 7/8$ " BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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 M&H VALVE COMPANY <small>A DIVISION OF McWANE INC.</small> <small>P.O. BOX 2088</small> <small>ANNISTON, ALABAMA 36202</small>	DRAWN: CTJ DATE: 7/25/2019 DWG. NO.	
	BD06-M3-B01-000	



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	630 STAINLESS STEEL, ASTM A-564
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 W/ SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL W/ 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 O-RING	BUNA-N
13	ISO FA12 SEAL (FOR BOUGHT OPER.)	COMMERCIAL STEEL

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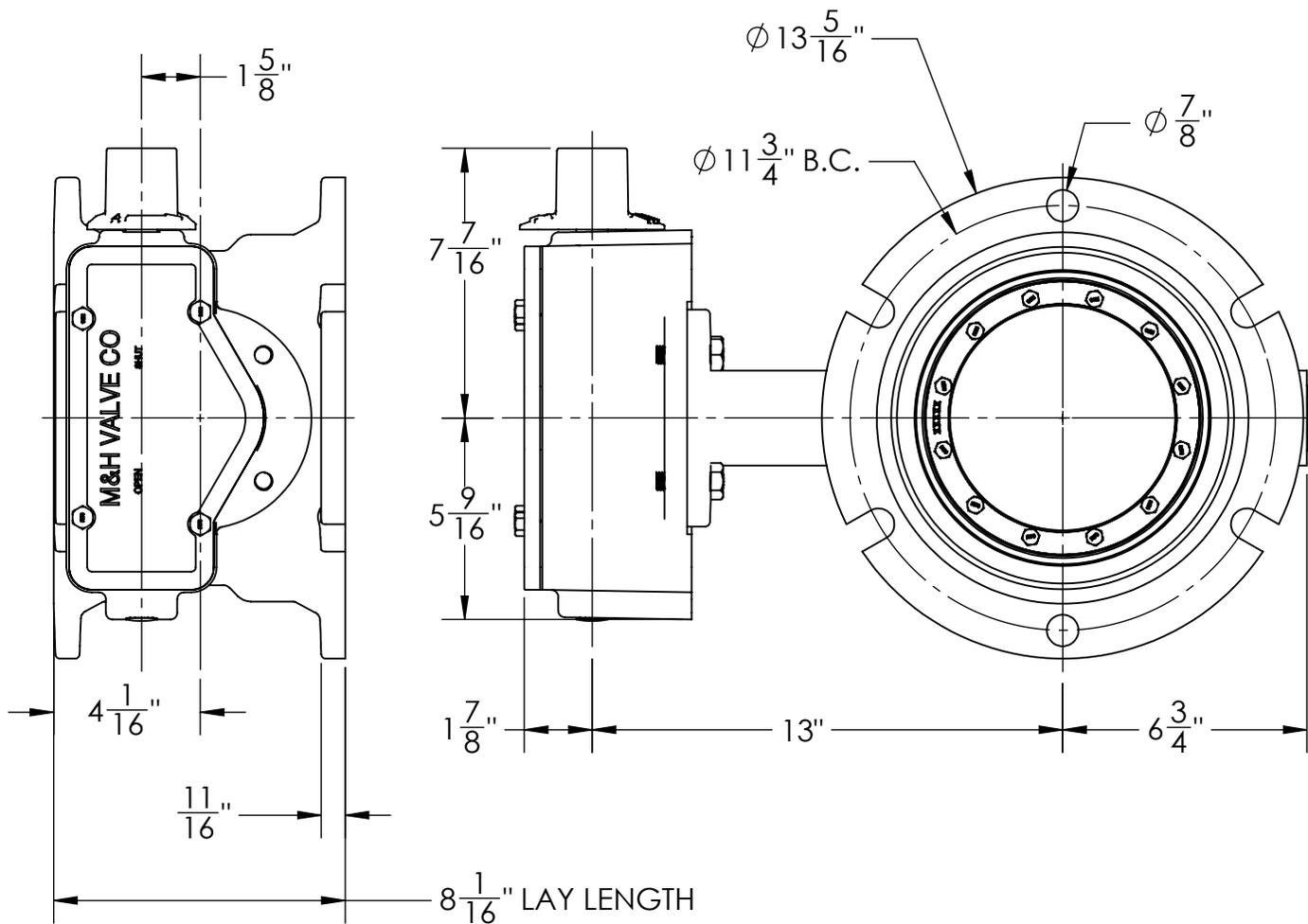


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BB08-M3-B01-000

**8" AWWA C504 - Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
MJ 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. (6) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED AND TESTED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

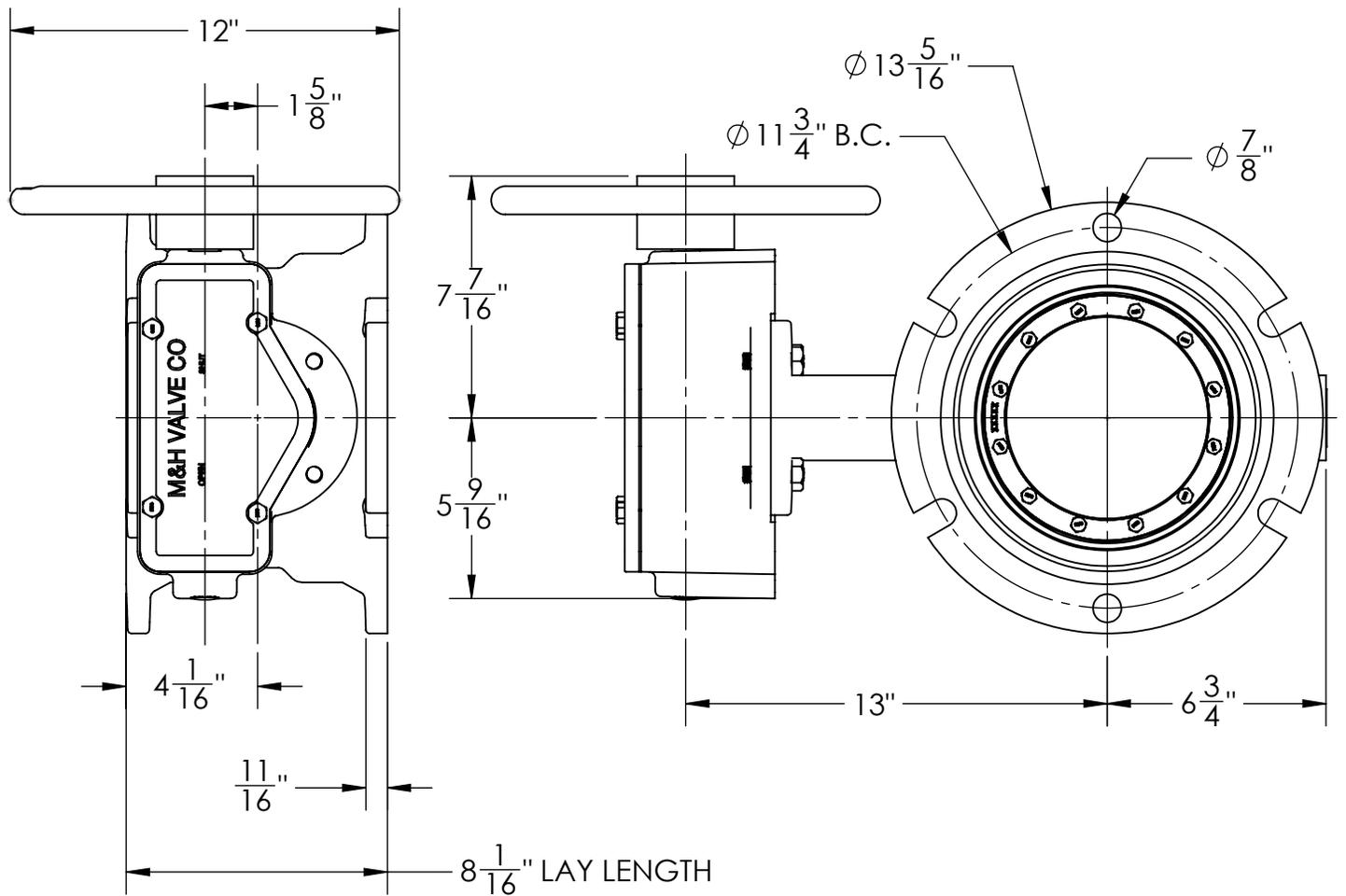
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DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
 BD08-M3-M11-000

**8" - Style 4500 BFV - CL250
 F/A 12 MSS/ISO Connection
 MECHANICAL JOINT ENDS
 Buried Operator - OPEN LEFT**



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. (6) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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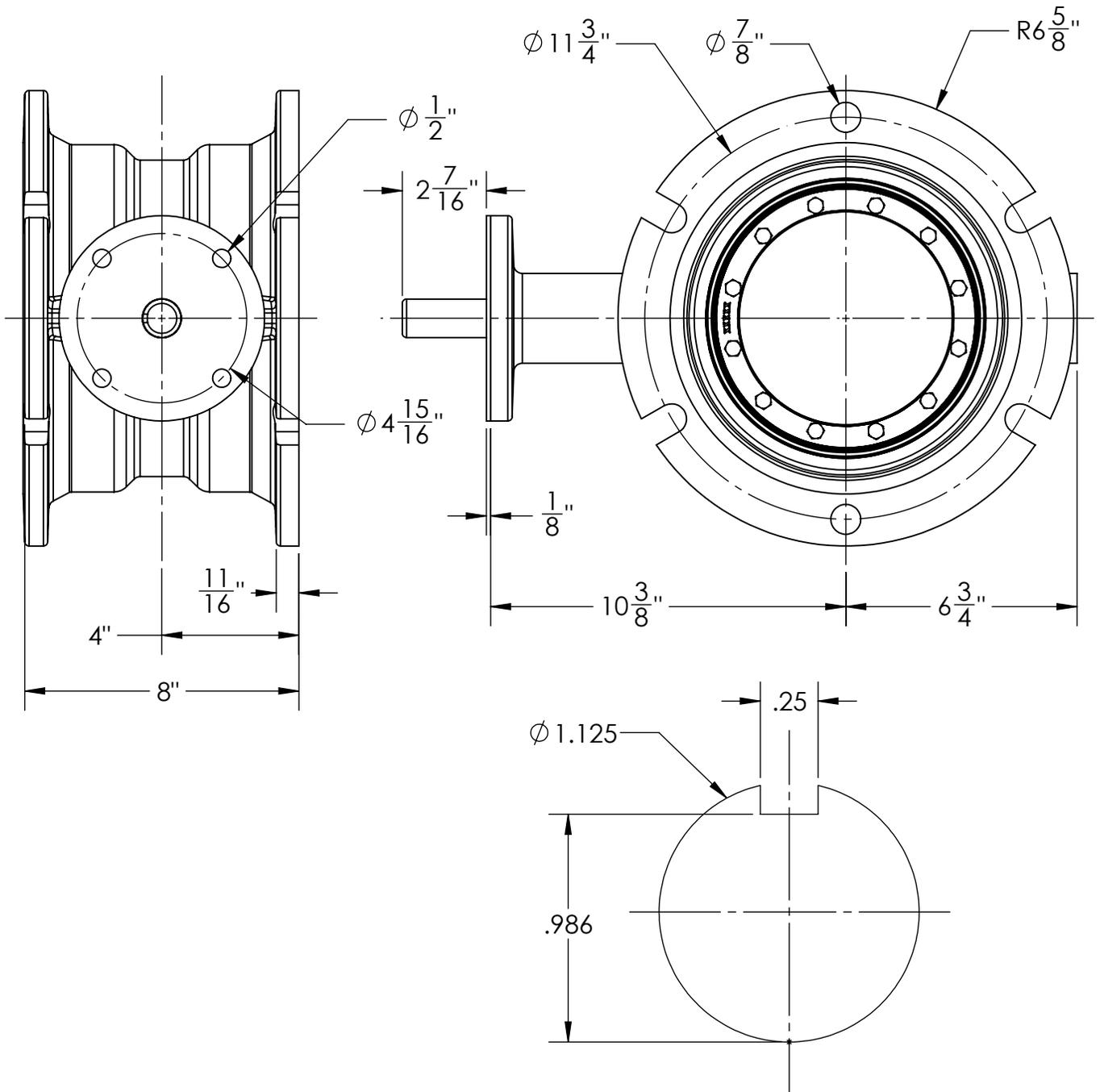


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DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD08-M3-M31-000

**8" - Style 4500 BFV - RATED CL250
F/A 12 MSS/ISO Connection
MECHANICAL JOINT ENDS
HANDWHEEL Operator - OPEN LEFT**



SHAFT/KEYWAY DIM.

