

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
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8																							
9																							
10																							
11																							

14" C515 FLG X FLG

26.69

Ø 21.00

17.88

10.50

14.75

1.42

7.50

15.00

12 X Ø 1.13 HOLES ON Ø 18.75 B.C.

FLG END:
ANSI B16.1
CLASS 125
AWWA C110

M&H KENNEDY
YEAR
C515
USA
AWWA
250
W
FLG

14" C515 MJ X MJ

26.69

Ø 20.25

17.88

10.13

.91

8.50

17.00

14.84

6 X Ø .88 HOLES
4 X Ø 0.88 SLOTS
ON Ø 18.75 B.C.

MJ END:
ANSI A21.11
AWWA C111

1/4 DI
CLOW
2638
AWWA
250
W

14" C515 TYTON X TYTON

26.69

Ø 18.12

17.88

9.06

9.00

3.70

21.00

20.30

22.55

2 X Ø 1.00 HOLES

TYTON END:
AWWA C111

1/4 DI
CLOW
2638
AWWA
250
W

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V		
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11																								

14" C515 FLG X FLG

26.69

14.75

17.88

10.50

1.42

7.50

15.00

21.00

12 X ϕ 1.13 HOLES ON ϕ 18.75 B.C.

FLG END:
ANSI B16.1
CLASS 125
AWWA C110

14" C515 MJ X MJ

26.69

14.84

17.88

10.13

.91

8.50

17.00

20.25

6 X ϕ .88 HOLES
4 X ϕ 0.88 SLOTS ON ϕ 18.75 B.C.

MJ END:
ANSI A21.11
AWWA C111

14" C515 TYTON X TYTON

26.69

14.75

17.88

9.06

9.00

3.70

21.00

18.12

20.30

22.55

2 X ϕ 1.00 HOLES

TYTON END:
AWWA C111

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V		
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2																								
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11																								

14" C515 FLG X FLG

26.69

14.75

17.88

10.50

1.42

7.50

15.00

21.00

12 X ϕ 1.13 HOLES ON ϕ 18.75 B.C.

FLG END:
ANSI B16.1
CLASS 125
AWWA C110

14" C515 MJ X MJ

26.69

14.84

17.88

10.13

.91

8.50

17.00

20.25

6 X ϕ .88 HOLES
4 X ϕ 0.88 SLOTS ON ϕ 18.75 B.C.

MJ END:
ANSI A21.11
AWWA C111

14" C515 TYTON X TYTON

26.69

14.75

17.88

9.06

9.00

3.70

21.00

18.12

20.30

22.55

2 X ϕ 1.00 HOLES

TYTON END:
AWWA C111

14" C515 FLG X MJ

Technical drawing of the 14" C515 FLG X MJ valve. The drawing includes a front view and a side view. The front view shows a circular flange with 12 holes and 6 slots. The side view shows the internal mechanism and the wedge gate. Dimensions are provided for both views.

FLG END:
ANSI B16.41
CLASS 125
AWWA C110

MJ END:
ANSI A21.11
AWWA C111

12 X ϕ 1.13 HOLES ON ϕ 18.75 B.C.

6 X ϕ .88 HOLES
4 X ϕ .88 SLOTS
ON ϕ 18.75 B.C.

26.69

ϕ 21.00

ϕ 20.25

17.88

14.84

14 DI

CLOW 2638

AWWA 250 W

10.50

10.12

1.38

8.50

8.50

17.00

.91

14" C515 MJ X TAP

Technical drawing of the 14" C515 MJ X TAP valve. The drawing includes a front view and a side view. The front view shows a circular flange with 12 holes and 6 slots. The side view shows the internal mechanism and the wedge gate. Dimensions are provided for both views.

TAP END:
ANSI B16.1
CLASS 125
AWWA C110

MJ END:
ANSI A21.11
AWWA C111

12 X ϕ 1.13 HOLES ON ϕ 18.75 B.C.

6 X ϕ .88 HOLES
4 X ϕ .88 SLOTS
ON ϕ 18.75 B.C.

26.69

ϕ 21.00

ϕ 20.24

ϕ 14.94 R.F.

17.88

14.84

14 DI

CLOW 2638

AWWA 250 W

10.50

10.13

.25 R.F.

1.44

8.50

8.50

17.00

.86

STANDARDS AND TOLERANCES TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.		PROPERTY OF MCWANE CORPORATION. ALL DIMENSIONS AND GEOMETRIC SPECIFICATIONS ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. COPYING OR REPRODUCING THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF MCWANE CORPORATION IS PROHIBITED. ALL RIGHTS RESERVED.		DESCRIPTION	REVISION
CASTING TOLERANCES		MACHINED DIMENSIONS		DESCRIPTION	REVISION
0.4"	1/32"	DECIMALS	0.005	14" C515 OS&Y GEARED RESILIENT	
0.8"	1/16"	FRACTIONS	1/164	WEDGE GATE VALVE	
1.2"	1/8"	ANGLES	1°		
1.6"	3/32"	SURFACE FINISH	125 µin		
1.8"	1/8"	RADIUS	1/8"		
MIN. RADIUS	1/16"				
MIN. DRAFT	2°				
ESTIMATED WEIGHT		LBS.		DATE DRAWN	CHK. DATE
CW		12/3/2020		DATE	1:6
SHEET 6		SHEET 6		Solidworks 2018 SP2	

14" C515 FLG X MJ

Technical drawing of the 14" C515 FLG X MJ valve. The drawing includes a front view and a side view. The front view shows a circular flange with 12 holes and 6 slots. The side view shows the internal mechanism and the wedge gate. Dimensions are provided for both views.

