

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. (4) 5/8"-11 UNC HOLES, THREADED THRU
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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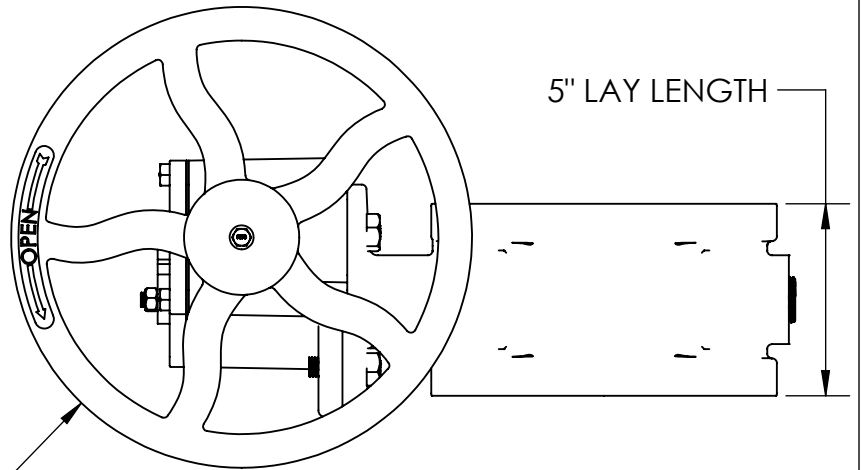


M&H VALVE COMPANY

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

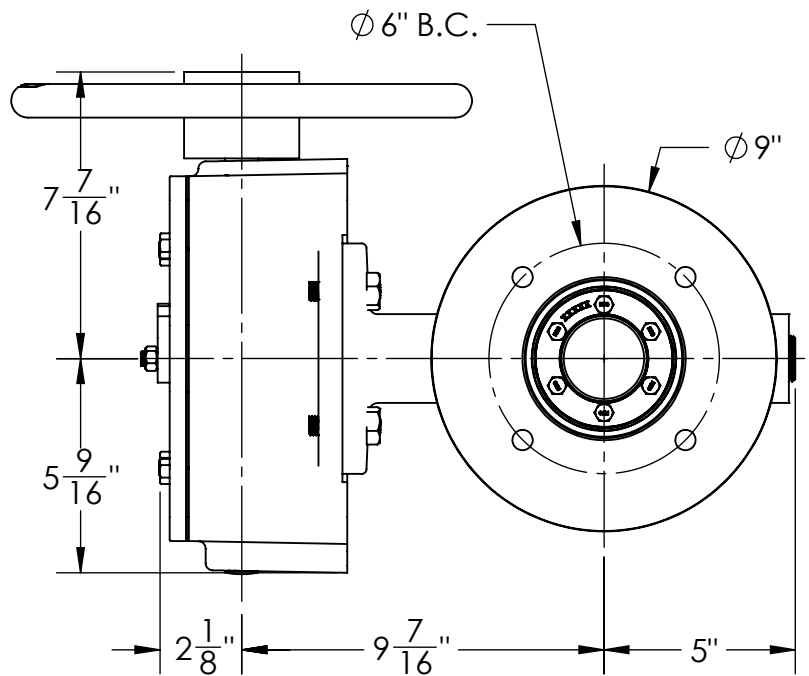
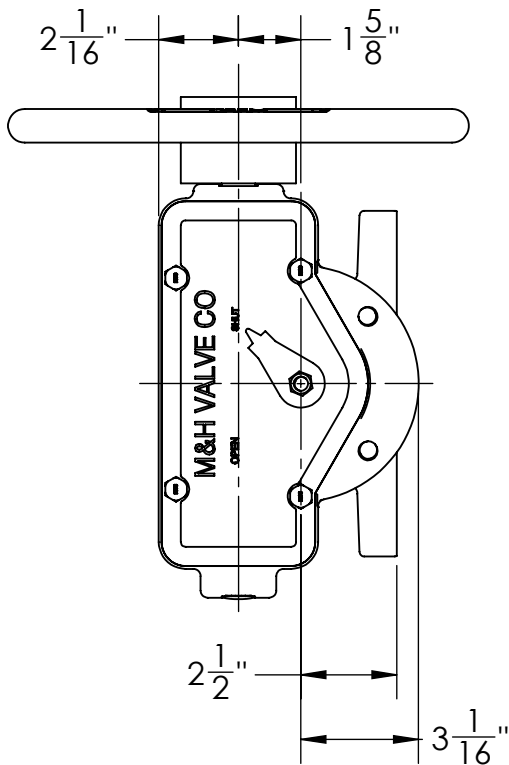
DRAWN: CTJ
DATE: 6/30/2020
DWG. NO.
BD03-F1-M11-000

**3" - Style 4500 BFV - CL150
w/ F/A 12 MSS/ISO Connection
BURIED OPERATOR - OPEN LEFT
FLANGED ENDS**



Ø 12"

5" LAY LENGTH



Ø 6" B.C.

Ø 9"

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. (4) 5/8"-11 UNC HOLES, THREADED THRU
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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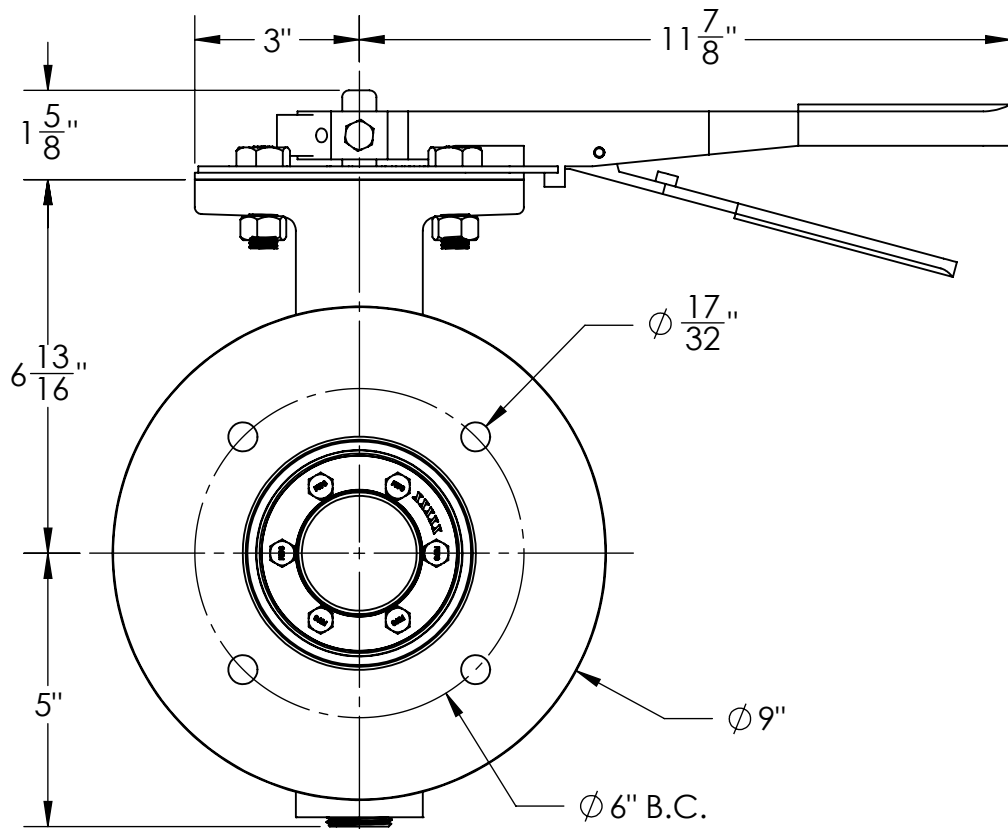
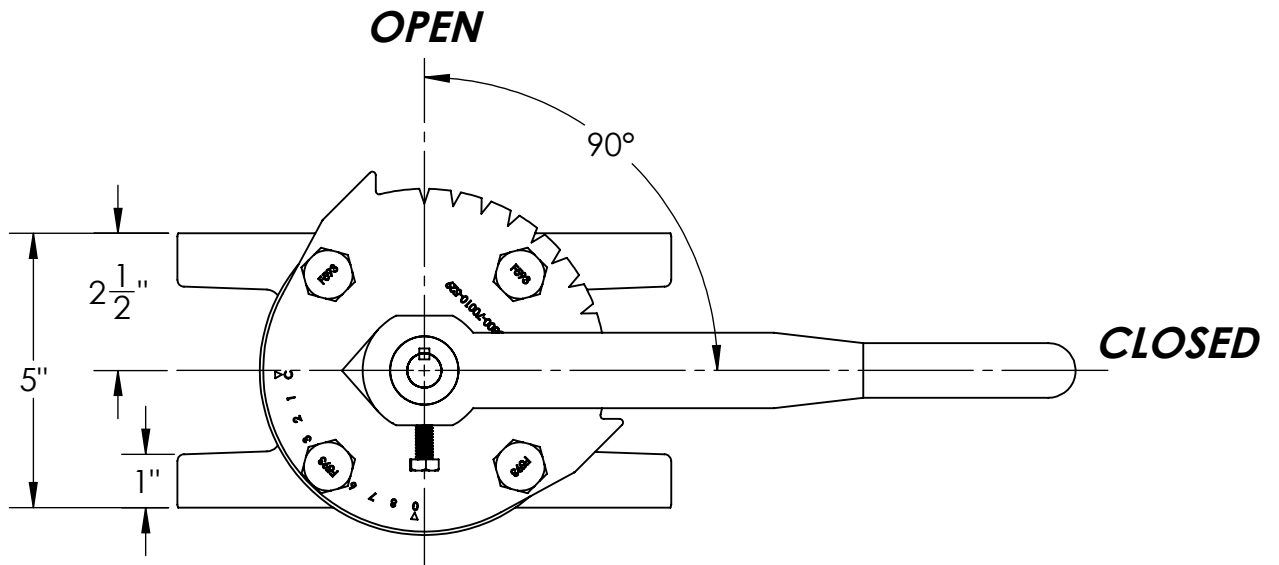


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DRAWN: CTJ
DATE: 6/30/2020
DWG. NO.
BD03-F1-M31-000

**3" - Style 4500 BFV - CL150
w/ F/A 12 MSS/ISO Connection
HANDWHEEL OPERATOR - OPEN LEFT
FLANGED 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. 4 BOLTS ON EACH FLANGE
5. 1/2" DIAMETER OF BOLTS
6. OPERATED BY 10 POSITION LEVER OPERATOR
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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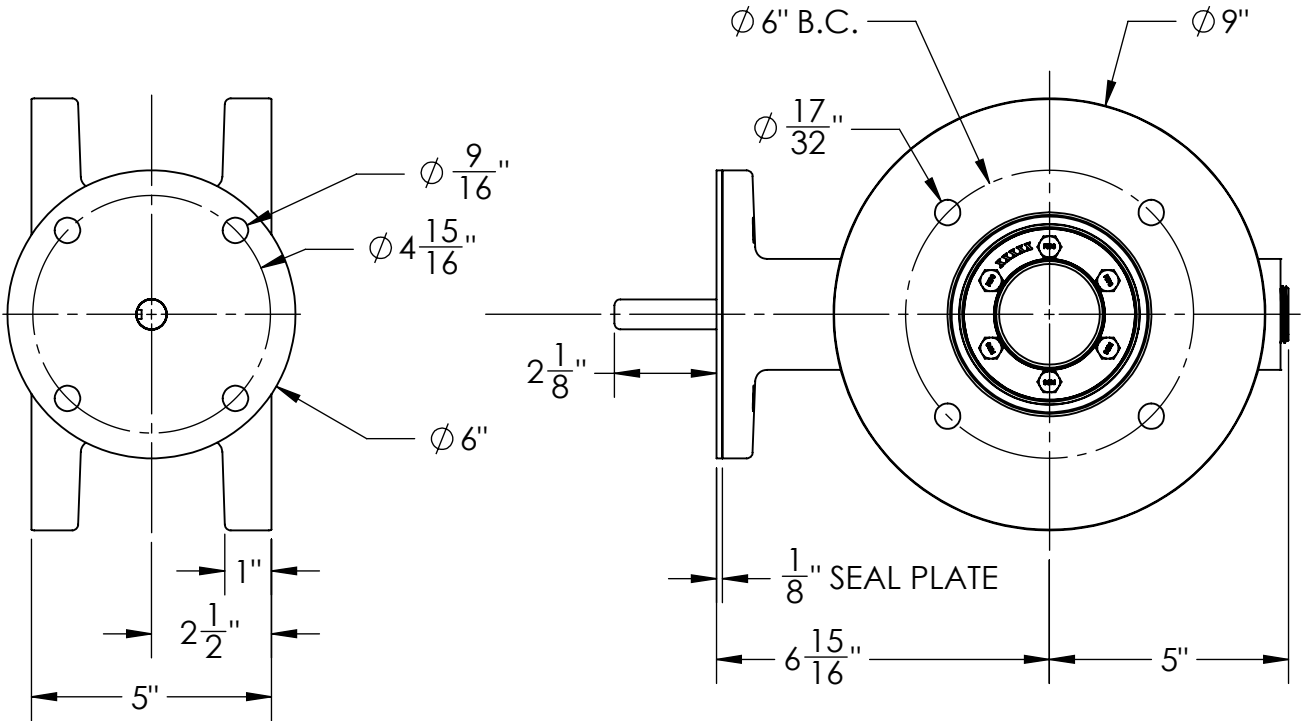


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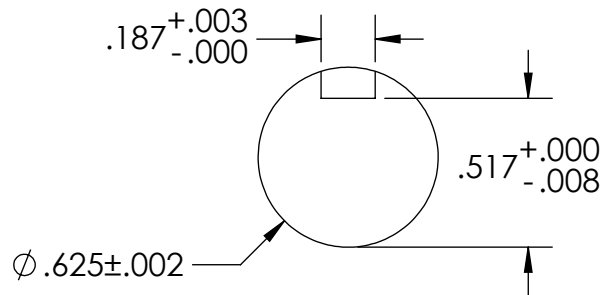
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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 3/18/20
DWG. NO.
BD03-F1-L01-000

**3" - Style 4500 BFV - CL150
w/ F/A 12 MSS/ISO Connection
LEVER OPERATOR - FLANGED ENDS**



SHAFT INFORMATION



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. 4 BOLTS ON EACH FLANGE
5. 1/2" DIAMETER OF BOLTS
6. RATED AND TESTED FOR 150psi WORKING PRESSURE

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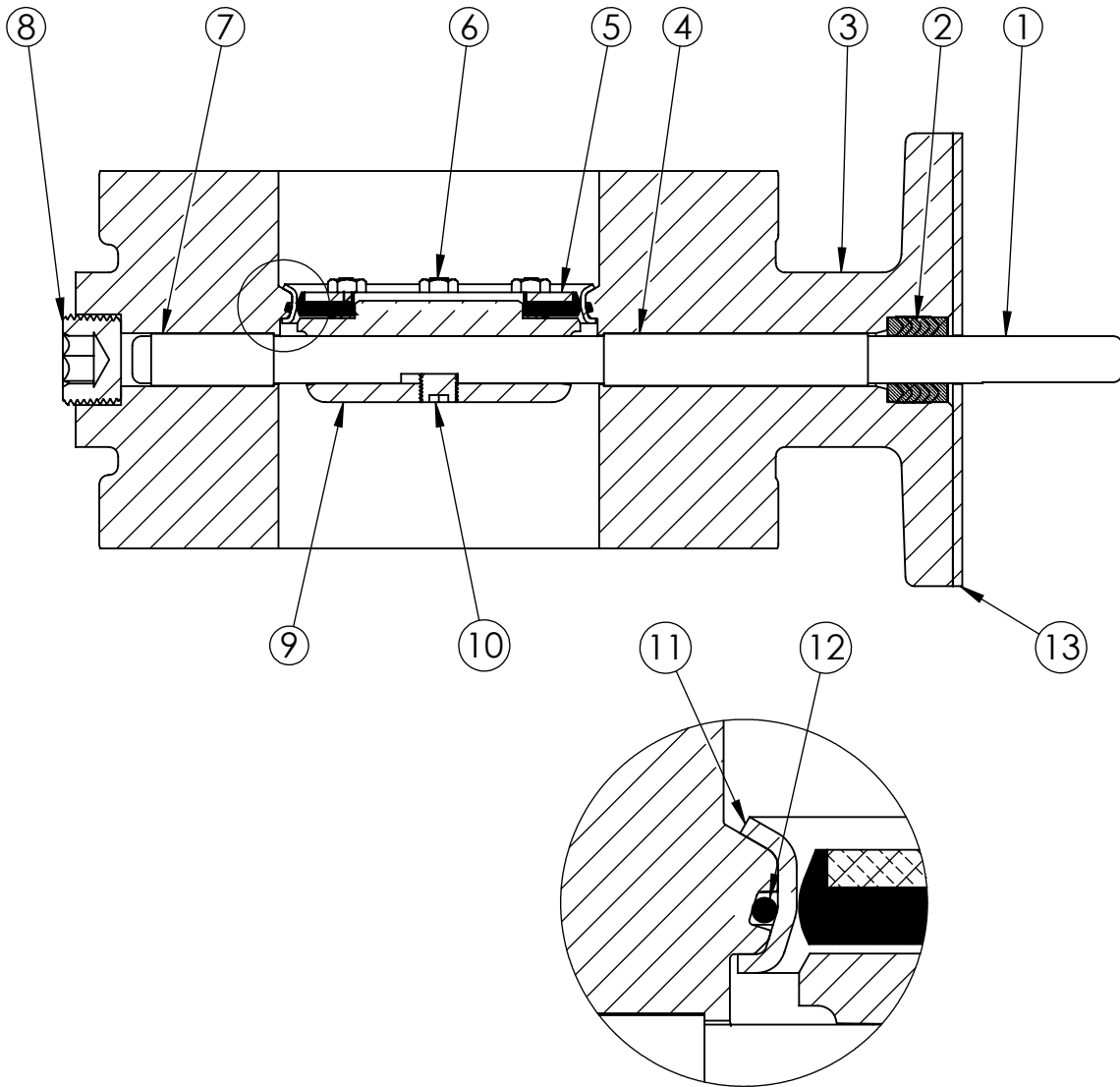


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P.O. BOX 2088
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DRAWN: CTJ
DATE: 3/18/20
DWG. NO.
BD03-F1-B01-000

**3" - Style 4500 BFV - CL150
w/ F/A 12 MSS/ISO Connection
BARE STEM - FLANGED ENDS**



| 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 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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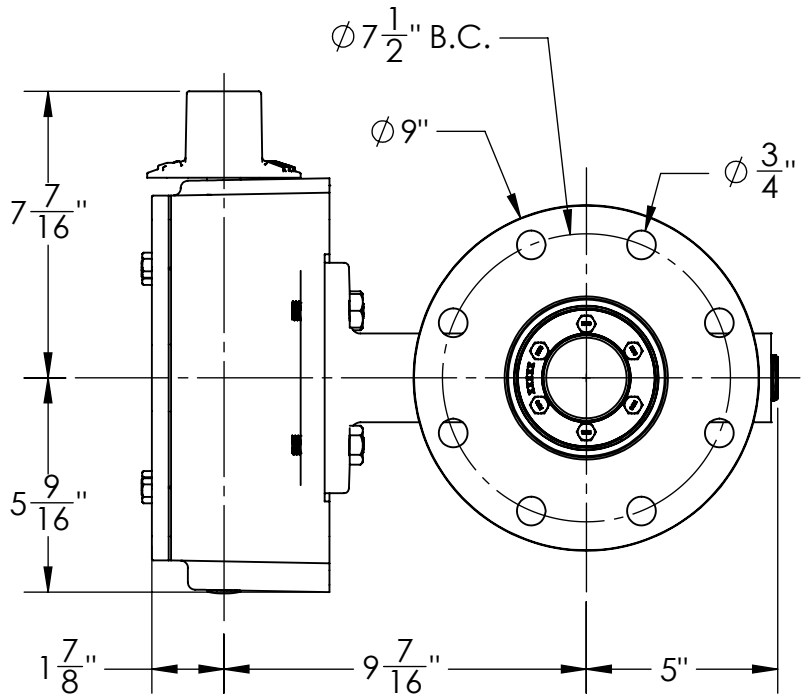
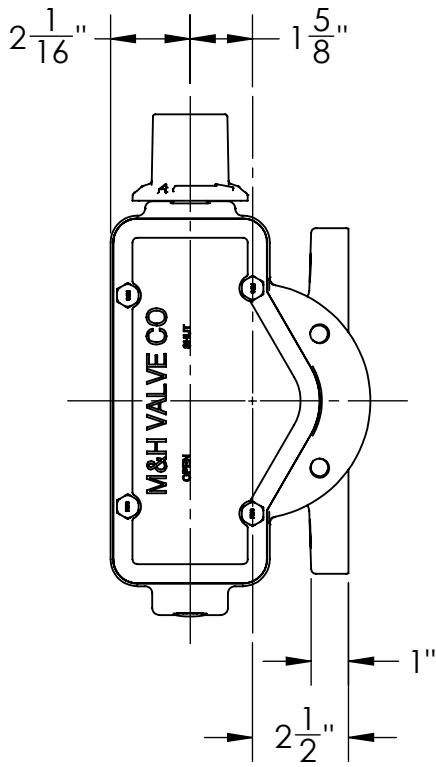
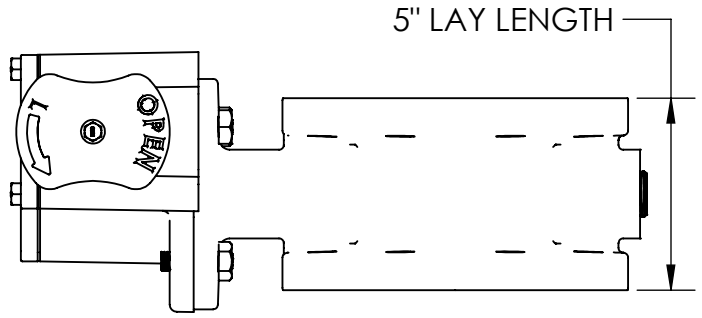


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DRAWN: CTJ
DATE: 3/18/20
DWG. NO.
BB03-F1-B01-000

**3" AWWA C504 - Style 4500 - CL150
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
FLANGED END**



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) 5/8" DIAMETER BOLTS (NO THREADED HOLES)
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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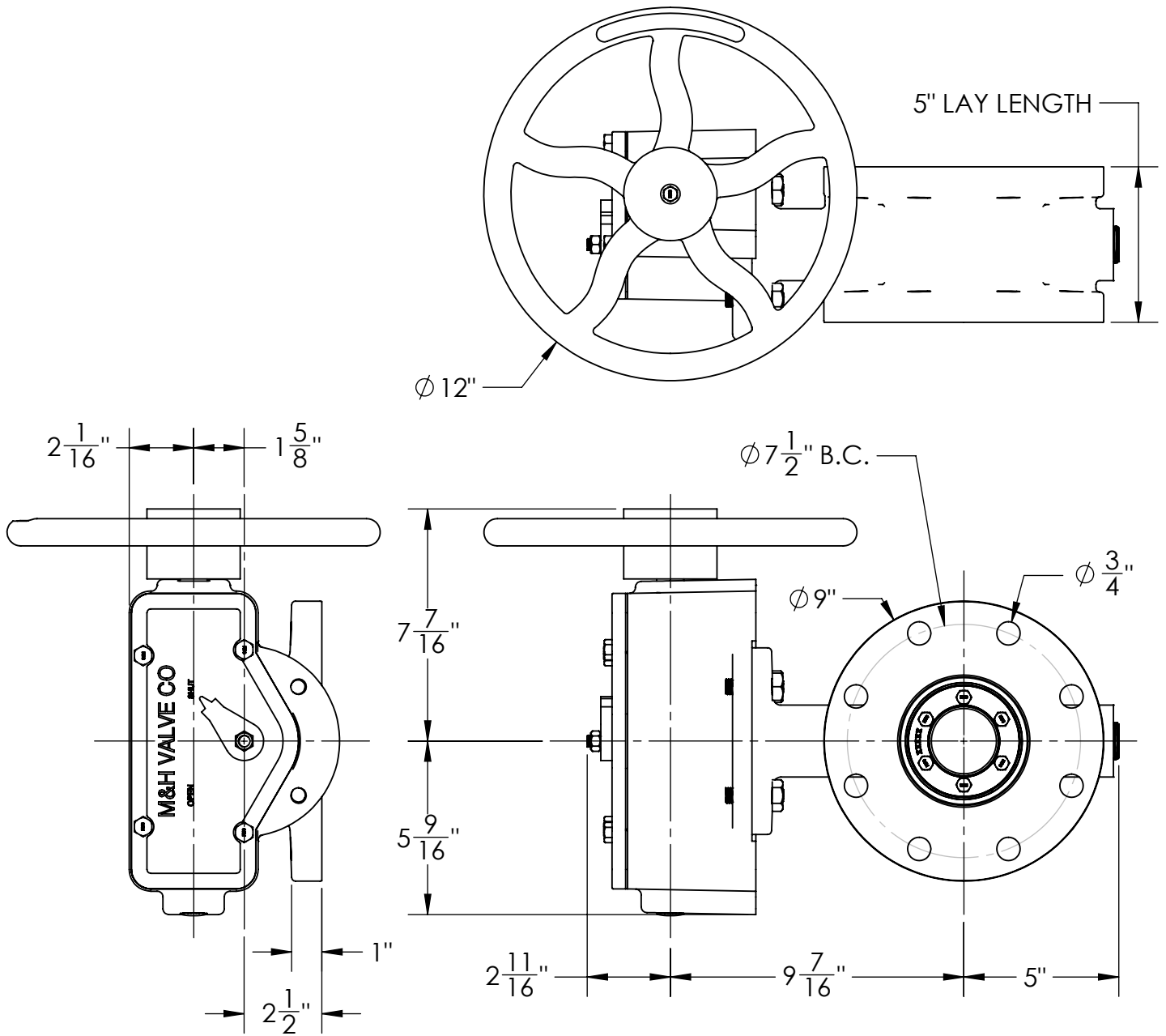