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. 6 BOLTS ON EACH FLANGE
5. $\phi 3/4$ " BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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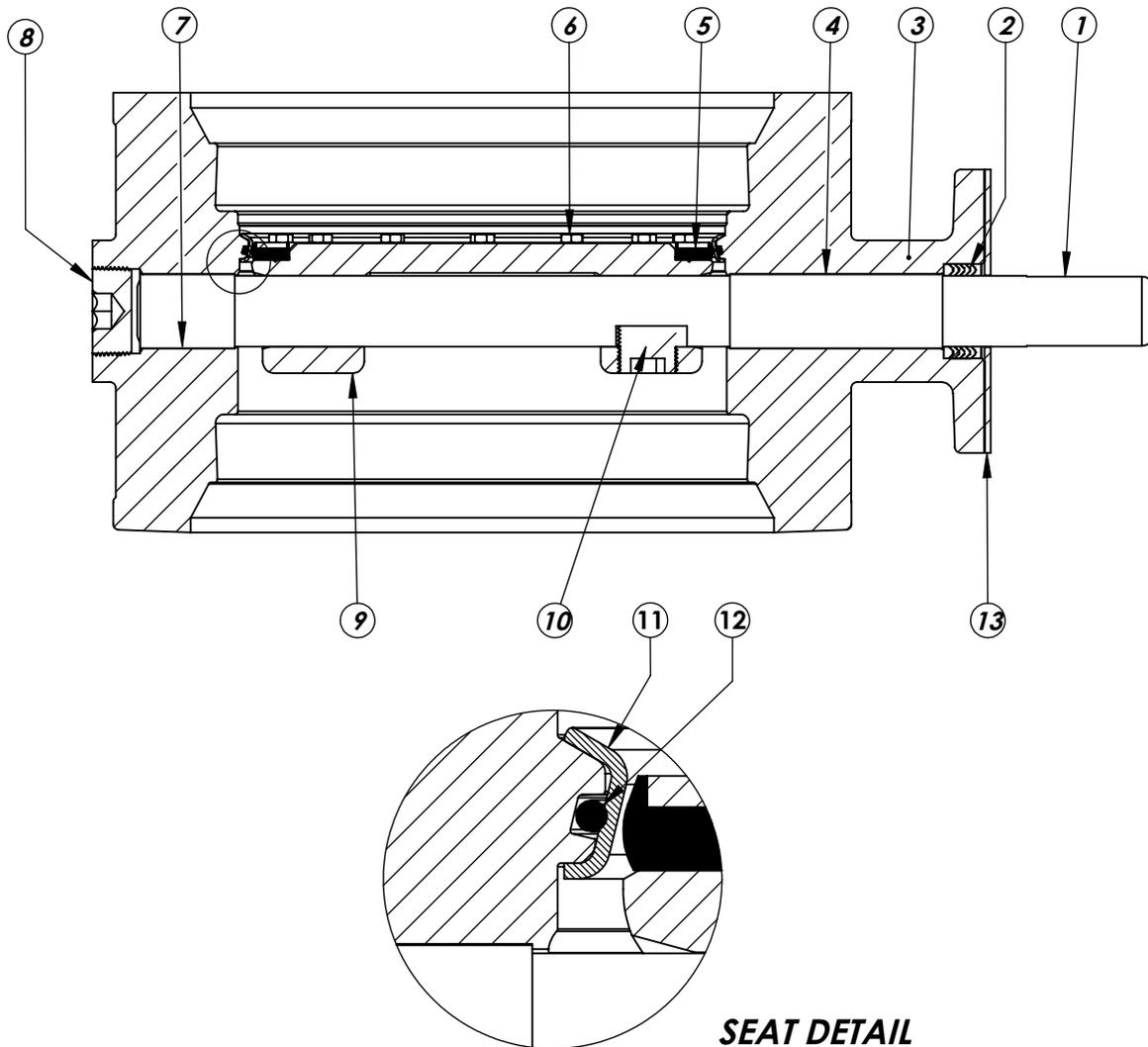


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ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD08-M3-B01-000

8" AWWA C504 - STYLE 4500 - RATED CL250
BFV W/ F/A 12 MSS/ISO Connection
MECHANICAL JOINT ENDS - BARE STEM



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	630 STAINLESS STEEL, ASTM A-564
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 W/ SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL W/ 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 O-RING	BUNA-N
13	ISO FA12 SEAL (FOR BOUGHT OPER.)	COMMERCIAL STEEL

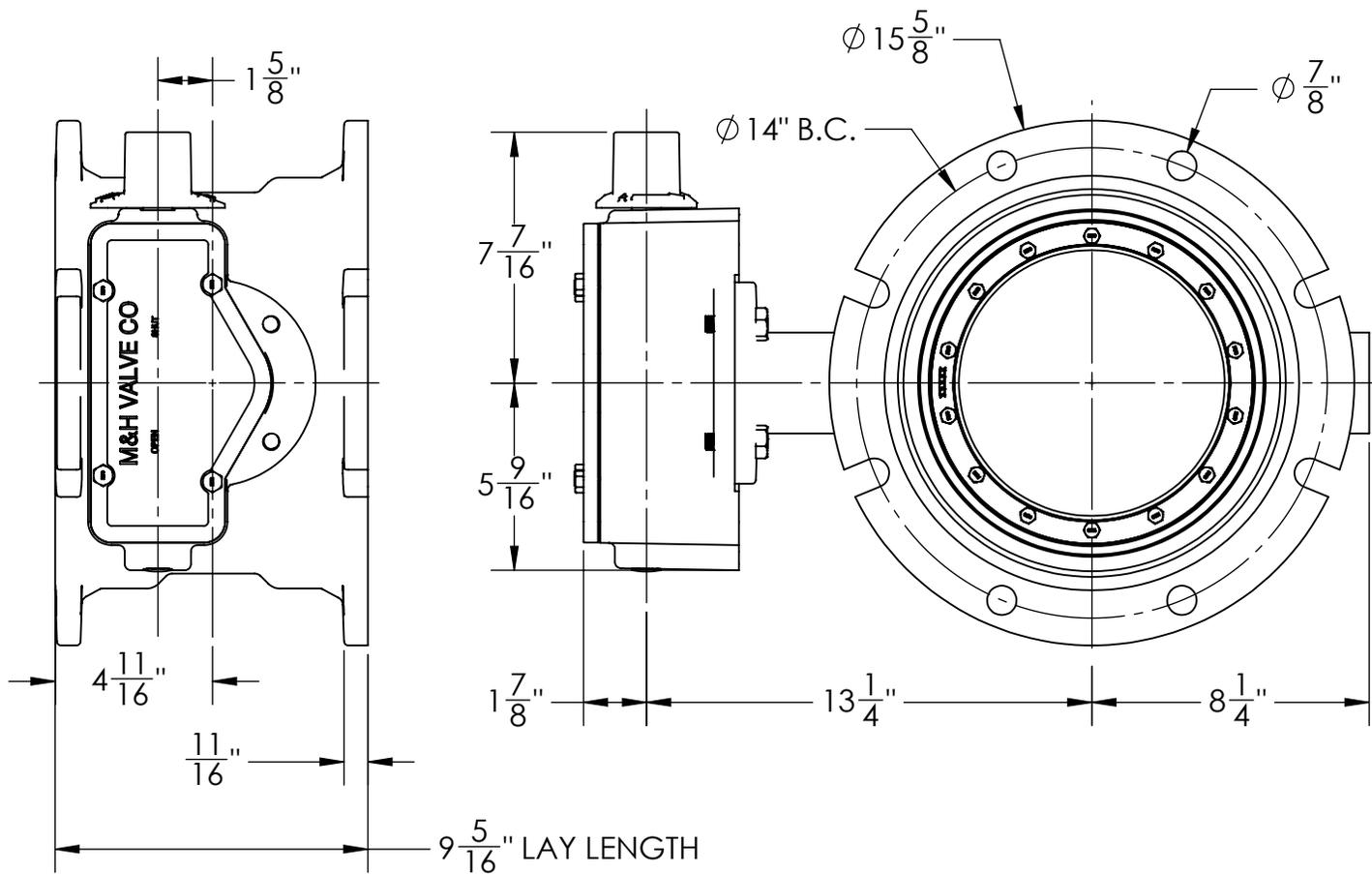
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 ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
 BB10-M3-B01-000

10" AWWA C504 - Style 4500 - RATED CL250
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
MJ 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. (8) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED AND TESTED FOR 250psi WORKING PRESSURE

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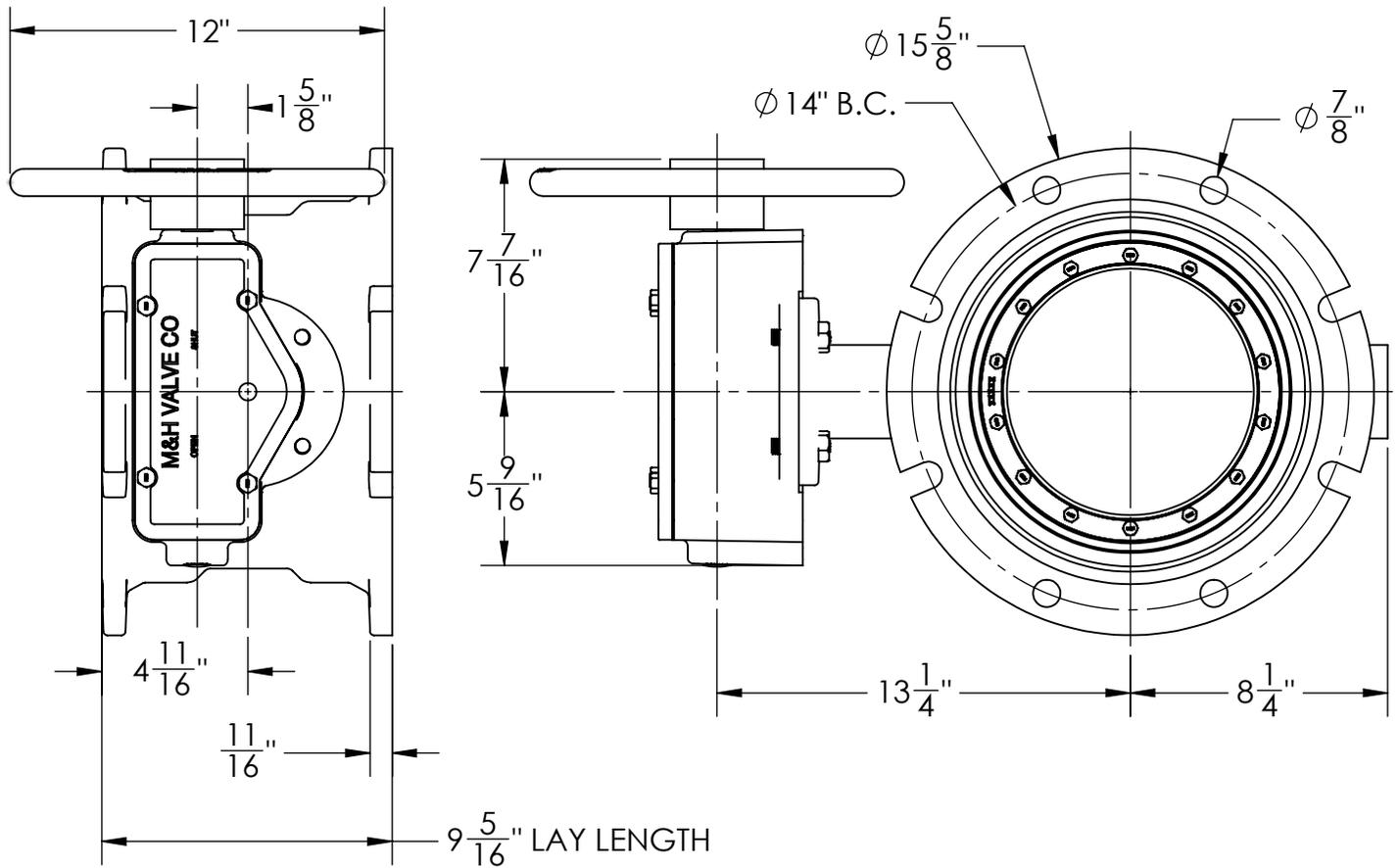


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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD10-M3-M31-000

**10" - Style 4500 BFV - RATED CL250
F/A 12 MSS/ISO Connection
MECHANICAL JOINT ENDS
BURIED Operator - OPEN LEFT**



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) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 250psi WORKING PRESSURE

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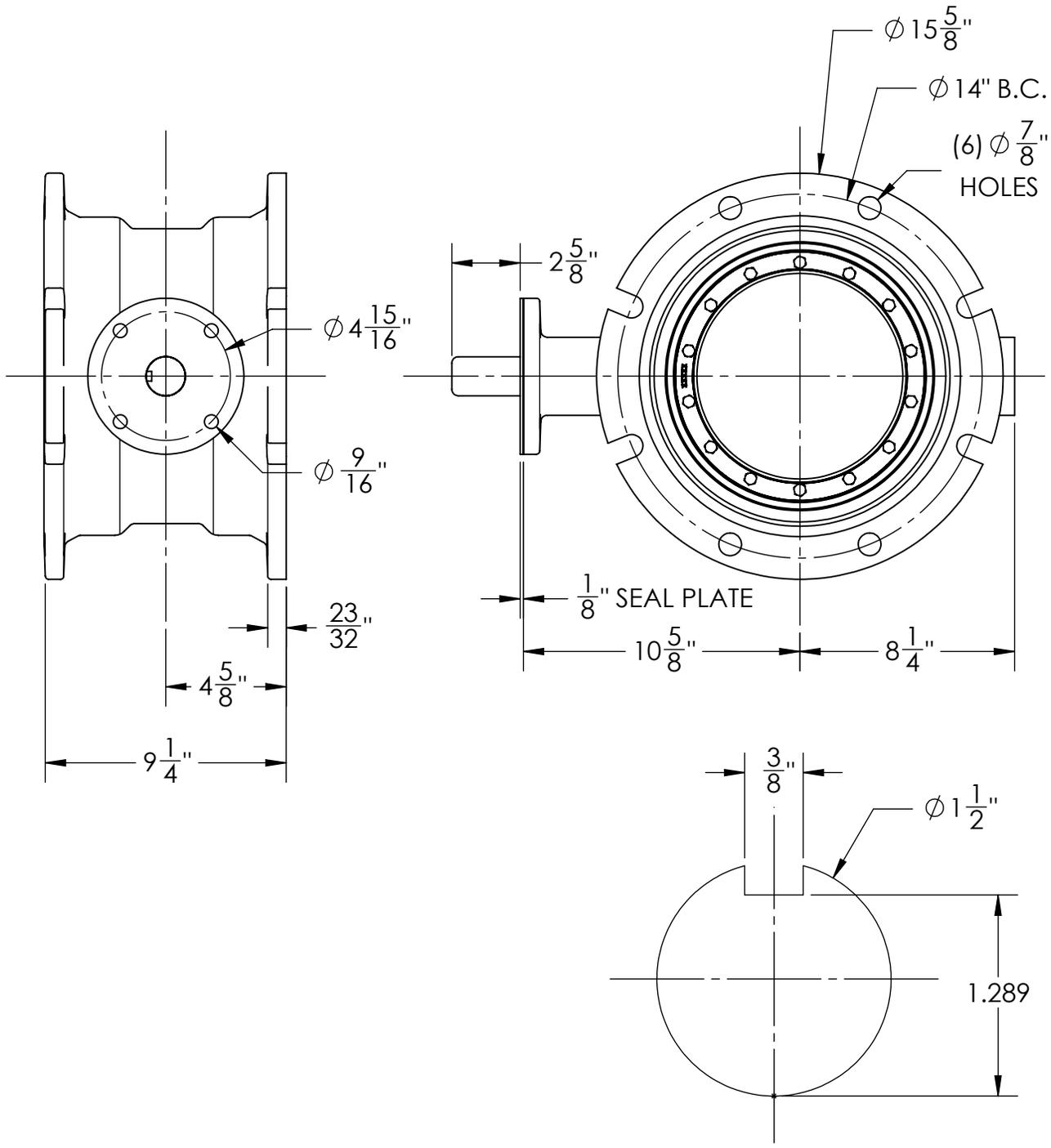


