

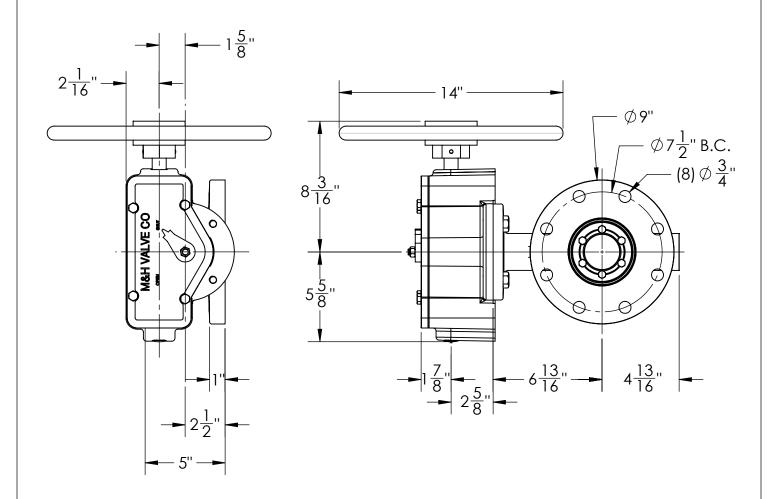
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 TURNS TO CLOSE
- 5. 8 BOLTS ON EACH FLANGE
- 6. 5/8"- DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND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



CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: CTJ
DATE: 11/26/2018
DWG.
NO. BO4FAM11

4" - Style 4500 - CL150
BFV with F/A 12 MSS/ISO ConnectionFLANGED ENDS - 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. 29 TURNS TO CLOSE
- 5. 8 BOLTS ON EACH FLANGE
- 6. 5/8"- DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE



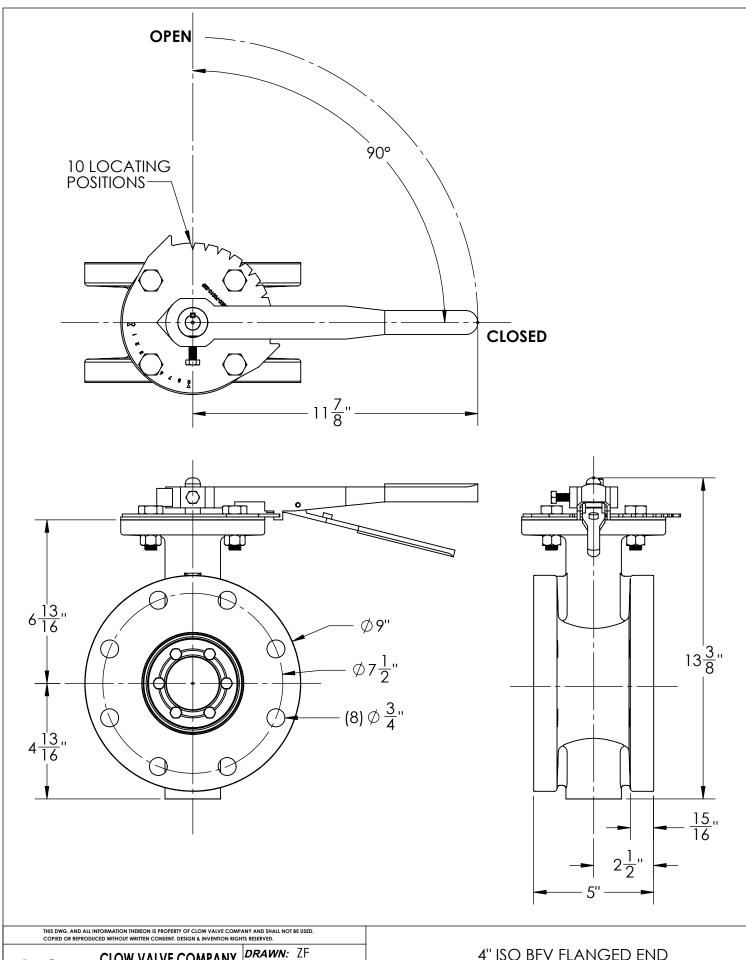
CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: ZF

DATE: 12/7/2018

DWG.
NO. B04FAM1101

4" - Style 4500 - CL150 BFV
W/ F/A 12 MSS/ISO ConnectionHANDWHEEL OPERATOR - FLANGED ENDS



CLCW VALVE CO. CLOW VALVE COMPANY

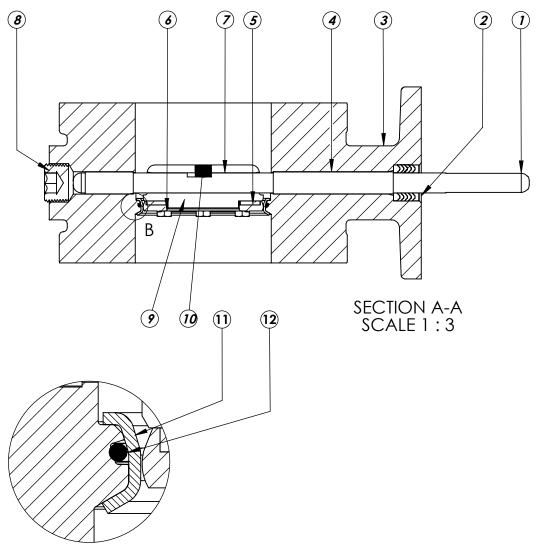
A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DATE: 11/30/2018

DWG.

NO.