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DRAWN: CTJ
DATE: 6/30/2020
DWG. NO.
BD04-F1-M11-000

4" - Style 4500 BFV - CL150
w/ F/A 12 MSS/ISO Connection
FLANGED 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) 5/8" DIAMETER BOLTS (NO THREADED HOLES)
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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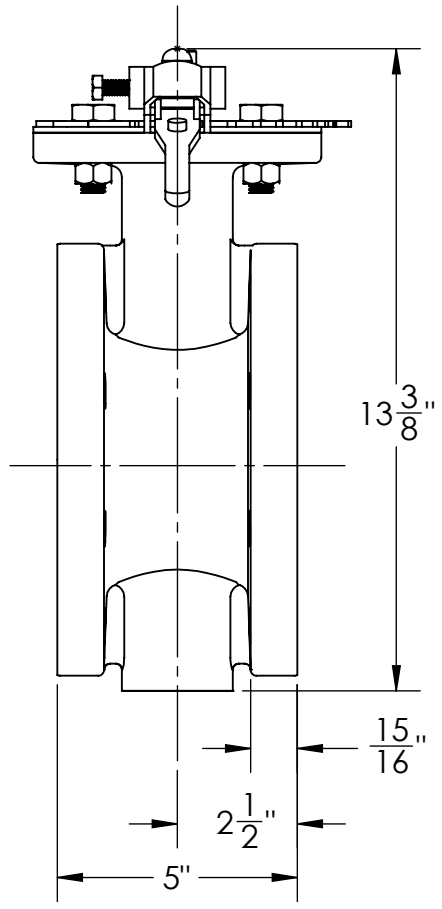
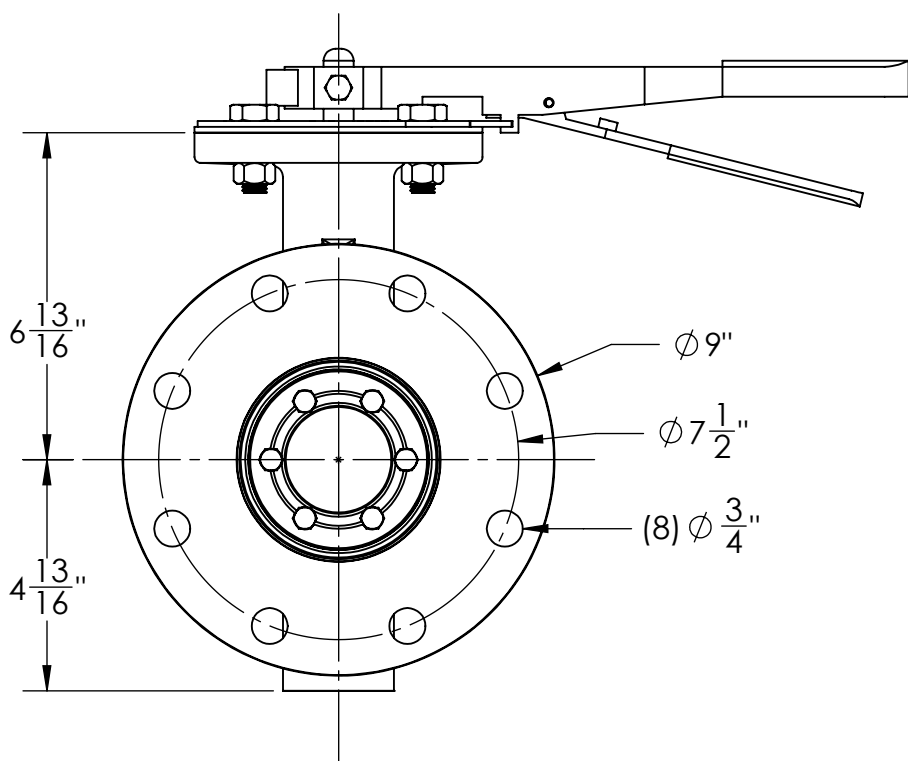
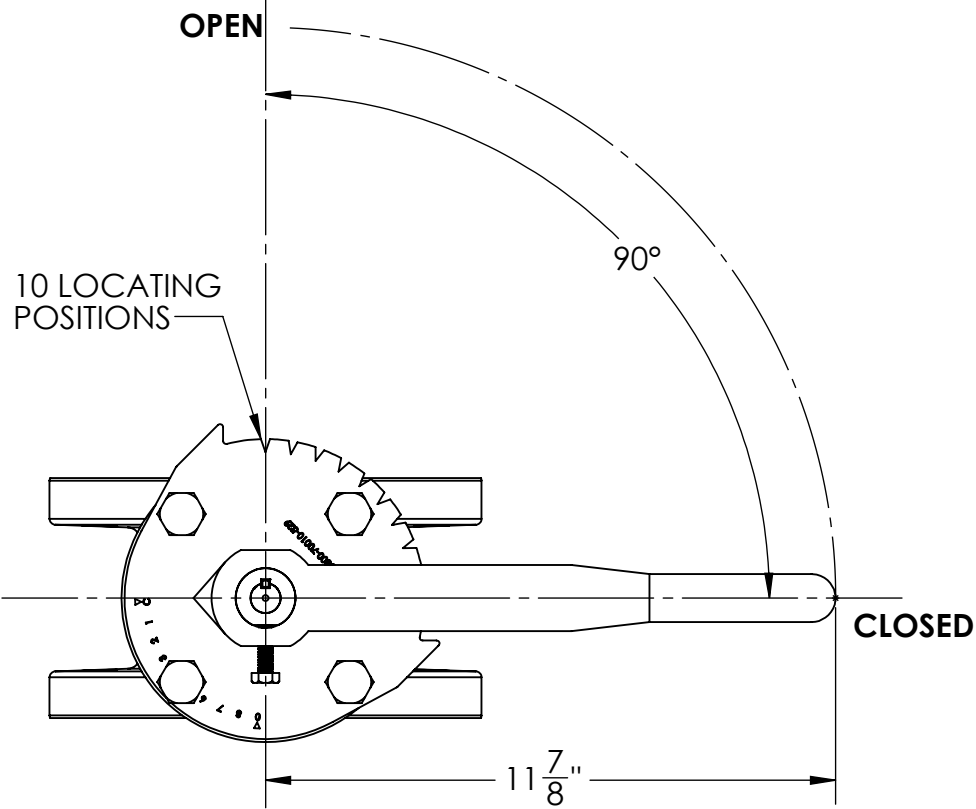


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DRAWN: CTJ
DATE: 4/16/2020
DWG. NO.
BD04-F1-M31-000

4" - Style 4500 BFV - CL150
w/ F/A 12 MSS/ISO Connection
FLANGED ENDS
Handwheel Operator - OPEN LEFT



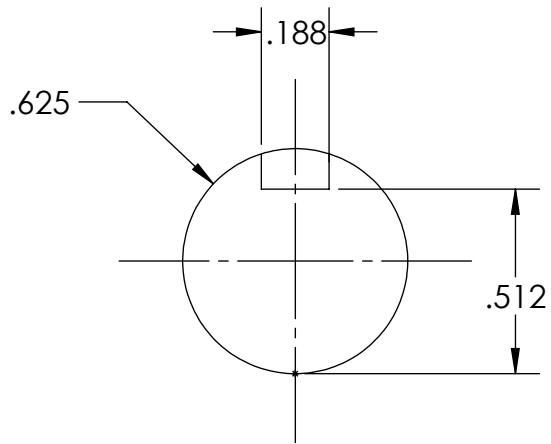
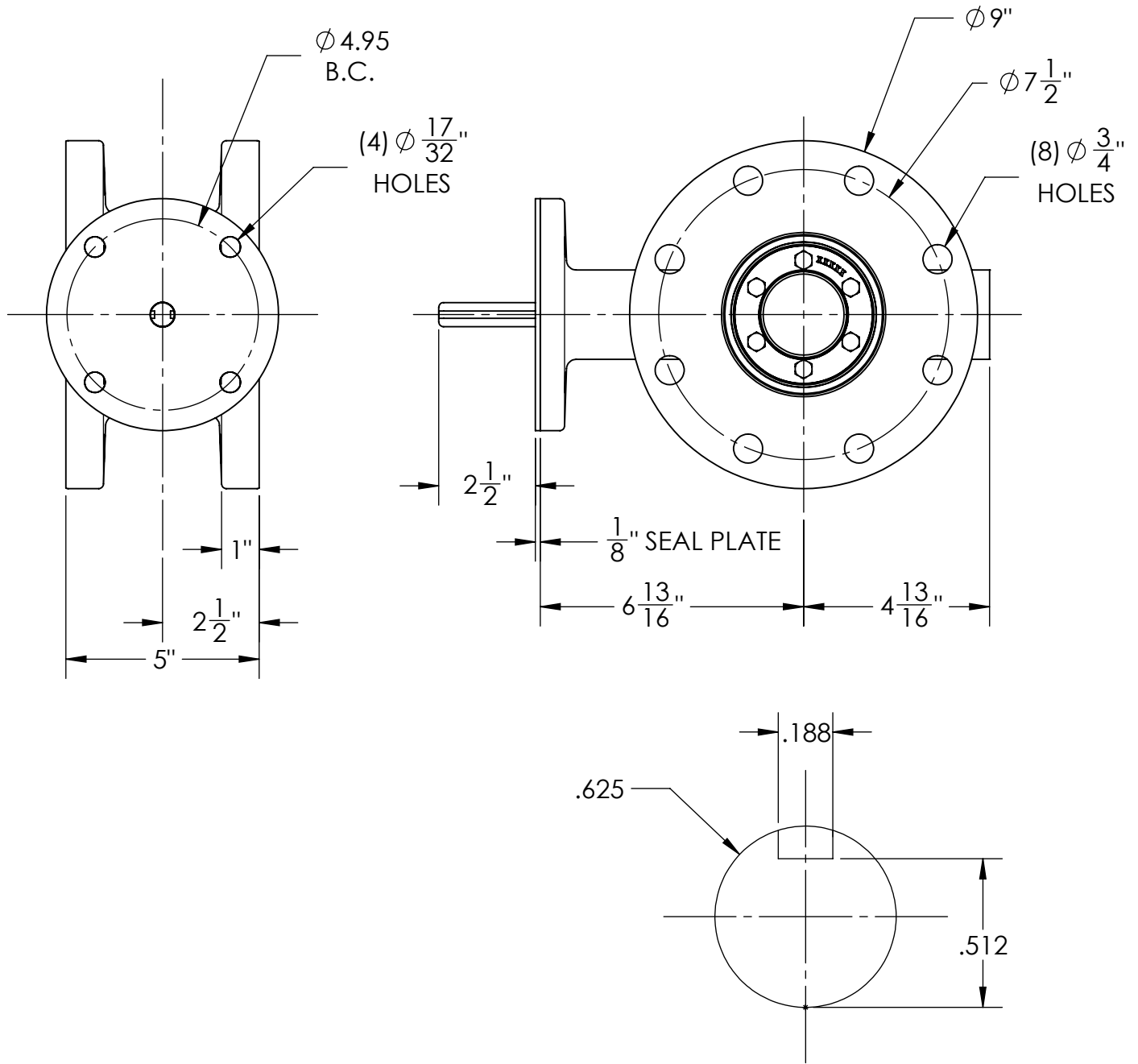
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DRAWN: ZF
DATE: 11/30/2018
DWG. NO. B04FAL1100

4" ISO BFV FLANGED END
 W/ FA12 MOUNTING
 LEVER 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. (8) ϕ 3/4" BOLTS/BOLTS ON EACH FLANGE
5. RATED AND TESTED FOR 150psi WORKING PRESSURE

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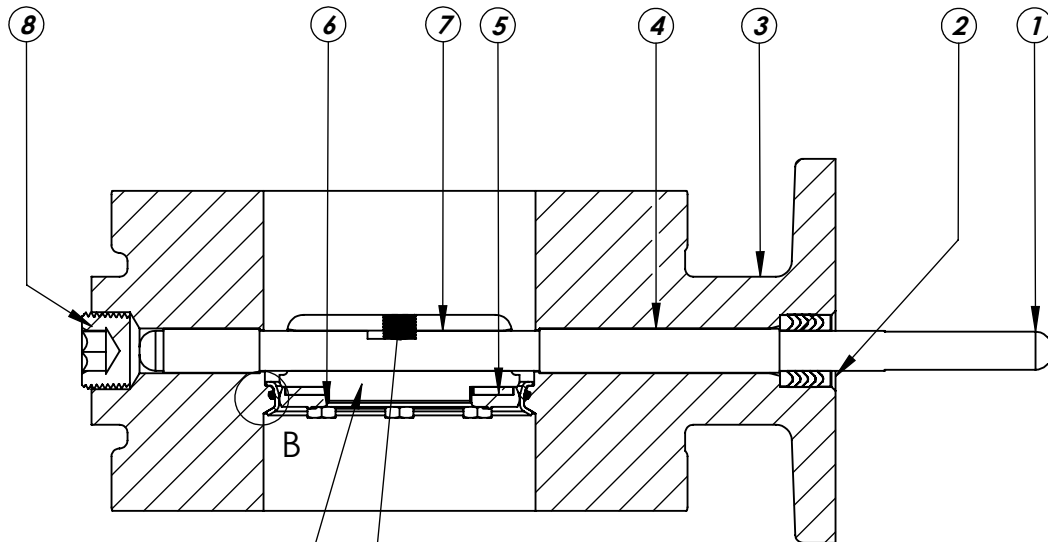
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DATE: 4/18/2019

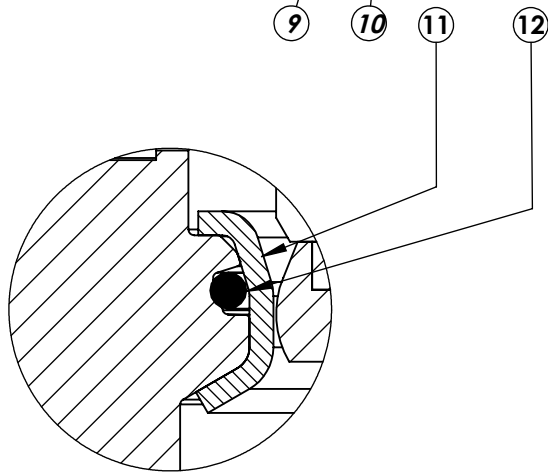
DWG. NO.

BD04-F1-B01-000

4" AWWA C504 - STYLE 4500 - CL150
BFV W/ F/A 12 MSS/ISO Connection
FLANGED END - BARE STEM



SECTION A-A
SCALE 1 : 3



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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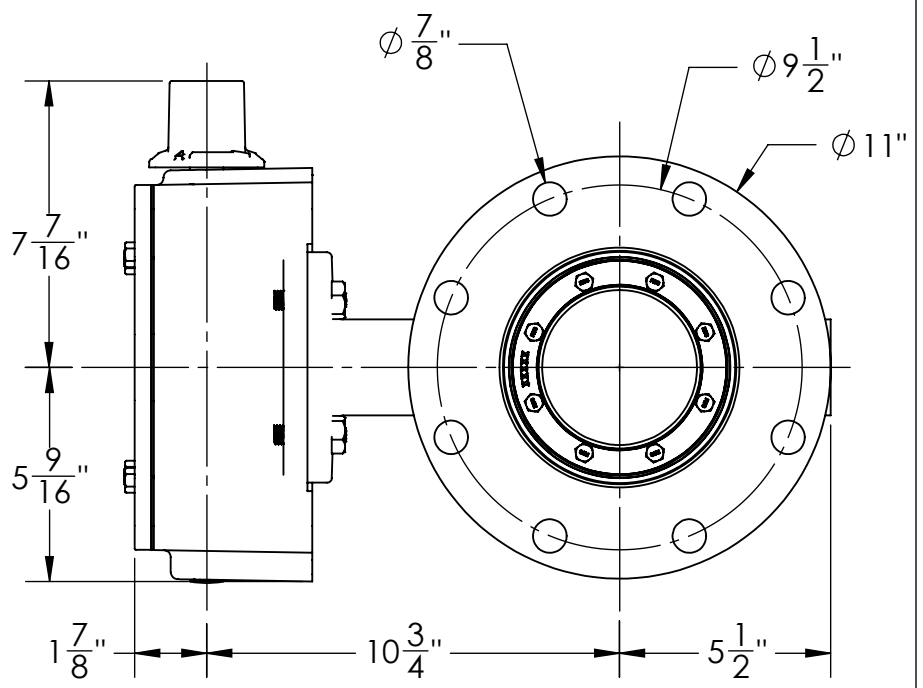
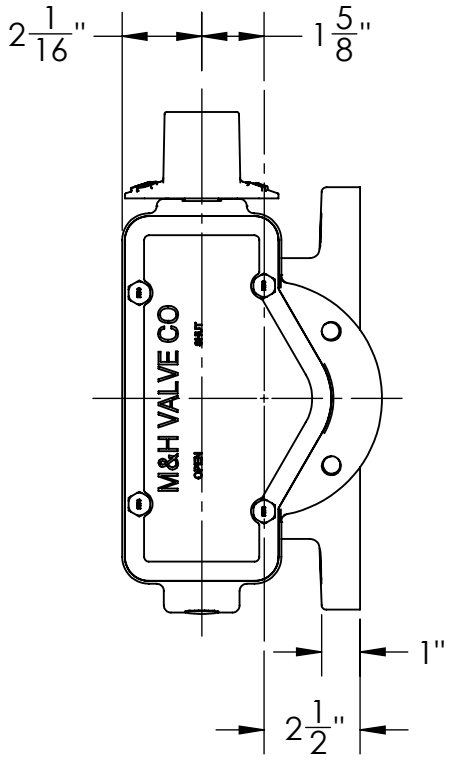
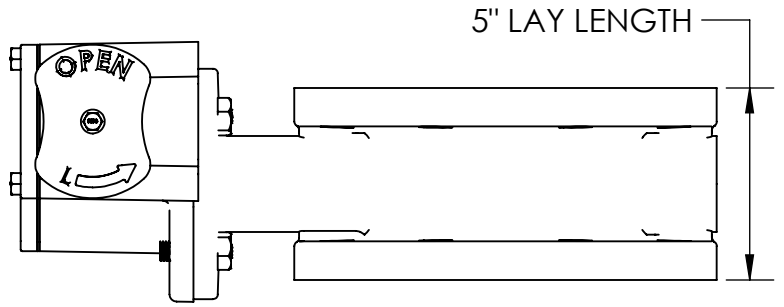
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ANNISTON, ALABAMA 36202

DRAWN: ZF

DATE: 1/4/17

DWG.
NO. B04FBB11

**4" AWWA C504 - Style 4500 - CL150
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
FLANGED END**



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) 3/4" BOLTS ON EACH FLANGE (NO THREADED HOLES)
6. OPERATED BY 2" AWWA OPERATING / WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

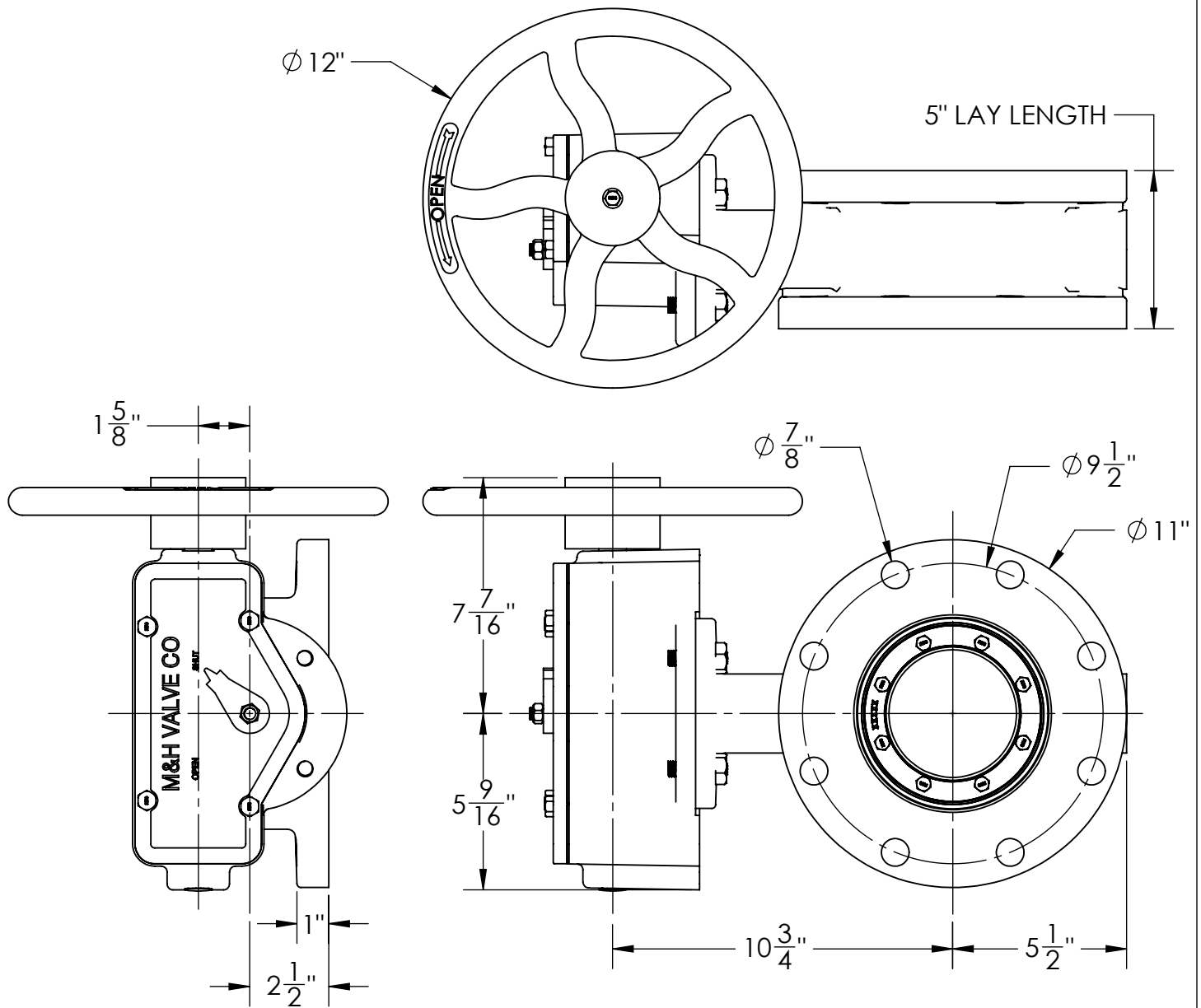
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DRAWN: CTJ
DATE: 5/4/2020
DWG. NO.
 BD06-F1-M11-000