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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD10-M3-M31-000

10" - Style 4500 BFV - RATED CL250
F/A 12 MSS/ISO Connection
MECHANICAL JOINT ENDS
HANDWHEEL Operator - OPEN LEFT



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. 8 BOLTS ON EACH FLANGE
5. 3/4" DIAMETER OF BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS AND BOLTS FOR MECHANICAL JOINTS FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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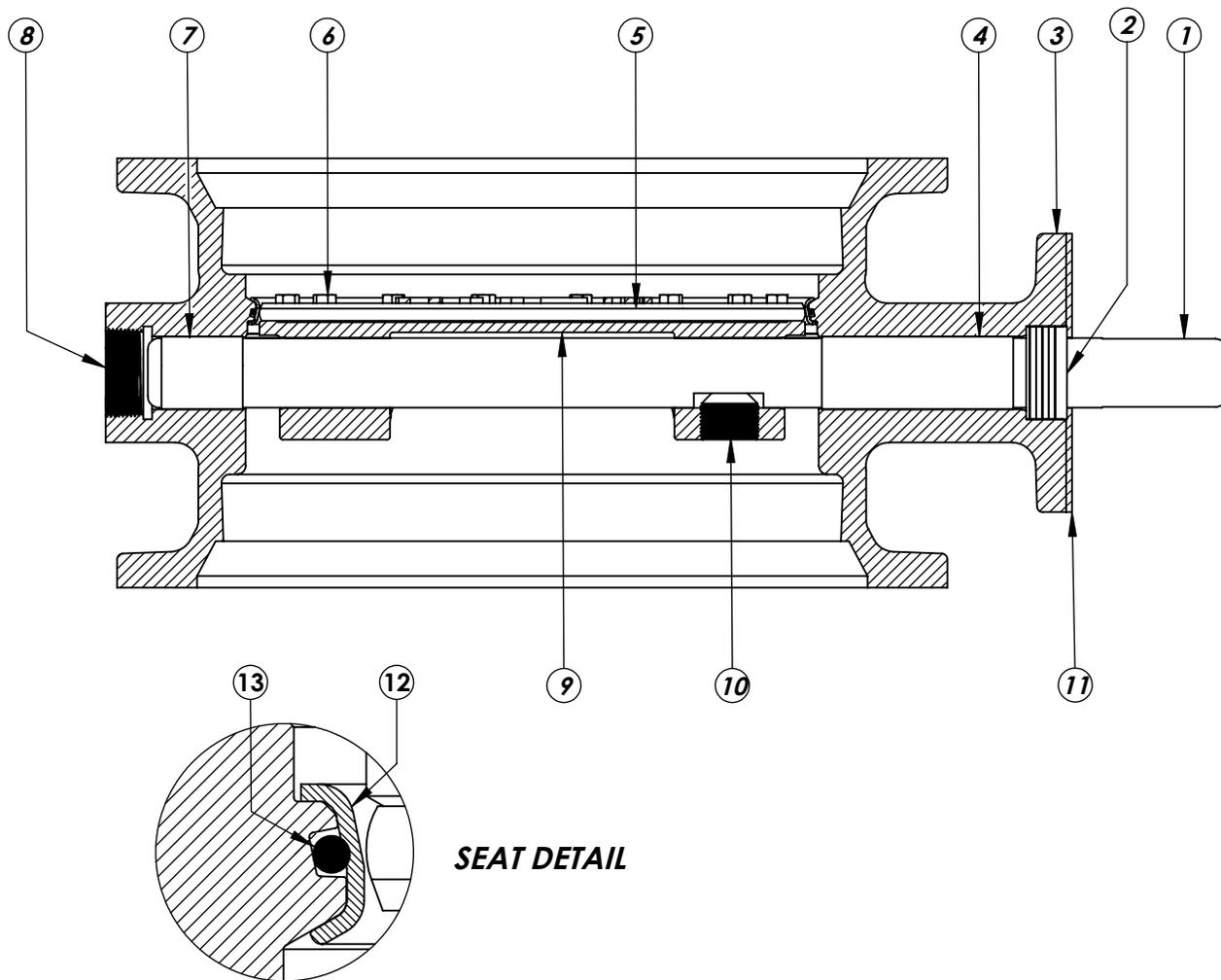


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD10-M3-B01-000

10" - STYLE 4500 BFV - RATED CL250
w/ F/A12 MSS/ISO CONNECTION
MECHANICAL JOINT ENDS - BARE STEM



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	630 STAINLESS STEEL, ASTM A-564
2	V-RING PACKING	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT w/ SS INSERT
6	HEX HEAD CAP SCREW	18-8 STAINLESS STEEL w/ 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	ISO FA12 SEAL PLATE	COMMERCIAL STEEL
12	BODY SEAT RING	316 STAINLESS STEEL
13	BODY SEAT O-RING	EPDM

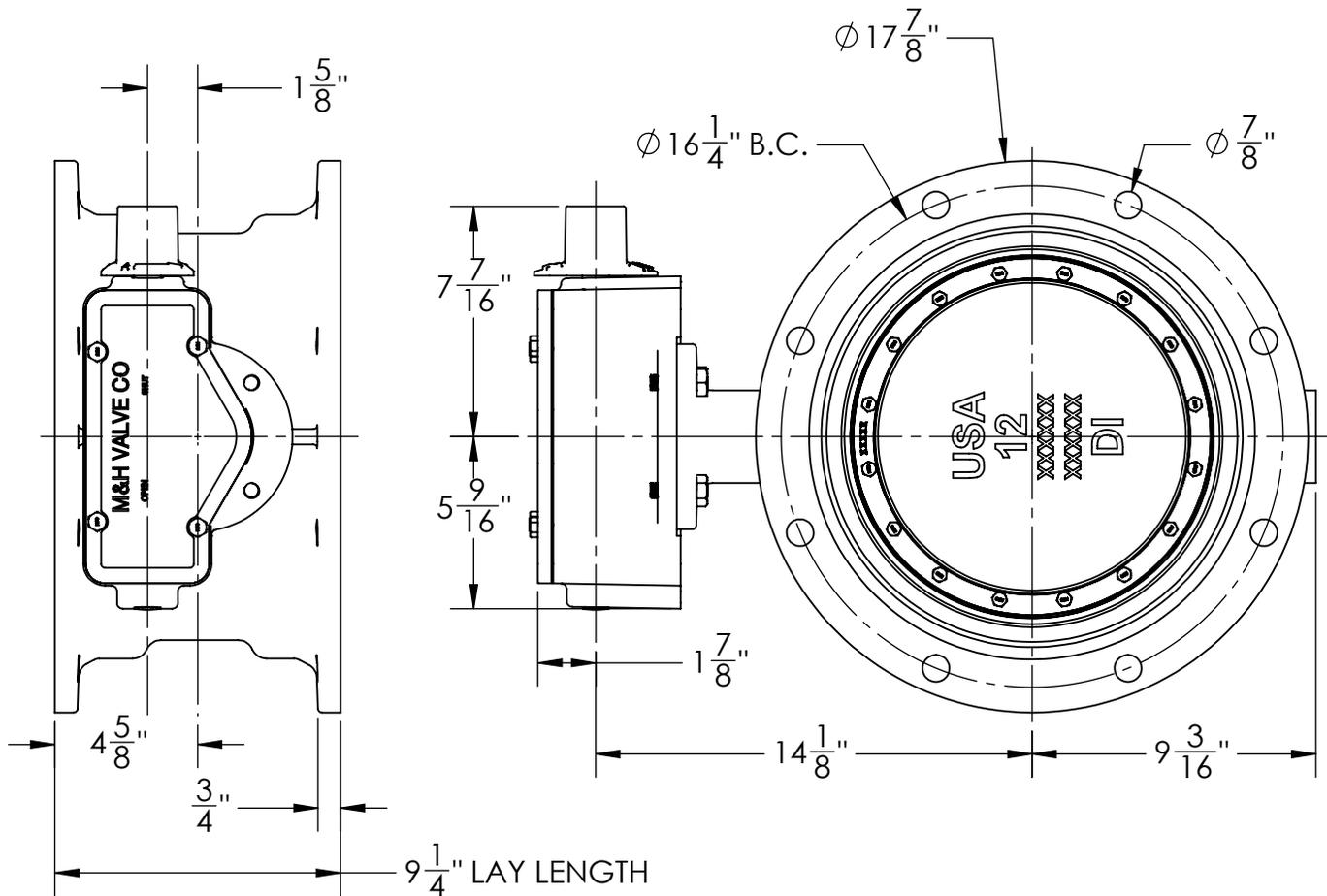
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DRAWN: CTJ
DATE: 5/24/2019
DWG. NO.
 BB12-M3-B01-000

**12" AWWA C504 - Style 4500 - RATED CL250
 BFV with F/A 12 MSS/ISO Connection
 Sub-Assembly - Material List
 MECHANICAL JOINT**



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) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED AND TESTED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

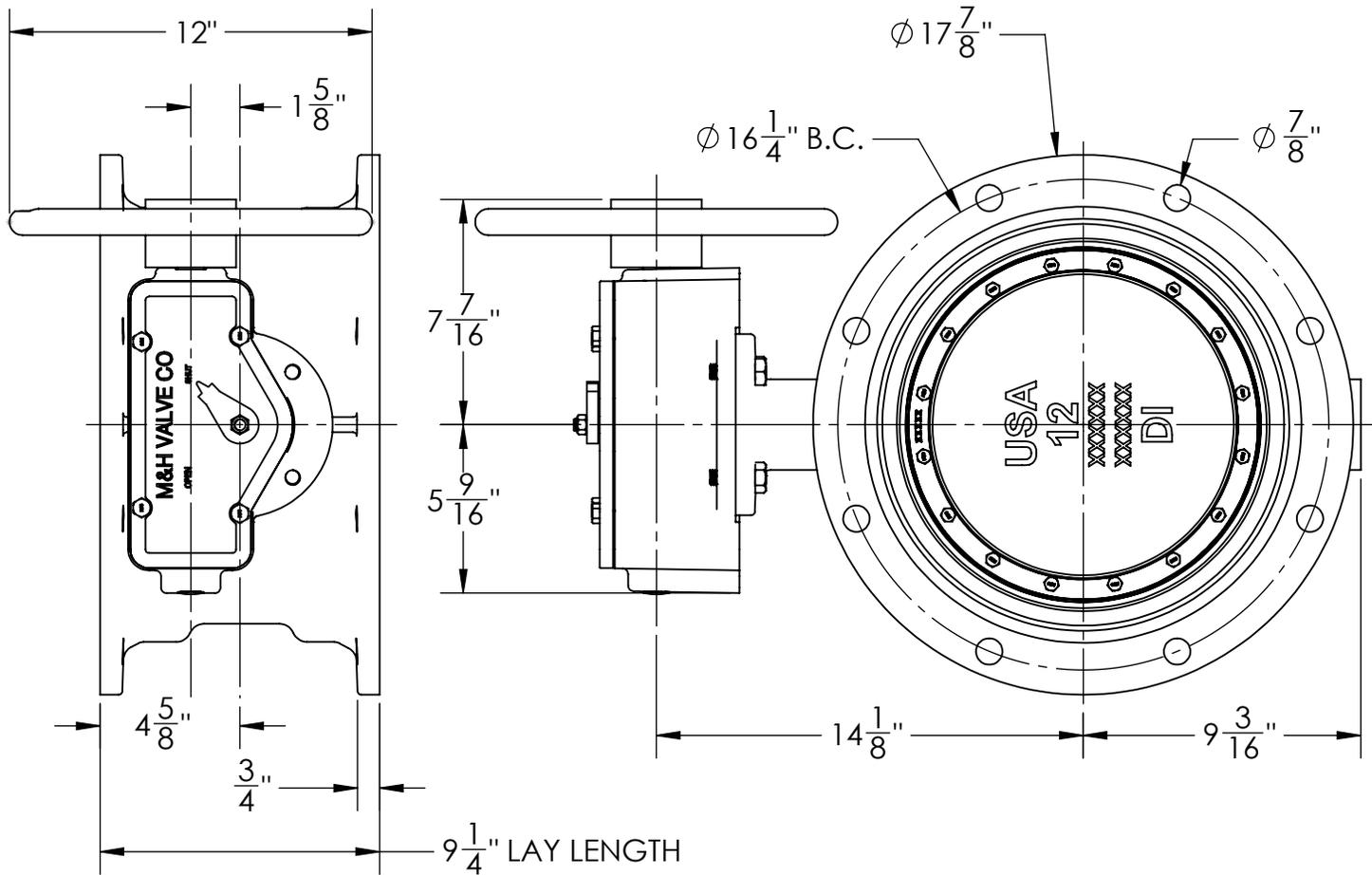
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 P.O. BOX 2088
 ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/6/2020
DWG. NO.
 BD12-M3-M11-000