FLG END:
ANSI B16.41
CLASS 125
AWWA C110

MJ END:
ANSI A21.11
AWWA C111

12 X ϕ 1.13 HOLES ON ϕ 18.75 B.C.

6 X ϕ .88 HOLES
4 X ϕ .88 SLOTS
ON ϕ 18.75 B.C.

26.69

ϕ 21.00

ϕ 20.25

17.88

14.84

14 DI

CLOW 2638

AWWA 250 W

10.50

10.12

1.38

8.50

8.50

17.00

.91

14" C515 MJ X TAP

Technical drawing of the 14" C515 MJ X TAP valve. The drawing includes a front view and a side view. The front view shows a circular flange with 12 holes and 6 slots. The side view shows the internal mechanism and the wedge gate. Dimensions are provided for both views.

TAP END:
ANSI B16.1
CLASS 125
AWWA C110

MJ END:
ANSI A21.11
AWWA C111

12 X ϕ 1.13 HOLES ON ϕ 18.75 B.C.

6 X ϕ .88 HOLES
4 X ϕ .88 SLOTS
ON ϕ 18.75 B.C.

26.69

ϕ 21.00

ϕ 20.24

ϕ 14.94 R.F.

17.88

14.84

14 DI

CLOW 2638

AWWA 250 W

10.50

10.13

.25 R.F.