6" - Style 4500 - CL150
 BFV with F/A 12 MSS/ISO Connection
 BURIED Operator - OPEN LEFT
 FLANGED 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. (8) $\frac{3}{4}''$ BOLTS ON EACH FLANGE (NO THREADED HOLES)
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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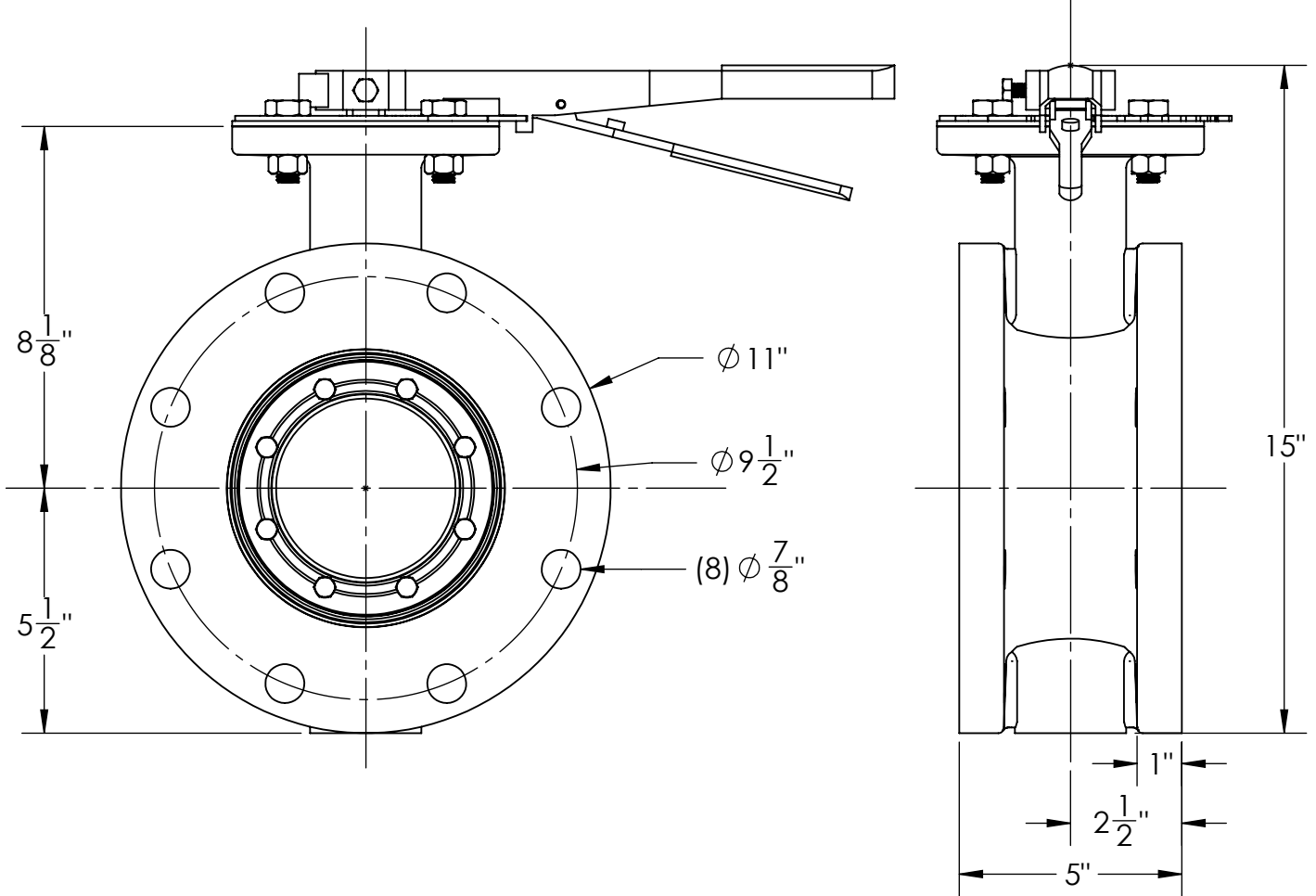
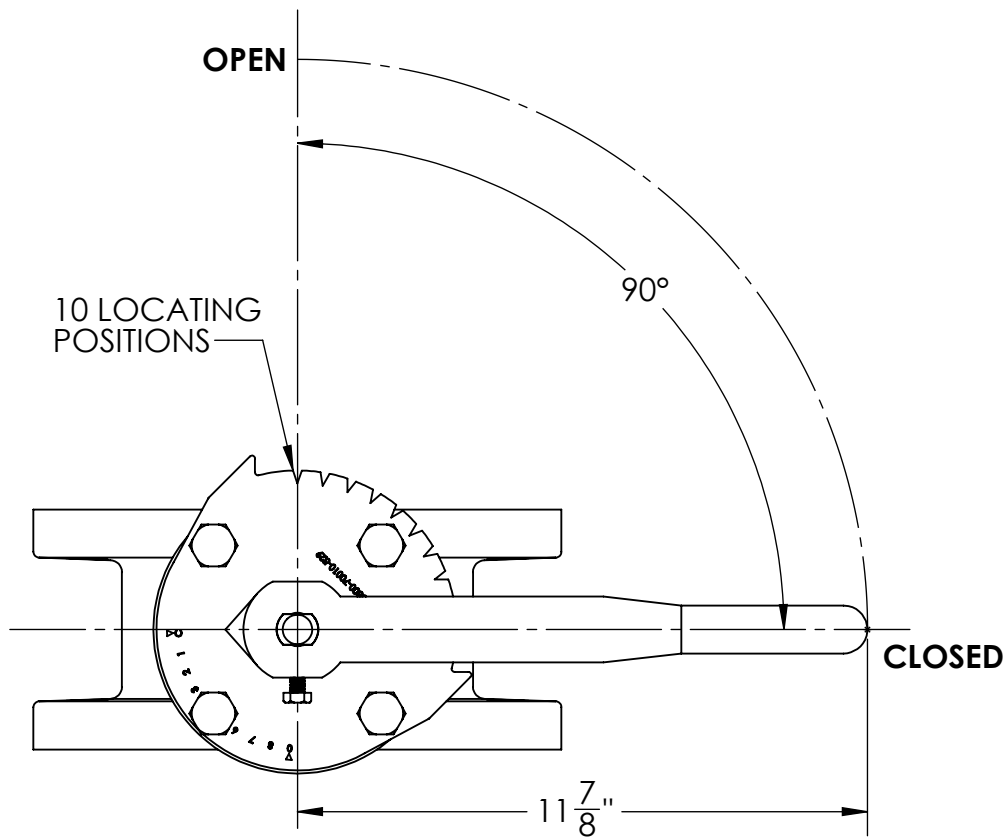


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DRAWN: CTJ
DATE: 7/1/2020
DWG. NO.
BD06-F1-M31-000

6" - Style 4500 - CL150
BFV with F/A 12 MSS/ISO Connection
FLANGED ENDS
HAND WHEEL Operator - OPEN LEFT



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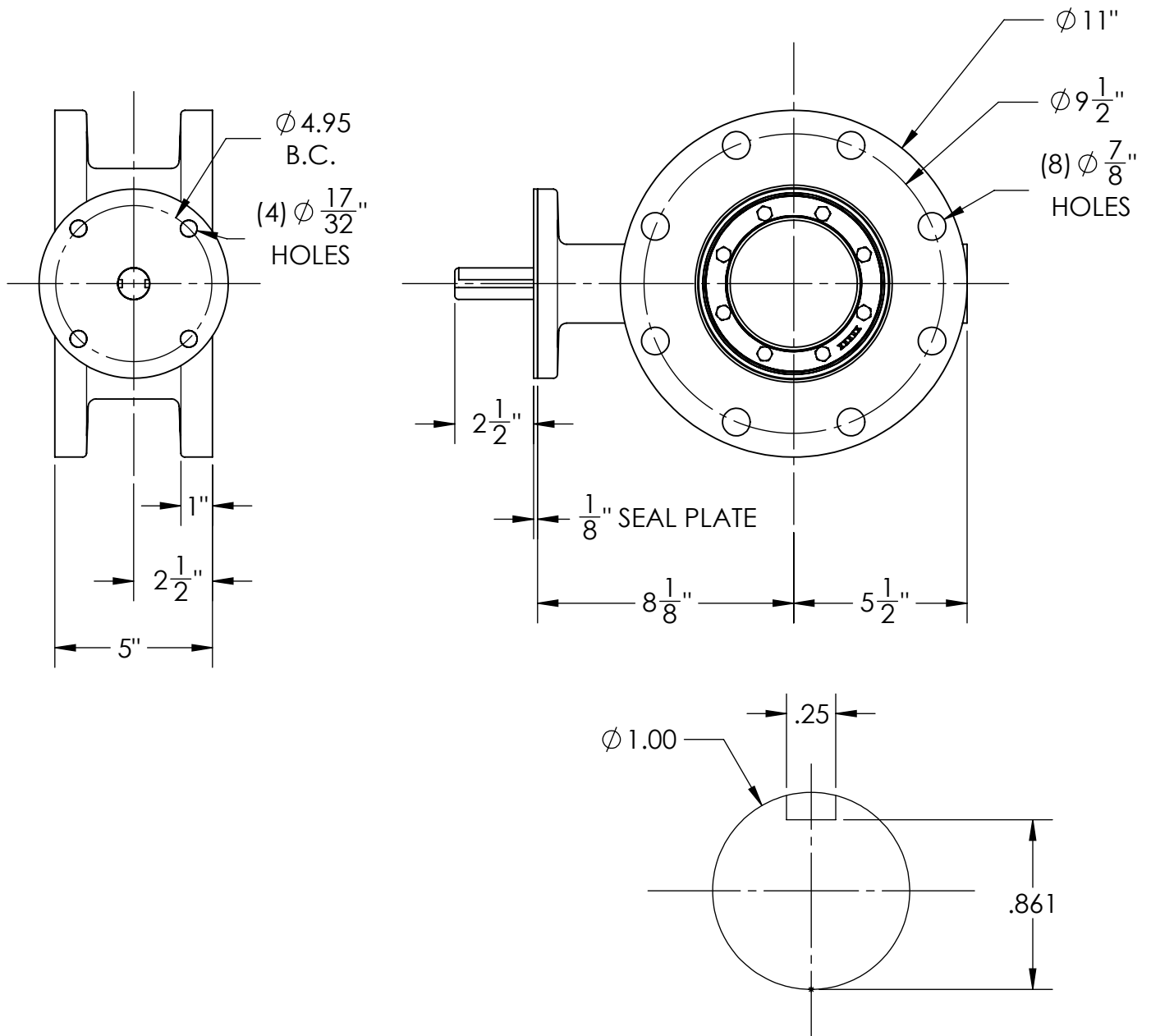
DRAWN: ZF

DATE: 11/30/2018

DWG.

NO. B06FAL1100

6" ISO BFV FLANGED END
W/ FA12 MOUNTING
LEVER OPERATOR



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 150psi WORKING PRESSURE

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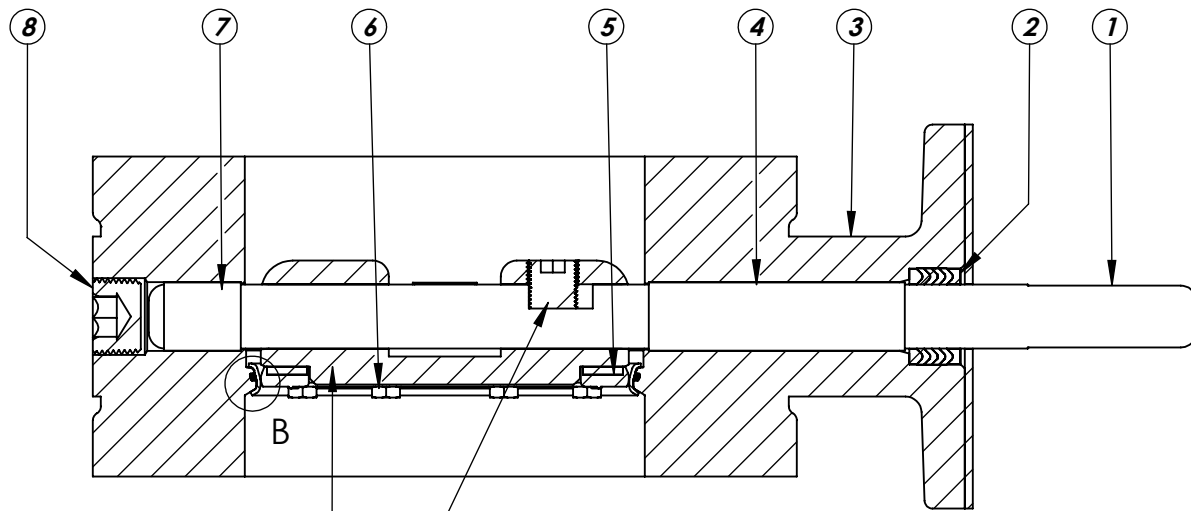


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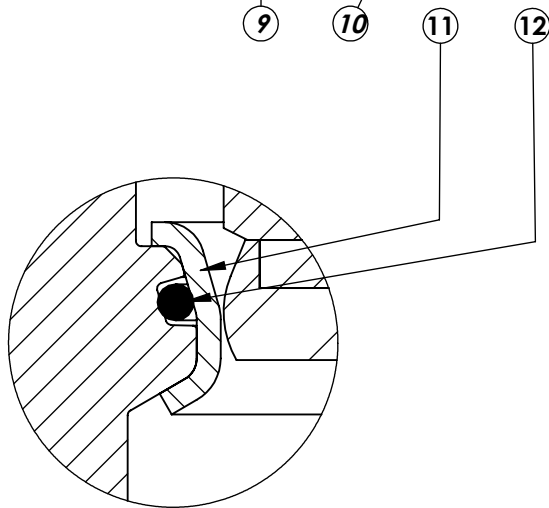
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DRAWN: CTJ
DATE: 4/22/2019
DWG. NO.
BD06-F1-B01-000

6" AWWA C504 - STYLE 4500 - CL150
BFV W/ F/A 12 MSS/ISO Connection
FLANGED END - BARE STEM



SECTION A-A
SCALE 1 : 3



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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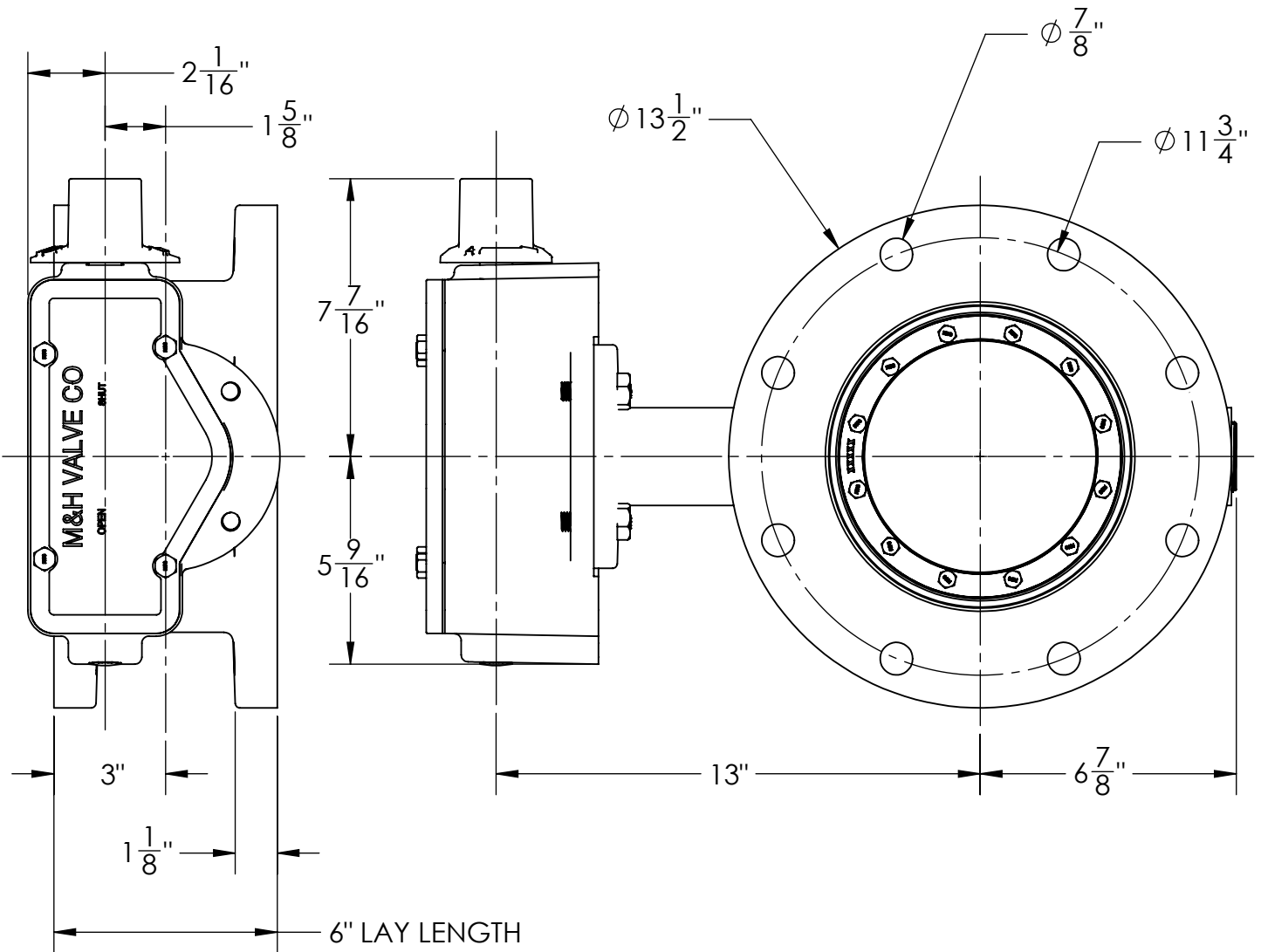
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DRAWN: ZF

DATE: 1/6/17

DWG.
NO. B06FBB11

**6" AWWA C504 - Style 4500 - CL150
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
FLANGED END**



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 (NO THREADED HOLES)
6. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
7. RATED FOR 150psi WORKING PRESSURE

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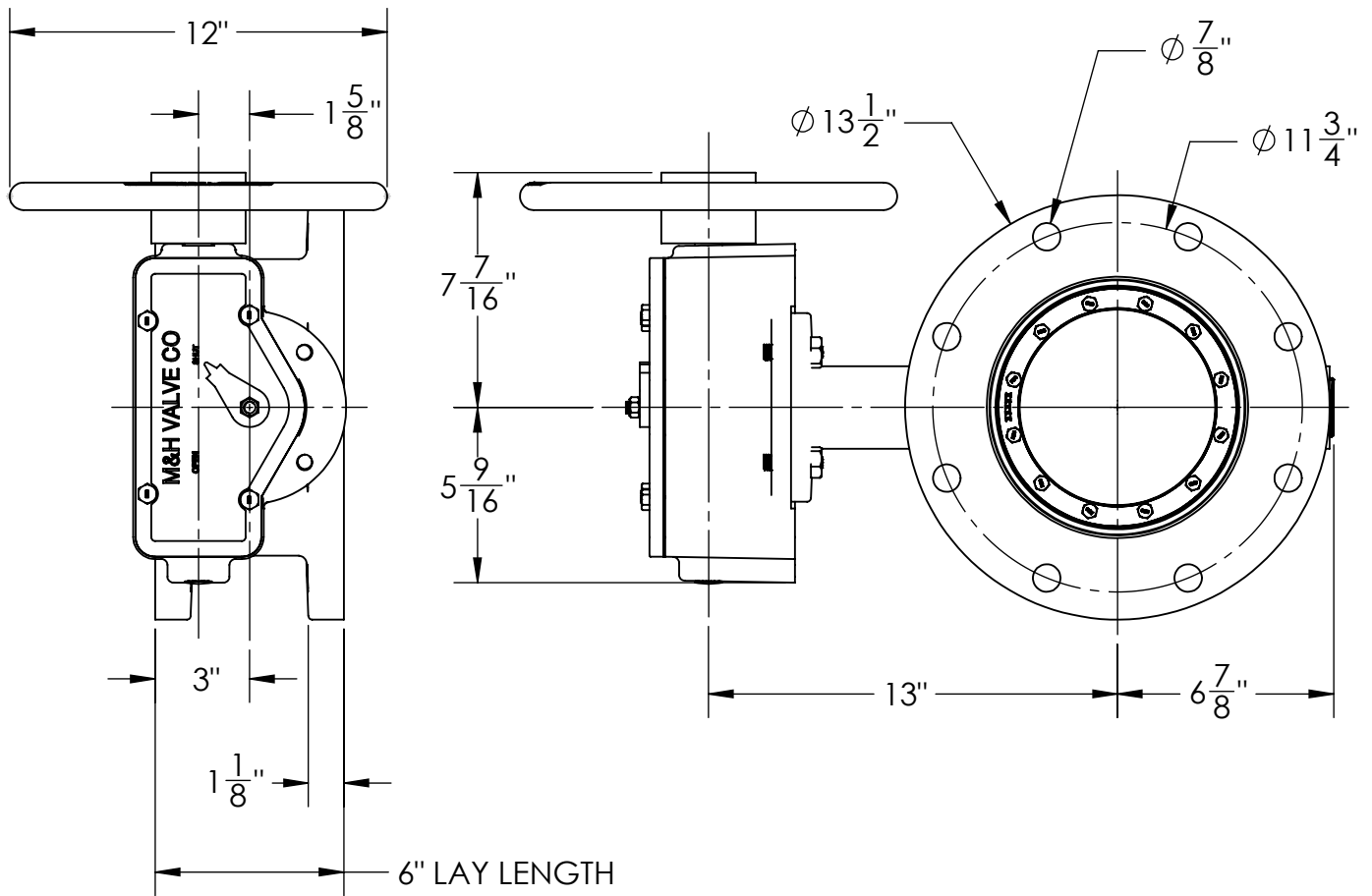


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DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD08-F1-M11-000

**8" - Style 4500 BFV - CL150
F/A12 MSS/ISO Connection
FLANGED 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 (NO THREADED HOLES)
6. OPERATED BY 12" HANDWHEEL
7. RATED FOR 150psi WORKING PRESSURE