**12" - Style 4500 BFV - RATED CL250
 F/A12 MSS/ISO Connection
 MECHANICAL JOINT ENDS
 Buried Operator - Open Left**



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) 3/4" BOLTS ON EACH FLANGE
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 250psi WORKING PRESSURE
8. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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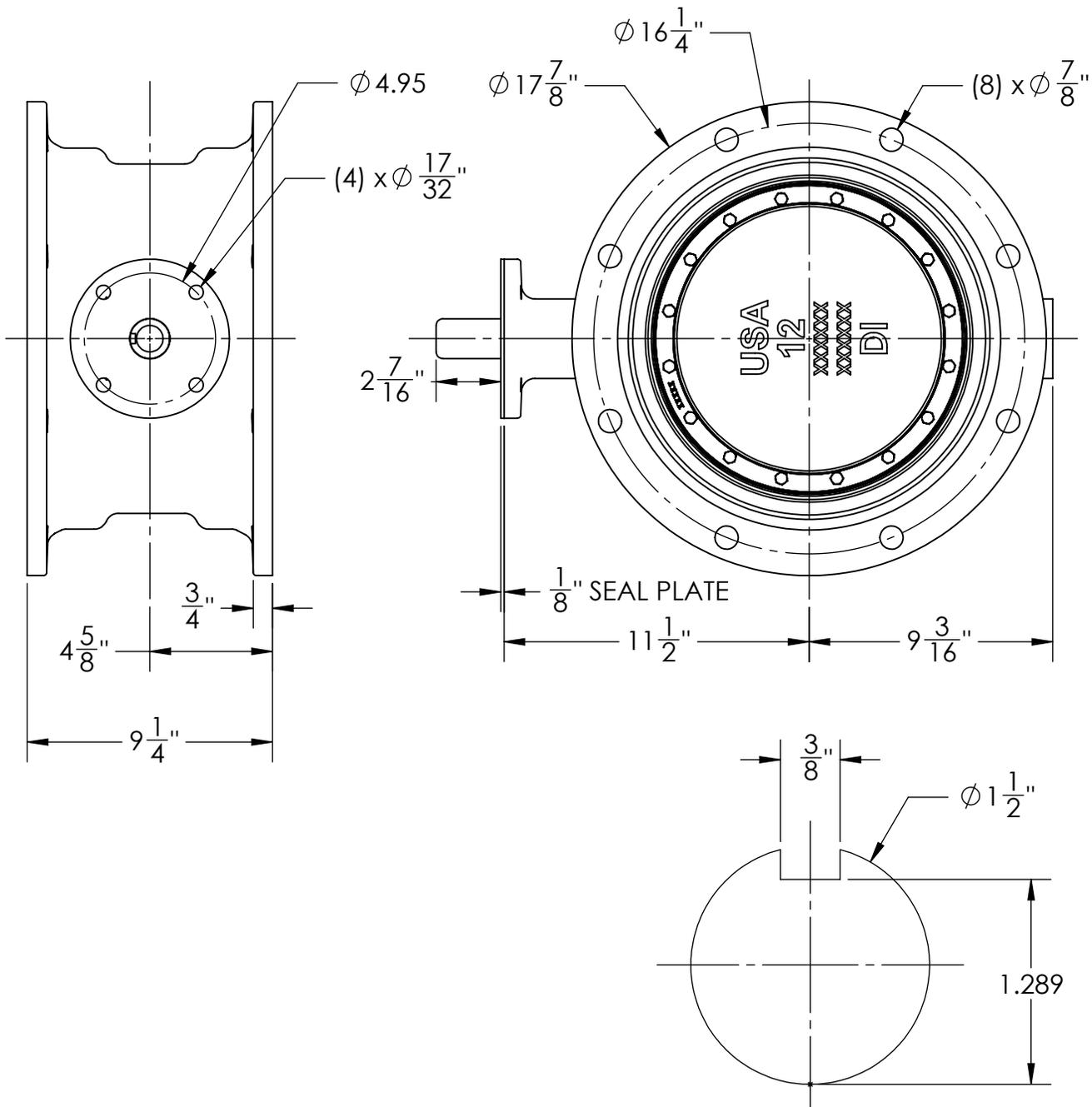


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DRAWN: CTJ
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DWG. NO.
BD12-M3-M11-000

**12" - Style 4500 BFV - RATED CL250
F/A12 MSS/ISO Connection
MECHANICAL JOINT ENDS
HANDWHEEL Operator - Open Left**



SHAFT/KEYWAY DIM.

1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
3. 29 TURNS TO CLOSE
4. 8 BOLTS ON EACH FLANGE
5. 3/4" DIAMETER BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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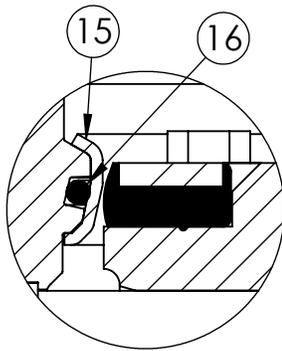
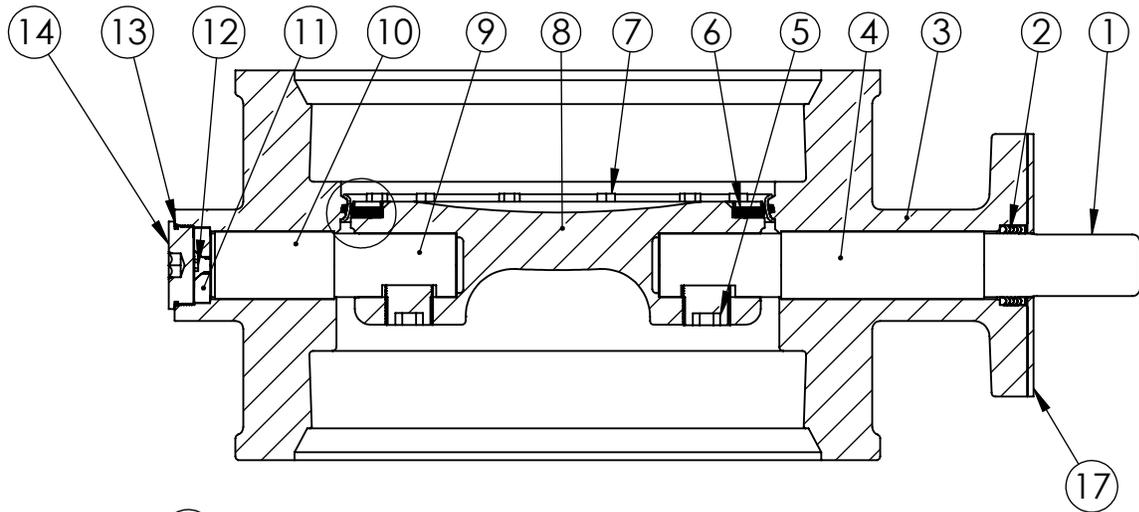


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD12-M3-B01-000

12" - STYLE 4500 - RATED CL250
BFV w/ F/A12 MSS/ISO CONNECTION
FLANGED ENDS - BARE STEM w/ SEAL PLATE



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	OPERATOR SHAFT	630 STAINLESS STEEL, ASTM A-564
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
17	ISO FA16 SEAL PLATE	COMMERCIAL STEEL

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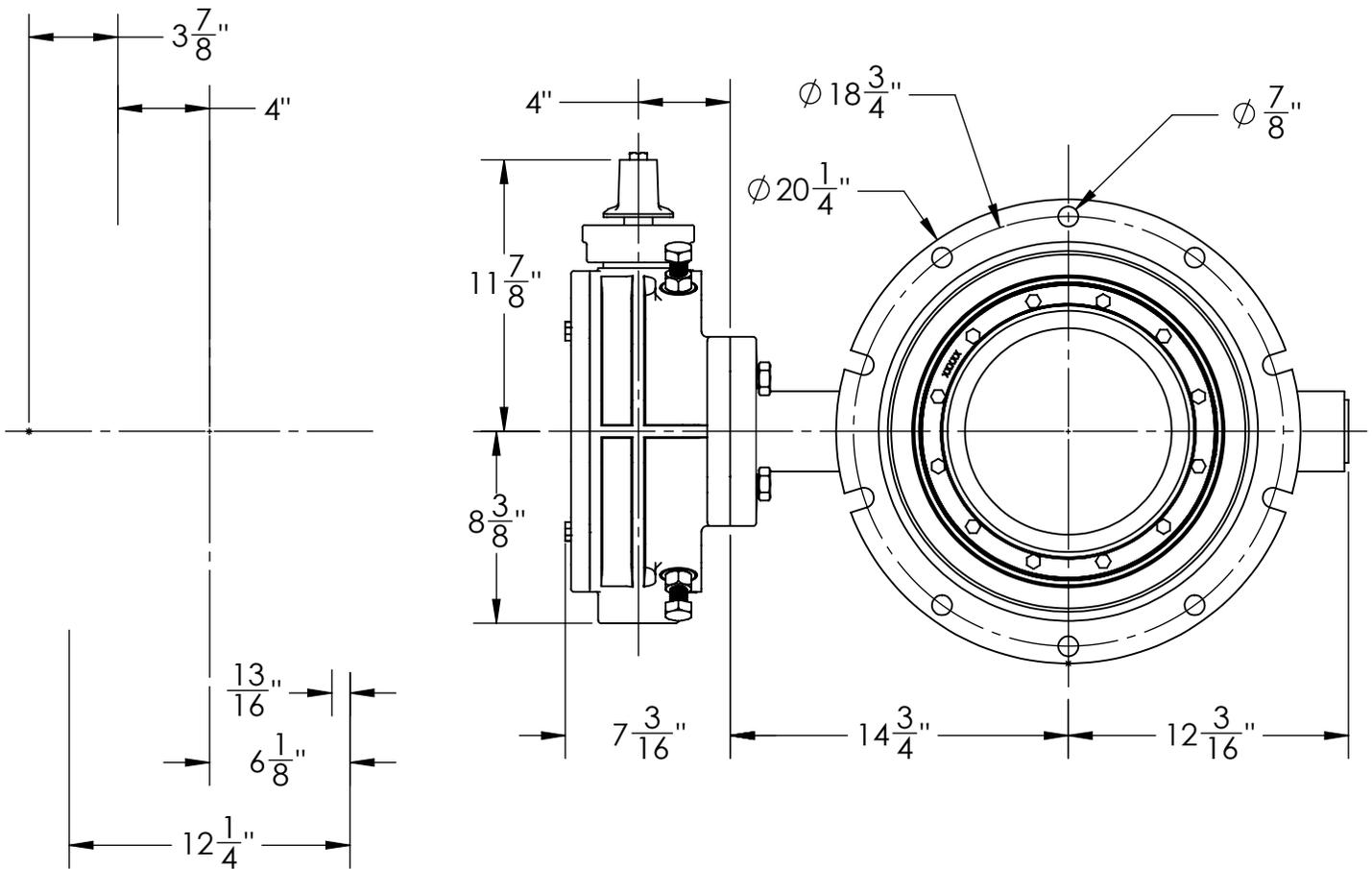


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BB14-M3-B01-000

14" STYLE 4500 BFV - RATED CL250
w/ F/A16 MSS/ISO CONNECTION
SUB-ASSEMBLY - MATERIAL LIST
MECHANICAL JOINT ENDS



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 48 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 3/4" DIA. OF BOLTS
7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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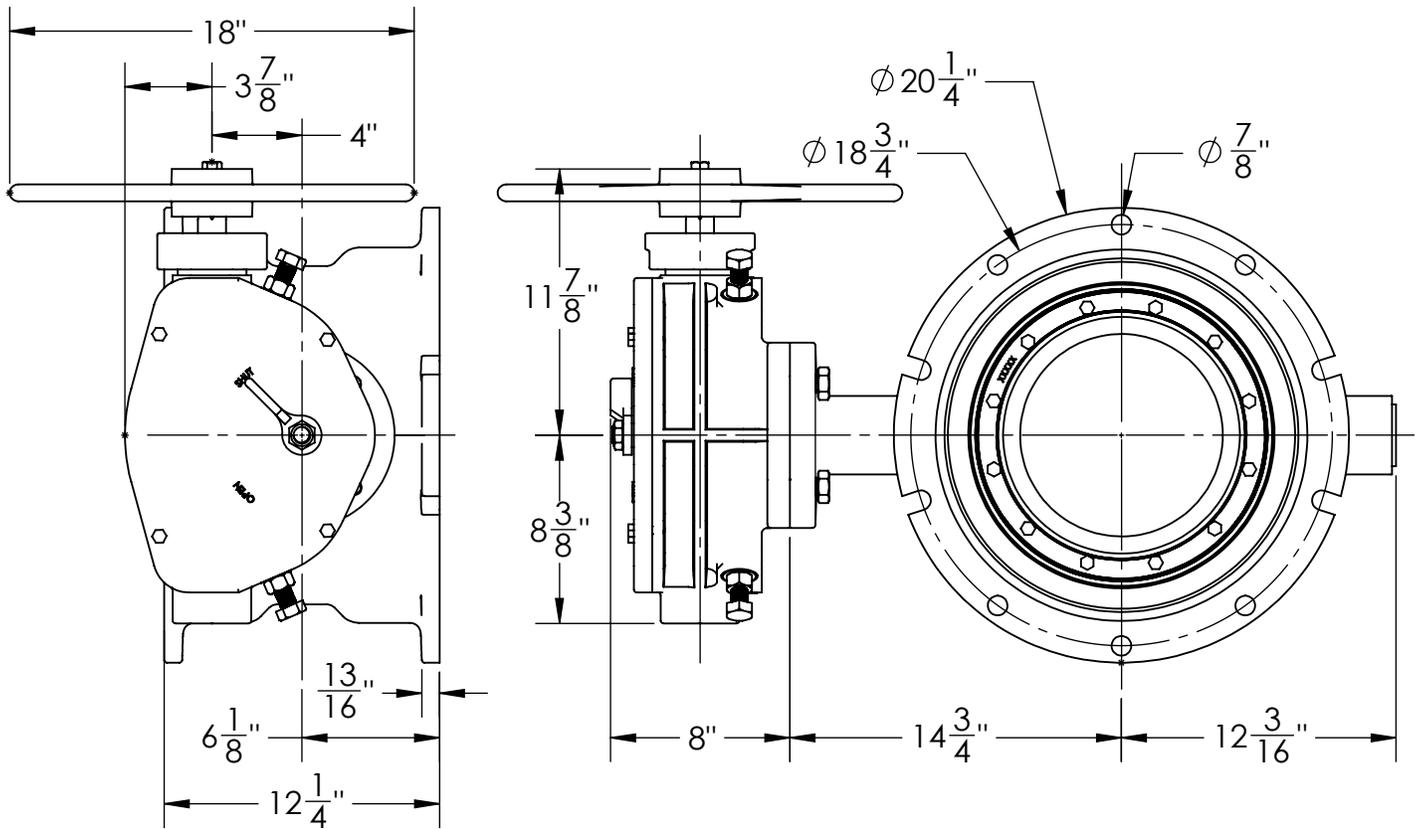
DRAWN: CTJ

DATE: 7/25/2019

DWG. NO.