1.44

8.50

8.50

17.00

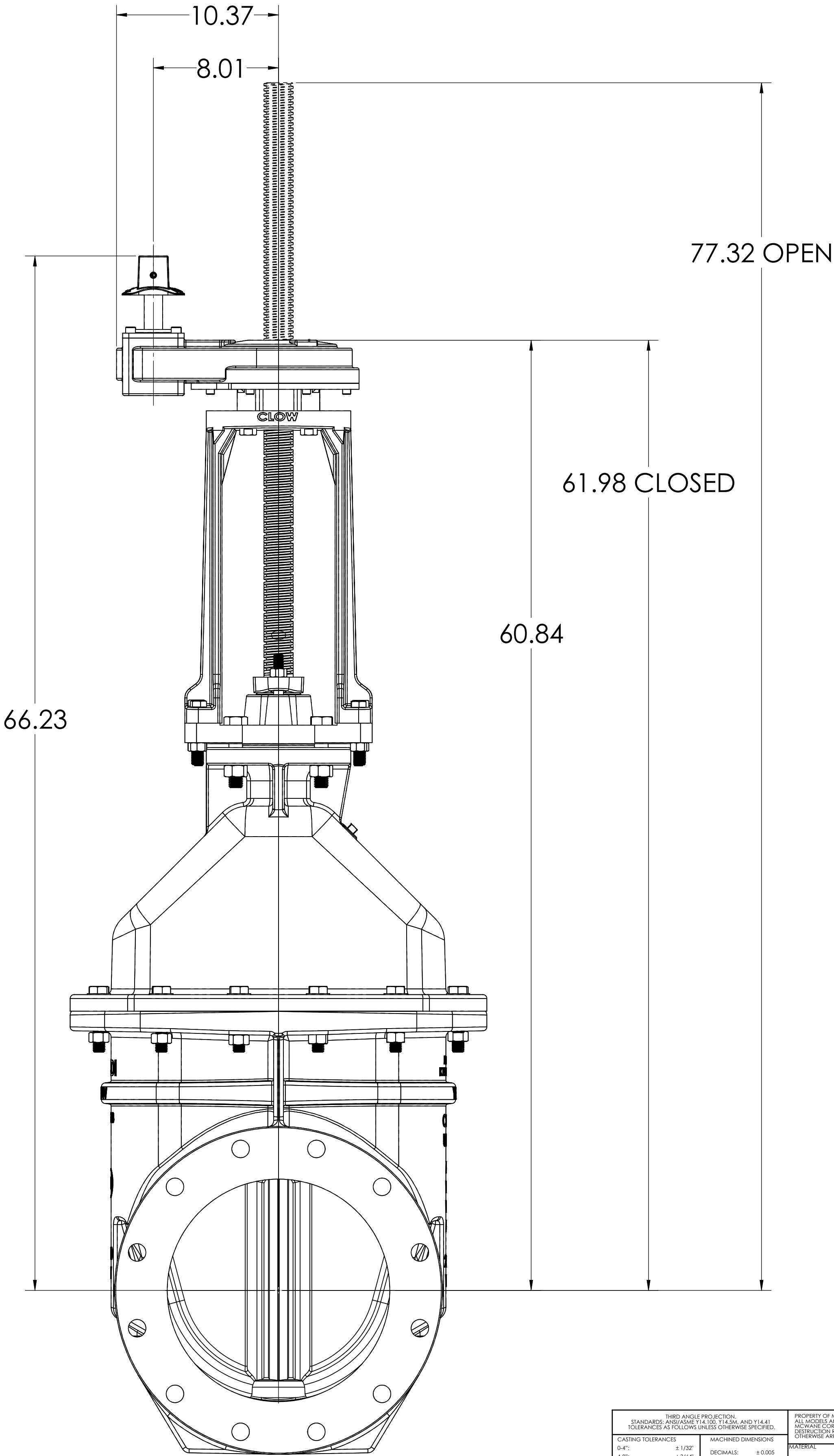
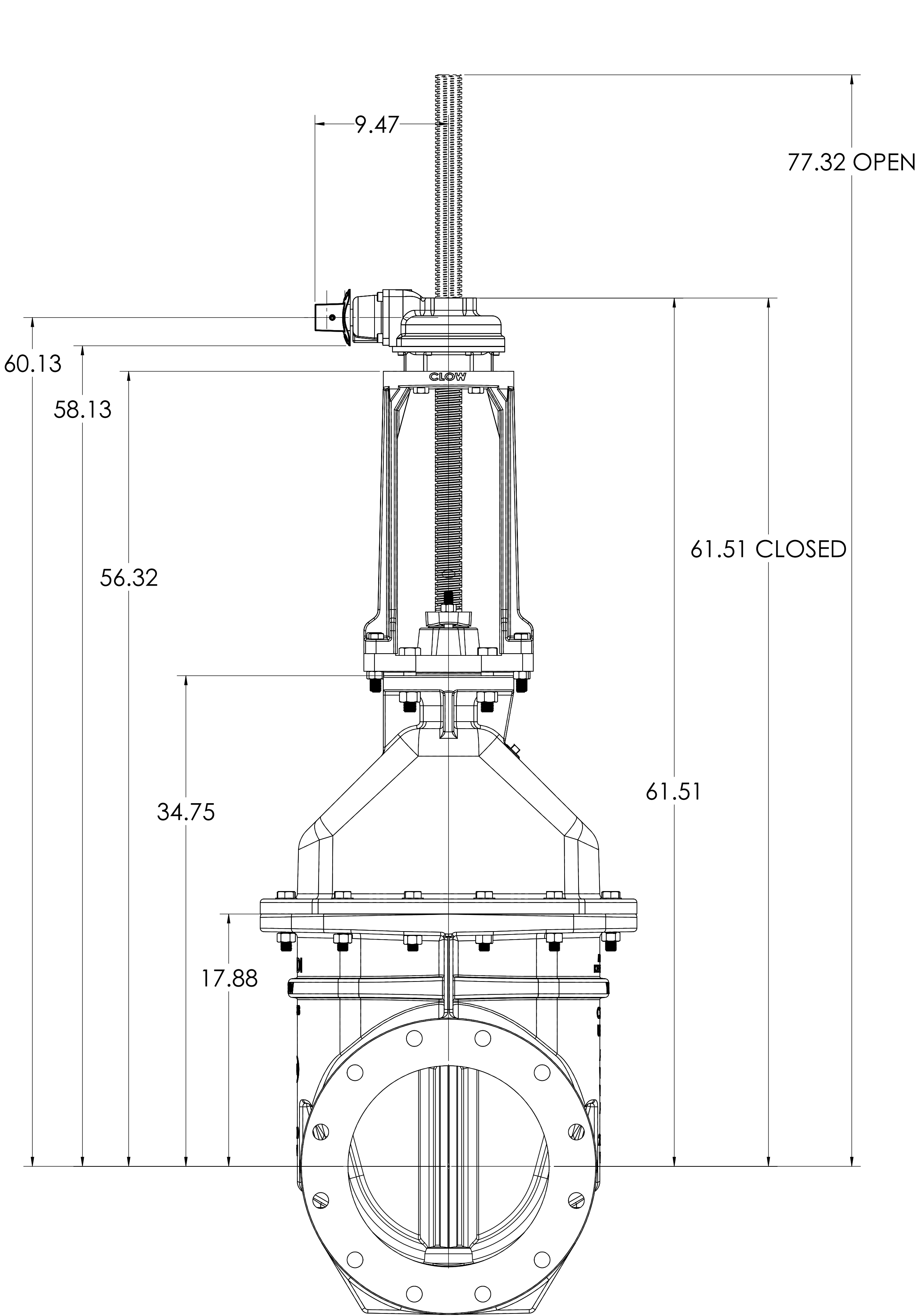
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CASTING TOLERANCES		MACHINED DIMENSIONS		DESCRIPTION	REVISION
0.4"	1/32"	DECIMALS	0.005	14" C515 OS&Y GEARED RESILIENT	
0.8"	1/16"	FRACTIONS	1/164	WEDGE GATE VALVE	
1.2"	1/8"	ANGLES	1°		
1.6"	3/32"	SURFACE FINISH	125 µin		
1.8"	1/8"	RADIUS	1/8"		
MIN. RADIUS	1/16"				
MIN. DRAFT	2°				
ESTIMATED WEIGHT		LBS.		DATE DRAWN	CHK. DATE
CW		12/3/2020		DATE	DATE
SCALE		1:6		SHEET 1 OF 1	
SHEET 1 OF 1		SHEET 1 OF 1		SHEET 1 OF 1	
SHEET 1 OF 1		SHEET 1 OF 1		SHEET 1 OF 1	

INBD ANGLE POSITION: STANDARD: ANGLE TIA 100, TIA 59A, AND TIA 4 TOLERANCE: AS FOLLOWS (UNLESS OTHERWISE SPECIFIED)		PROPERTY OF MAXWELL CORPORATION. ALL MODELS AND DERIVATIVE DOCUMENTATION ARE PROPRIETARY TO MAXWELL CORPORATION AND ITS SUBSIDIARIES. REPRODUCTION OR TRANSMISSION OF ANY INFORMATION WITHOUT PERMISSION IS PROHIBITED. ALL RIGHTS RESERVED.		DOWNSIDE 14" CS15 OS&S GEARED RESILIENT WEDGE GATE VALVE	
CASTING TOLERANCES 0.4": 1/32" 0.6": 3/64" 0.8": 1/16" 12-18": 3/32" 18-24": 1/8" H&B RADII: MIN RADII: 3"		MAXIMUM DIMENSIONS DECIMALS: 0.005 FRACTIONS: 1/64 SURFACE FINISH: 125 μin RA: 1/8"		DESCRIPTION 14" CS15 OS&S GEARED RESILIENT WEDGE GATE VALVE	
ESTIMATED WEIGHT LBS.		MATERIAL 14" CS15 OS&S GEARED RESILIENT WEDGE GATE VALVE		SHEET 1 OF 6	
DWG BY: CW DATE DRAWN: 12/3/2020		CHK BY: JCR DATE CHECKED: 1/6		PREP CODE: Solidworks 2018 SP2	