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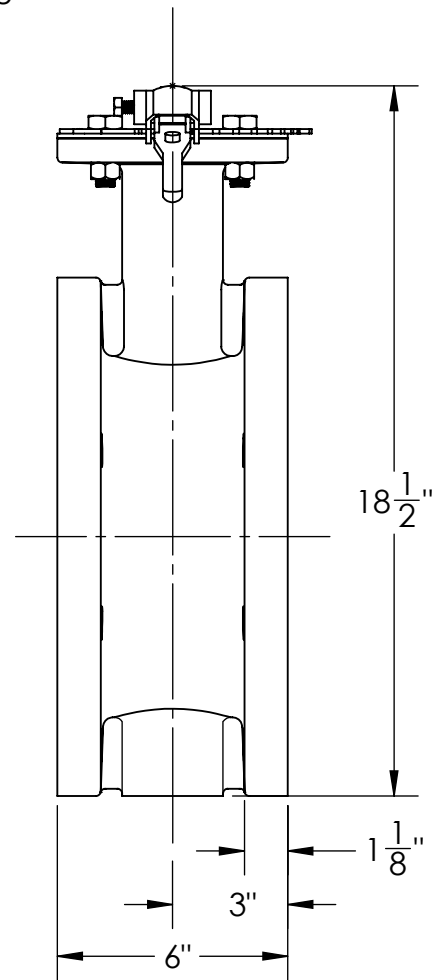
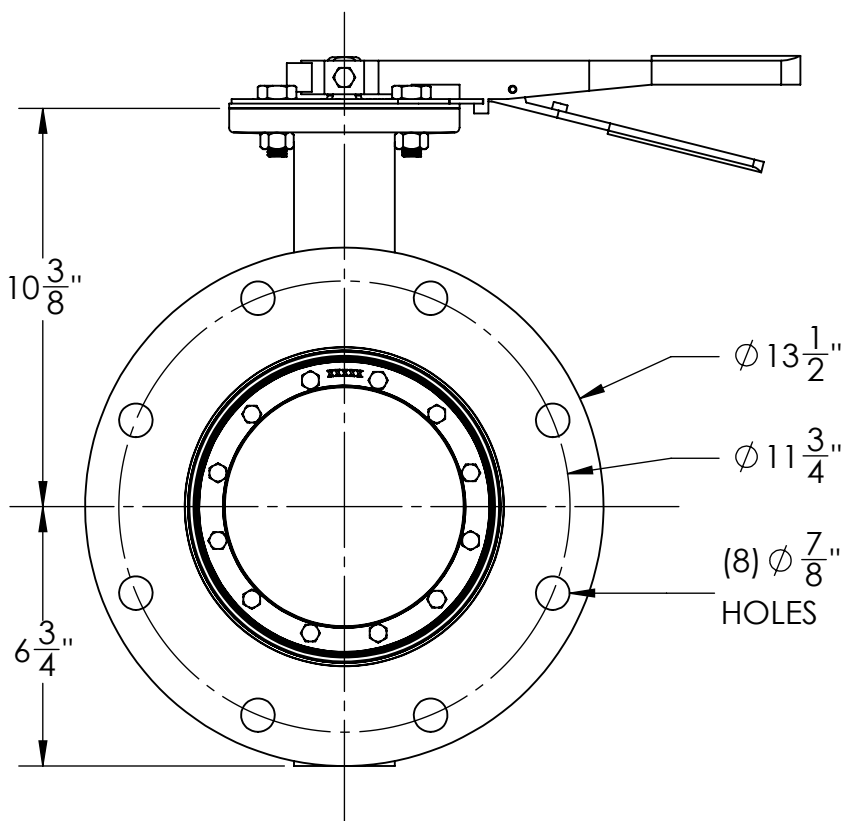
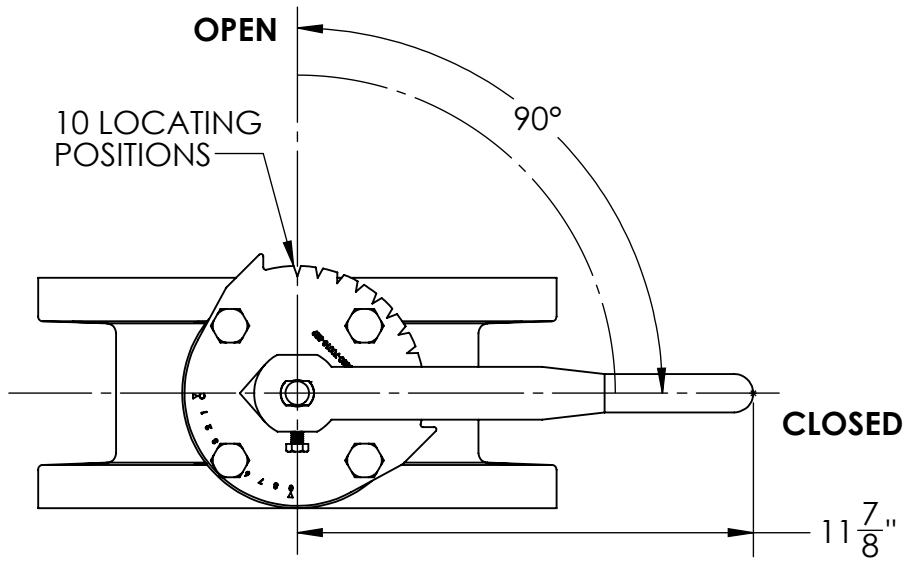


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ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD08-F1-M31-000

**8" - Style 4500 BFV - CL150
F/A12 MSS/ISO Connection
FLANGED 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. Ø 3/4" BOLTS
6. RATED AND TESTED FOR 150psi WORKING PRESSURE

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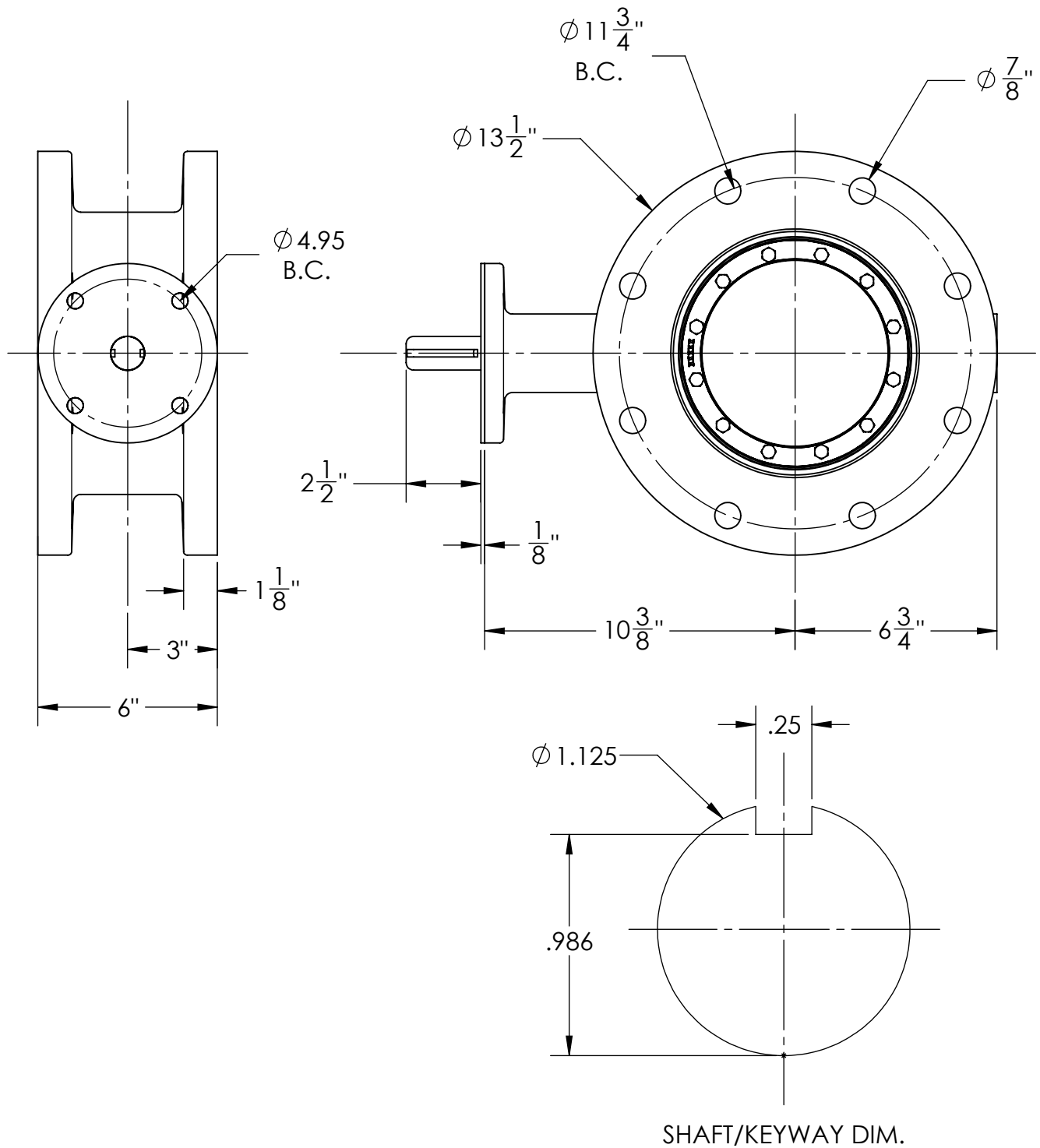


M&H VALVE COMPANY

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

DRAWN: CTJ
DATE: 4/24/2019
DWG. NO.
BD08-F1-L01-000

8" ISO BFV FLANGED END
W/ FA12 MOUNTING
LEVER 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. 8 BOLTS ON EACH FLANGE
5. $\phi 3/4"$ BOLTS
6. RATED AND TESTED FOR 150psi WORKING PRESSURE

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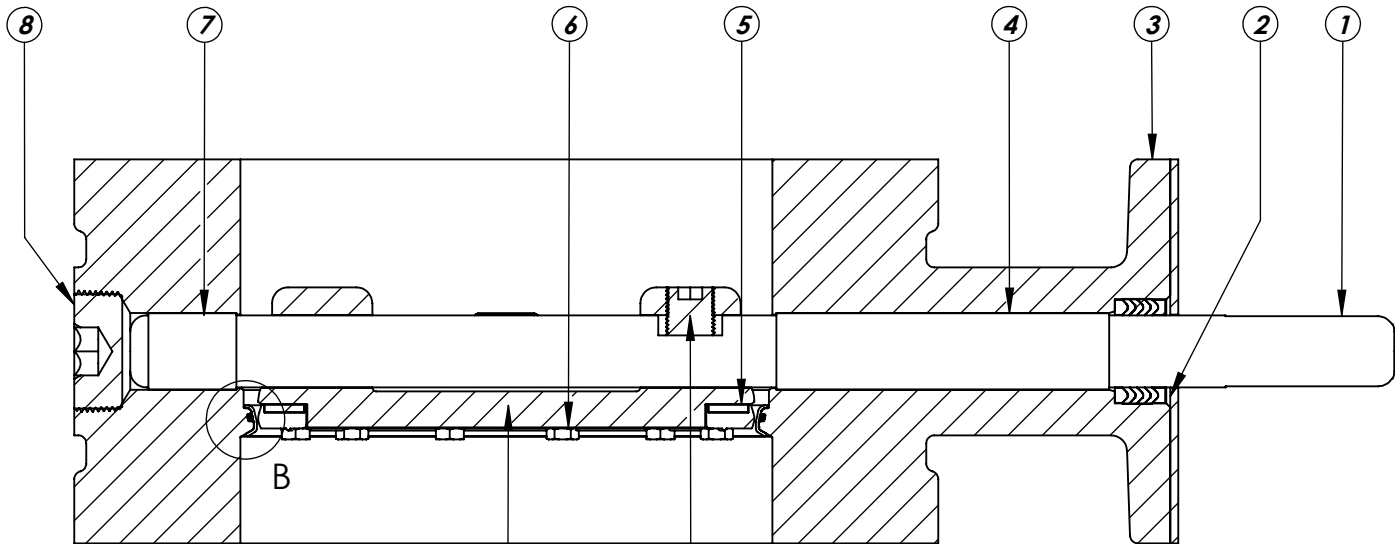
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DATE: 4/24/2019

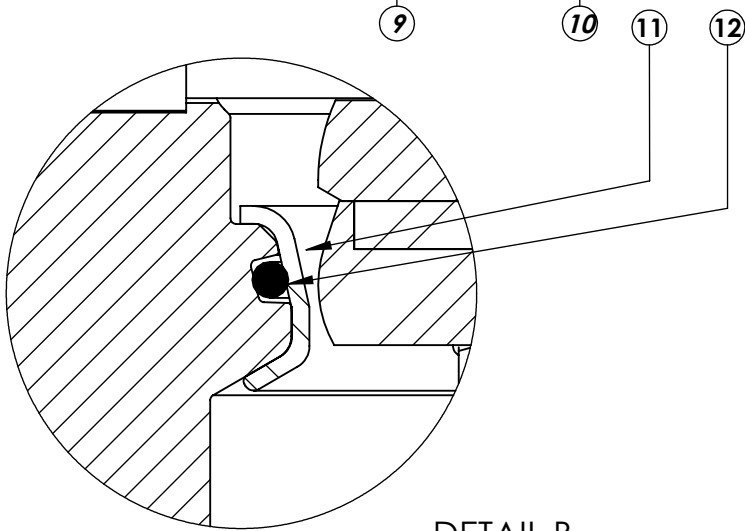
DWG. NO.

BD08-F1-B01-000

8" AWWA C504 - STYLE 4500 - CL150
BFV W/ F/A 12 MSS/ISO Connection
FLANGED END - BARE STEM



SECTION A-A
SCALE 1 : 3



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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M&H VALVE COMPANY

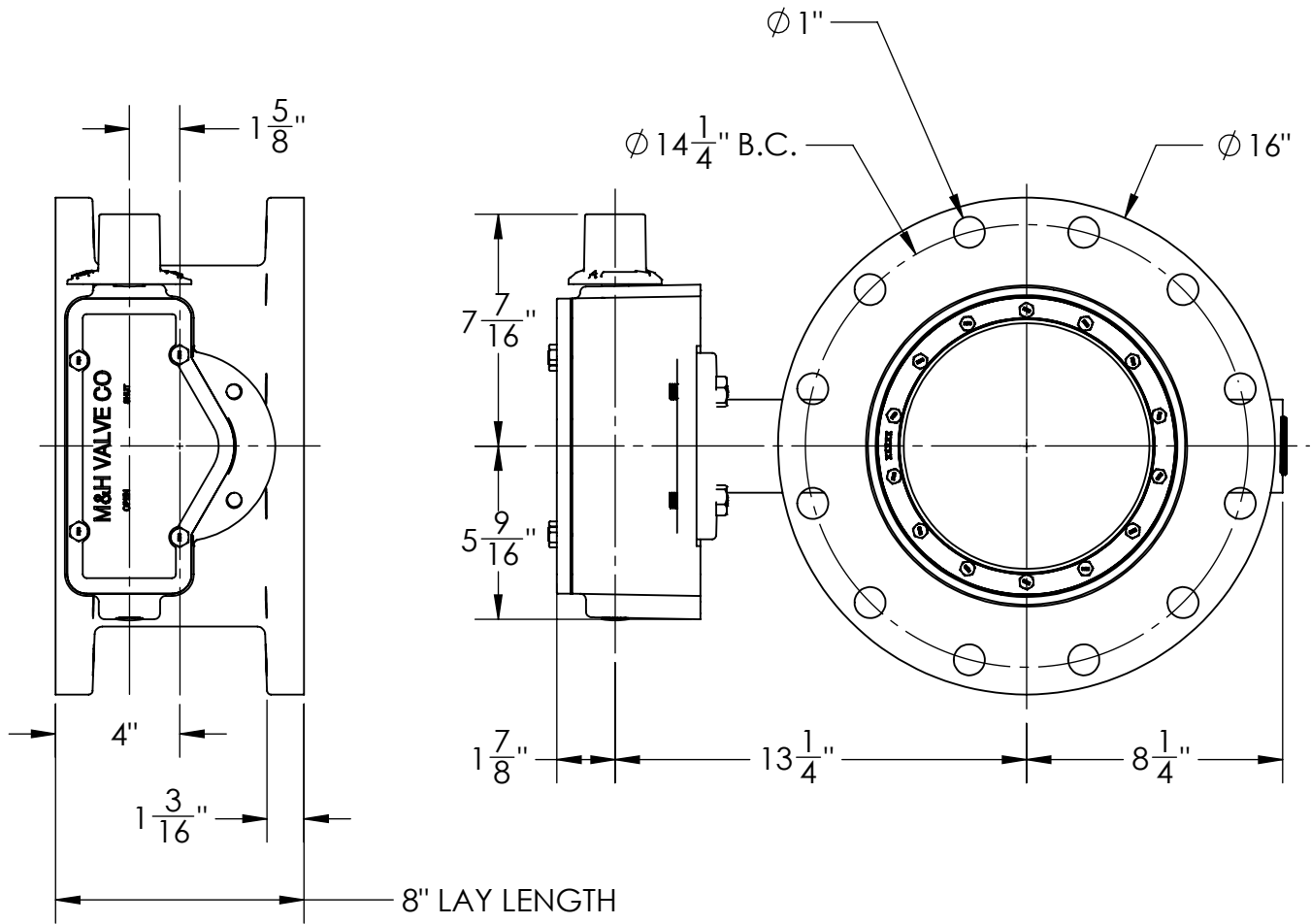
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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: ZF

DATE: 1/9/17

DWG. NO. B08FBB11

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



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. (12) 7/8" BOLTS ON EACH FLANGE (NO THREADED HOLES)
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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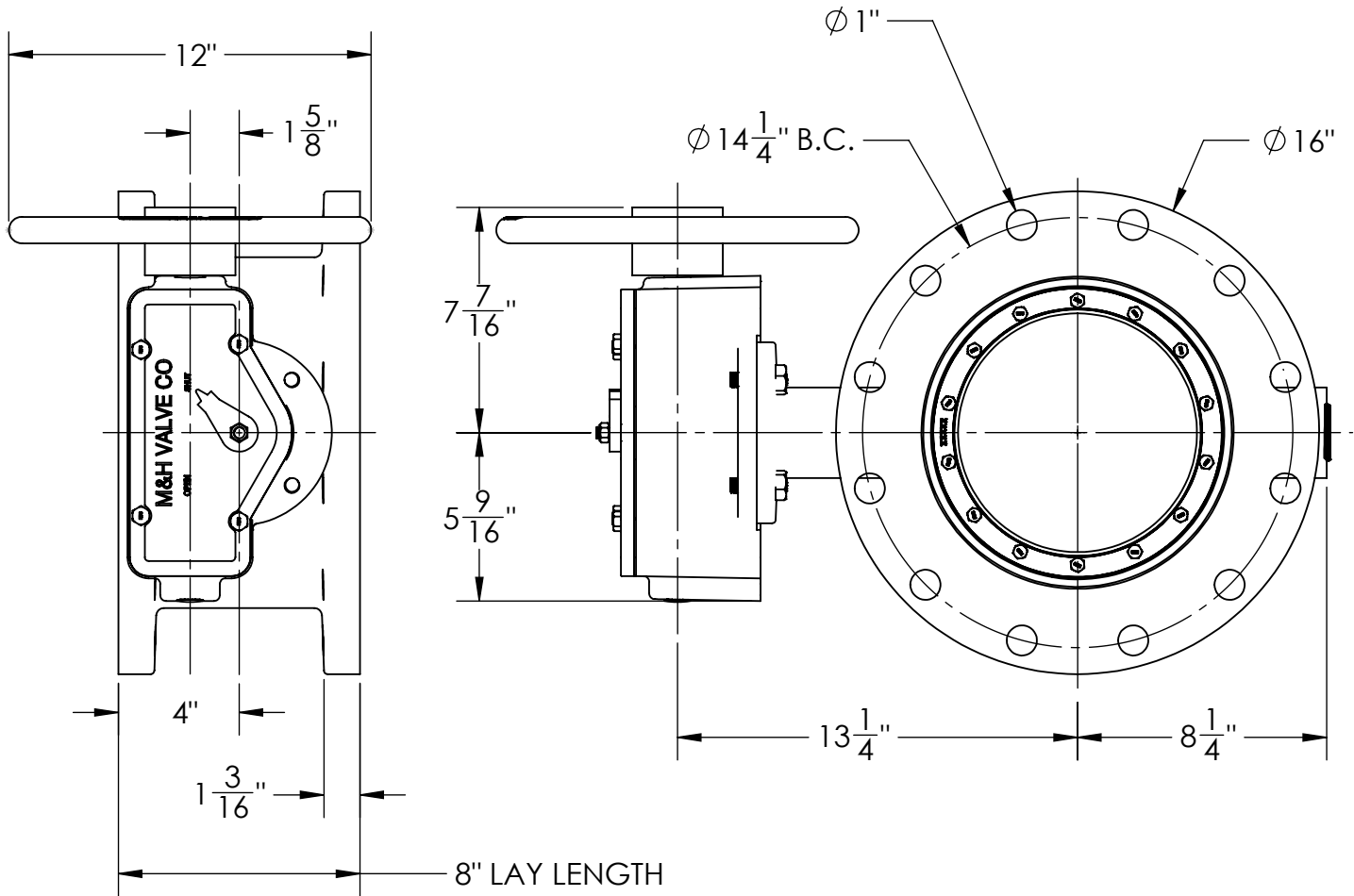


M&H VALVE COMPANY

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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD10-F1-M11-000

**10" - Style 4500 BFV - CL150
F/A 12 MSS/ISO Connection
FLANGED 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. (12) 7/8" BOLTS ON EACH FLANGE (NO THREADED HOLES)
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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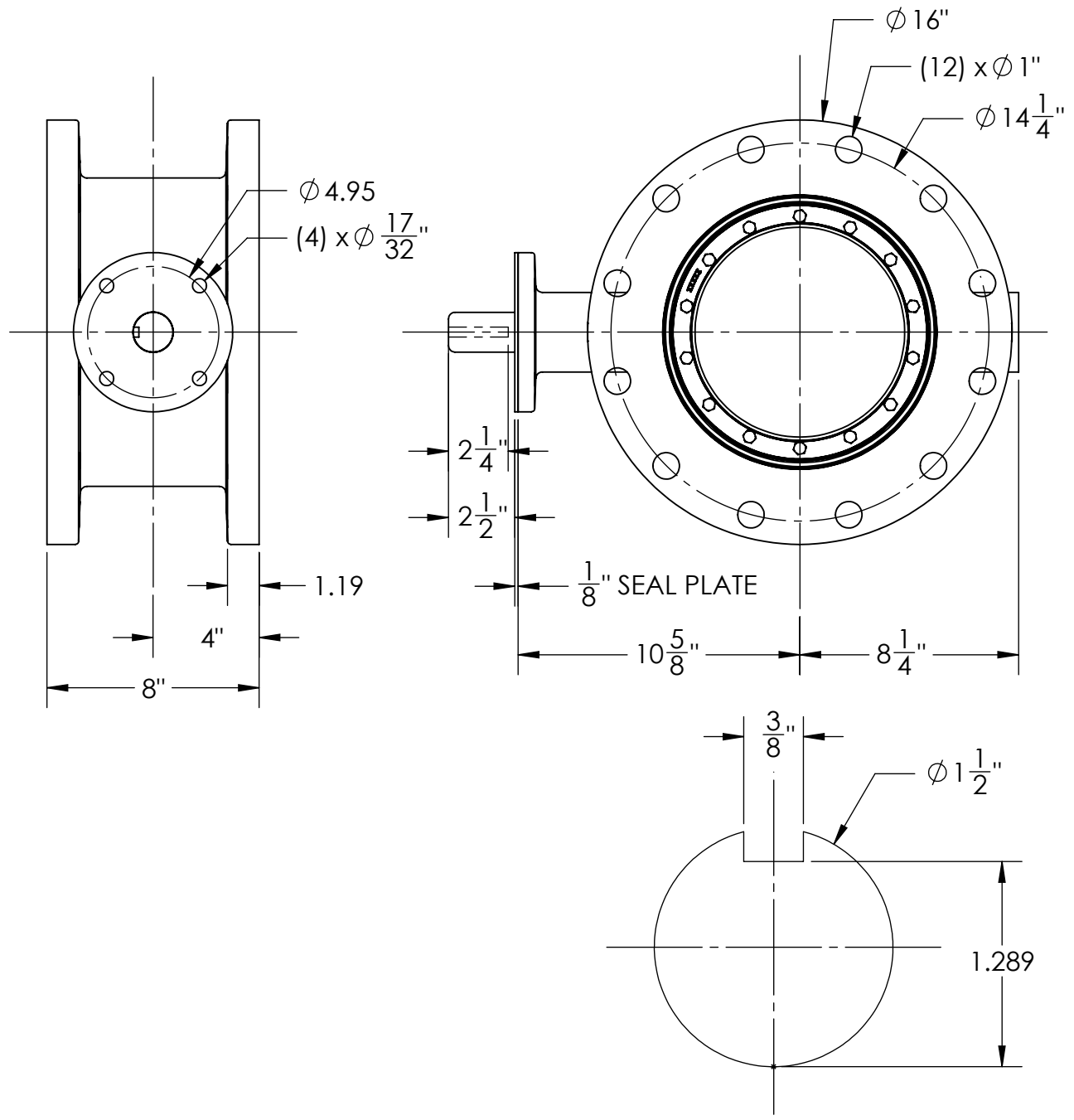


M&H VALVE COMPANY

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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD10-F1-M31-000