BO4FAL1100

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



DETAIL B **SCALE 2:1**

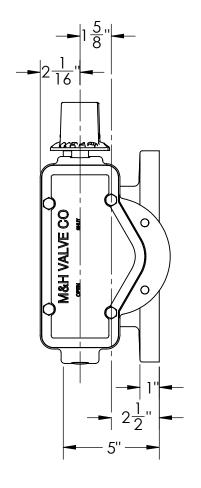
ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT with SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH
7	LOWER JOURNAL BEARING	NYLATRON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

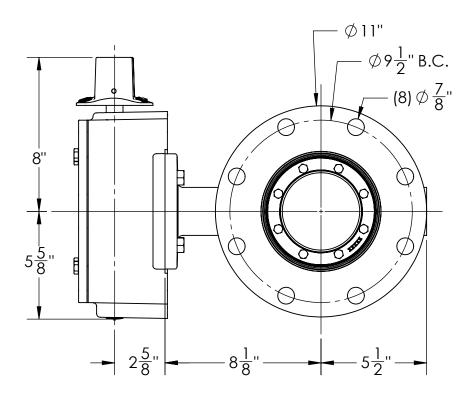
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CLCW VALVE CO.

CLOW VALVE COMPANY A DIVISION OF MC WANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577

DRAWN: ZF 1/4/17 DATE: BO4FBB11 4" AWWA C504 - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection Sub-Assembly - Material List FLANGED END



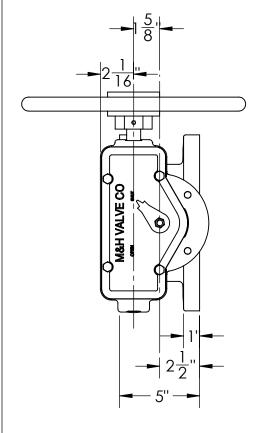


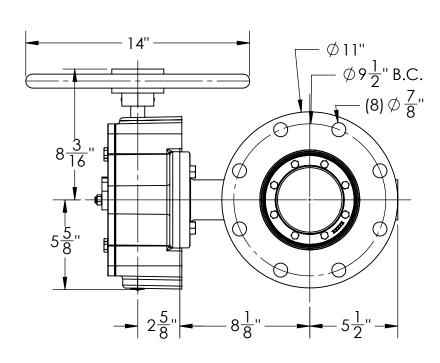
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 NUMBER OF TURNS TO CLOSE
- 5. 8 BOLTS ON EACH FLANGE
- 6. 3/4" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8.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

CLCW VALVE CO. CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: CTJ
DATE: 11/26/2018
DWG.
NO. B06FAM11

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





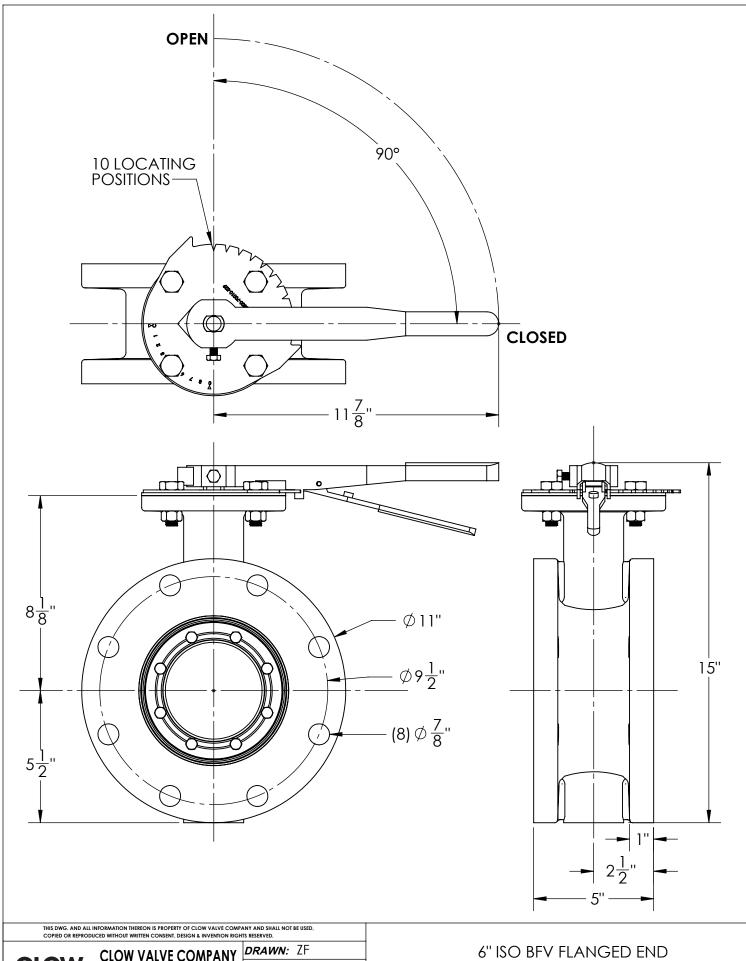
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 NUMBER OF TURNS TO CLOSE
- 5. 8 BOLTS ON EACH FLANGE
- 6. 3/4" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8.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

CLCW

CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: CTJ
DATE: 11/26/2018
DWG.
NO. B06FAM11

6" - Style 4500 - CL150
BFV with F/A 12 MSS/ISO ConnectionFLANGED ENDS - Operator w/
POS. INDICATOR & HAND WHEEL



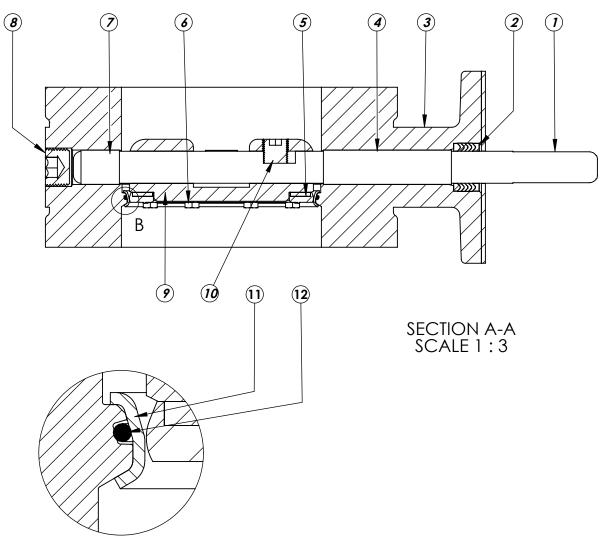
CLCW VALVE CO.

CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577

11/30/2018 DATE: B06FAL1100

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



DETAIL B SCALE 2:1

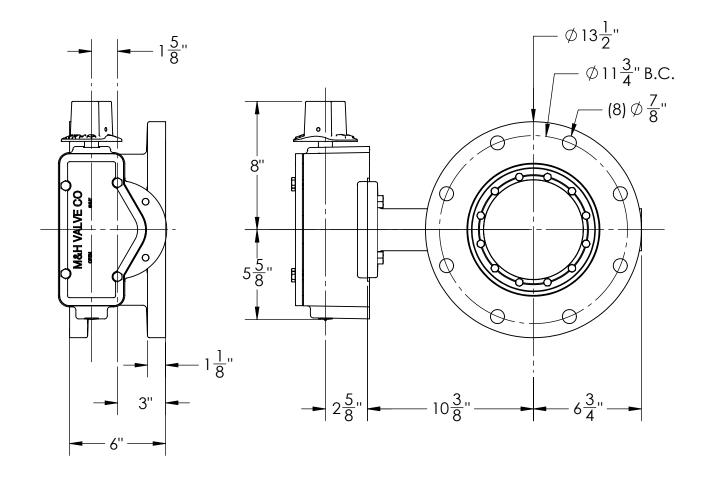
ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT with SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH
7	LOWER JOURNAL BEARING	NYLATRON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

A DIVISION OF McWANE INC. 902 SOUTH 2ND ST

DRAWN: ZF **CLOW VALVE COMPANY** 1/6/17 DATE: OSKALOOSA, IA 52577 B06FBB11 6" AWWA C504 - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection Sub-Assembly - Material List FLANGED END



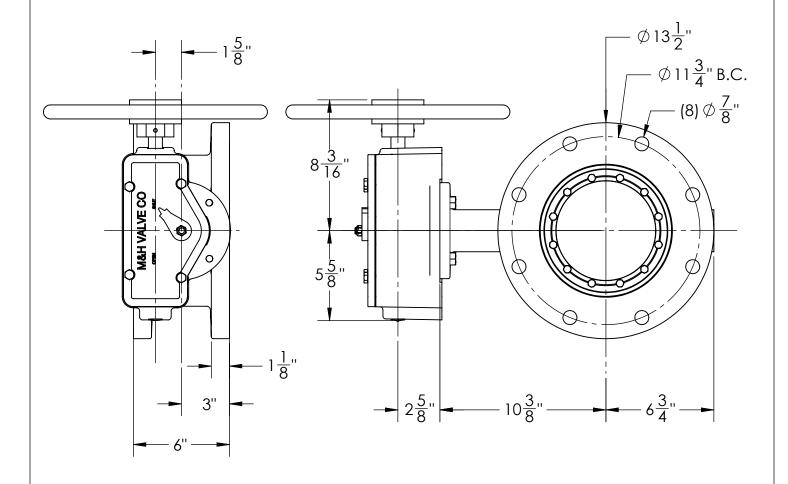
- FLOW MAY BE IN EITHER DIRECTION 1.
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 TURNS TO CLOSE
- 5. 8 BOLTS ON EACH FLANGE
- 3/4" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- RATED AND TESTED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



CLOW VALVE COMPANY

DRAWN: CTJ **DATE:** 11/26/2018 A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 B08FAM11

8" - Style 4500 - CL150 BFV with F/A 12 MSS/ISO Connection-**FLANGED ENDS - 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. 29 TURNS TO CLOSE
- 5. 8 BOLTS ON EACH FLANGE
- 6. 3/4" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE



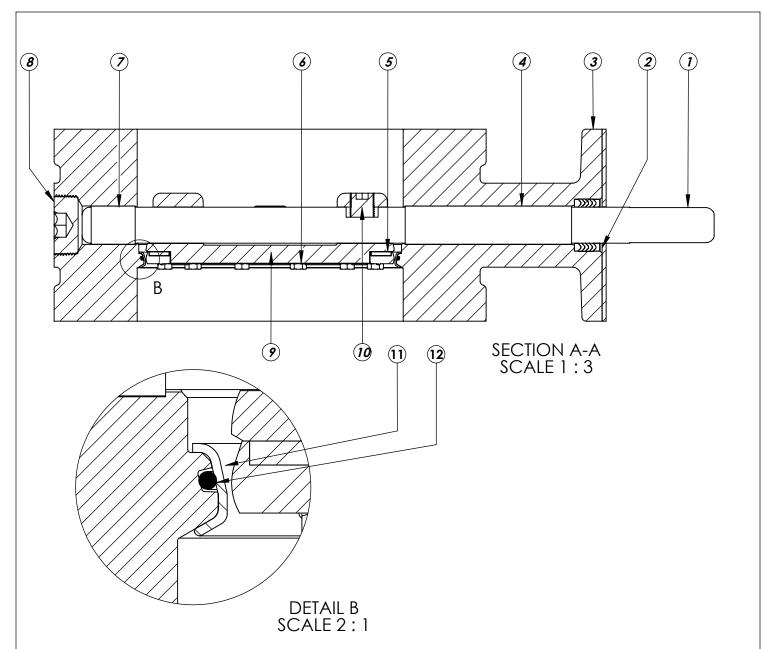
CLOW VALVE COMPANY

A DIVISION OF MCWANE INC.
902 SOUTH 2ND ST

OSKALOOSA, IA 52577

DRAWN: CTJ
DATE: 11/26/2018
DWG.
NO. BO8FAM11

8" - Style 4500 - CL150
BFV with F/A 12 MSS/ISO ConnectionFLANGED ENDS - OP w/ HANDWHEEL
& POSITION INDICATOR