BEVEL GEAR WITH OPERATING NUT

SPUR GEAR WITH OPERATING NUT



THIRD ANGLE PROJECTION. STANDARDS: ANSI/ASME Y14.100, Y14.200 AND Y14.41. TOLERANCES: AS FOLLOWS UNLESS OTHERWISE SPECIFIED.				PROPERTY OF MCWANE CORPORATION. ALL DIMENSIONS AND TOLERANCES ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. NO PARTS OR MATERIALS TO BE USED IN OTHER DESIGNS OR FOR OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MCWANE CORPORATION. ALL RIGHTS RESERVED.				REVISION		CLW VALVE CO.		
CASTING TOLERANCES				MACHINED DIMENSIONS				REVISION				
0.4": 4.8": 8.12": 12": 18": MIN RADII: MIN DRIFT:	± 1/32": ± 3/64": ± 1/16": ± 3/32": ± 1/8": 1/8": 2": 1/8":	DECIMALS: FRACTIONS: ANGLE: SURFACE FINISH: RADE:	± 0.005 ± 1/64 1° 125 µin 1/8"	MATERIAL				DESCRIPTION				
ESTIMATED WEIGHT				LBS.				14" CS15 OS&Y FOLLOWS RESISTENT WEDGE GATE VALVE				
DRAW BY: CW				DATE DRAWN: 12/3/2020		CHK. BY:		CHK. DATE:			REVISION: 1:10	
											SOFTWARE USED: Solidworks 2018 SP2	
											SHEET NO: 2	
											SHEET OF: 6	
											D	
											21	

Technical drawing of a vertical gate valve in the open position. The valve is labeled "CLOW". Dimensions are provided in inches.

Dimensions (inches):

- 11.30 (Width of the handwheel)
- 66.04 (Total height)
- 62.10 (Height to the top of the gate)
- 60.13 (Height to the top of the body)
- 56.32 (Height to the top of the flange)
- 34.75 (Height to the top of the gate)
- 17.88 (Height to the top of the flange)
- 60.73 CLOSED (Height to the top of the gate when closed)
- 61.51 (Height to the top of the flange)
- 77.32 OPEN (Height to the top of the gate when open)

