

16" C515 FLG X FLG

14.84

16.84

11.75

1.21

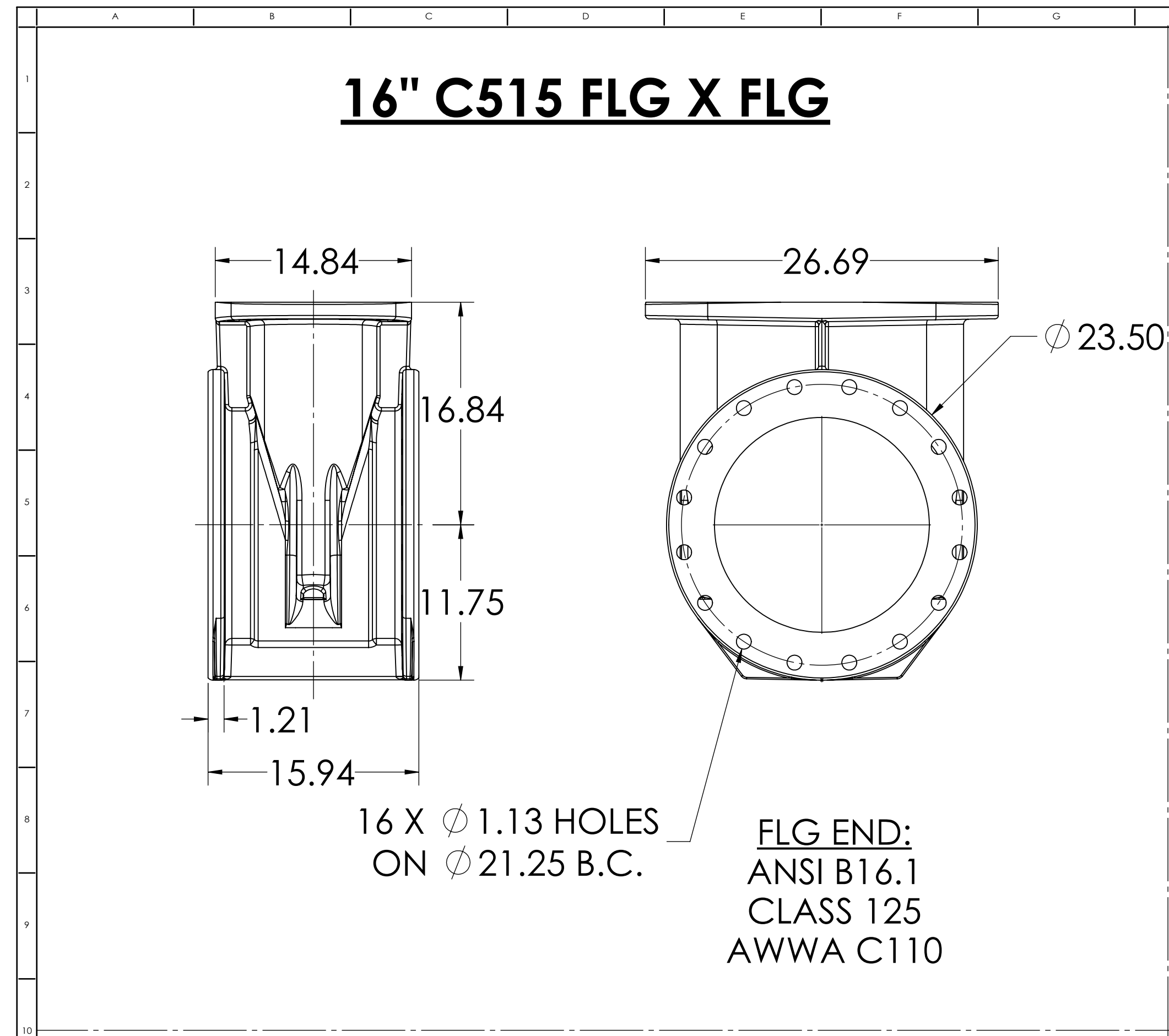
15.94

26.69

$\phi 23.50$

16 X $\phi 1.13$ HOLES
ON $\phi 21.25$ B.C.

FLG END:
ANSI B16.1
CLASS 125
AWWA C110