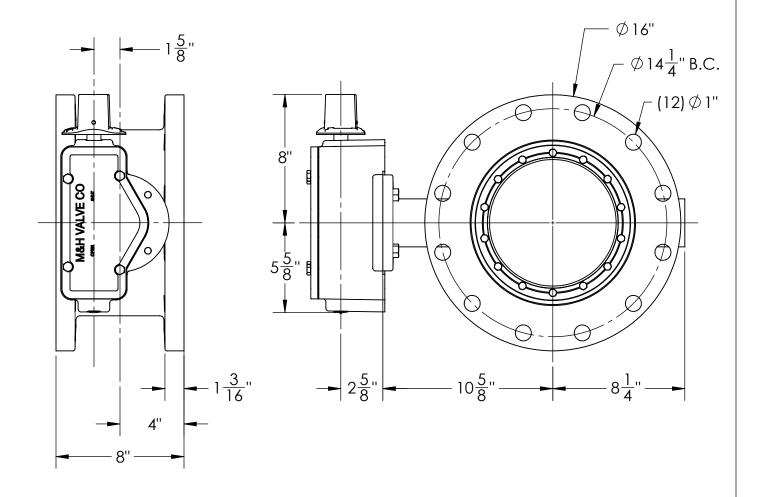
ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT with SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH
7	LOWER JOURNAL BEARING	NYLATRON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

CLCW VALVE CO. CLOW VALVE COMPANY

A DIVISION OF MC-WANE INC.
902 SOUTH 2ND ST
OSKALOOSA, IA 52577

| DRAWN: ZF | DATE: 1/9/17 | DWG. | NO. | BO8FBB11

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 BOLTS ON EACH FLANGE
- 6. 1" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE

CLCW

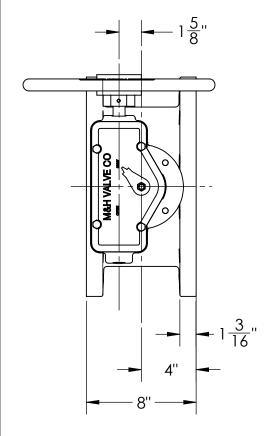
CLOW VALVE COMPANY

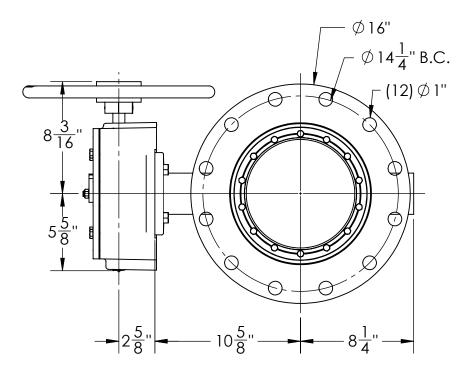
A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577
 DRAWN:
 CTJ

 DATE:
 11/26/2018

 DWG.
 No.
 B10FAM11

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





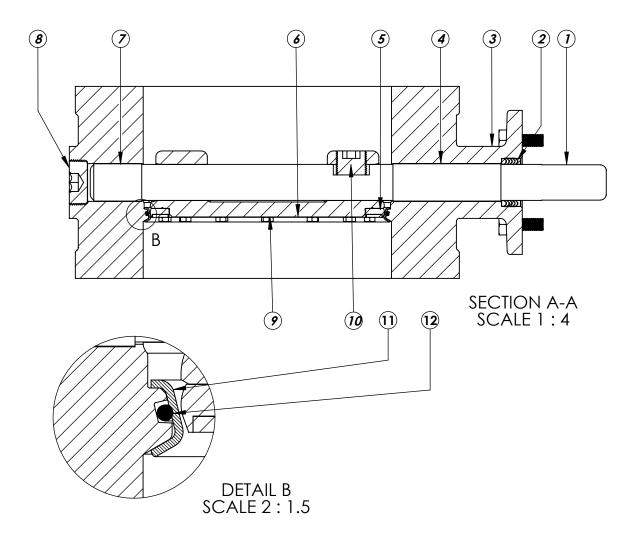
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 TURNS TO CLOSE
- 5. 12 BOLTS ON EACH FLANGE
- 6. 7/8" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE

CLCW

CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: CTJ
DATE: 1/23/2019
DWG.
NO. B10FAM1101

10" - Style 4500 - CL150
BFV with F/A 12 MSS/ISO ConnectionHANDWHEEL OPERATOR - 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 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

CLCW VALVE CO. CLOW VALVE COMPANY

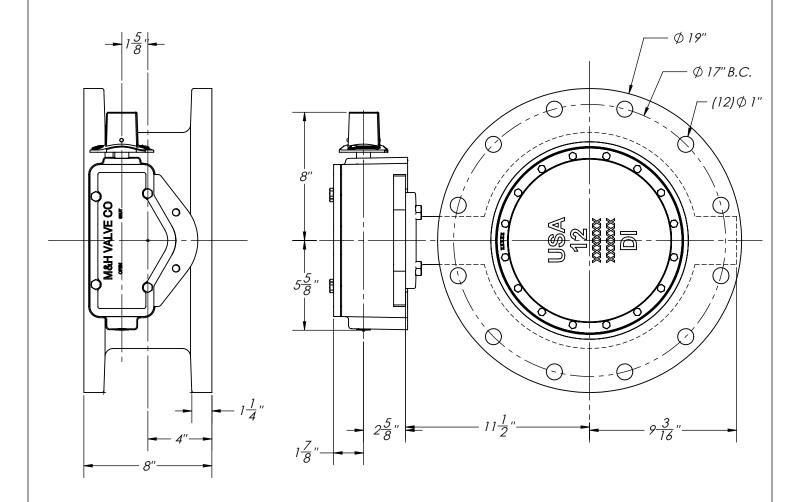
A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: ZF