10.37

8.01

Ø 12.00

66.07

60.73 CLOSED

60.84

77.32 OPEN

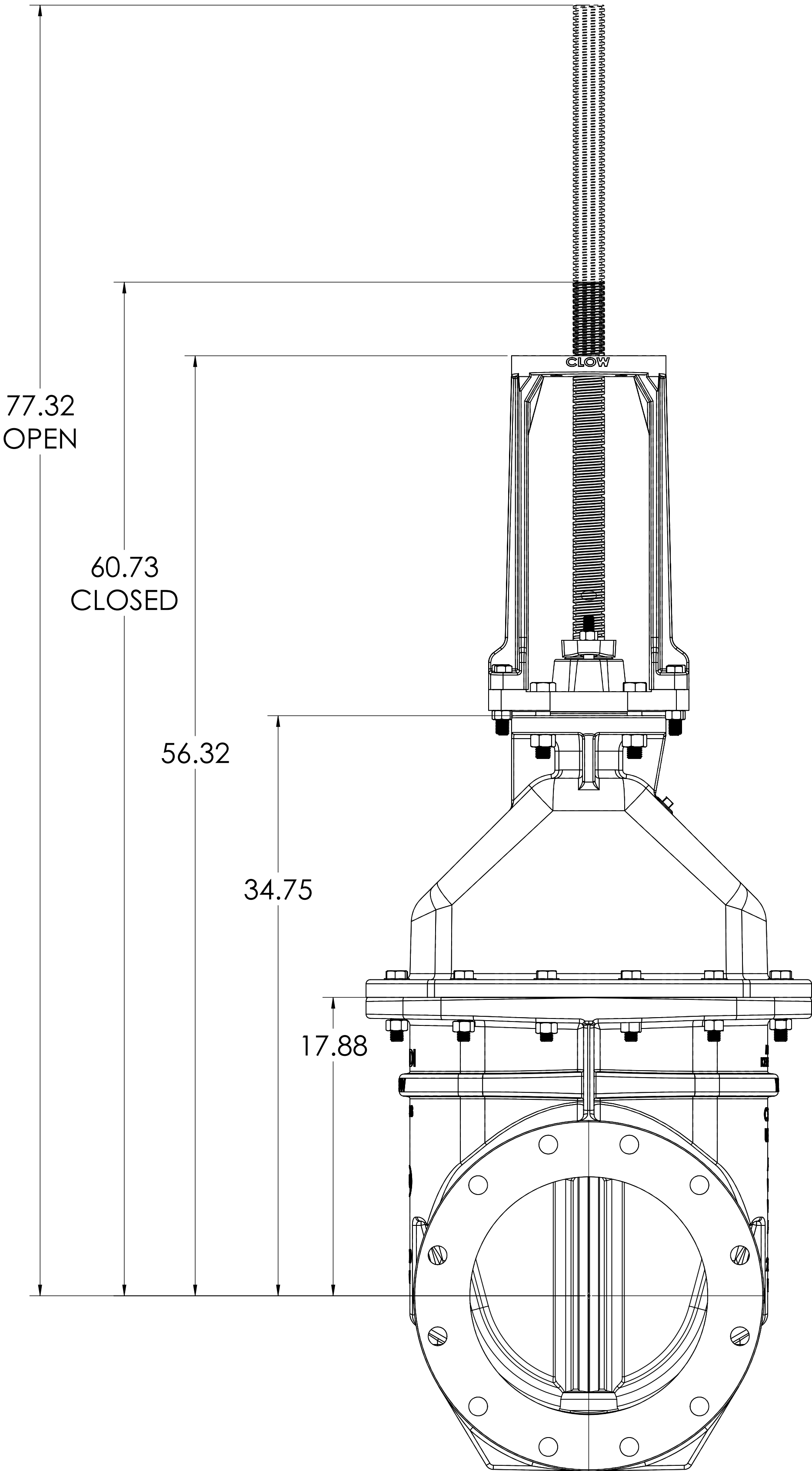
CLOW

THIRD ANGLE PROJECTION
STANDARDS: ANSI/ASME Y14.100, Y14.500, AND Y14.41
TOLERANCES: AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

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[illegible]