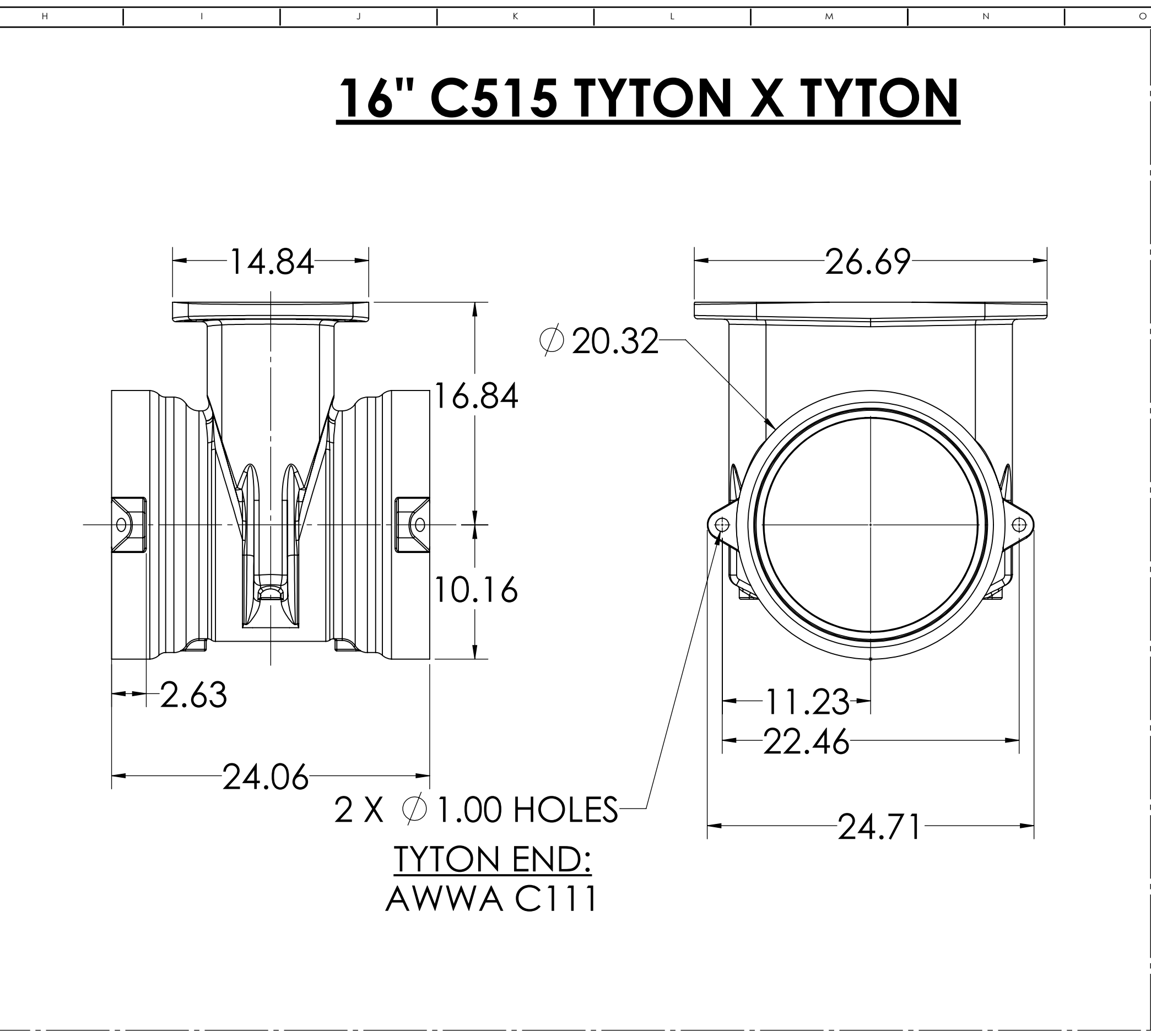
16" C515 TYTON X TYTON

Technical drawing showing the front and side views of a 16 inch C515 TYTON X TYTON valve assembly. The drawing includes the following dimensions:

- Top View (Right):
 - Overall Width: 26.69
 - Inner Circle Diameter: $\phi 20.32$
 - Distance from Center to Flange Edge: 11.23
 - Distance from Center to Mounting Hole: 22.46
 - Overall Height: 24.71
- Side View (Left):
 - Top Flange Width: 14.84
 - Overall Height: 16.84
 - Distance from Center to Flange Edge: 10.16
 - Distance from Center to Mounting Hole: 2.63
 - Overall Width: 24.06

2 X $\phi 1.00$ HOLES

TYTON END:
AWWA C111



16" C515 MJ X FLG

Technical drawing of a 16" C515 MJ X FLG (Manhole Joints and Flange) showing front and side views with dimensions and hole specifications.

Front View Dimensions:

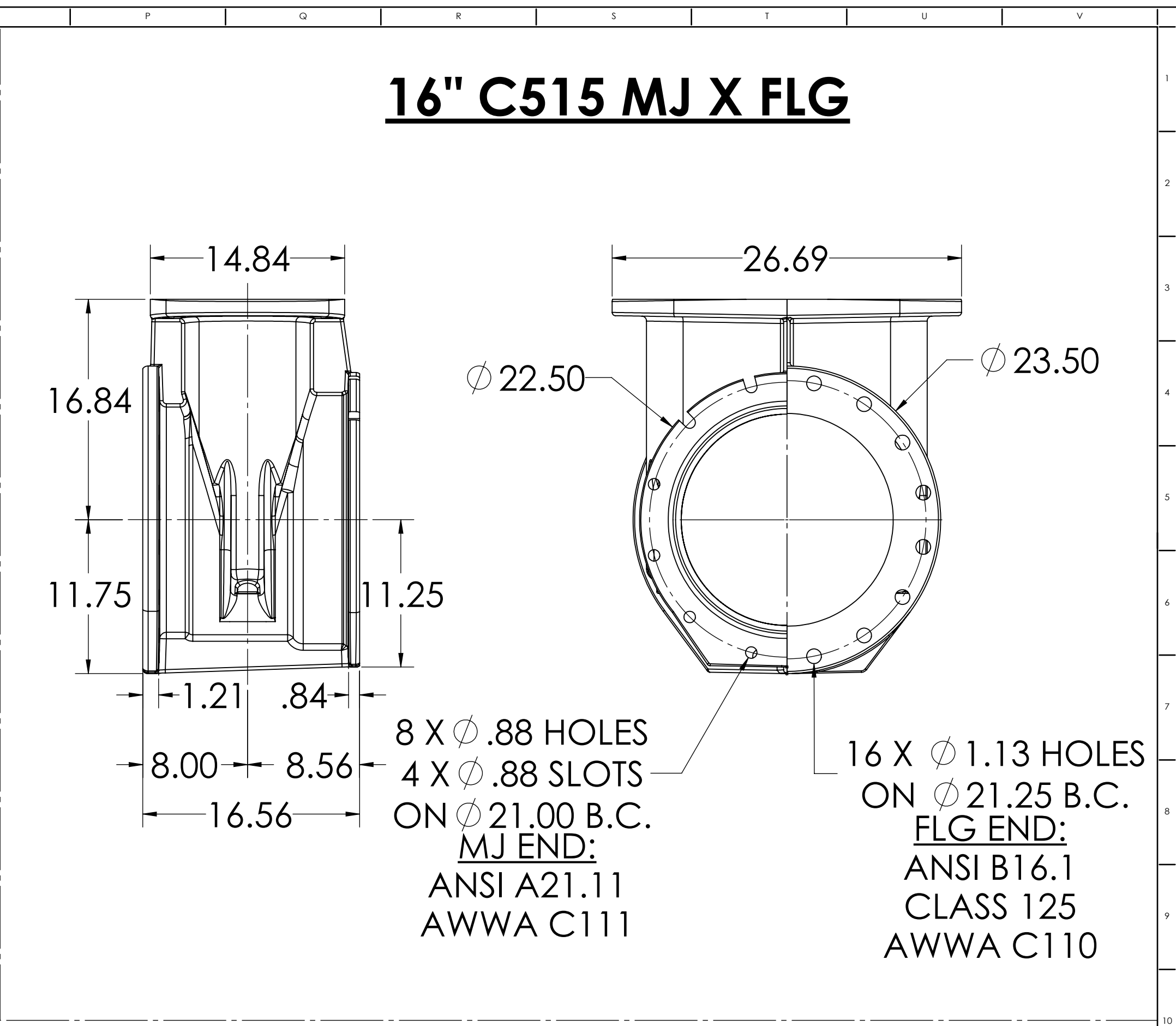
- Overall Width: 14.84
- Overall Height: 16.84
- Internal Height (Left): 11.75
- Internal Height (Right): 11.25
- Internal Width (Left): 1.21
- Internal Width (Right): .84
- Internal Width (Center): 8.00
- Internal Width (Right): 8.56
- Overall Internal Width: 16.56