BD14-M3-M11-000

14" - Style 4500 - RATED CL250
BFV with F/A 16 MSS/ISO Connection
MECHANICAL JOINT
Buried Operator



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 48 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 3/4" DIA. OF BOLTS
7. OPERATED BY 18" HANDWHEEL
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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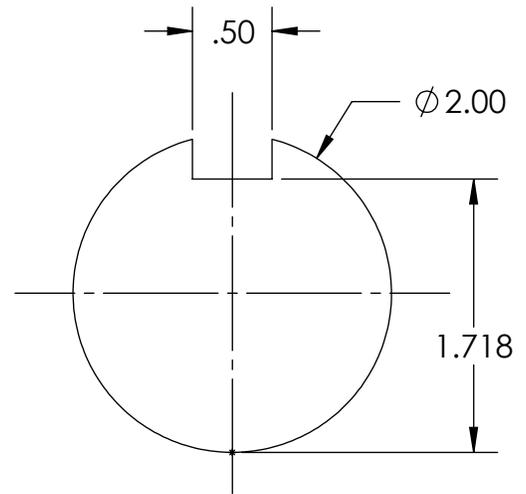
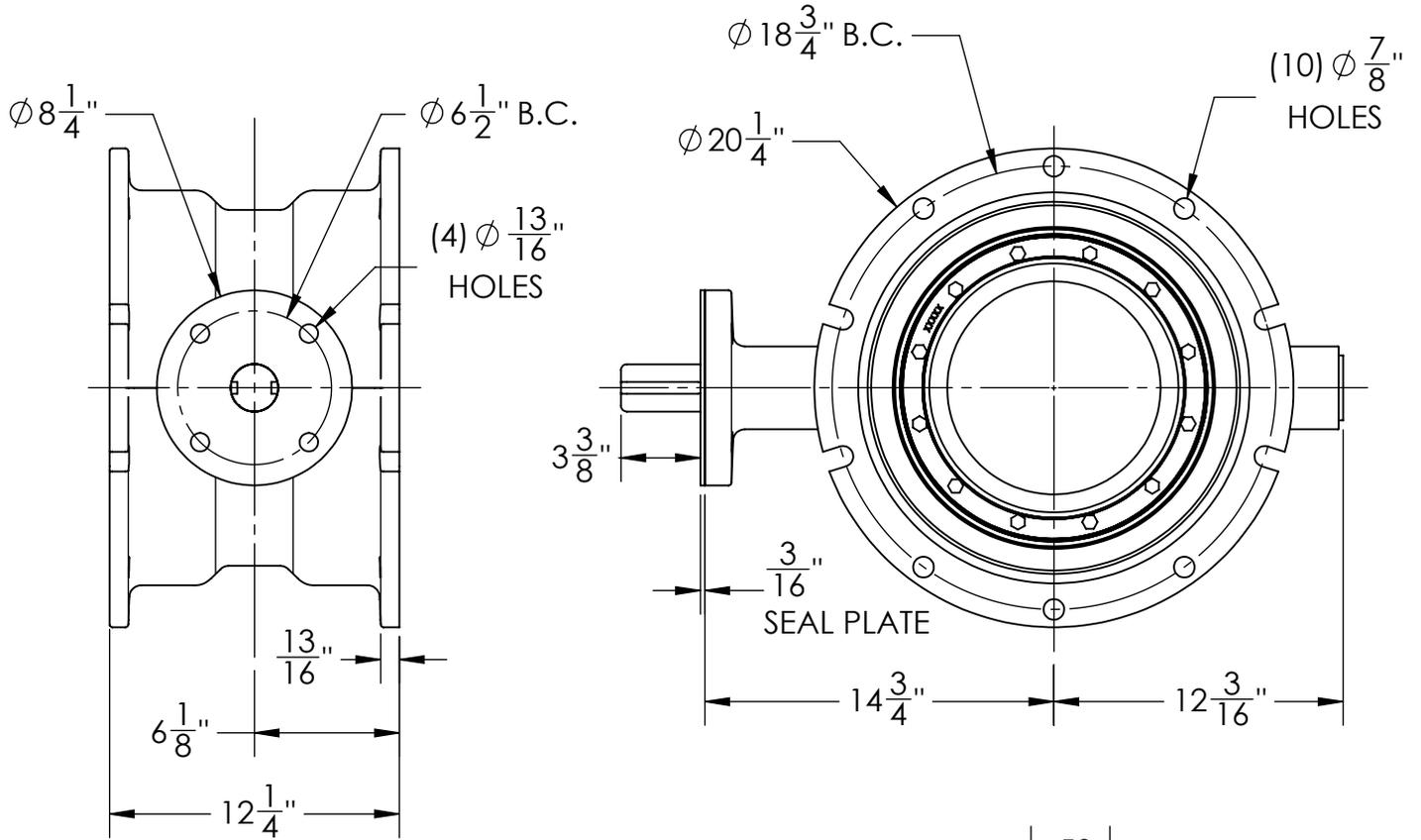
DRAWN: CTJ

DATE: 7/25/2019

DWG. NO.

BD14-M3-M31-000

14" - Style 4500 - RATED CL250
BFV with F/A 16 MSS/ISO Connection
MECHANICAL JOINT
HANDWHEEL Operator



SHAFT/KEYWAY DIM.

1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 12 BOLTS ON EACH FLANGE
5. 3/4" DIA. OF BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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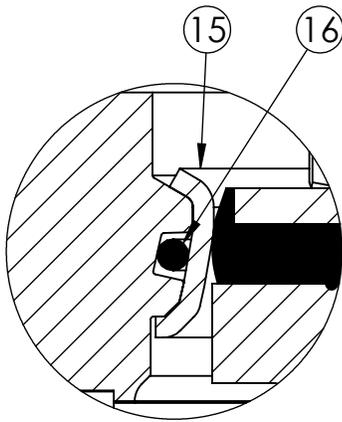
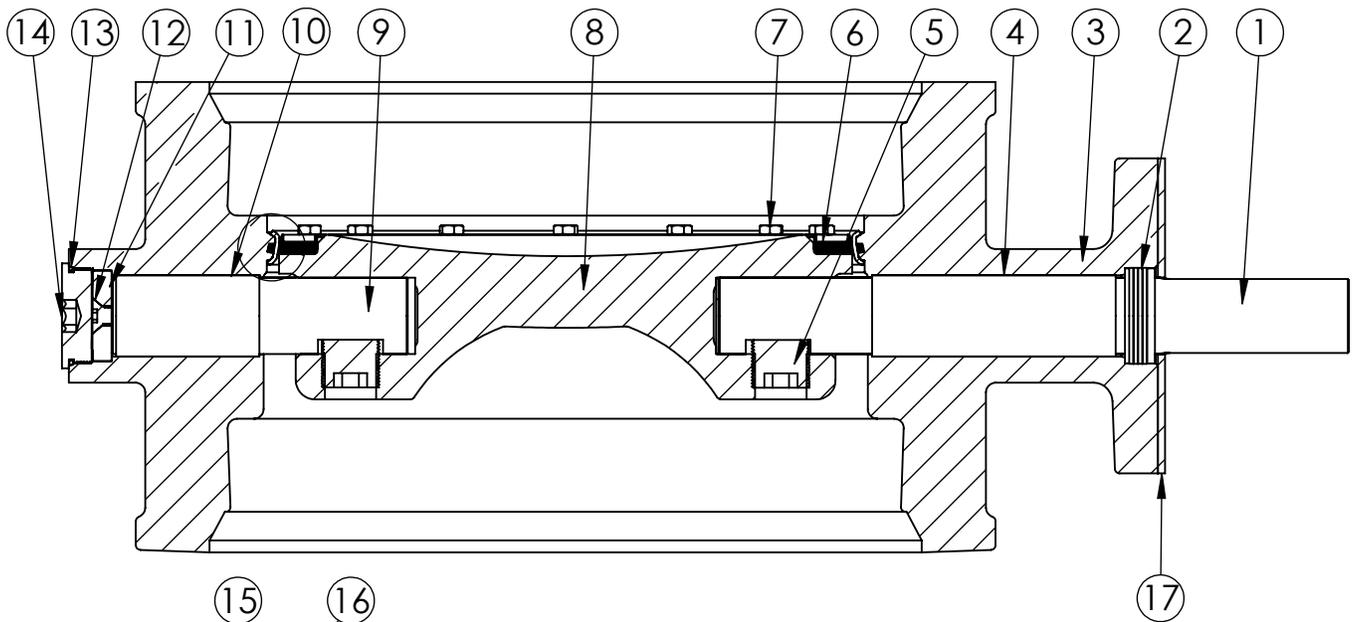


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD14-M3-B01-000

14" - STYLE 4500 - RATED CL250
BFV w/ F/A16 MSS/ISO CONNECTION
MECHANICAL JOINT ENDS - BARE STEM



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	OPERATOR SHAFT	630 STAINLESS STEEL, ASTM A-564
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
17	ISO FA16 SEAL PLATE	COMMERCIAL STEEL

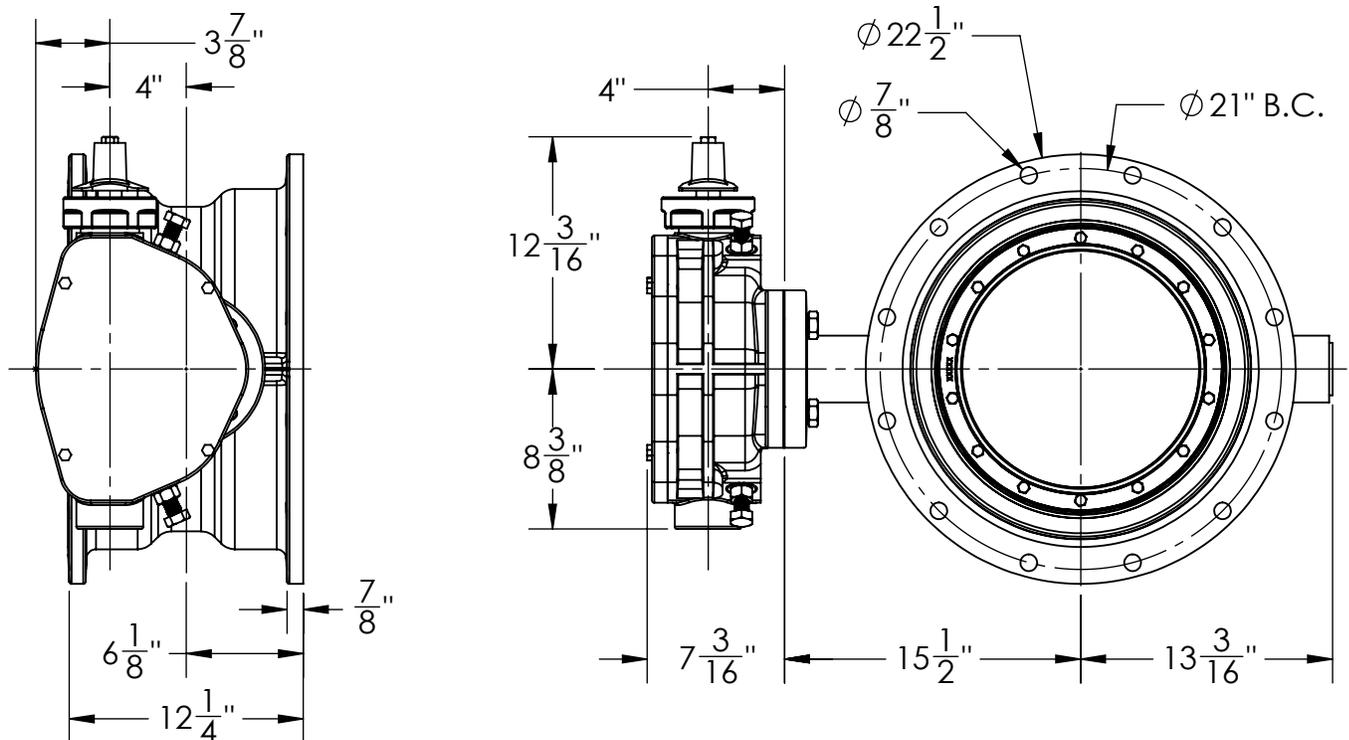
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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
 BB16-M3-B01-000

16" AWWA C504 - STYLE 4500 - RATED CL250
 BFV w/ F/A16 MSS/ISO CONNECTION
 SUB-ASSEMBLY - MATERIAL LIST
 MECHANICAL JOINT ENDS