**10" - Style 4500 BFV - CL150
F/A 12 MSS/ISO Connection
FLANGED 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. 29 TURNS TO CLOSE
5. 12 BOLTS ON EACH FLANGE
6. 7/8" DIAMETER OF BOLTS
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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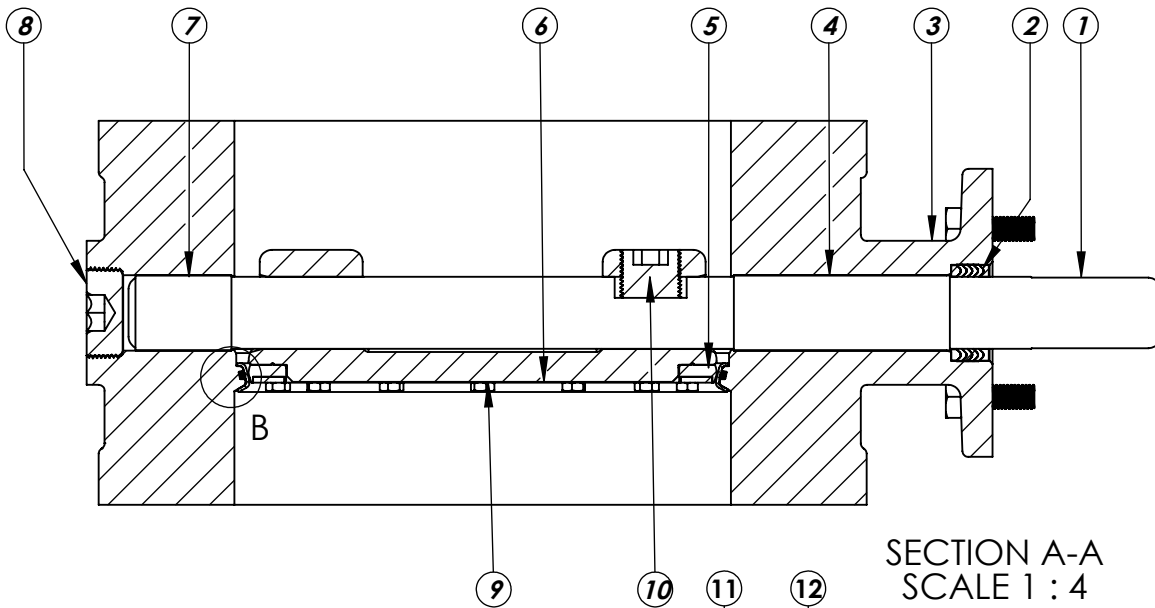


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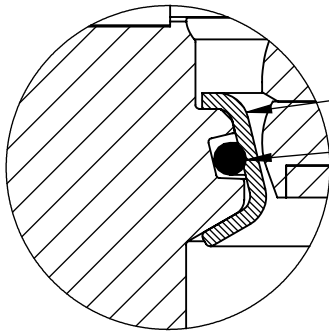
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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 5/9/2019
DWG. NO.
BD10-F1-B01-000

10" - STYLE 4500 - CL150 BFV
w/ F/A12 MSS/ISO CONNECTION
FLANGED ENDS - BARE STEM w/SEAL PLATE



SECTION A-A
SCALE 1 : 4



DETAIL B
SCALE 2 : 1.5

| 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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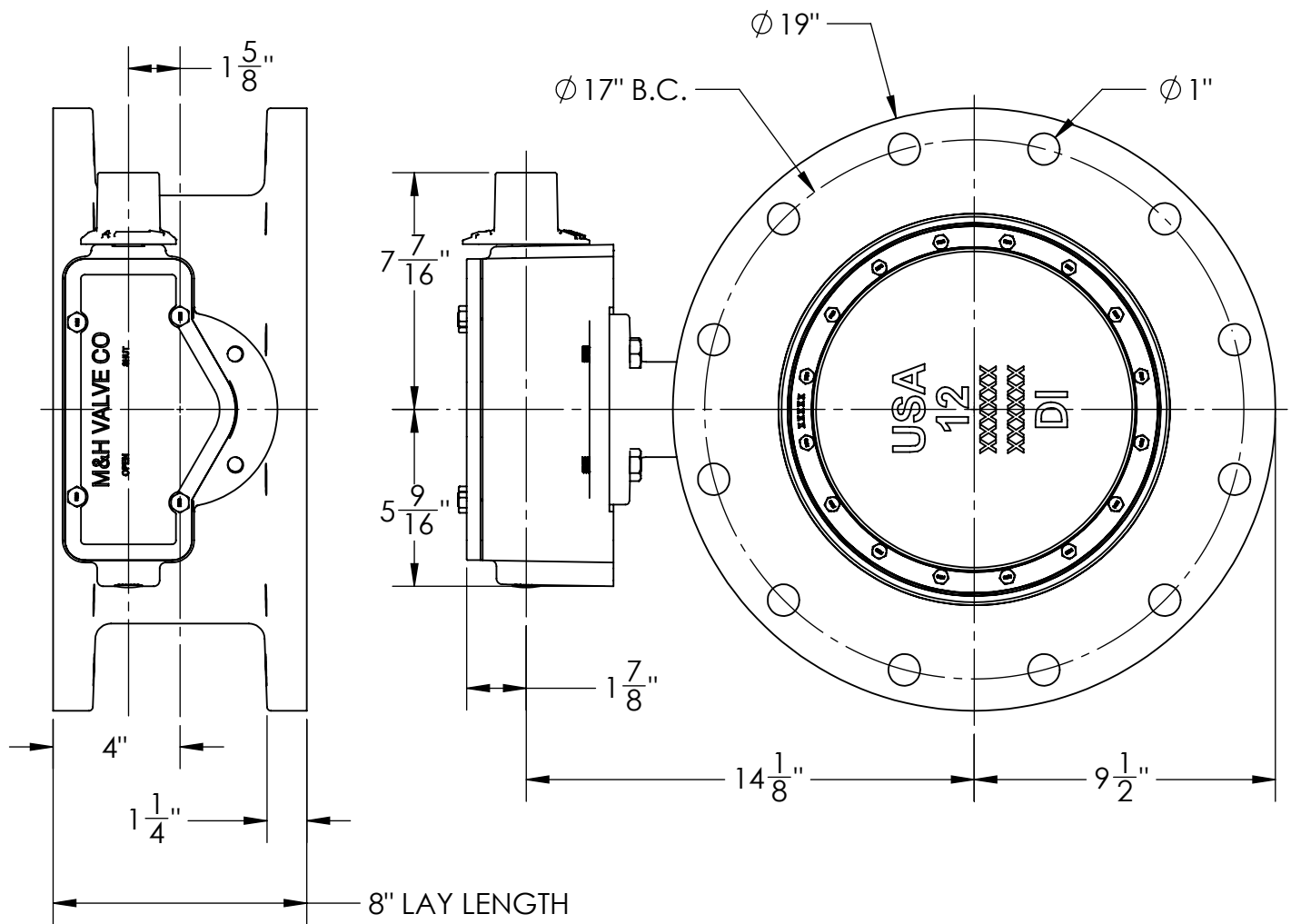
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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: ZF

DATE: 1/9/17

DWG.
NO. B10FBB11

**10" AWWA C504 - Style 4500 - CL150
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
FLANGED END**



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. (12) $7/8"$ BOLTS ON EACH FLANGE (NO THREADED HOLES)
6. OPERATED BY 2" AWWA OPERATING / WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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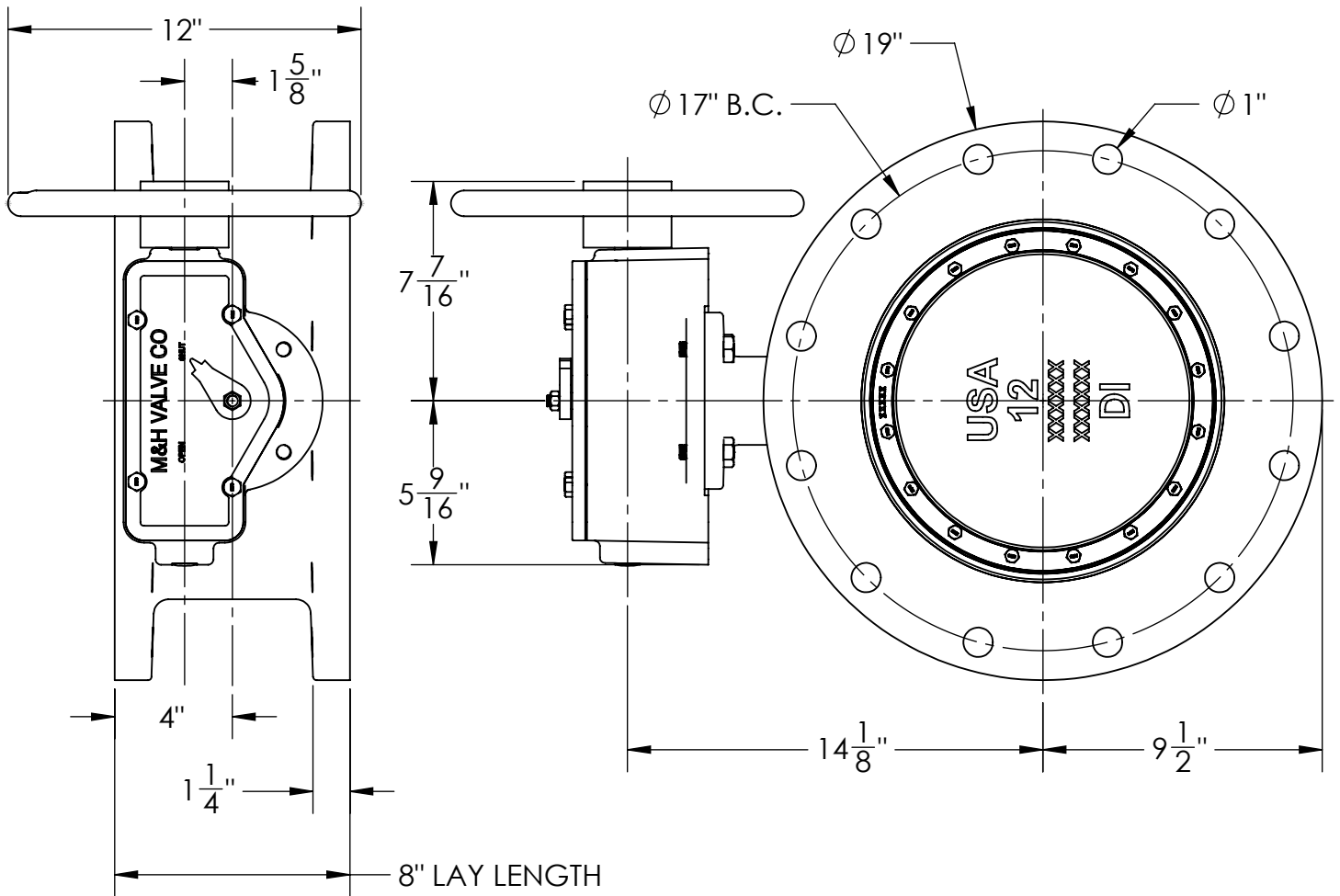


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DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD12-F1-M11-000

**12" - Style 4500 BFV - CL150
F/A 12 MSS/ISO Connection
FLANGED 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. (12) 7/8" BOLTS ON EACH FLANGE (NO THREADED HOLES)
6. OPERATED BY 12" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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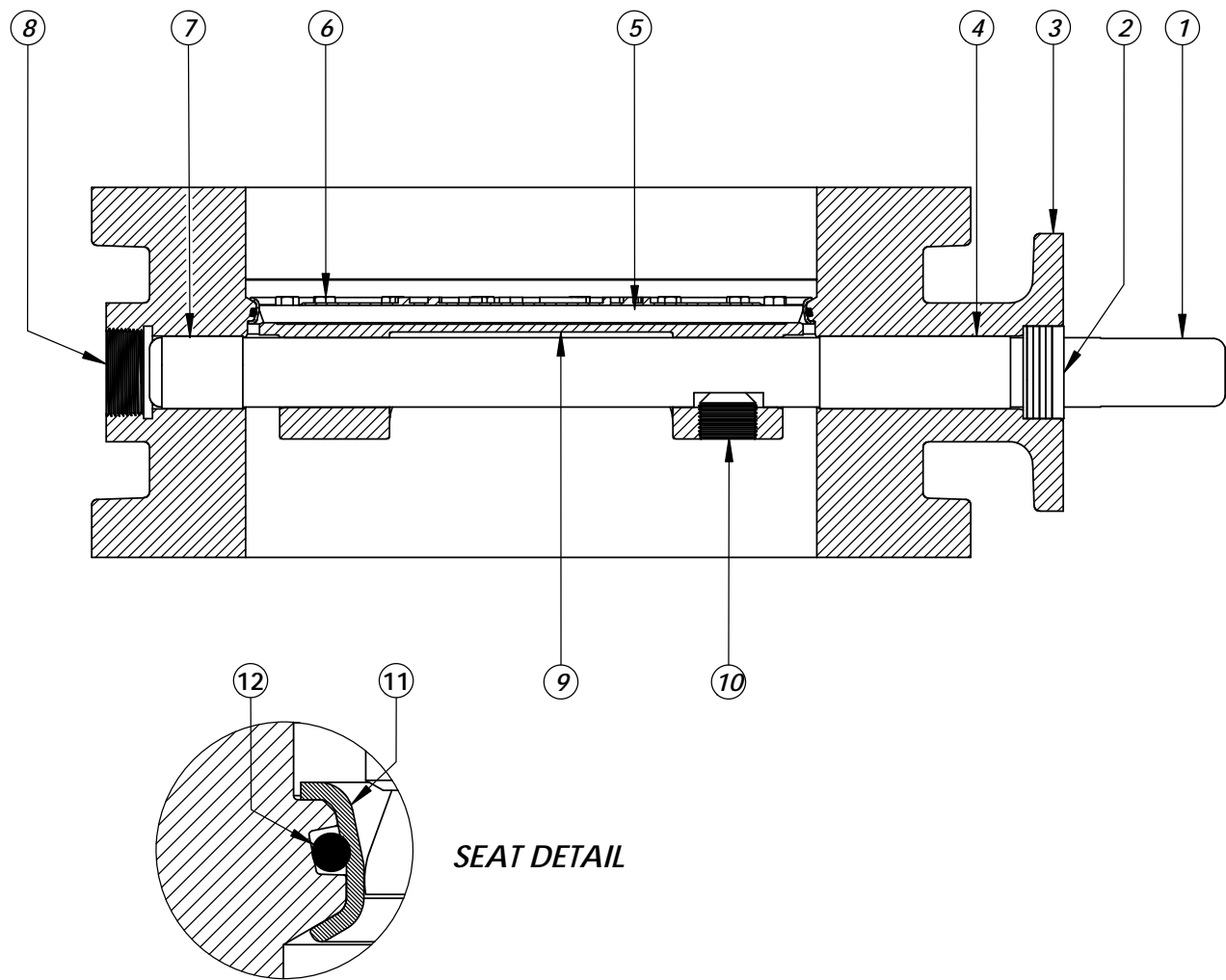


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P.O. BOX 2088
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DRAWN: CTJ
DATE: 7/2/2020
DWG. NO.
BD12-F1-M31-000

**12" - Style 4500 BFV - CL150
F/A 12 MSS/ISO Connection
FLANGED ENDS
HANDWHEEL Operator - OPEN LEFT**



| 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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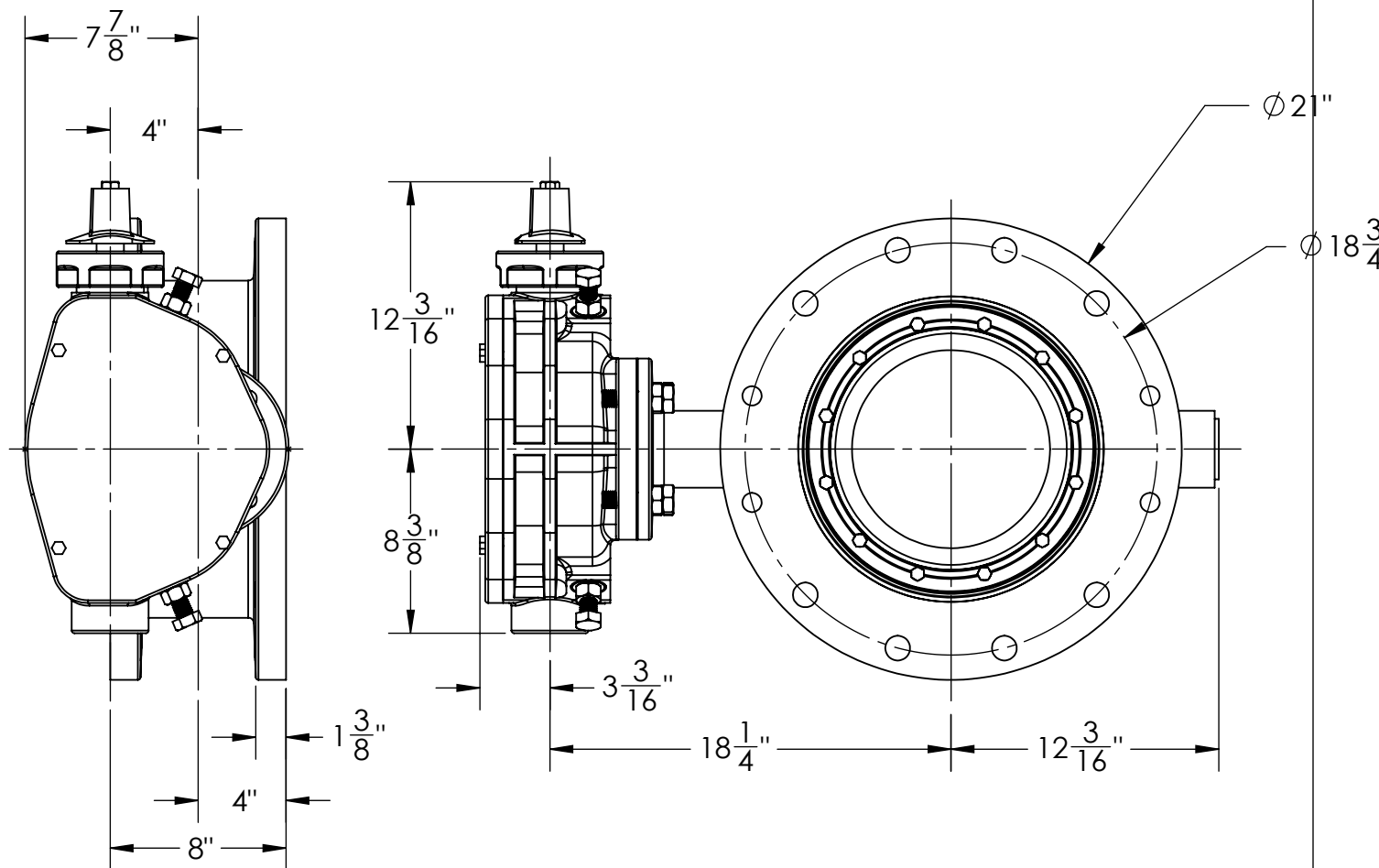
DRAWN: KLM

DATE: 10/2016

DWG. NO.

BFV-15-45-312-ISO

**12" AWWA C504 - Style 4500 - CL150
BFV with F/A 12 MSS/ISO Connection
Sub-Assembly - Material List
FLANGED END**



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. 48 TURNS TO CLOSE
4. 12 BOLTS ON EACH FLANGE
5. 1" DIA. OF BOLTS
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE
8. WEIGHT OF VALVE IS 450 LBS.

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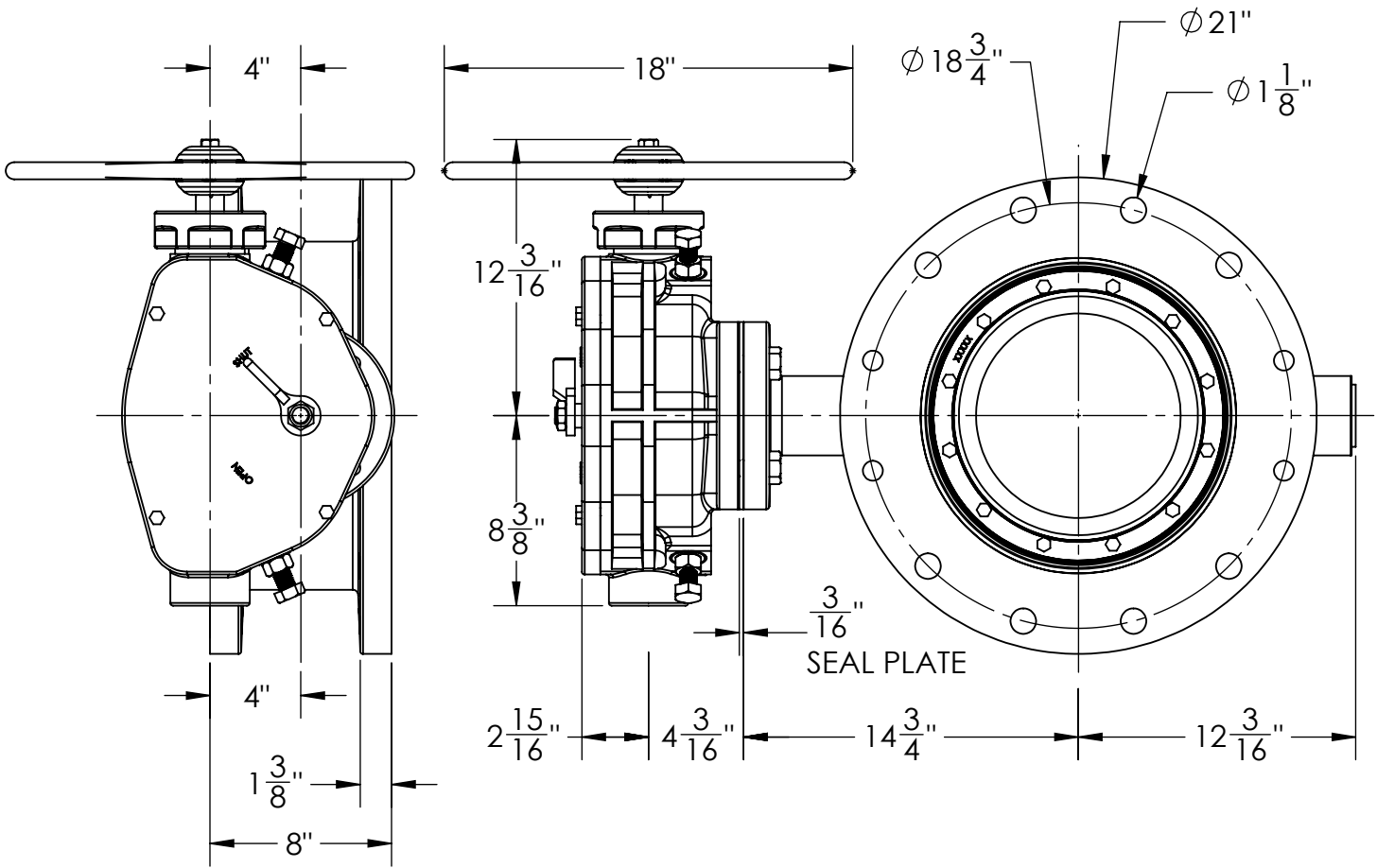
DRAWN: CTJ

DATE: 11/26/2018

DWG.
NO.