Side View Dimensions:

- Overall Width: 26.69
- Overall Height: 22.50
- Overall Height (Right): 23.50

Hole and Slot Specifications:

- 8 X $\varnothing$.88 HOLES
- 4 X $\varnothing$.88 SLOTS
- ON $\varnothing$ 21.00 B.C.
- MJ END:
- ANSI A21.11
- AWWA C111
- 16 X $\varnothing$ 1.13 HOLES
- ON $\varnothing$ 21.25 B.C.
- FLG END:
- ANSI B16.1
- CLASS 125
- AWWA C110



16" C515 MJ X MJ

16" C515 MJ X MJ

Side Elevation Dimensions:

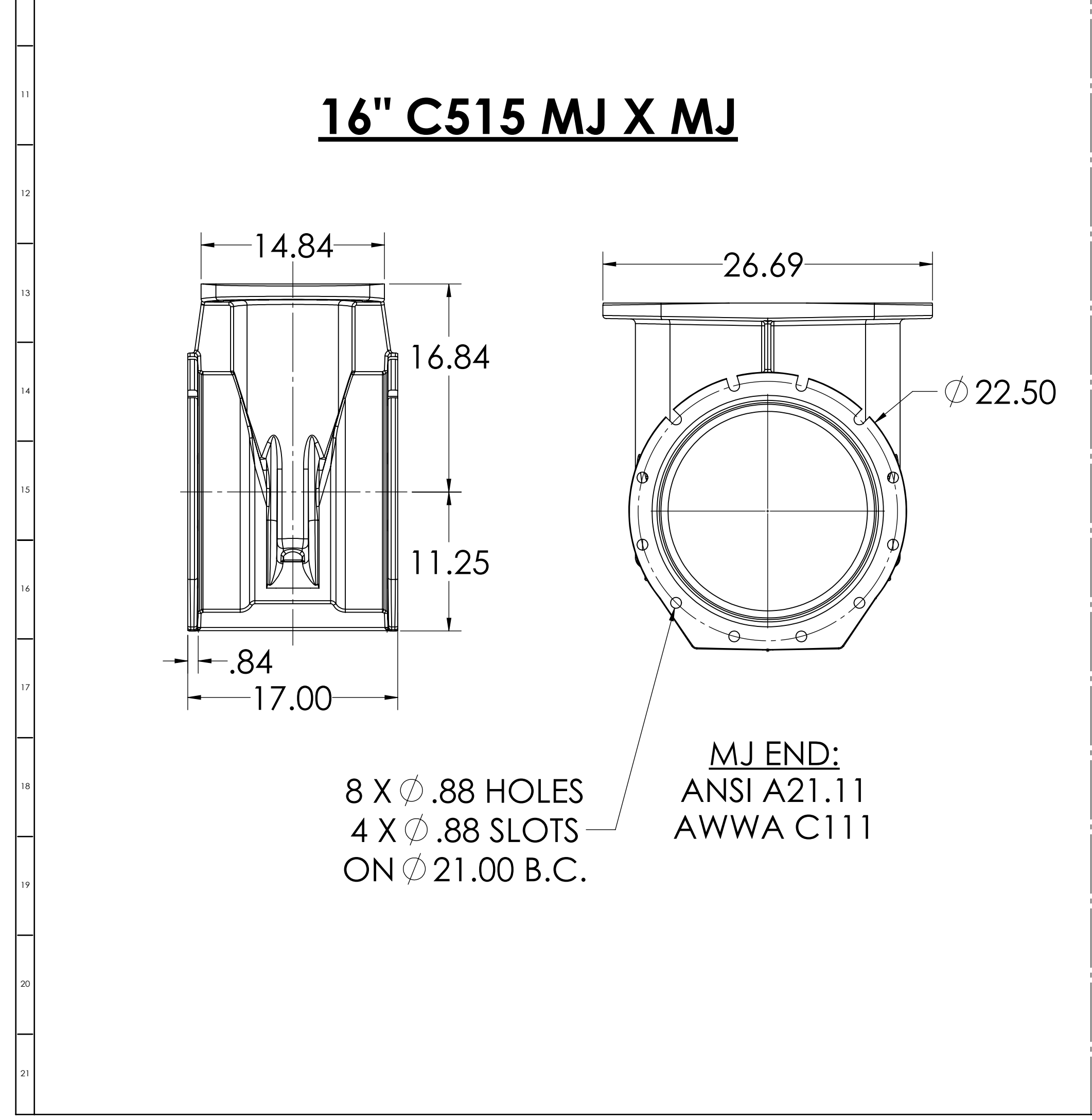
- Top Flange Width: 14.84
- Overall Height: 16.84
- Bottom Flange Thickness: .84
- Bottom Flange Width: 17.00
- Central Opening Height: 11.25