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 48 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 3/4" DIA. OF BOLTS
7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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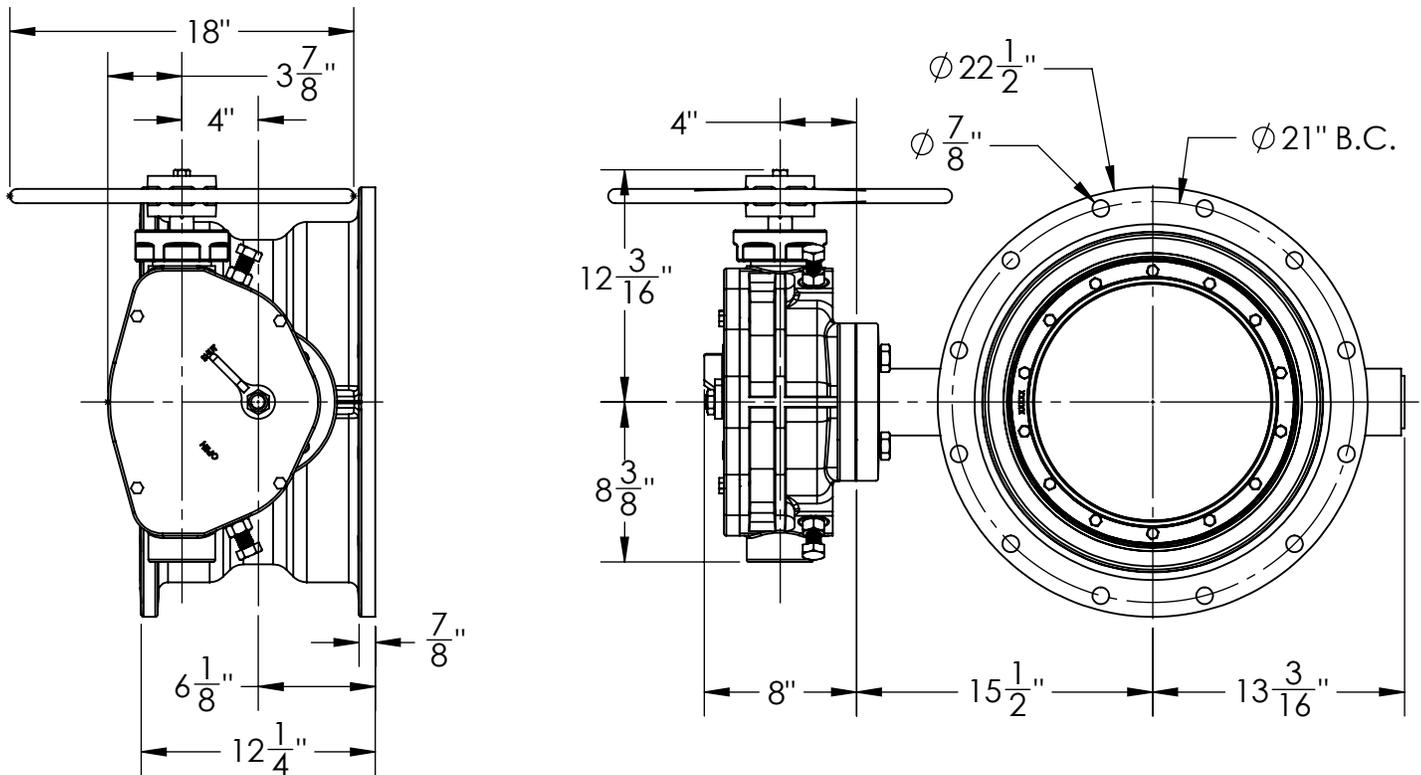


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD16-M3-M11-000

16" - Style 4500 - RATED CL250
BFV with F/A 16 MSS/ISO Connection
MECHANICAL JOINT
Buried Operator



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 48 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 3/4" DIA. OF BOLTS
7. OPERATED BY 18" HANDWHEEL
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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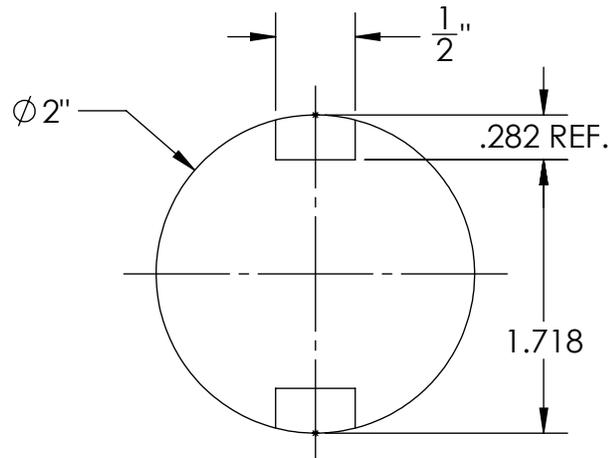
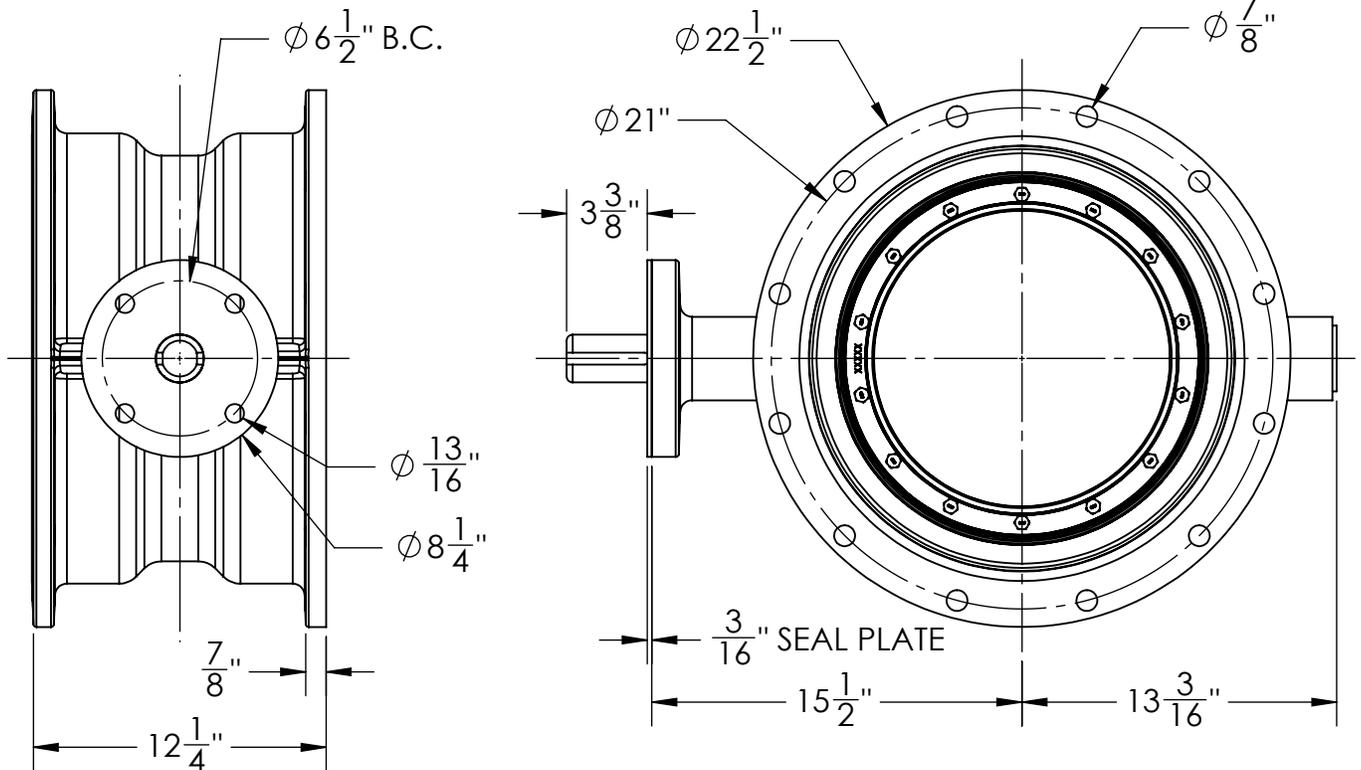


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD16-M3-M31-000

16" - Style 4500 - RATED CL250
BFV with F/A 16 MSS/ISO Connection
MECHANICAL JOINT
Handwheel Operator



SHAFT & KEYWAY DIM.

1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 12 BOLTS ON EACH FLANGE
5. $\frac{3}{4}$ " DIA. OF BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE WHEN SPECIFIED ON ORDER

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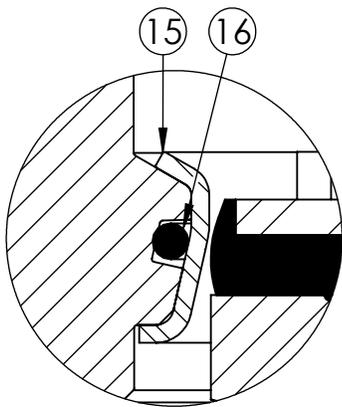
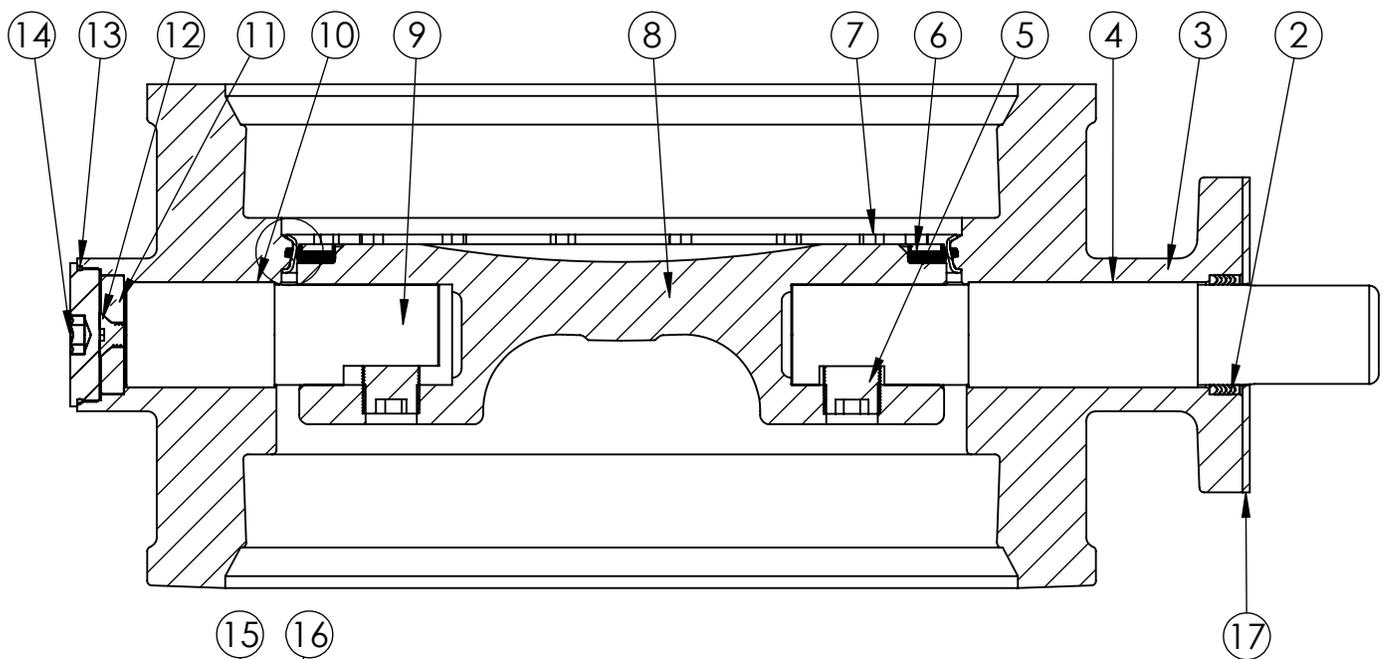
DRAWN: CTJ

DATE: 2/14/2020

DWG. NO.

BD16-M3-B01-000

16" - STYLE 4500 - RATED CL250
BFV WITH F/A16 MSS/ISO
CONNECTION- MJ X MJ ENDS



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	OPERATOR SHAFT	630 STAINLESS STEEL, ASTM A-564
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
17	ISO FA16 SEAL PLATE	COMMERCIAL STEEL

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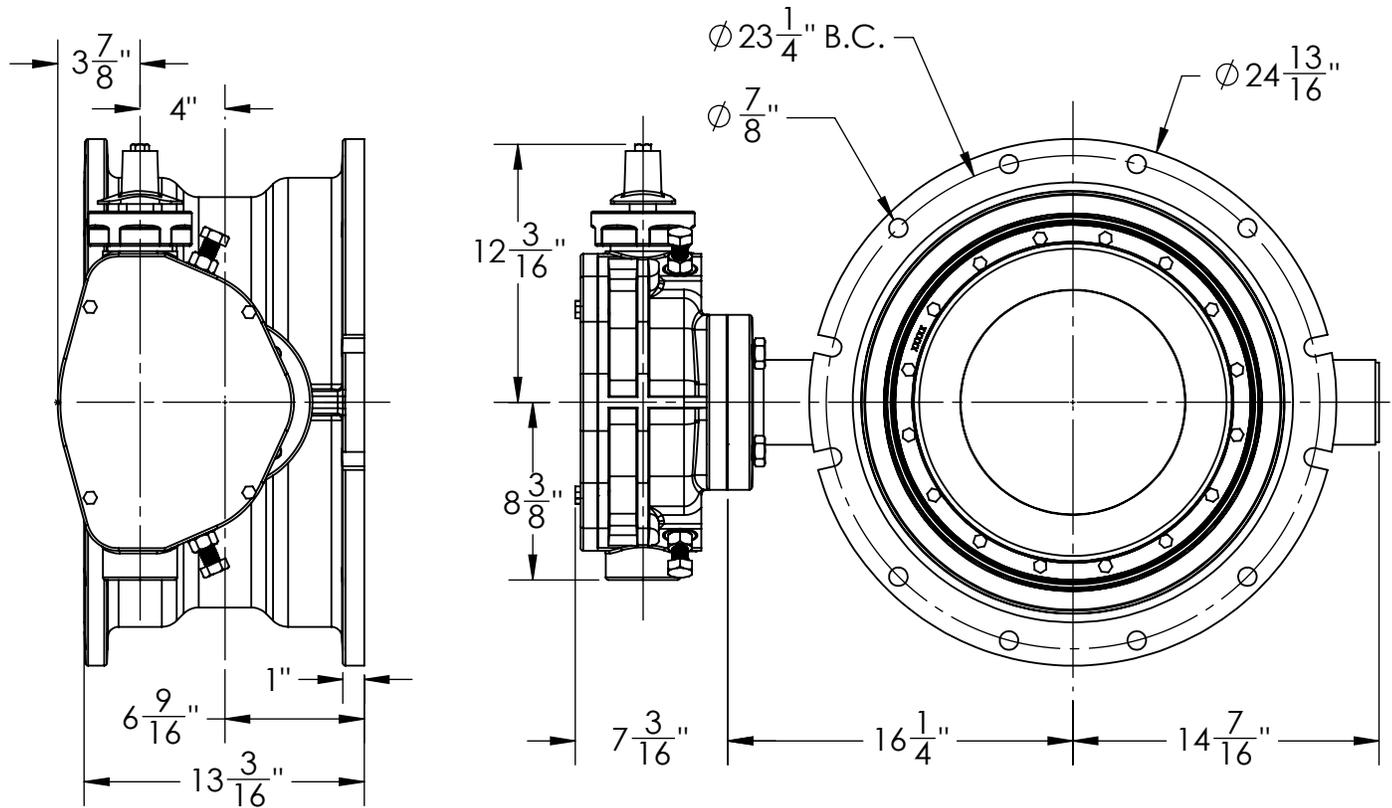