B14FAM11

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



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. 48 TURNS TO CLOSE
4. 12 BOLTS ON EACH FLANGE
5. 1" DIA. OF BOLTS
6. OPERATED BY 18" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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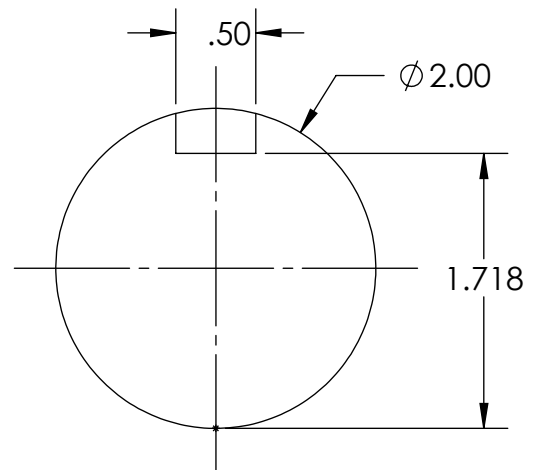
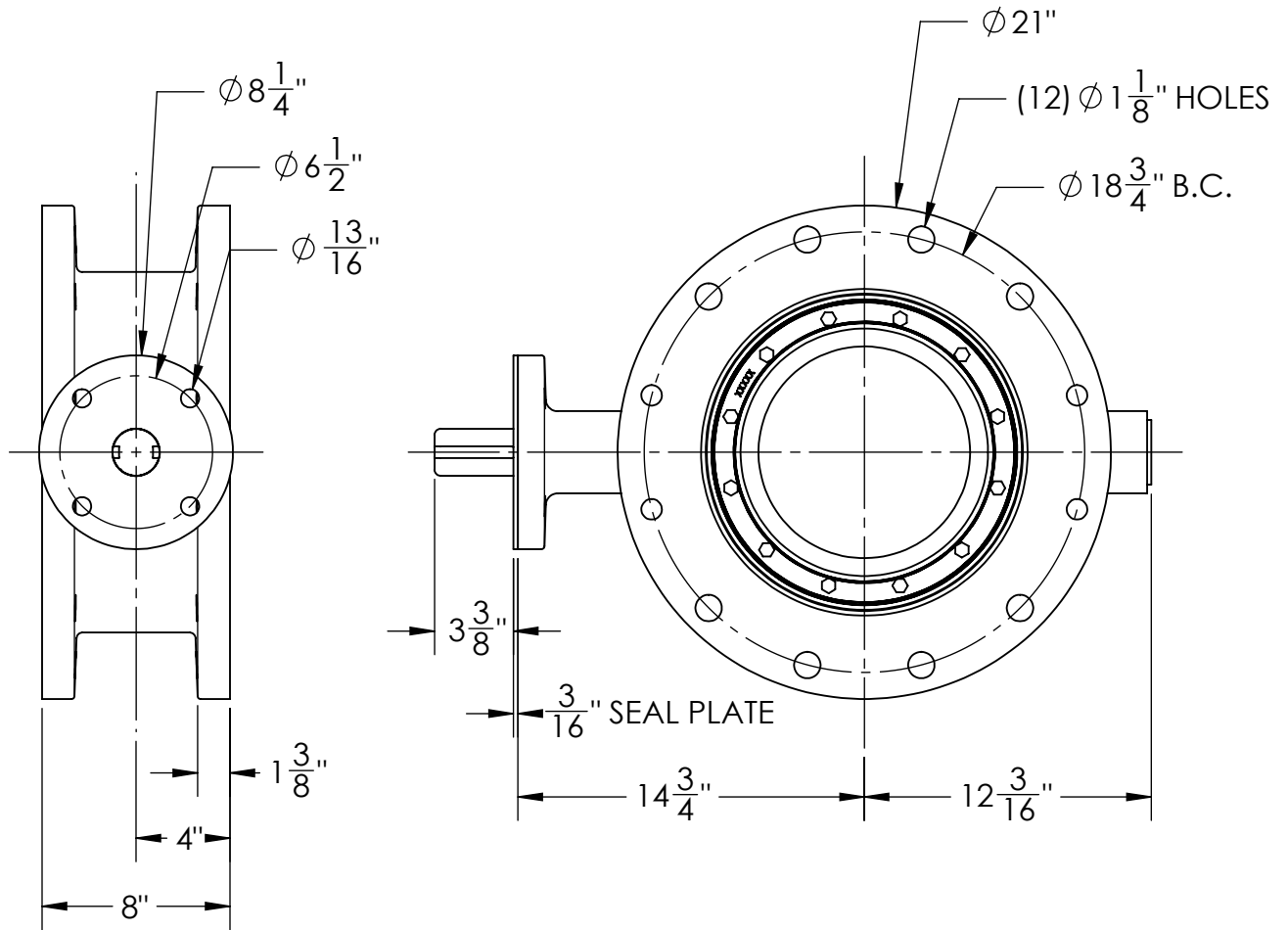
DRAWN: CTJ

DATE: 5/24/2019

DWG. NO.

BD14-F1-M31-000

14" - Style 4500 - CL150
BFV with F/A16 MSS/ISO Connection
FLANGED ENDS
Handwheel Operator - OPEN LEFT



SHAFT/KEYWAY DIM.

1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. 48 TURNS TO CLOSE
4. 12 BOLTS ON EACH FLANGE
5. 1" DIA. OF BOLTS
6. RATED AND TESTED FOR 150psi WORKING PRESSURE

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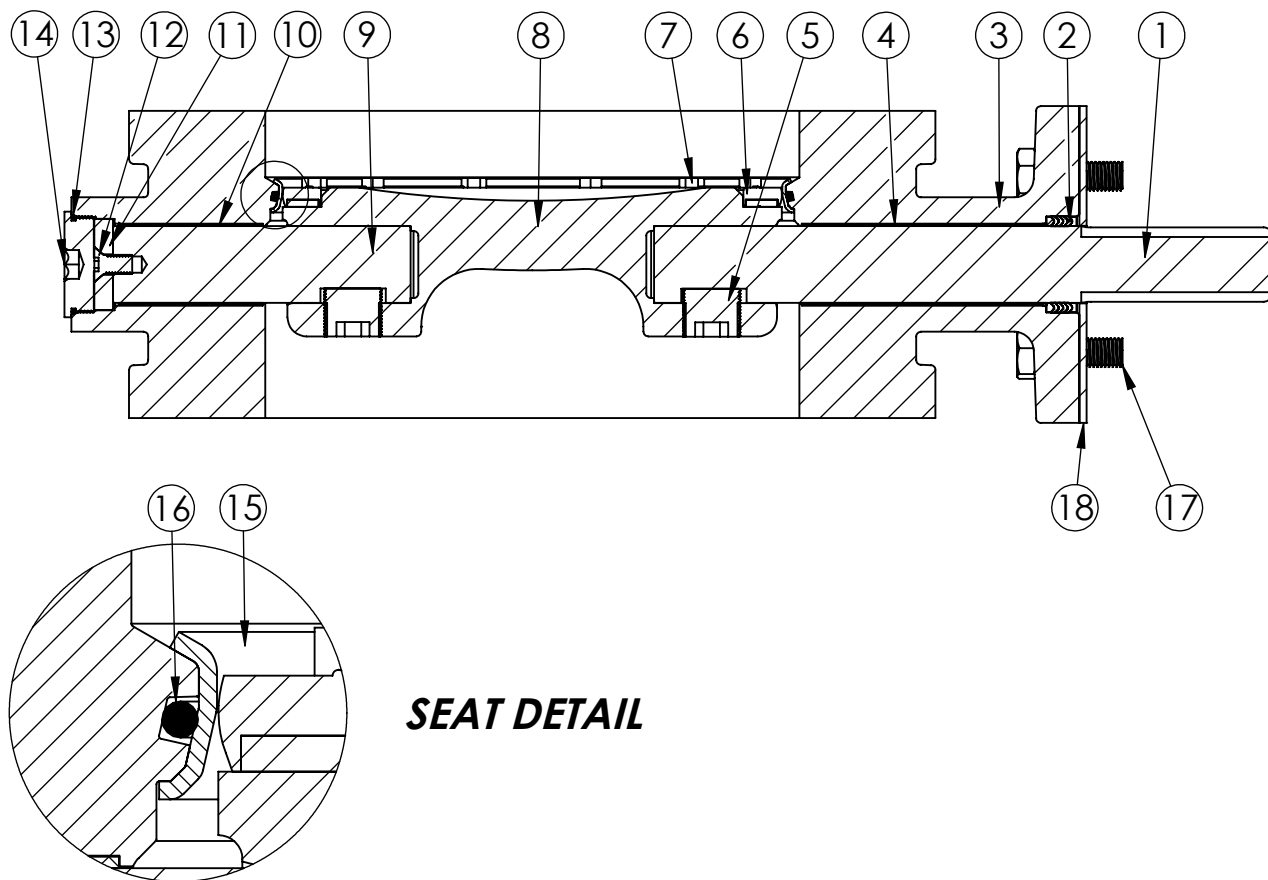
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DRAWN: CTJ

DATE: 5/24/2019

DWG. NO.
BD14-F1-B01-000

14" - STYLE 4500 - CL150
BFV w/ F/A16 MSS/ISO CONNECTION
FLANGED ENDS - BARE STEM w/ SEAL PLATE



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 |
| 17 | OPERATOR MOUNTING BOLTS | 18-8 STAINLESS STEEL |
| 18 | ISO F/A16 SEAL PLATE | COMMERCIAL STEEL |

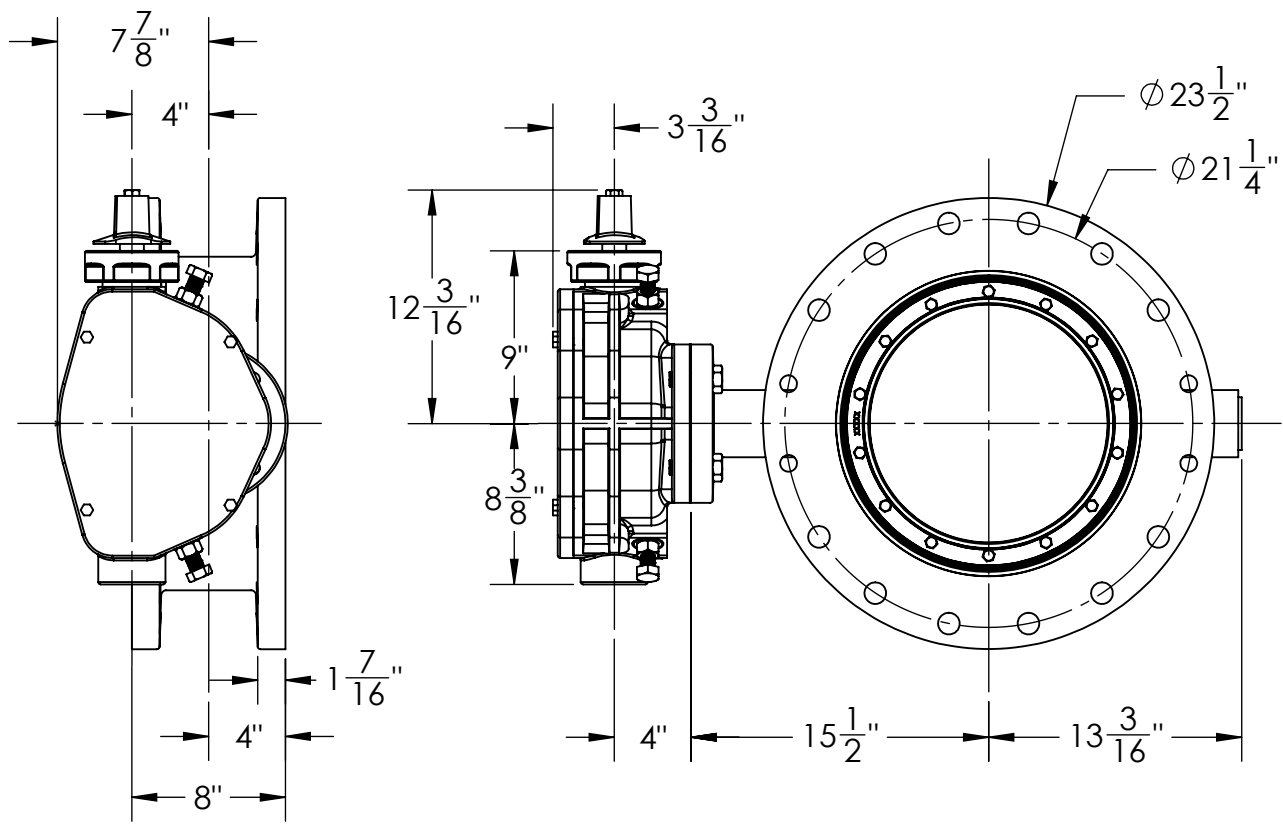
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 ANNISTON, ALABAMA 36202

DRAWN: ZF
DATE: 8/31/2018
DWG. NO. B14FBB11

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



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 EACH FLANGE
5. 1" DIA. OF BOLTS
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE
8. WEIGHT OF VALVE IS 450 LBS.

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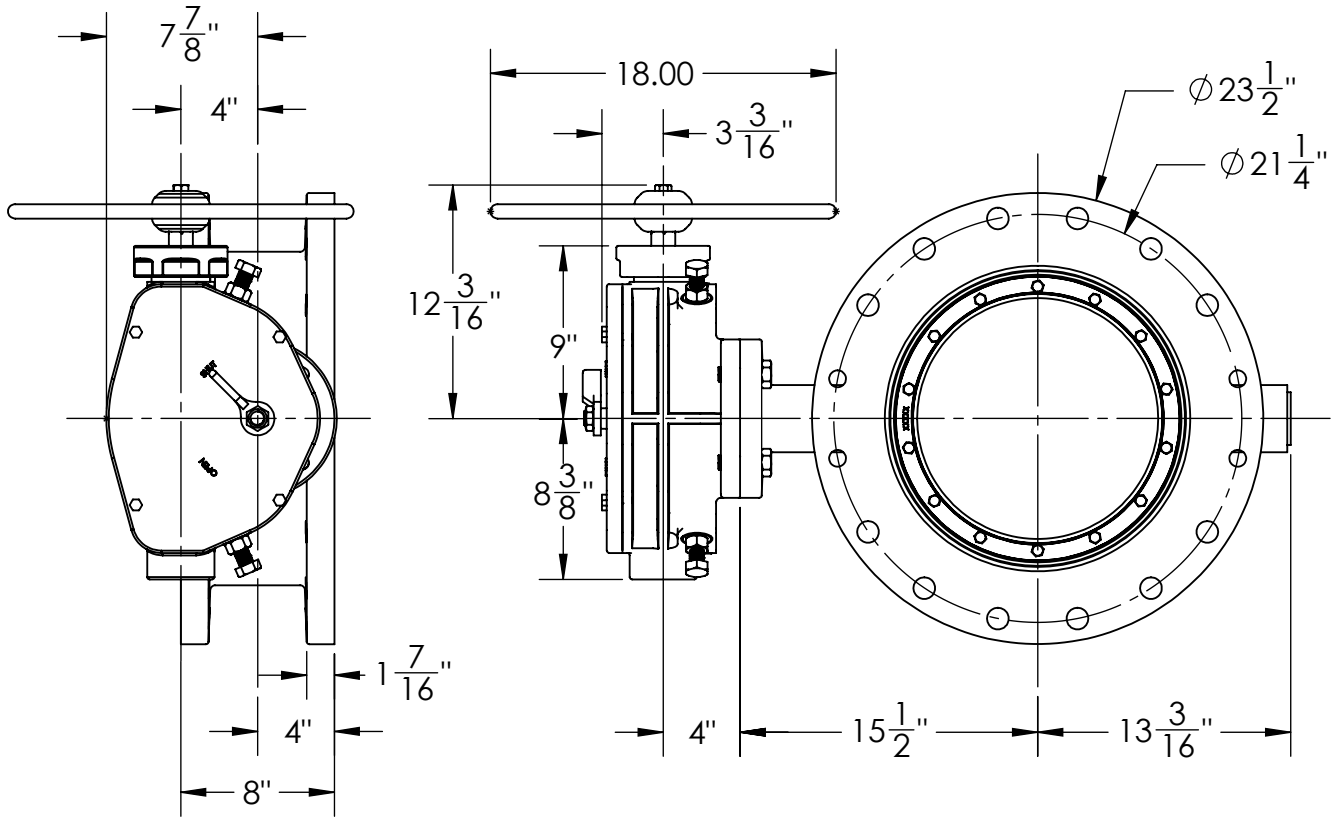


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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: CTJ
DATE: 11/26/2018
DWG. NO. B16FAM11

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



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 EACH FLANGE
5. 1" DIA. OF BOLTS
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE
8. WEIGHT OF VALVE IS 450 LBS.

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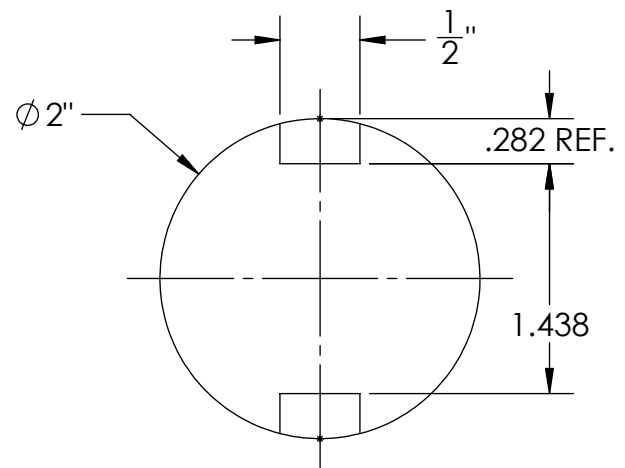
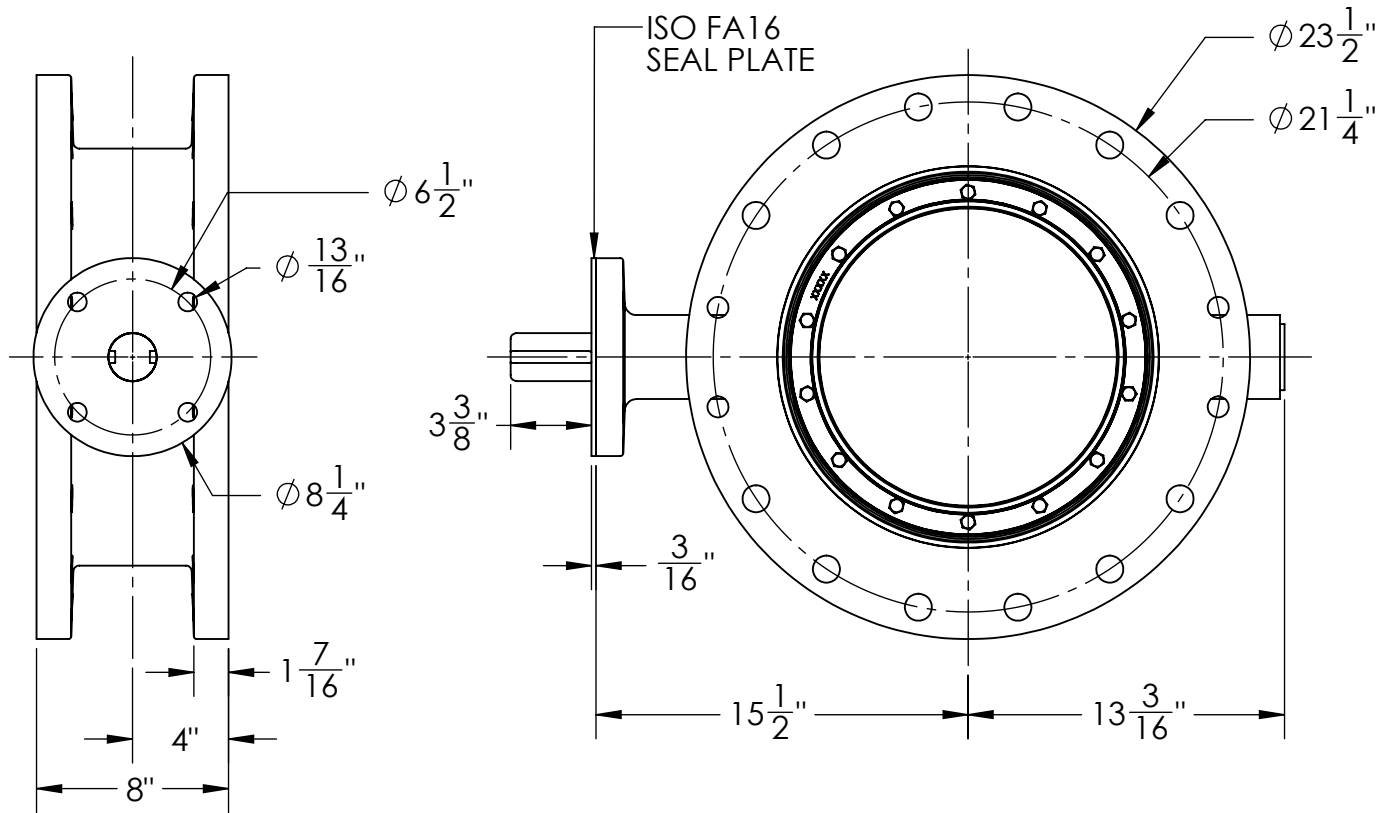
DRAWN: CTJ

DATE: 2/8/2019

DWG. NO.

B16FAM1101

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



SHAFT & KEYWAY DIM.

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 EACH FLANGE (12 THRU & 4 TAPPED)
5. 1" DIA. OF BOLTS
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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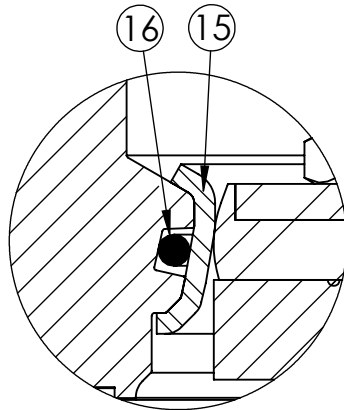
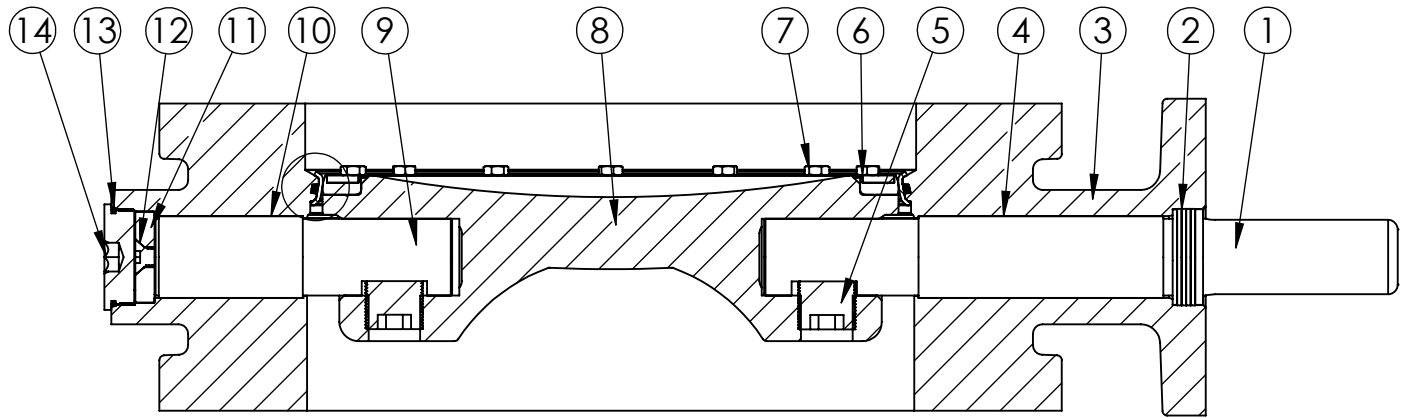
DRAWN: CTJ

DATE: 5/24/2019

DWG. NO.