BARE STEM



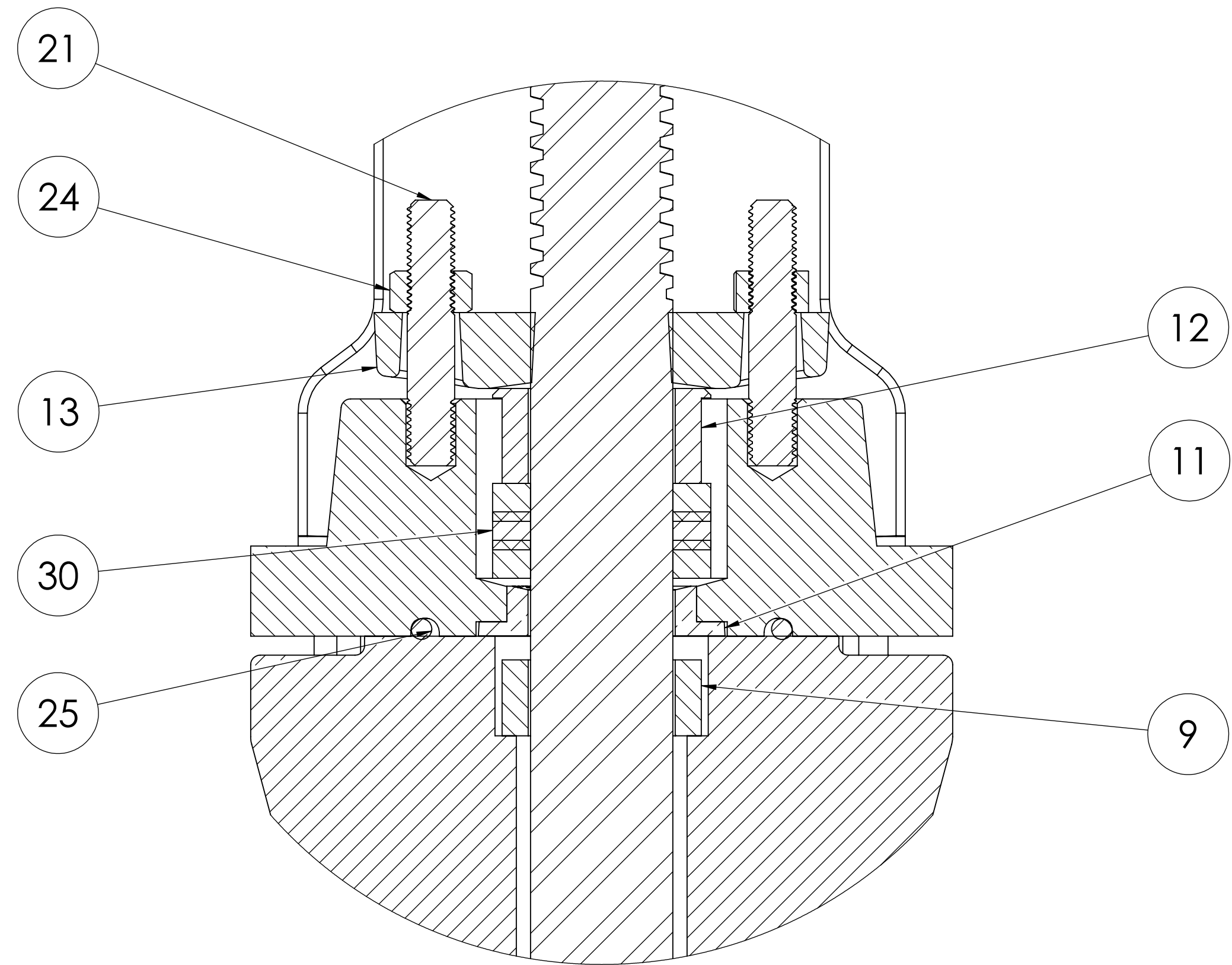
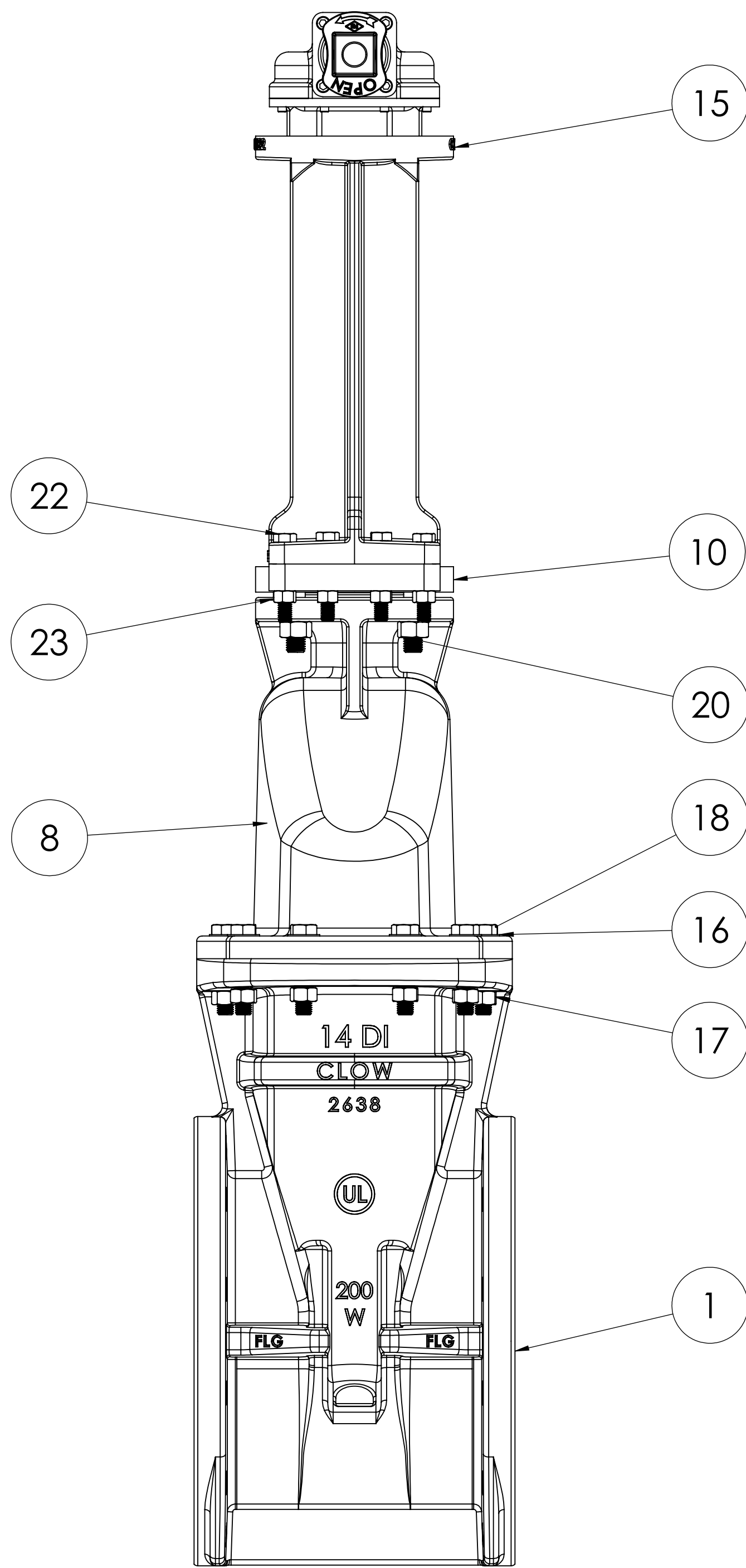
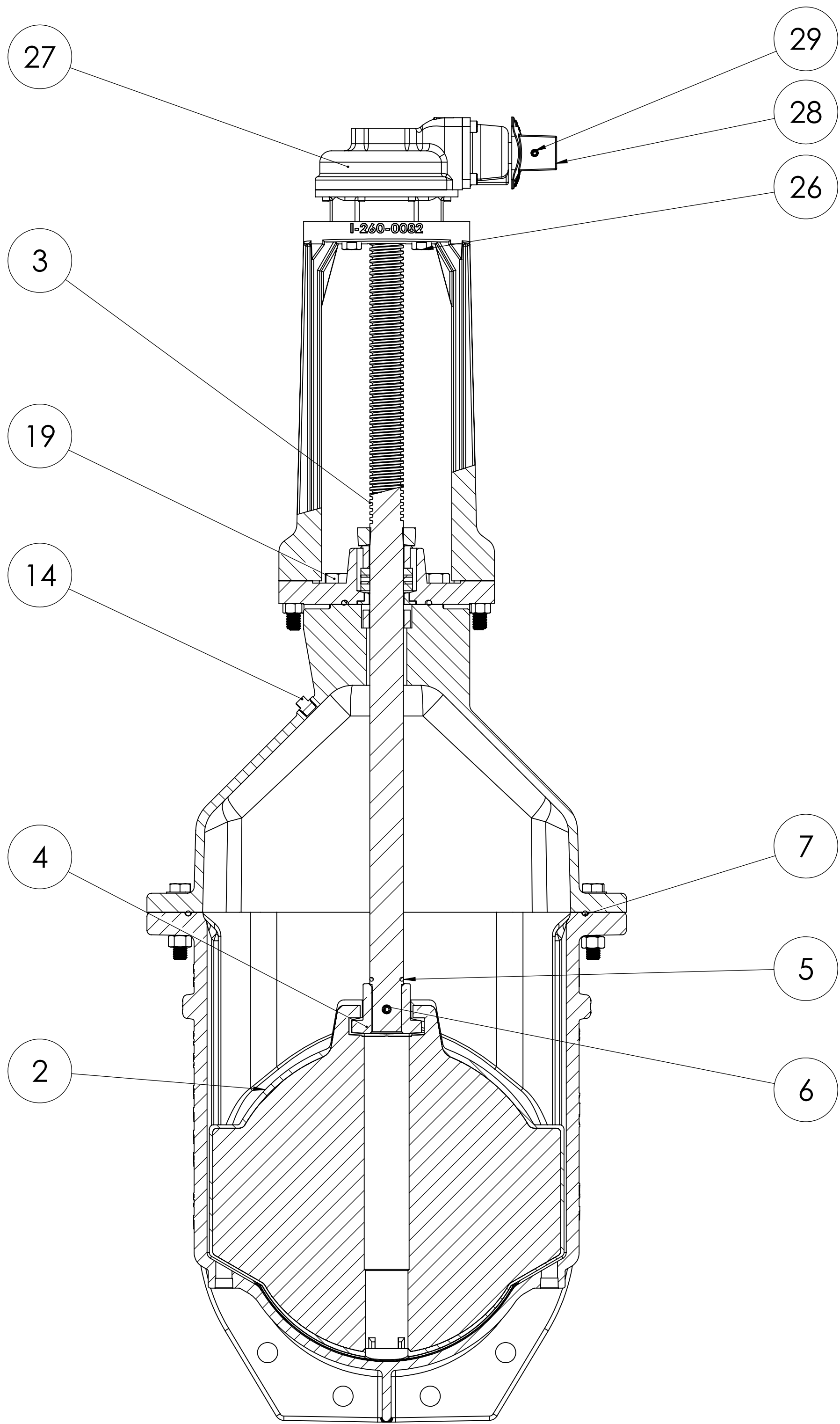
STANDARD FA14 MOUNTING