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



- FLOW MAY BE IN EITHER DIRECTION 1.
- 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
- 7/8" DIAMETER OF BOLTS
- 7. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- RATED AND TESTED FOR 150psi WORKING PRESSURE



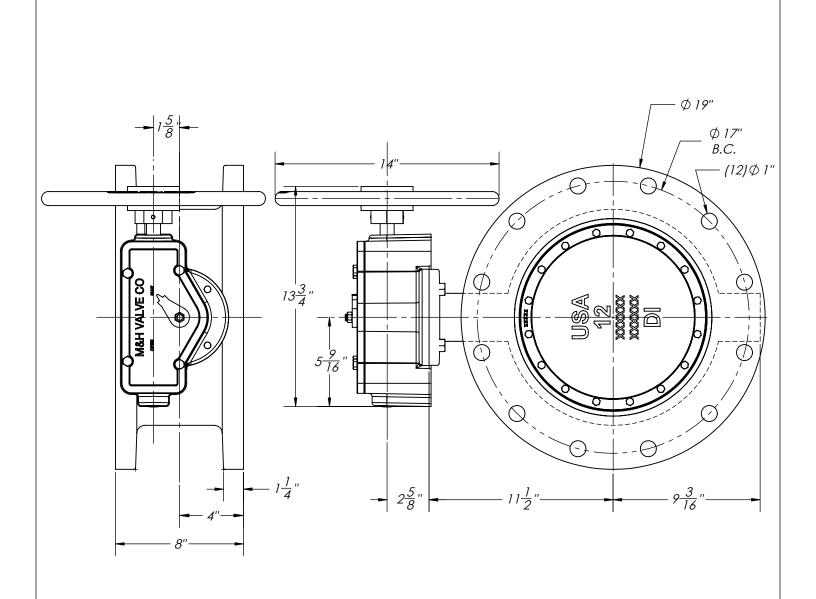
CLOW VALVE COMPANY

DATE: A DIVISION OF MCWANE INC. DWG. NO. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 B12FAM11

DRAWN: CTJ

11/26/2018

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



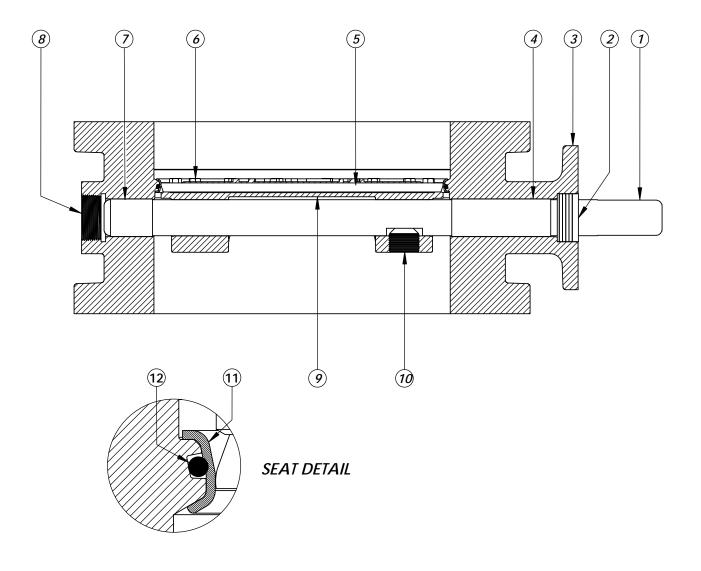
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. REFERENCE AWWA C504 FOR FLANGES AND DRILLING (ANSI 125)
- 4. 29 TURNS TO CLOSE
- 5. 12 BOLTS ON EACH FLANGE
- 6. 7/8" DIAMETER OF BOLTS
- 7. OPERATED BY HANDWHEEL
- 8. RATED AND TESTED FOR 150psi WORKING PRESSURE



CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 | DRAWN: ZF | DATE: 1/23/2019 | DWG. NO. | B12FAM1101

12" - Style 4500 - CL150
BFV with F/A 12 MSS/ISO ConnectionHANDWHEEL OPERATOR - FLANGED ENDS

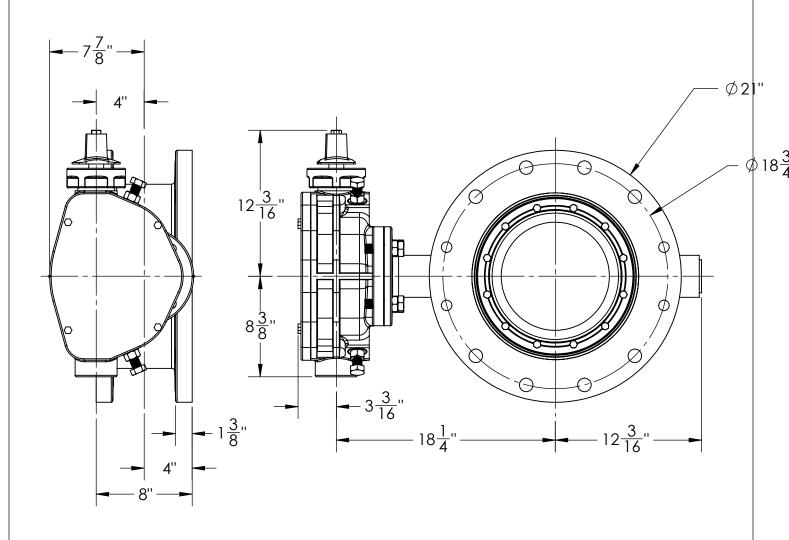


ITEM NO.	DESCRIPTION	MATERIAL
1	VANE SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	NYLATRON
5	VANE SEAT RING	EPT with SS INSERT
6	HEX HEAD CAPSCREW	18-8 STAINLESS STEEL with NYLOC PATCH
7	LOWER JOURNAL BEARING	NYLATRON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

CLCW VALVE CO.