BD16-F1-B01-000

16" - STYLE 4500 - CL150
BFV WITH F/A16 MSS/ISO
FLANGED ENDS
BARESTEM



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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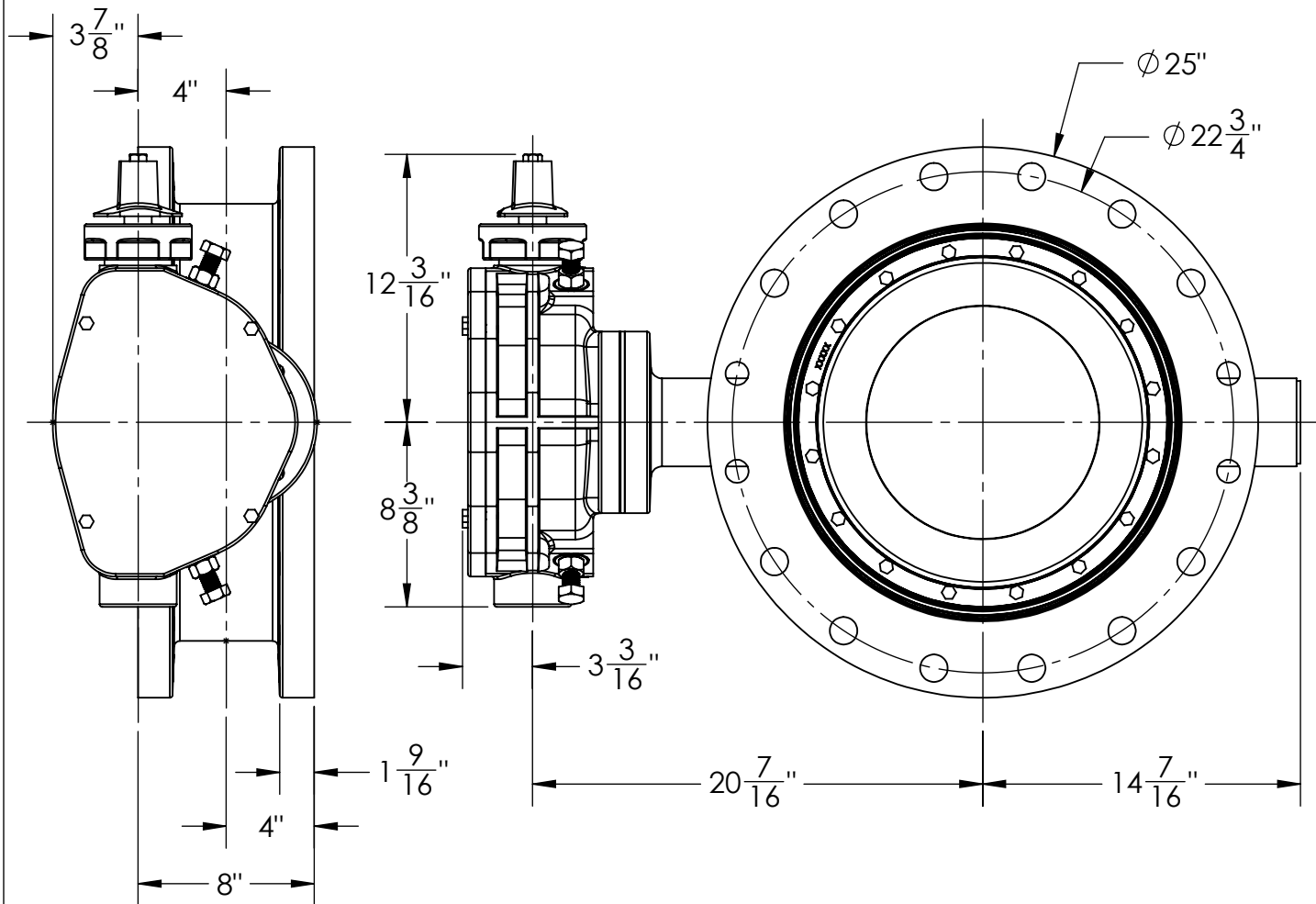


M&H VALVE COMPANY

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P.O. BOX 2088
ANNISTON, ALABAMA 36202

DRAWN: ZF
DATE: 9/19/2018
DWG. NO. B16FBB11

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



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 EACH FLANGE
5. 1 1/8" DIA. OF BOLTS
6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
7. RATED AND TESTED FOR 150psi WORKING PRESSURE
9. WEIGHT OF VALVE IS 450 LBS.

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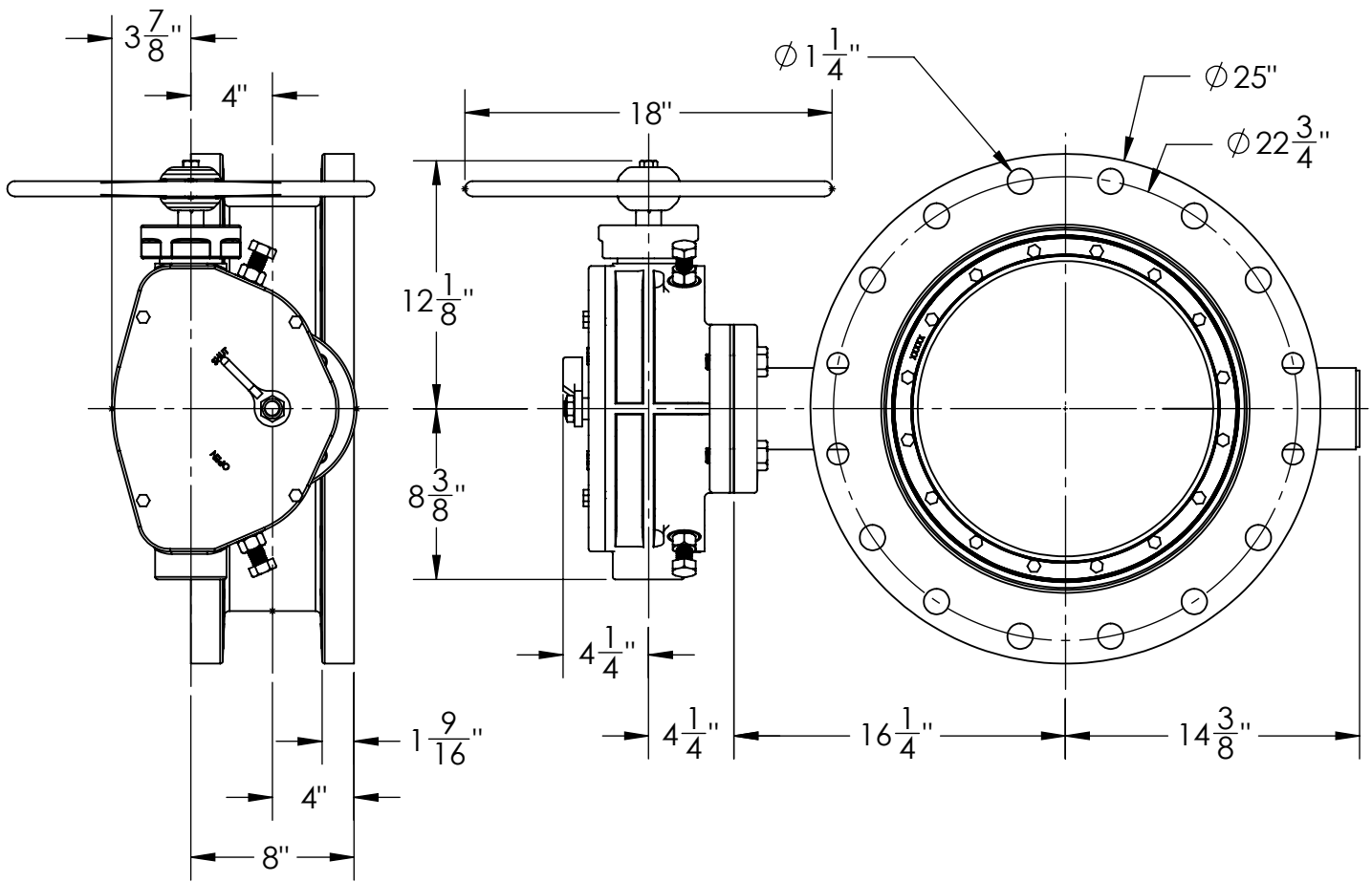


M&H VALVE COMPANY

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

DRAWN: CTJ
DATE: 11/26/2018
DWG. NO. B18FAM11

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



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 EACH FLANGE
5. 1 1/8" DIA. OF BOLTS
6. OPERATED BY 18" HANDWHEEL
7. RATED AND TESTED FOR 150psi WORKING PRESSURE

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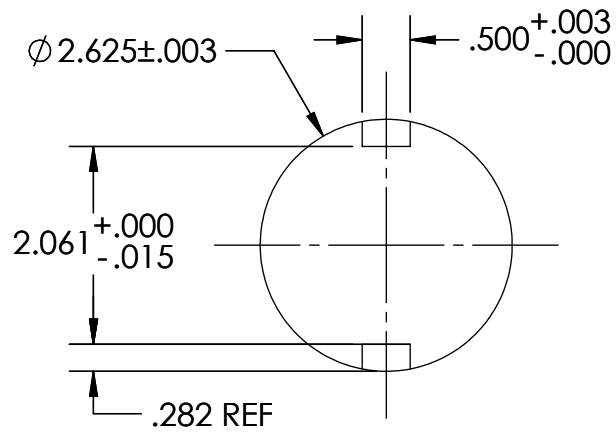
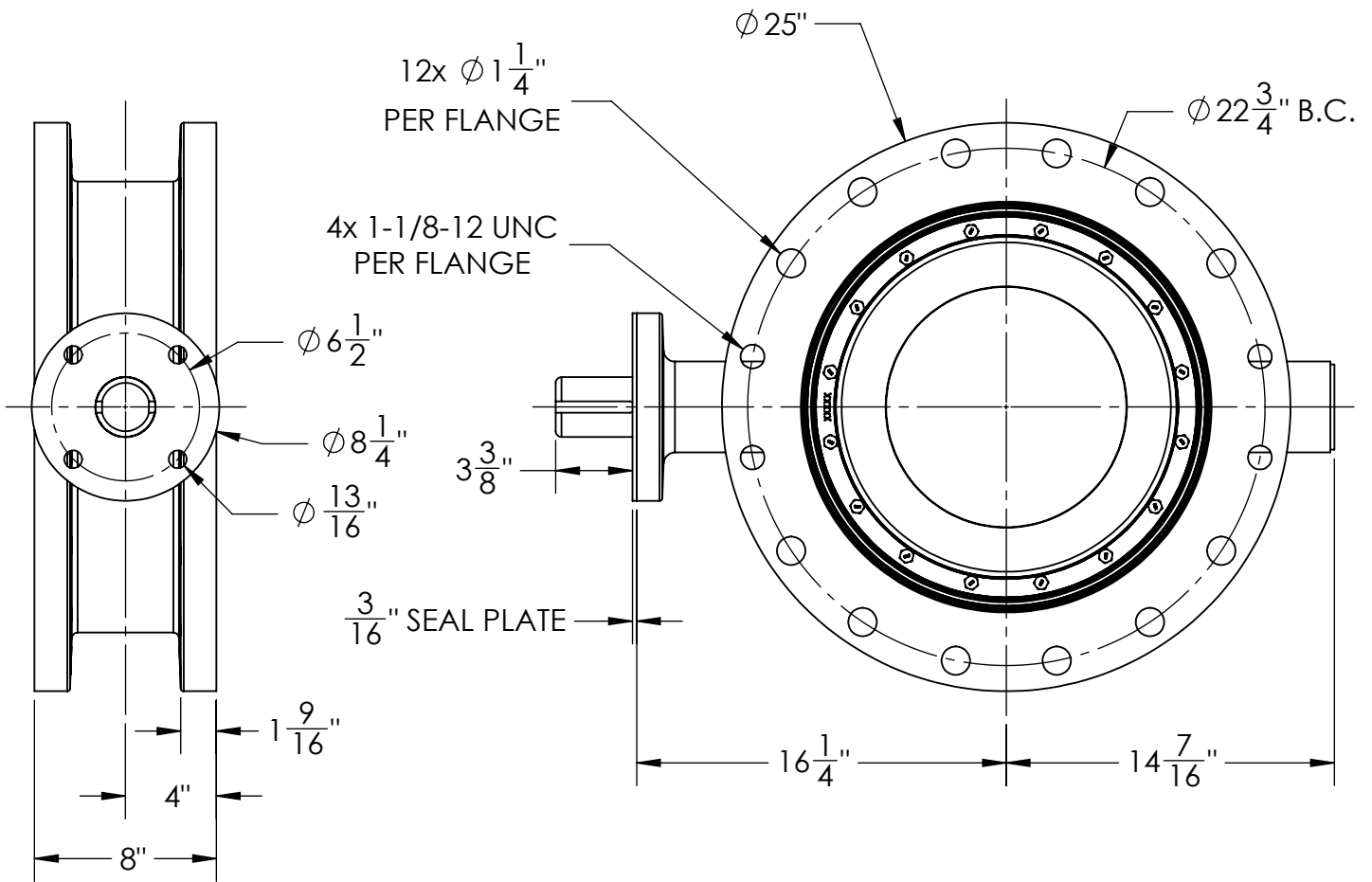
DRAWN: CTJ

DATE: 6/5/2019

DWG. NO.

BD18-F1-M31-000

18" - Style 4500 - CL150
BFV with F/A16 MSS/ISO Connection
FLANGED 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. 16 BOLTS ON EACH FLANGE
5. 1 1/8" DIAMETER OF BOLTS
6. RATED FOR 150psi WORKING PRESSURE

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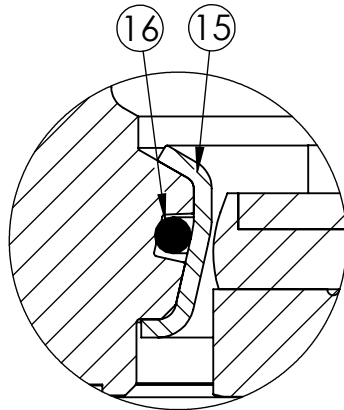
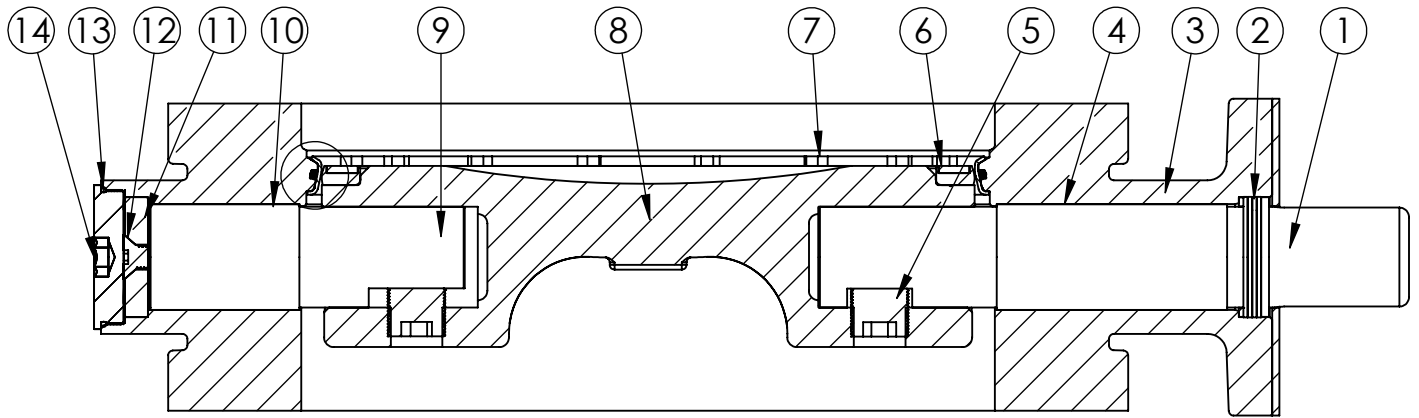
DRAWN: CTJ

DATE: 12/11/19

DWG. NO.

BD18-F1-B01-000

18" AWWA C504 – Style 4500 BFV – FE
Class 150
F/A16 MSS/ISO Connection
Bare Stem Operator Shaft



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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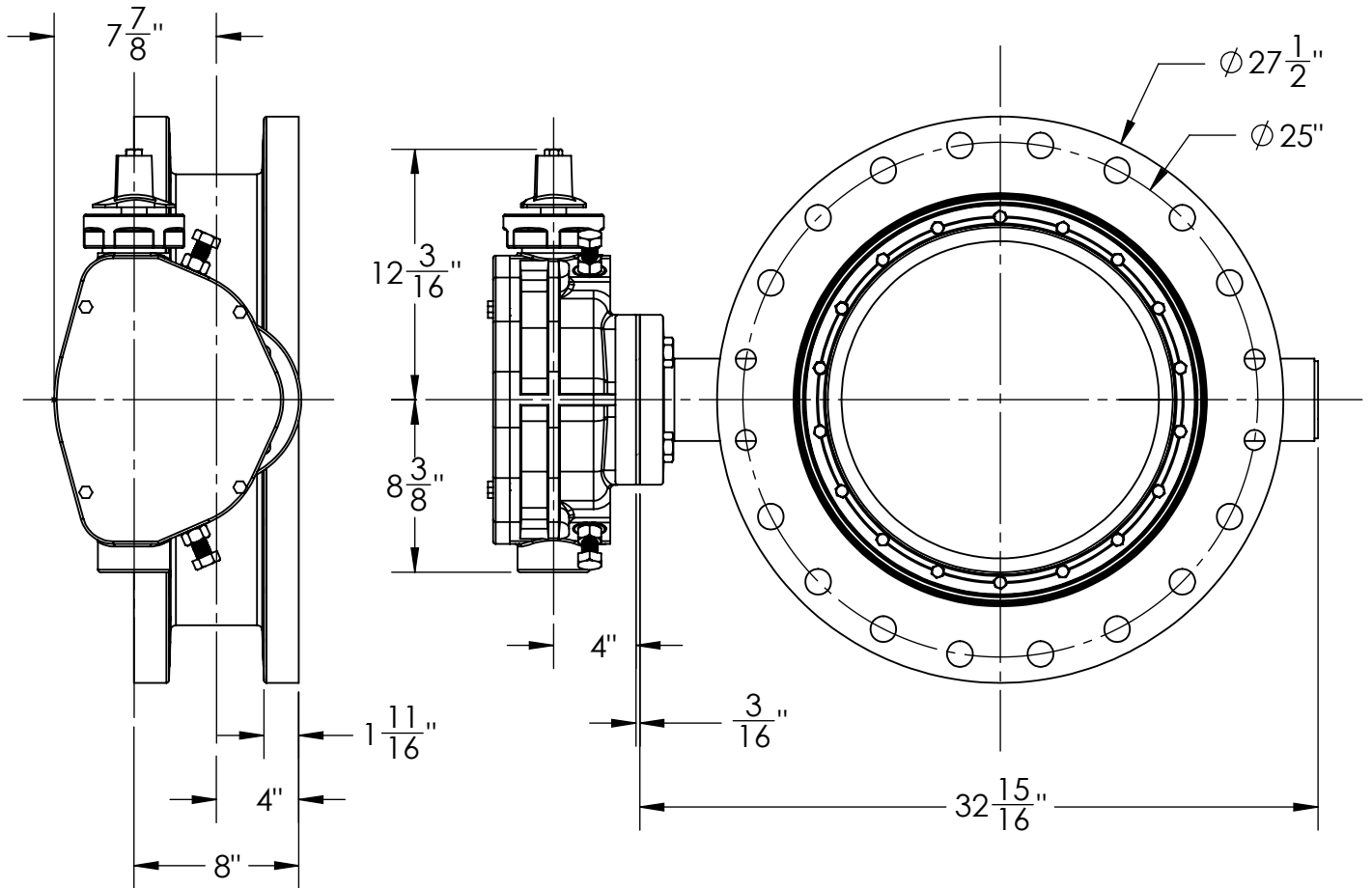


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DRAWN: CTJ
DATE: 10/4/2018
DWG. NO.
B18FBB11

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



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
3. NUMBER OF TURNS TO CLOSE: 48
4. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
5. (20) 1 1/8"-7 BOLTS FOR EACH FLANGE
6. RATED AND TESTED FOR 150psi WORKING PRESSURE
7. VALVE WEIGHT IS 625 LBS.

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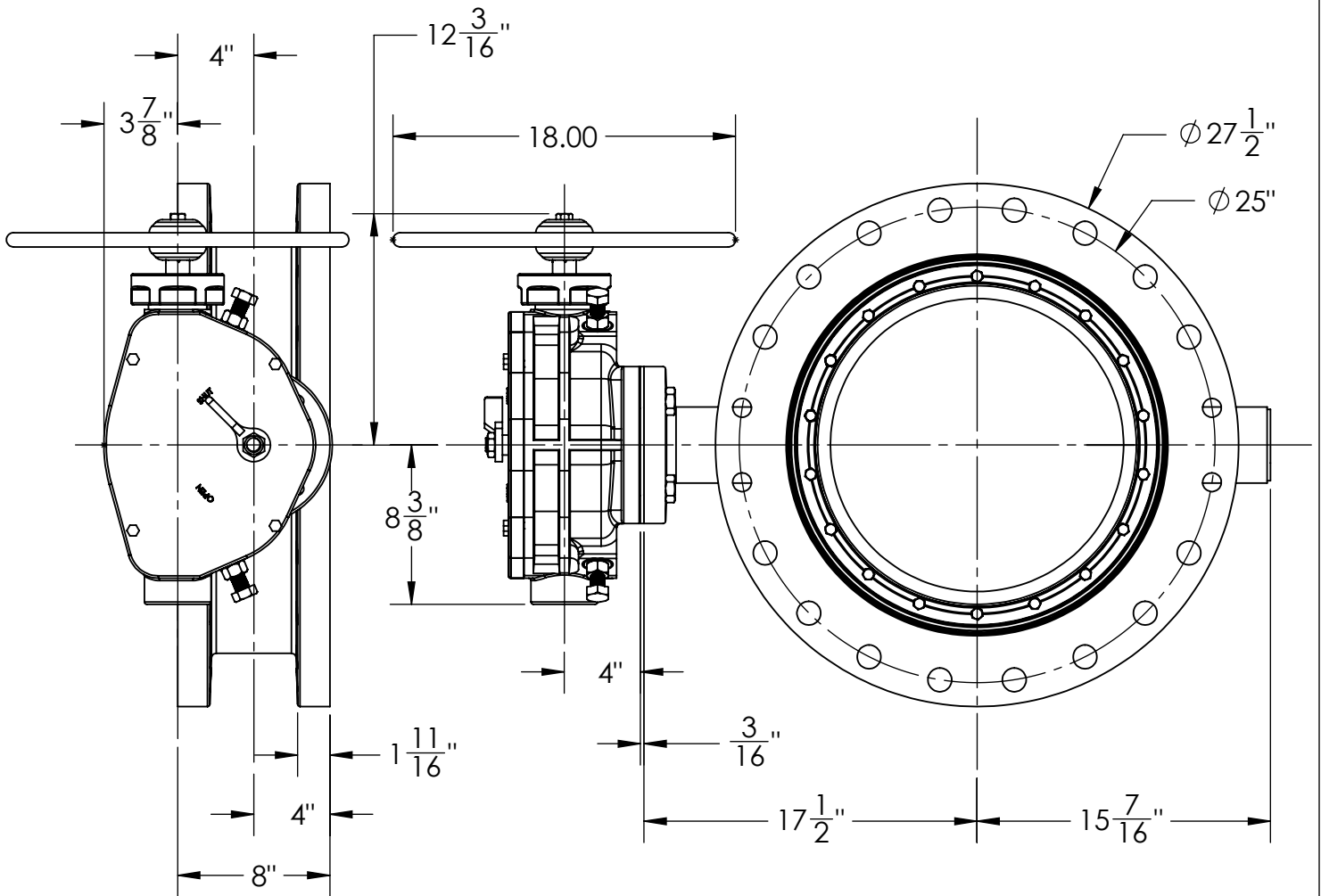


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DRAWN: CTJ
DATE: 11/26/2018
DWG. NO. B20FAM11

**20" AWWA C504 - STYLE 4500 - CL150
BFV w/ 1250 F/A16 MSS/ISO CONNECTION
SUB-ASSEMBLY - DIMENSIONS
FLANGED END**



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
3. NUMBER OF TURNS TO CLOSE: 48
4. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
5. (20) 1 1/8"-7 BOLTS FOR EACH FLANGE
6. RATED AND TESTED FOR 150psi WORKING PRESSURE
7. VALVE WEIGHT IS 625 LBS.