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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BB18-M3-B01-000

18" AWWA C504 - STYLE 4500 - RATED CL250
BFV w/ F/A16 MSS/ISO CONNECTION
SUB-ASSEMBLY - MATERIAL LIST
MJ ENDS



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 48 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 3/4" DIA. OF BOLTS
7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, & BOLTS FOR MECH. JOINT FURNISHED w/ VALVE WHEN SPECIFIED ON ORDERS

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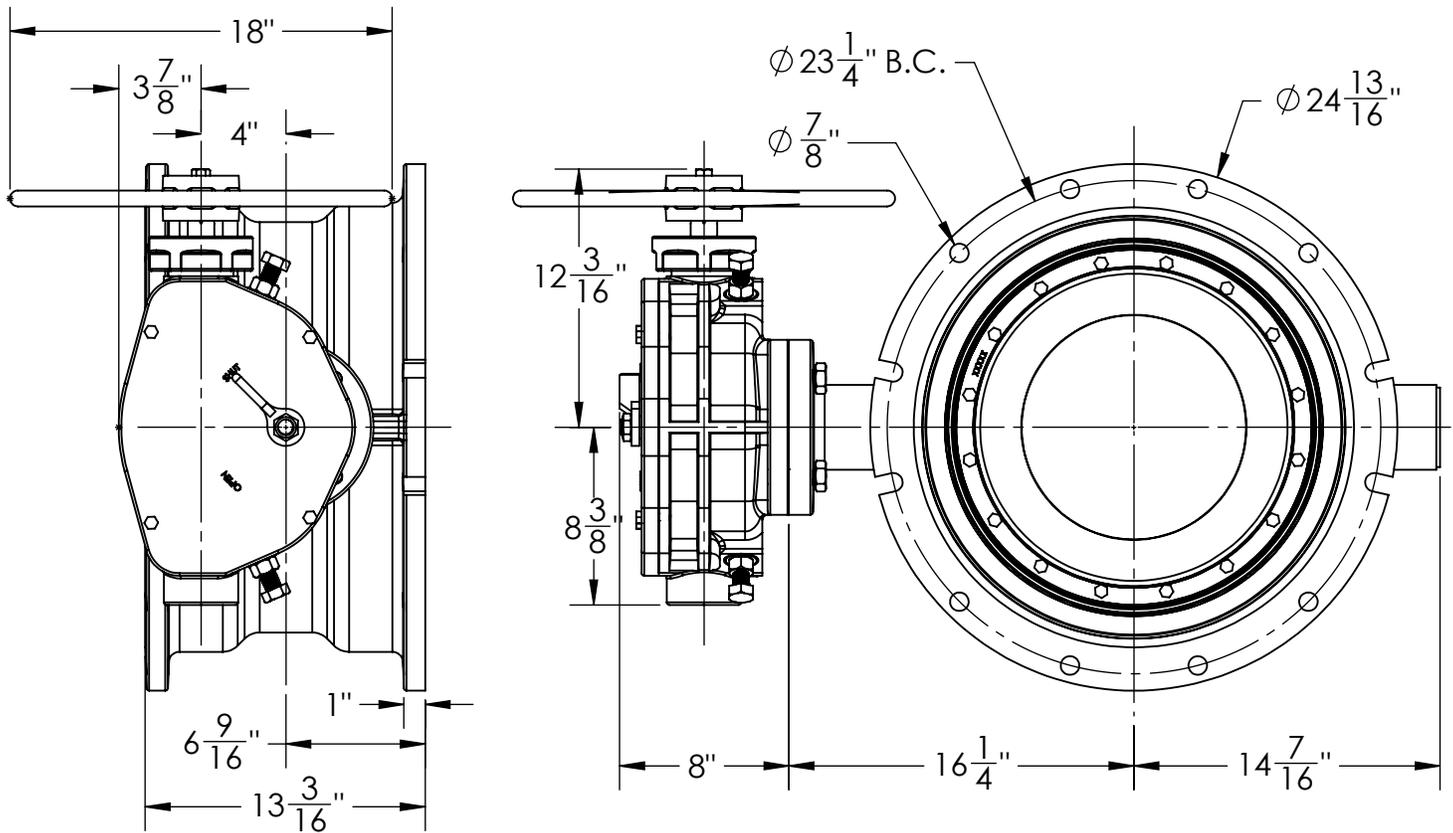
DRAWN: CTJ

DATE: 7/25/2019

DWG. NO.

BD18-M3-M11-000

18" - Style 4500 - RATED CL250
BFV with F/A16 MSS/ISO Connection-
MECHANICAL JOINT ENDS
Buried Operator



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 48 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 3/4" DIA. OF BOLTS
7. OPERATED BY 18" HANDWHEEL
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, & BOLTS FOR MECH. JOINT FURNISHED w/ VALVE WHEN SPECIFIED ON ORDERS

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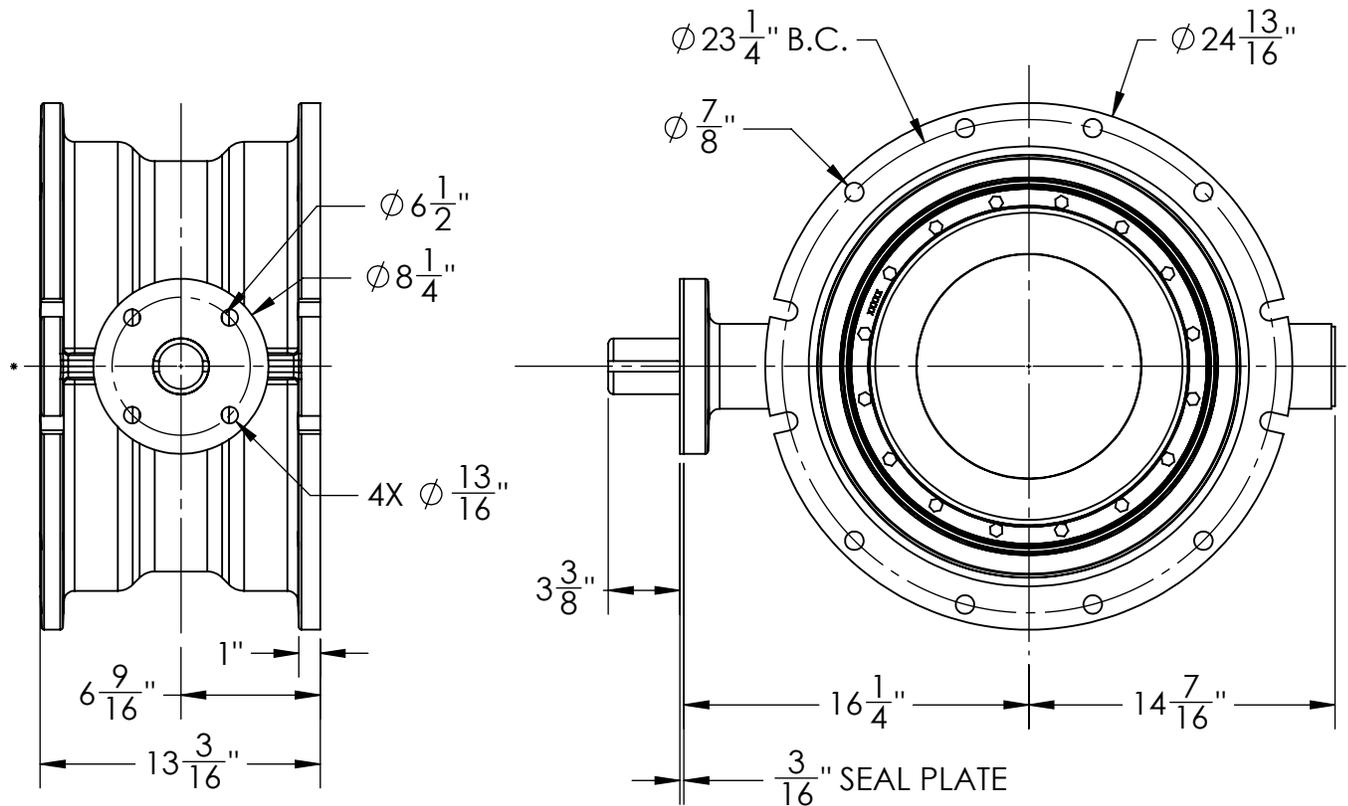
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DATE: 7/25/2019

DWG. NO.

BD18-M3-M31-000

18" - Style 4500 - RATED CL250
BFV with F/A16 MSS/ISO Connection-
MECHANICAL JOINT ENDS
Handwheel Operator



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 12 BOLTS ON EACH FLANGE
5. 3/4" DIA. OF BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS, & BOLTS FOR MECH. JOINT FURNISHED w/ VALVE WHEN SPECIFIED ON ORDERS

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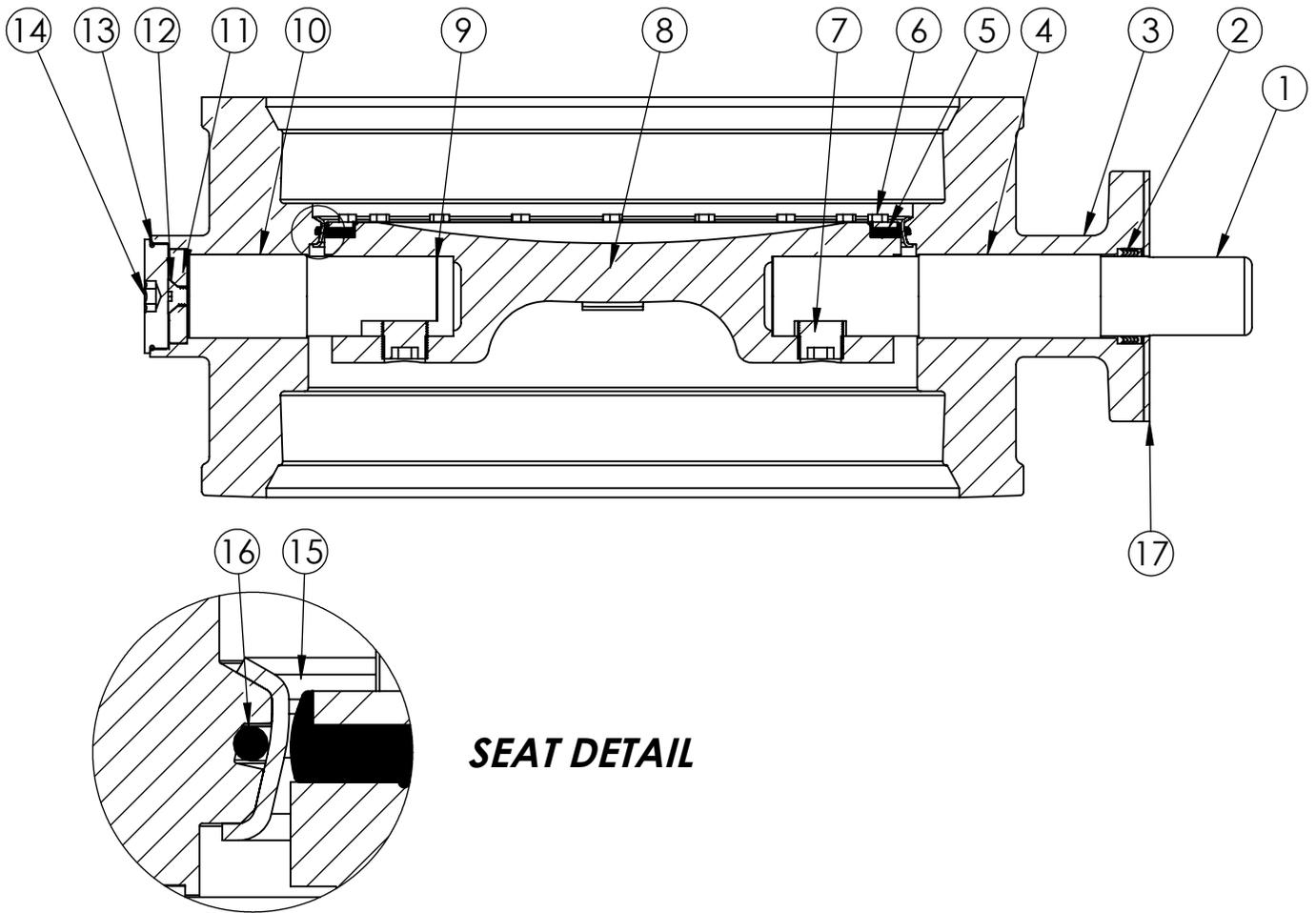
DRAWN: CTJ

DATE: 7/25/2019

DWG. NO.