CLOW VALVE COMPANY

DRAWN: KLM 10/2016 DATE: A DIVISION OF McWANE INC. 902 South 2ND ST DWG. NO. OSKALOOSA, IA 52577 BFE-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.



CLOW VALVE COMPANY

A DIVISION OF MCWANE INC.
902 SOUTH 2ND ST

OSKALOOSA, IA 52577

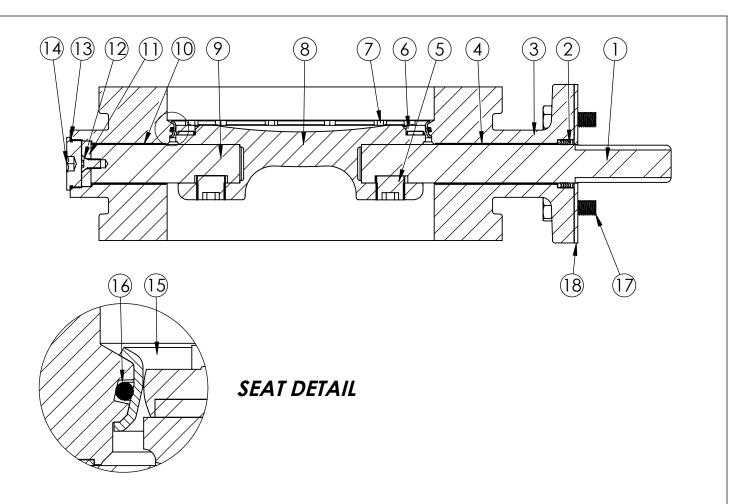
DRAWN: CTJ

DATE: 11/26/2018

DWG.
NO.

B14FAM11

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



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

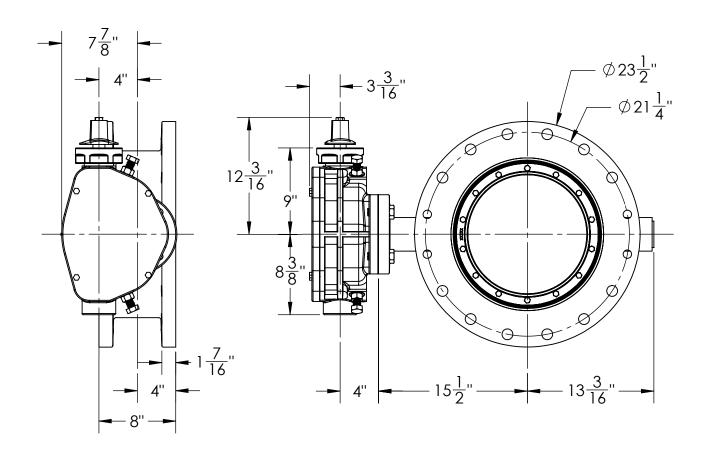
CLCW VALVE CO.

CLOW VALVE COMPANY

DATE: A DIVISION OF MCWANE INC. DWG. 902 SOUTH 2ND ST OSKALOOSA, IA 52577

DRAWN: ZF 8/31/2018 B14FBB11

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



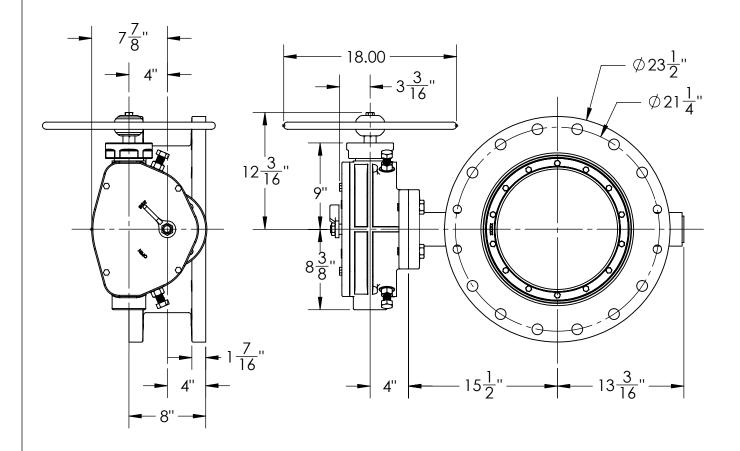
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
- 3. 48 TURNS TO CLOSE
- 4. 16 BOLTS ON EACH FLANGE
- 5. 1" DIA. OF BOLTS
- 6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 7. RATED AND TESTED FOR 150psi WORKING PRESSURE
- 8. WEIGHT OF VALVE IS 450 LBS.



CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 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.



CLOW VALVE COMPANY

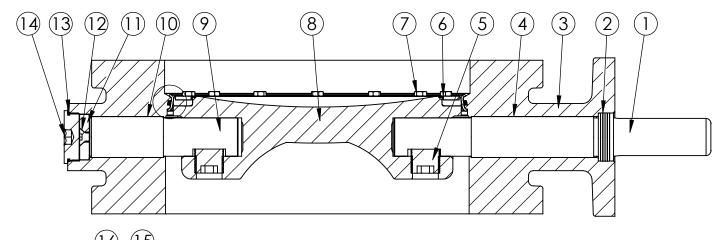
A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: CTJ

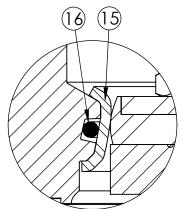
DATE: 2/8/2019

DWG. NO.