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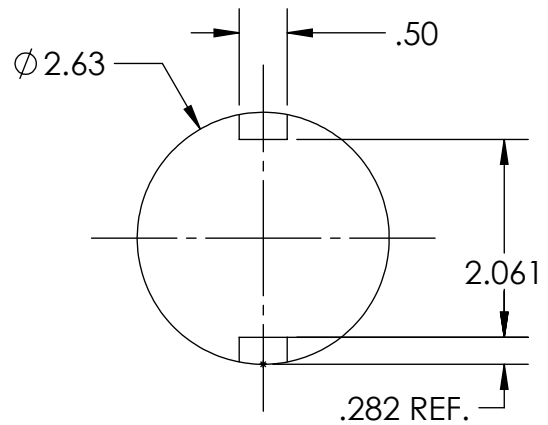
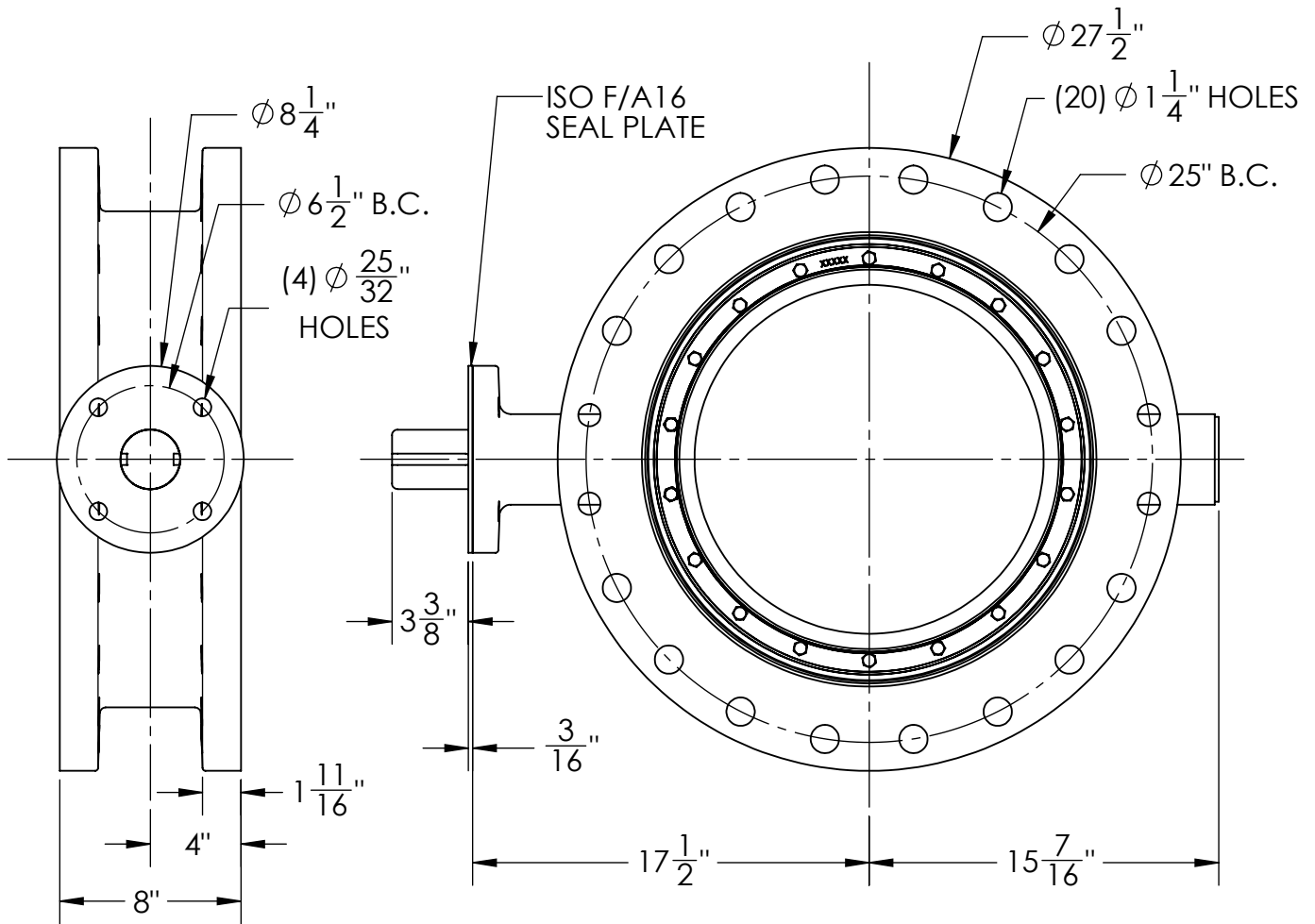
DRAWN: CTJ

DATE: 2/8/2019

DWG. NO.

B20FAM1101

**20" AWWA C504 - STYLE 4500 - CL150
BFV w/ 1250 HANDWHEEL OPERATOR
F/A16 MSS/ISO CONNECTION
SUB-ASSEMBLY - DIMENSIONS
FLANGED END**



SHAFT & KEYWAY DIM.

1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
3. REFERENCE AWW C504 FOR FLANGES AND DRILLING (ANSI 125)
4. 16 BOLTS ON EACH FLANGE (12 THRU & 4 TAPPED)
5. 1 1/8" DIA. OF BOLTS
6. RATED AND TESTED FOR 150psi WORKING PRESSURE

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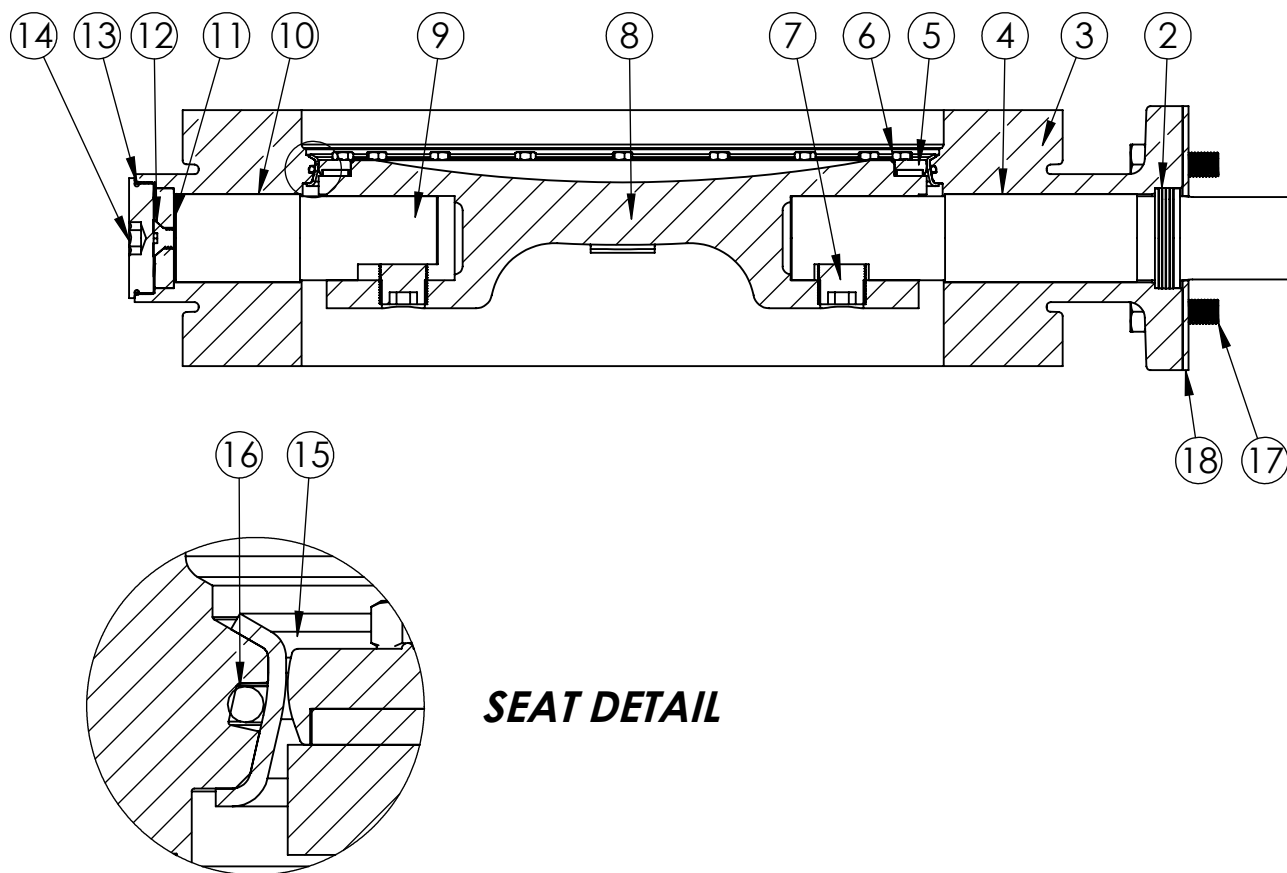


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P.O. BOX 2088
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DRAWN: CTJ
DATE: 6/4/2019
DWG. NO.
BD20-F1-B01-000

20" - STYLE 4500 - CL150
BFV WITH F/A16 MSS/ISO CONNECTION
FLANGED ENDS



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 | 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 | OPERATOR MOUNTING BOLTS | 18-8 STAINLESS STEEL |
| 18 | ISO FA16 SEAL PLATE | COMMERCIAL STEEL |

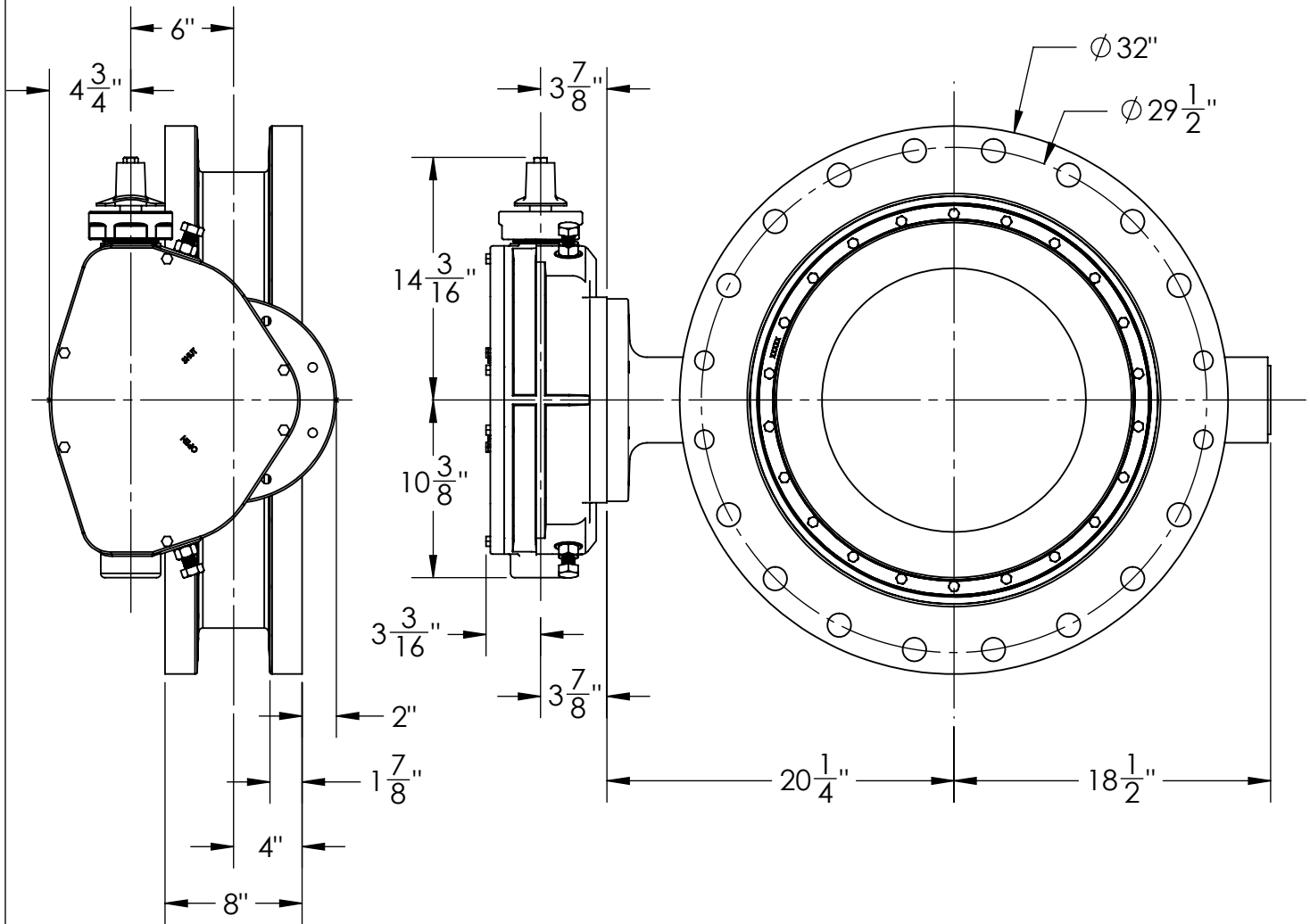
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DRAWN: ZF
DATE: 8/31/2018
DWG. NO. B20FBB11

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



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
3. 72 TURNS TO CLOSE
4. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
5. (20) 1 1/4"-7 BOLTS ON EACH FLANGE, 4 THREADED
6. RATED AND TESTED FOR 150psi WORKING PRESSURE
7. VALVE WEIGHT IS 800 LBS.

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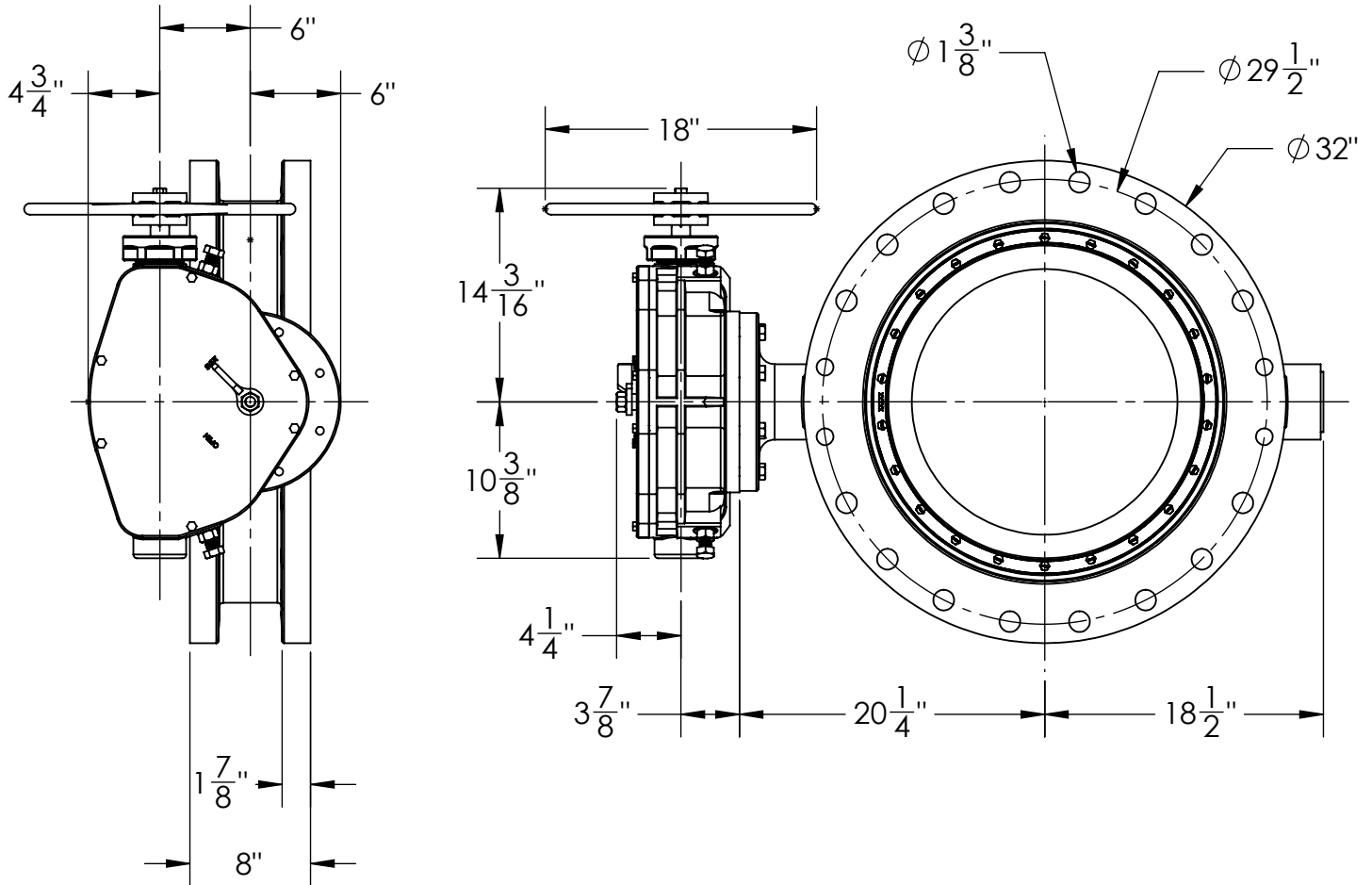


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DRAWN: CTJ
DATE: 11/26/2018
DWG. NO. B24FAM11

24" AWWA C504 - STYLE 4500 - CL150
BFV w/ F/A25 MSS/ISO CONNECTION
SUB-ASSEMBLY - DIMENSIONS
FLANGED END



1. FLOW MAY BE IN EITHER DIRECTION
2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
3. 72 TURNS TO CLOSE
4. 20 BOLTS ON EACH FLANGE
5. 1 1/4" BOLTS ON EACH FLANGE
6. 4 THREADED HOLES ON EACH FLANGE, 1 1/4"-7
7. OPERATED BY 18" HANDWHEEL
8. RATED AND TESTED FOR 150psi WORKING PRESSURE

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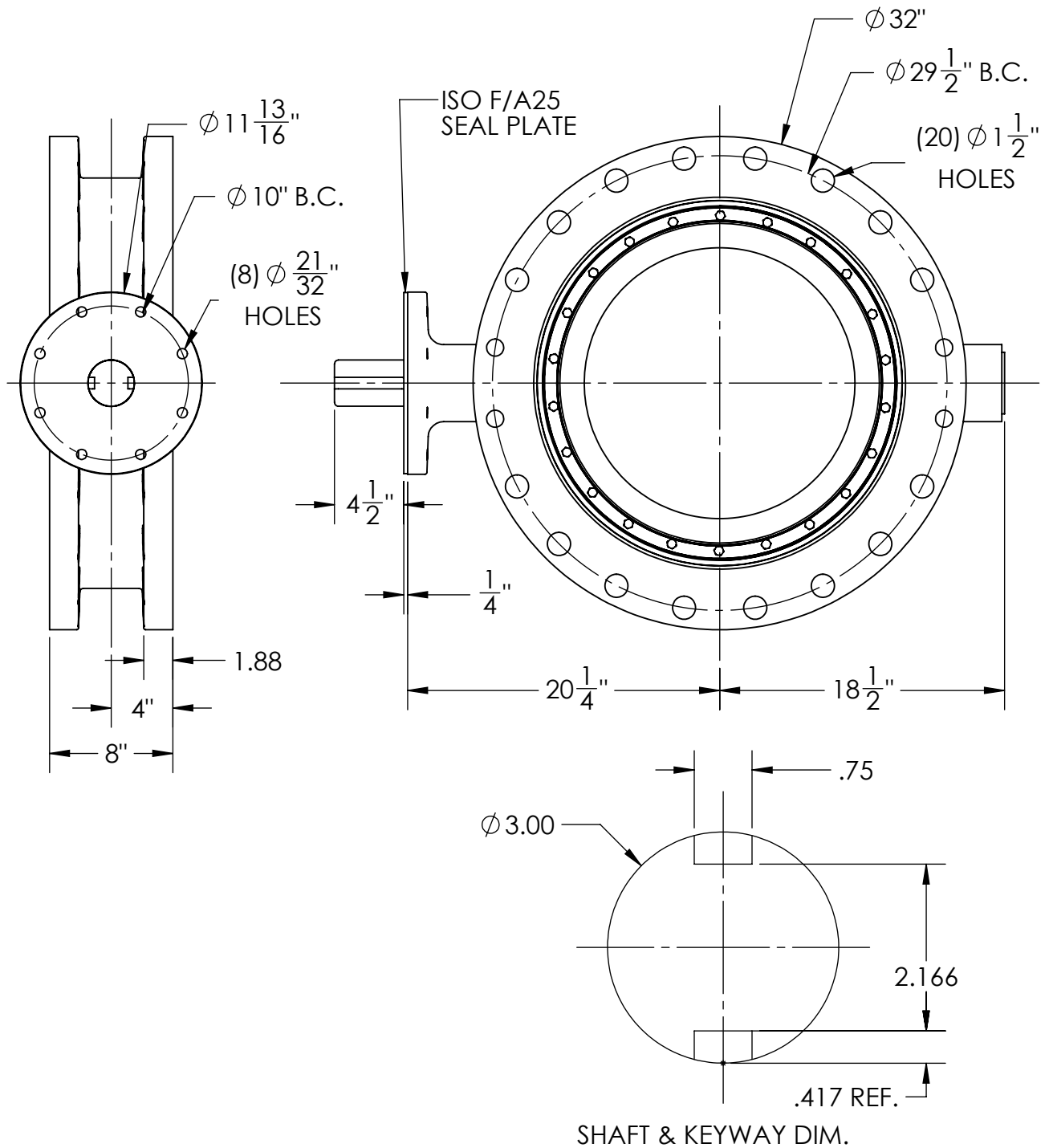
DRAWN: CTJ

DATE: 5/14/2019

DWG. NO.

BD24-F1-M31-000

24" AWWA C504 - STYLE 4500 - CL150
BFV w/ F/A25 MSS/ISO CONNECTION
HANDWHEEL OPERATOR - OPEN LEFT
FLANGED END



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. 16 BOLTS ON EACH FLANGE (16 THRU & 4 TAPPED)
5. 1 1/4" DIA. OF BOLTS
6. RATED AND TESTED FOR 150psi WORKING PRESSURE

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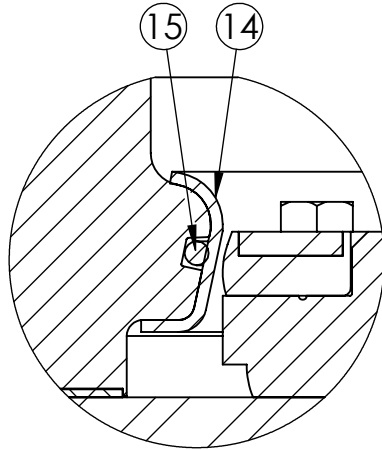
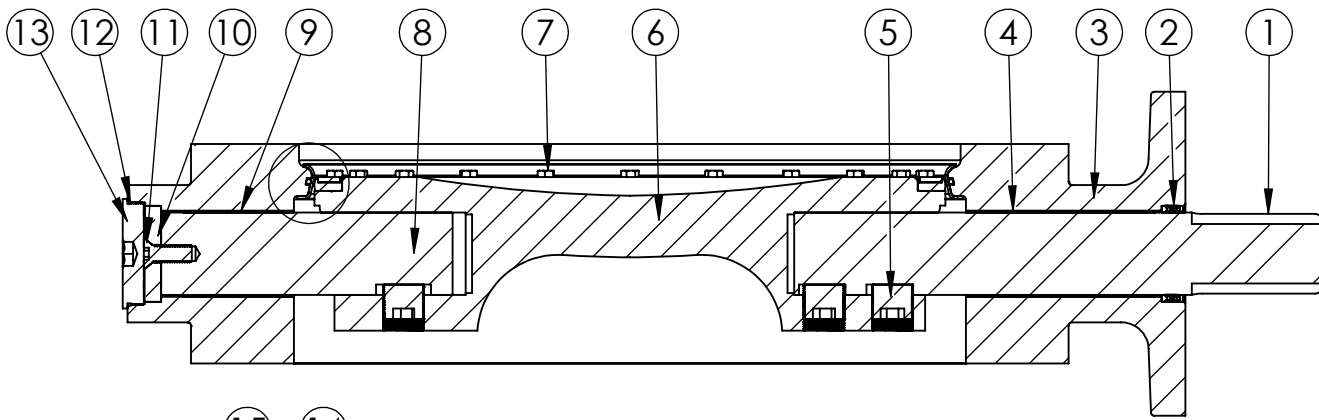


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P.O. BOX 2088
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DRAWN: CTJ
DATE: 6/4/2019
DWG. NO.
BD24-F1-B01-000

24" - STYLE 4500 - CL150 BFV
w/ F/A25 MSS/ISO CONNECTION
FLANGED ENDS



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 | THRUST SHAFT | 304 STAINLESS STEEL, ASTM A-276 |
| 9 | LOWER JOURNAL BEARING | FIBER & REINFORCED TEFLON |
| 10 | THRUST BEARING | BRONZE ALLOY |
| 11 | THRUST BEARING CAP SCREW | 18-8 STAINLESS STEEL |
| 12 | BODY END PLUG | STEEL |
| 13 | BODY END PLUG O-RING | EPDM |
| 14 | BODY SEAT RING | 316 STAINLESS STEEL |
| 15 | BODY SEAT O-RING | BUNA-N |

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DRAWN: ZF
DATE: 8/13/2018
DWG. NO. B24FBB11

24" AWWA C504 - STYLE 4500 - CL150
BFV w/ F/A25 MSS/ISO CONNECTION
SUB-ASSEMBLY - MATERIAL LIST
FLANGED ENDS