4 X ϕ .69 HOLES ON ϕ 5.50 B.C.

ϕ 1.88 STEM

BARE STEM MOUNTING FLG

THIRD ANGLE PROJECTION. STANDARDS AND DIMENSIONS T14.100, T14.200 AND T14.411 TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.				PROPERTY OF MCWANE CORPORATION. ALL DIMENSIONS AND TOLERANCES ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. TOLERANCES ARE REQUIRED UNLESS OTHERWISE SPECIFIED. ALL RIGHTS RESERVED.				REVISIONS		CLW VALVE CO.
CASTING TOLERANCES				MACHINED DIMENSIONS				REVISIONS		
0-4"	± 1/32"	DECIMALS:	± 0.005	0-4"	± 0.005	DECIMALS:	± 0.005	REVISIONS		
4-8"	± 3/64"	FRACTIONS:	± 1/64"	4-8"	± 0.005	FRACTIONS:	± 1/64"	REVISIONS		
8-12"	± 1/16"	ANGLE:	± 1°	8-12"	± 0.005	ANGLE:	± 1°	REVISIONS		
12-18"	± 3/32"	SURFACE FINISH:	125 μin	12-18"	± 0.005	SURFACE FINISH:	125 μin	REVISIONS		
18-24"	± 1/8"	RADI:	1/8"	18-24"	± 0.005	RADI:	1/8"	REVISIONS		
MIN RADII:	1/8"			MIN RADII:	1/8"			REVISIONS		
MIN CHAMF:	2"			MIN CHAMF:	2"			REVISIONS		
DRAWN BY: CW				DATE DRAWN: 12/3/2020				REVISIONS		
DESIGNED BY: CW				DATE DESIGNED: 12/3/2020				REVISIONS		
ESTIMATED WEIGHT: LBS.				ESTIMATED WEIGHT: LBS.				REVISIONS		
DESCRIPTION: 14" C515 OS&Y GEARED RESILIENT WEDGE GATE VALVE				DESCRIPTION: 14" C515 OS&Y GEARED RESILIENT WEDGE GATE VALVE				REVISIONS		
SHEET NO: 1:10				SHEET NO: 1:10				REVISIONS		
SHEET OF: 6				SHEET OF: 6				REVISIONS		
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THIRD ANGLE PROJECTION. STANDARDS AND DRAWING TITLES, TITLES, AND TITLES. TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.				PROPERTY OF MCWANE CORPORATION. ALL DIMENSIONS AND TOLERANCES ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. TOLERANCES ARE REQUIRED UNLESS OTHERWISE SPECIFIED. ALL RIGHTS RESERVED.				REVISIONS		CLW VALVE CO.	
CASTING TOLERANCES				MACHINED DIMENSIONS				REVISIONS			
0-4":	± 1/32"	DECIMALS:	± 0.005	0-4":	± 0.005	DECIMALS:	± 0.005	REVISIONS			
4-8":	± 3/64"	FRACTIONS:	± 1/64"	4-8":	± 3/64"	FRACTIONS:	± 1/64"	REVISIONS			
8-12":	± 1/16"	ANGLE:	± 1°	8-12":	± 1/16"	ANGLE:	± 1°	REVISIONS			
12-18":	± 3/32"	SURFACE FINISH:	125 μin	12-18":	± 3/32"	SURFACE FINISH:	125 μin	REVISIONS			
18-24":	± 1/8"	RADI:	1/8"	18-24":	± 1/8"	RADI:	1/8"	REVISIONS			
MIN RADII:	1/8"			MIN RADII:	1/8"			REVISIONS			
MIN DRAFT:	2°			MIN DRAFT:	2°			REVISIONS			
ESTIMATED WEIGHT				ESTIMATED WEIGHT				REVISIONS			
LBS.				LBS.				REVISIONS			
DRAWN BY: CW				DATE DRAWN: 12/3/2020				REVISIONS			
CHECKED BY:				DATE CHECKED:				REVISIONS			
SCALE:				SCALE:				REVISIONS			
SHEET NO:				SHEET NO:				REVISIONS			
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<u>ITEM NO.</u>	<u>COMPONENT</u>	<u>QTY.</u>	<u>SIZE</u>	<u>STANDARD MATERIAL</u>	<u>MATERIAL OPTIONS</u>
1	BODY	1		DUCTILE IRON	
2	WEDGE	1		EPDM/DUCTILE IRON	
3	STEM	1		C46400	C87600(LOW ZINC), 304SS, 316 SS
4	STEM NUT	1		C87850	C87610 (LOW ZINC)
5	O-RING	1	#325	EPDM	BUNA-N
6	COILED SPRING PIN	1	1/2" x 2-3/4"	303 SS	
7	O-RING	1	#463	EPDM	BUNA-N
8	COVER	1		DUCTILE IRON	
9	SPACER	1		C87850	
10	STUFFBOX	1		DUCTILE IRON	
11	BUSHING	1		C87850	
12	PACKING GLAND	1		C87850	C83600, C65500 (LOW ZINC)
13	FOLLOWER	1		DUCTILE IRON	
14	PLUG	1	1/2" NPT	18-8 SS	316 SS
15	YOKE	1		DUCTILE IRON	
16	FLAT WASHER	12	3/4"	18-8 SS	316 SS
17	HEX NUT	12	3/4" - 10	18-8 SS	316 SS
18	CAPSCREW HEX HEAD	12	3/4" - 10 X 3-3/4"	18-8 SS	316 SS
19	CAPSCREW HEX HEAD	4	7/8" - 9 X 4"	18-8 SS	316 SS
20	HEX NUT	4	7/8" - 9	18-8 SS	316 SS
21	STUD	2	5/8" - 11 X 3-1/2"	18-8 SS	316 SS
22	CAPSCREW HEX HEAD	8	5/8" - 11 X 3-3/4"	18-8 SS	316 SS
23	HEX NUT	8	5/8" - 11	18-8 SS	316 SS
24	HEX NUT	2	5/8" - 11	18-8 SS	316 SS
25	O-RING	1	#425	BUNA-N	EPDM
26	CAPSCREW HEX HEAD	4	5/8" - 11 X 2"	18-8 SS	316 SS
27	GEAR	1			
28	OPERATING NUT	1		DUCTILE IRON	C86700, ** Ø 12" HANDWHEEL **
29	COILED SPRING PIN	1	10MM X 45MM	302/304 SS	
30	PACKING	3	1/2" X 1/2" X 7 1/2"	BRAIDED FLAX	