B16FAM1101

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





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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CLOW VALVE COMPANY

CLOW VALVE COMPANY

CLOW VALVE COMPANY

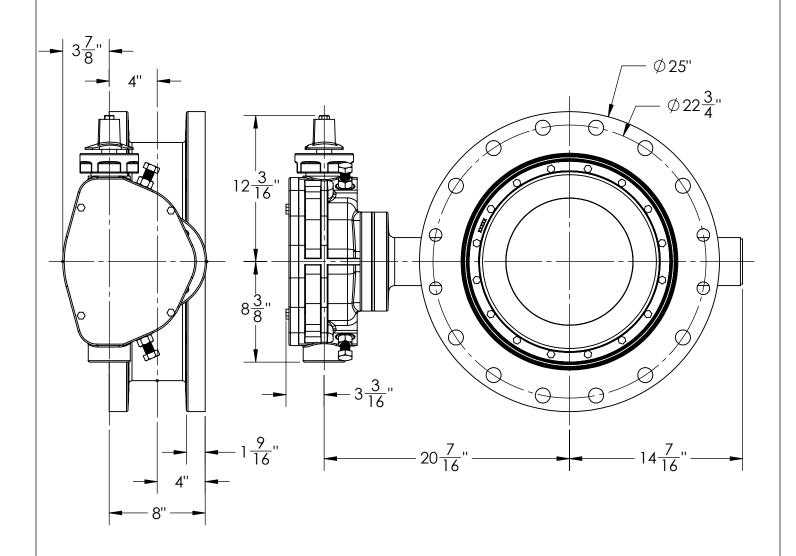
CLCW VALVE CO.

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 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



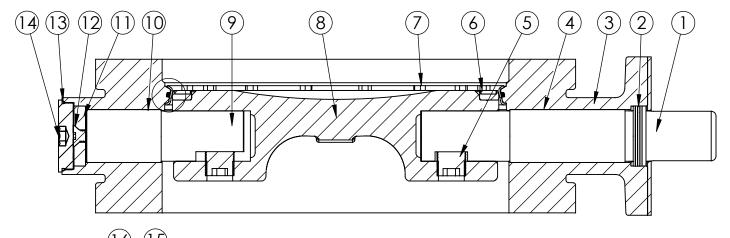
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 STANDARDS
- 3. 48 TURNS TO CLOSE
- 4. 16 BOLTS ON EACH FLANGE
- 5. 1 1/8" DIA. OF BOLTS
- 6. OPERATED BY 2" AWWA OPERATING NUT/WRENCH NUT
- 7. RATED AND TESTED FOR 150psi WORKING PRESSURE
- 9. WEIGHT OF VALVE IS 450 LBS.

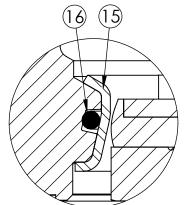


CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 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





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

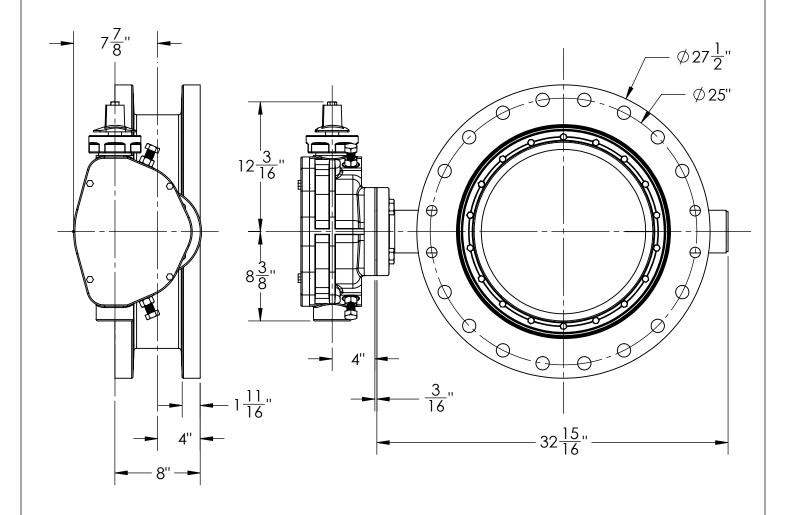
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CLCW VALVE CO.

CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 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.

CLCW VALVE CO. CLOW VALVE COMPANY

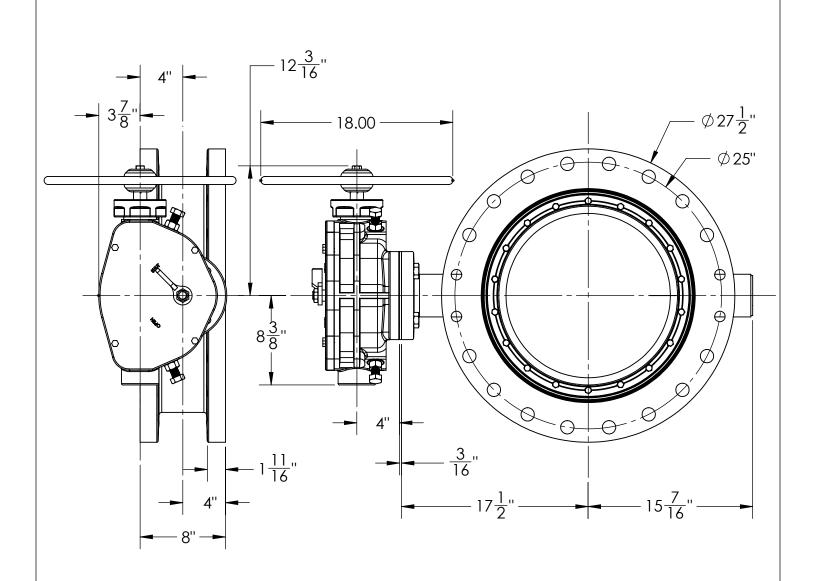
A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 DRAWN: CTJ

DATE: 11/26/2018

DWG.

NO. B20FAM11

20" AWWA C504 - STYLE 4500 - CL150 BFV w/ 1250 F/A16 MSS/ISO CONNECTION SUB-ASSEMBLY - DIMESNIONS 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.

VALVE CO.