BD18-M3-B01-000

18" - Style 4500 - RATED CL250
BFV with F/A16 MSS/ISO Connection
MECHANICAL JOINT ENDS
BARESTEM



SEAT DETAIL

ITEM NO.	DESCRIPTION	MATERIAL
1	OPERATOR SHAFT	630 STAINLESS STEEL, ASTM A-564
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	FIBER & REINFORCED TEFLON
5	VANE SEAT RING	EPT W/ STAINLESS STEEL INSERT
6	HEX HEAD CAP SCREW	18-8 STAINLESS STEEL W/ NYLOC PATCH
7	TORQUE PLUG	304 STAINLESS STEEL, ASTM A-276
8	BFV VANE	DUCTILE IRON ASTM A-536
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
17	ISO FA16 SEAL PLATE	COMMERCIAL STEEL

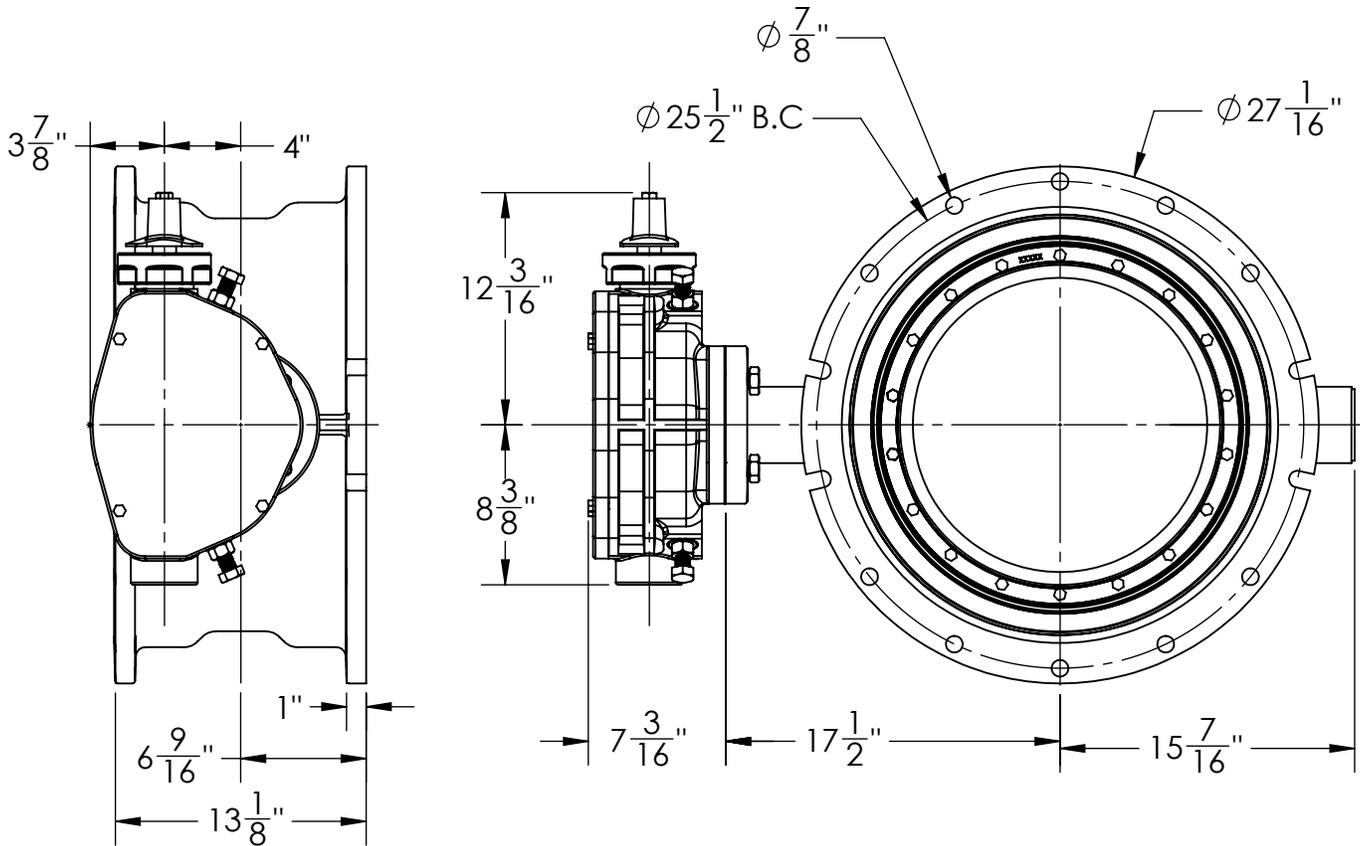
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DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
 BB20-M3-B01-000

20" AWWA C504 - STYLE 4500 - RATED CL250
 BFV w/ F/A16 MSS/ISO CONNECTION
 SUB-ASSEMBLY - MATERIAL LIST
 MECHANICAL JOINT 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. 48 TURNS TO CLOSE
5. 14 BOLTS ON EACH FLANGE
6. 3/4" DIAMETER OF BOLTS
7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE SPECIFIED ON ORDER

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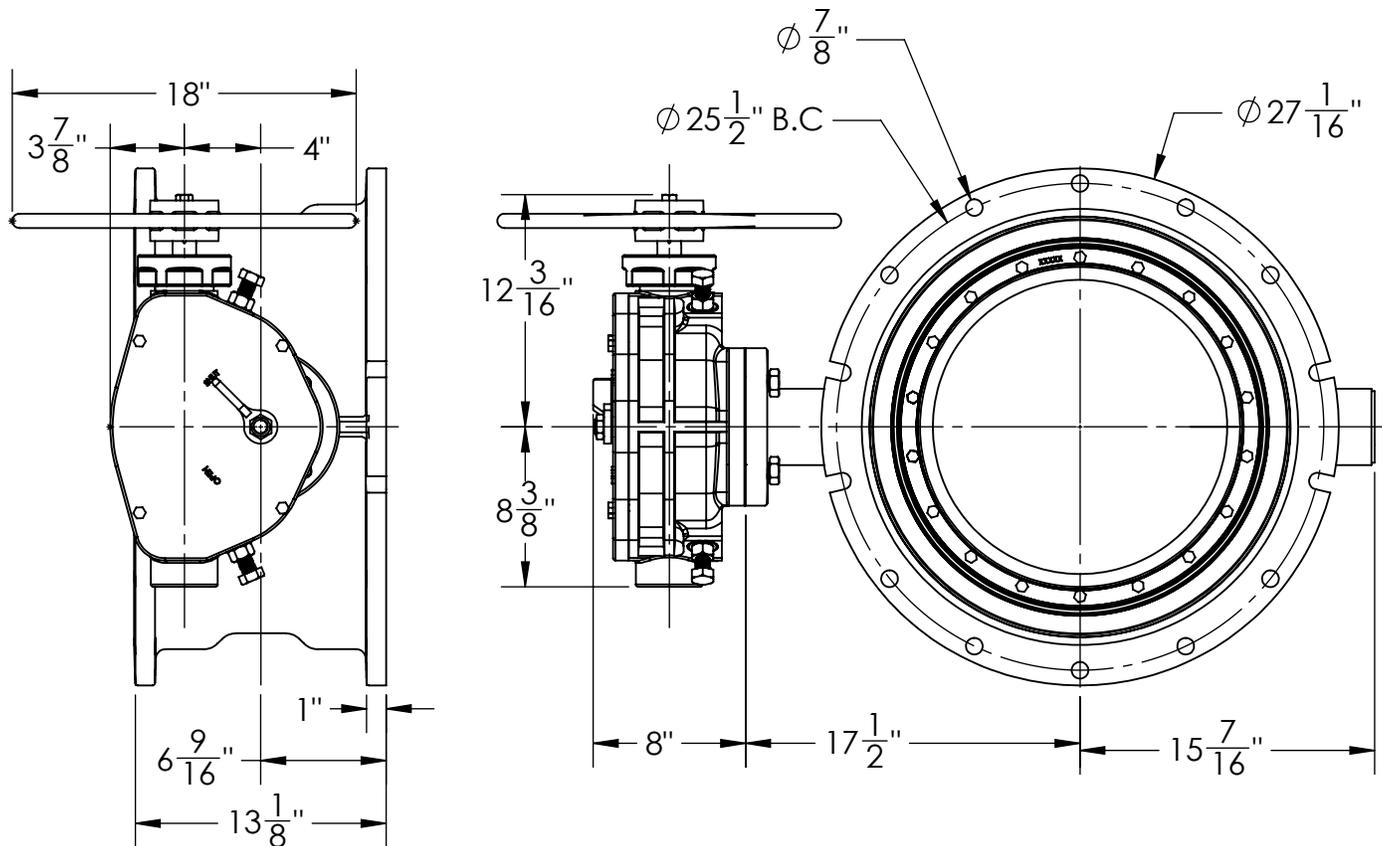


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ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD20-M3-M11-000

**20" - Style 4500 - RATED CL250
BFV w/ F/A16 MSS/ISO Connection
Mechanical Joints
Buried Operator**



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. 48 TURNS TO CLOSE
5. 14 BOLTS ON EACH FLANGE
6. 3/4" DIAMETER OF BOLTS
7. OPERATED BY 18" HANDWHEEL
8. RATED AND TESTED FOR 250psi WORKING PRESSURE
9. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE SPECIFIED ON ORDER

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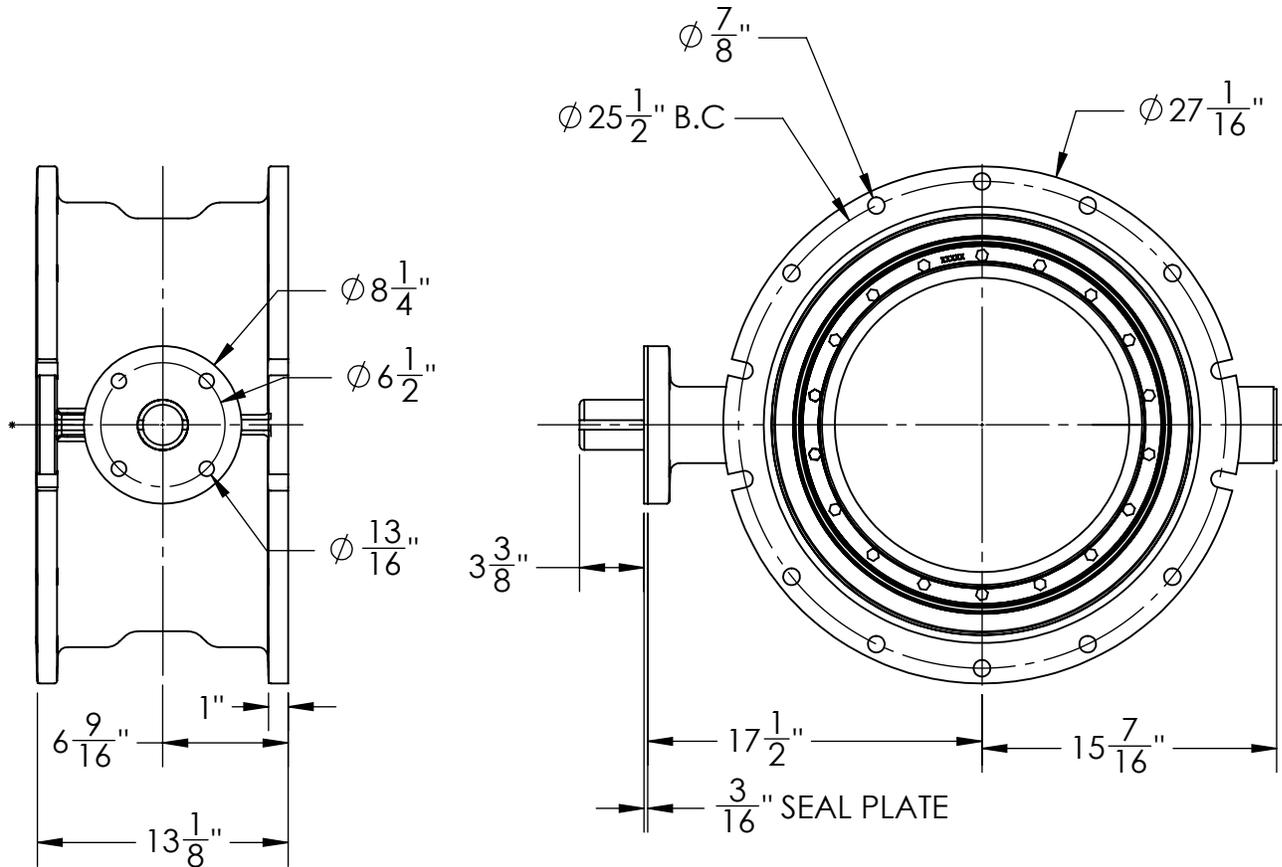


M&H VALVE COMPANY

A DIVISION OF McWANE INC.
P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD20-M3-M31-000

**20" - Style 4500 - RATED CL250
BFV w/ F/A16 MSS/ISO Connection
Mechanical Joints
Handwheel Operator**



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. 14 BOLTS ON EACH FLANGE
5. 3/4" DIAMETER OF BOLTS
6. RATED AND TESTED FOR 250psi WORKING PRESSURE
7. GASKETS, GLANDS, AND BOLTS FOR MECHANICAL JOINT FURNISHED WITH VALVE SPECIFIED ON ORDER

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M&H VALVE COMPANY

A DIVISION OF McWANE INC.
P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/25/2019
DWG. NO.
BD20-M3-B01-000

**20" - Style 4500 - RATED CL250
BFV w/ F/A16 MSS/ISO Connection
Mechanical Joints
BARESTEM**