VALVES CONFORM WITH THE
FOLLOWING STANDARDS

- AWWA C515
- NSF 61
- LOW ZINC BRASS STEM AND STEM NUT AVAILABLE
- 100% DOMESTIC FASTENERS AND ORINGS OPTIONS AVAILABLE
- *OPEN LEFT* (COUNTERCLOCKWISE) AND *OPEN RIGHT* (CLOCKWISE) OPTIONS AVAILABLE
- TURNS TO OPEN FROM FULLY CLOSED: 104
 - $\pm 5\%$ WITH STANDARD 2:1 GEAR
- AWWA MAXIMUM ALLOWABLE CLOSING TORQUE 250 FT-LBS
- OPTIONAL HANDWHEEL CAN BE SUBSTITUTED FOR STANDARD 2" SQUARE OP. NUTS.
 - **NOTE: STANDARD HANDWHEEL SIZE LISTED OUT IN PARTS LIST.**
- MAXIMUM PRESSURE RATING 250 PSI

E	2443	BLS	03/10/25
D	2370	GC	7/23/24
C	-	CW	1/4/22
B	-	CW	10/7/21
A	-	CW	12/3/20
SYM.	ECN	DR.	DATE

INDO ANGLE PROJECTION STANDARDS: ANSI: 11.02, 11.04, 11.04.01, and 11.41.1 DIMENSIONS UNLESS OTHERWISE SPECIFIED		PROPERTY OF ACHER CORPORATION ALL MODELS AND DERIVATIVE DOCUMENTATION ARE PROPRIETARY TO ACHER CORPORATION AND ITS SUBSIDIARIES REPRODUCTION REQUIRED UPON REQUEST OF DIRECTED USE UNLESS OTHERWISE ARRANGED. ALL RIGHTS RESERVED.		PROJECT NO. 17-011	SHEET NO. 17-011	DATE 11/1/2017
CASTING TOLERANCES 0.4": ± 1/32" 0.8": ± 3/64" 1.6": ± 1/16" 3.2": ± 1/8" 18.18": ± 1/8" MIN RADII: 1/8" MIN DRAIL: 1/8"		MACHINED DIMENSIONS DECIMAL: ± 0.003 FRACTIONS: ± 1/64" ANGLE: ± 1° SURFACE FINISH: 125 μin RADIUS: 1/8" DRILL: 1/8"		DESCRIPTION 14" CS15 OS&Y GEARED RESILIENT WEDGE GATE VALVE	REFERENCE E	CLOW VALVE CO.
ESTIMATED WEIGHT LBS.		DATE DRAWN: 2/3/2020 CW		DATE CHECKED: 2/3/2020 CHK BY:	SCALE: 1:10	SHEET NO. 17-011 6 D
				PROJECT NO. 17-011 SHEET NO. 17-011 DATE 11/1/2017		SOLIDWORKS 2018 SP2