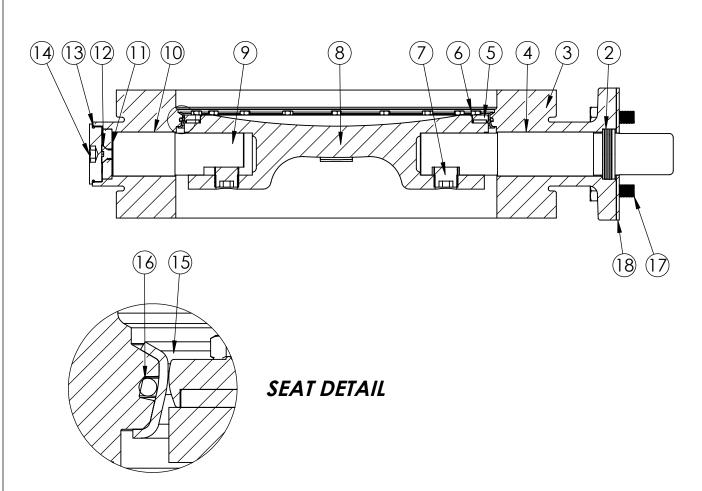
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CLOW VALVE COMPANY

DATE: 2/8/2019

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 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 - DIMESNIONS FLANGED END



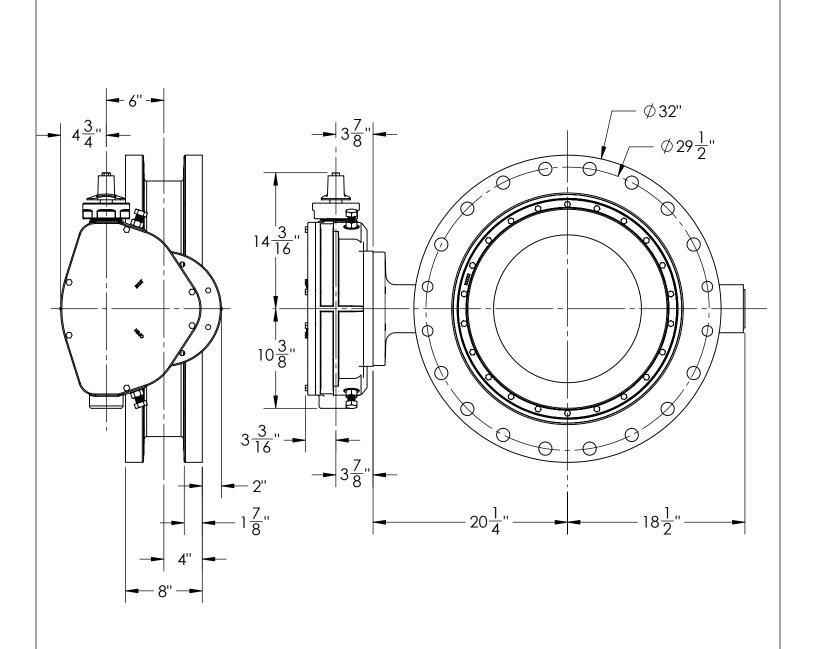
ITEM NO.	DESCRIPTION	MATERIAL
1	OPERATOR SHAFT	304 STAINLESS STEEL, ASTM A-276
2	V-RING PACKING SET	EPDM, BUNA-N
3	BFV BODY	DUCTILE IRON ASTM A-536
4	UPPER JOURNAL BEARING	FIBER & REINFORCED TEFLON
5	VANE SEAT RING	EPT W/ STAINLESS STEEL INSERT
6	HEX HEAD CAP SCREW	18-8 STAINLESS STEEL W/ NYLOC PATCH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

CLCW VALVE CO.

CLOW VALVE COMPANY A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577

DRAWN: ZF DATE: 8/31/2018 B20FBB11

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



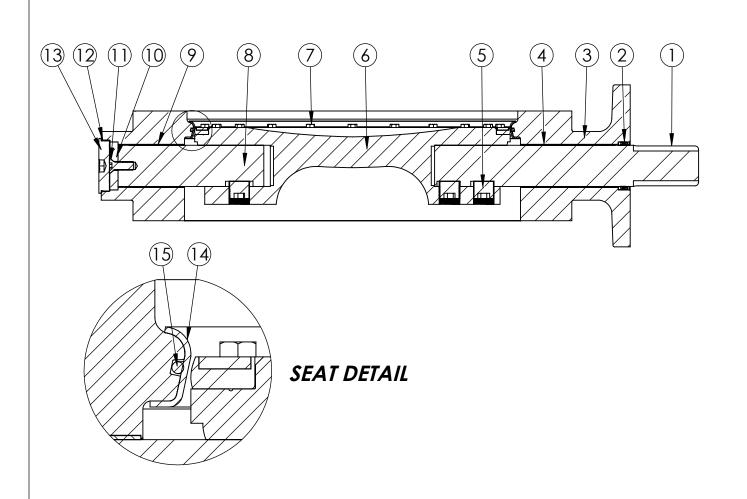
- 1. FLOW MAY BE IN EITHER DIRECTION
- 2. VALVE SHAFT WILL MEET OR EXCEED AWWA C504 REQUIREMENTS
- 3. 72 TURNS TO CLOSE
- 4. OPERATED BY 2" AWWA OPERATING NUT / WRENCH NUT
- 5. (20) 1 1/4"-7 BOLTS ON EACH FLANGE, 4 THREADED
- 6. RATED AND TESTED FOR 150psi WORKING PRESSURE
- 7. VALVE WEIGHT IS 800 LBS.

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CLCW VALVE CO. CLOW VALVE COMPANY

A DIVISION OF MCWANE INC. 902 SOUTH 2ND ST OSKALOOSA, IA 52577 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



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

CLCW VALVE CO.

CLOW VALVE COMPANY A DIVISION OF McWANE INC. 902 SOUTH 2ND ST

OSKALOOSA, IA 52577

DRAWN: ZF DATE: 8/13/2018 B24FBB11

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