Top View Dimensions:

- Outer Diameter: 26.69
- Inner Diameter: $\phi 22.50$

8 X $\phi .88$ HOLES
 4 X $\phi .88$ SLOTS
 ON $\phi 21.00$ B.C.

MJ END:
 ANSI A21.11
 AWWA C111



16" C515 MJ X TAP

14.84

16.84

11.75

11.25

.25 R.F.

.84

1.42

8.25

8.56

16.81

26.69

$\phi 22.50$

$\phi 23$

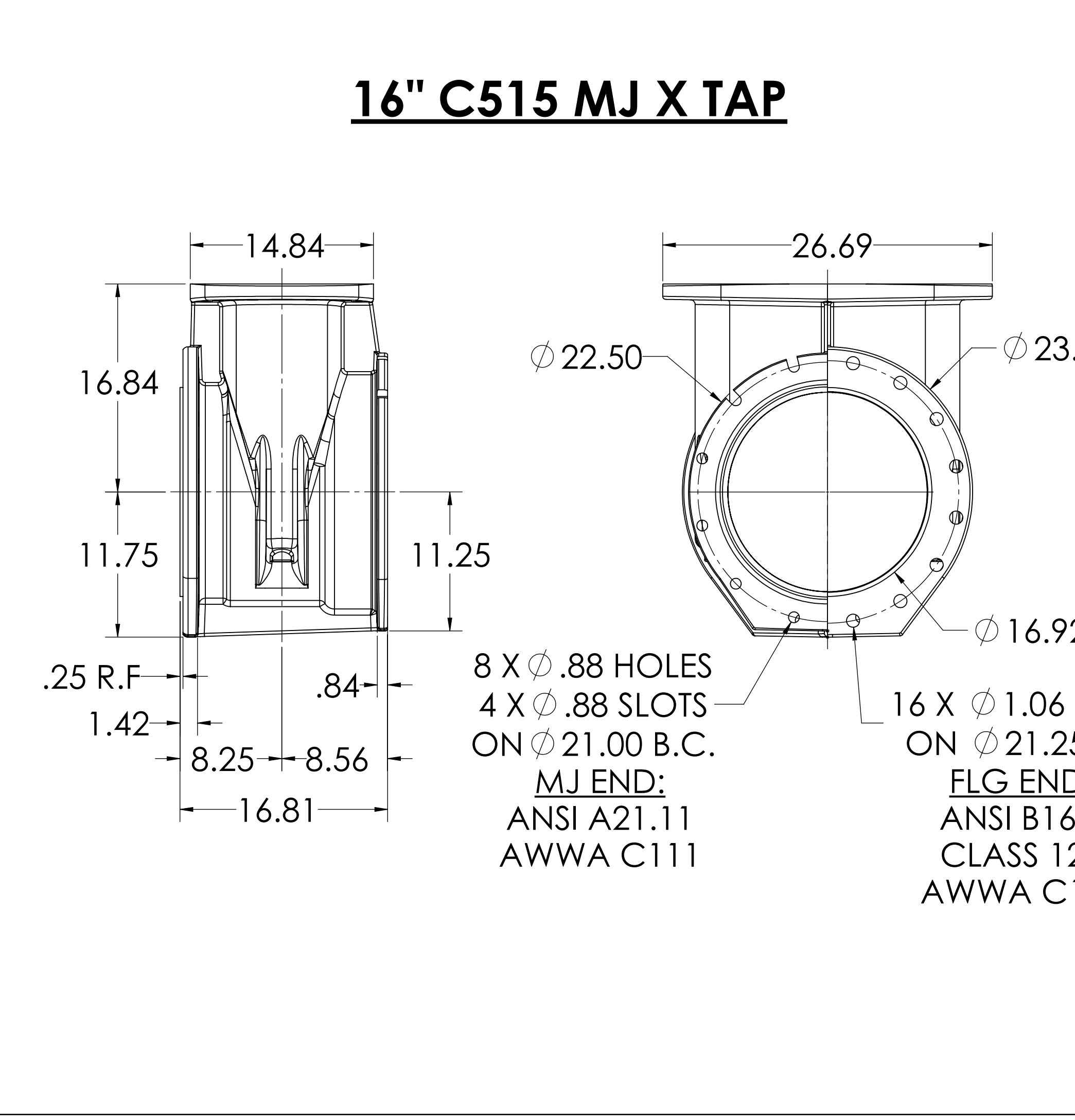
$\phi 16.92$

8 X $\phi .88$ HOLES
4 X $\phi .88$ SLOTS
ON $\phi 21.00$ B.C.

MJ END:
ANSI A21.11
AWWA C111

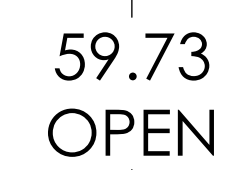
16 X $\phi 1.06$
ON $\phi 21.25$

FLG END
ANSI B16.1
CLASS 12
AWWA C



IMHO ANGLE POSITION: STANDARDS: ANGLE 114: 10.7430, AND 114.61 TOLERANCE AS FOLLOWS: UNLESS OTHERWISE SPECIFIED				PROPERTY OF MARSH CORPORATION ALL MODELS AND DERIVATIVE DOCUMENTATION ARE PROPRIETARY TO MARSH CORPORATION AND ITS SUBSIDIARIES INFORMATION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE AGREED. ALL RIGHTS RESERVED.				PROPERTY IDENTIFICATION E	DISTRIBUTION E	 CLSW VALVE CO.				
COATING TOLERANCES: 0-4": 4-8": 3.664 8-12": 1.1718 12-18": 3.3082 18-24": 1.187		MACHINED DIMENSIONS: 1/32": DECIMALS: 0.0005 FRACTIONS: 1/64 ANGLES: 1/4 SURFACE FINISH: 1/8 RADIUS: 1/8		MATERIAL ESTIMATED WEIGHT LBS.		DESCRIPTION 16" C515 OS&Y GEARED RESILIENT WEDGE GATE VALVE								
MIN RADIIUS: 1/8"		DRAW BY: CW		DATE/DRAWN: 12/4/2020		CHK. BY:		CHK. DATE:		PARTS/CASE: 1:8	SPECIAL NOTE: Solidworks 2018 SP2	SHEET OF: 6	D	21

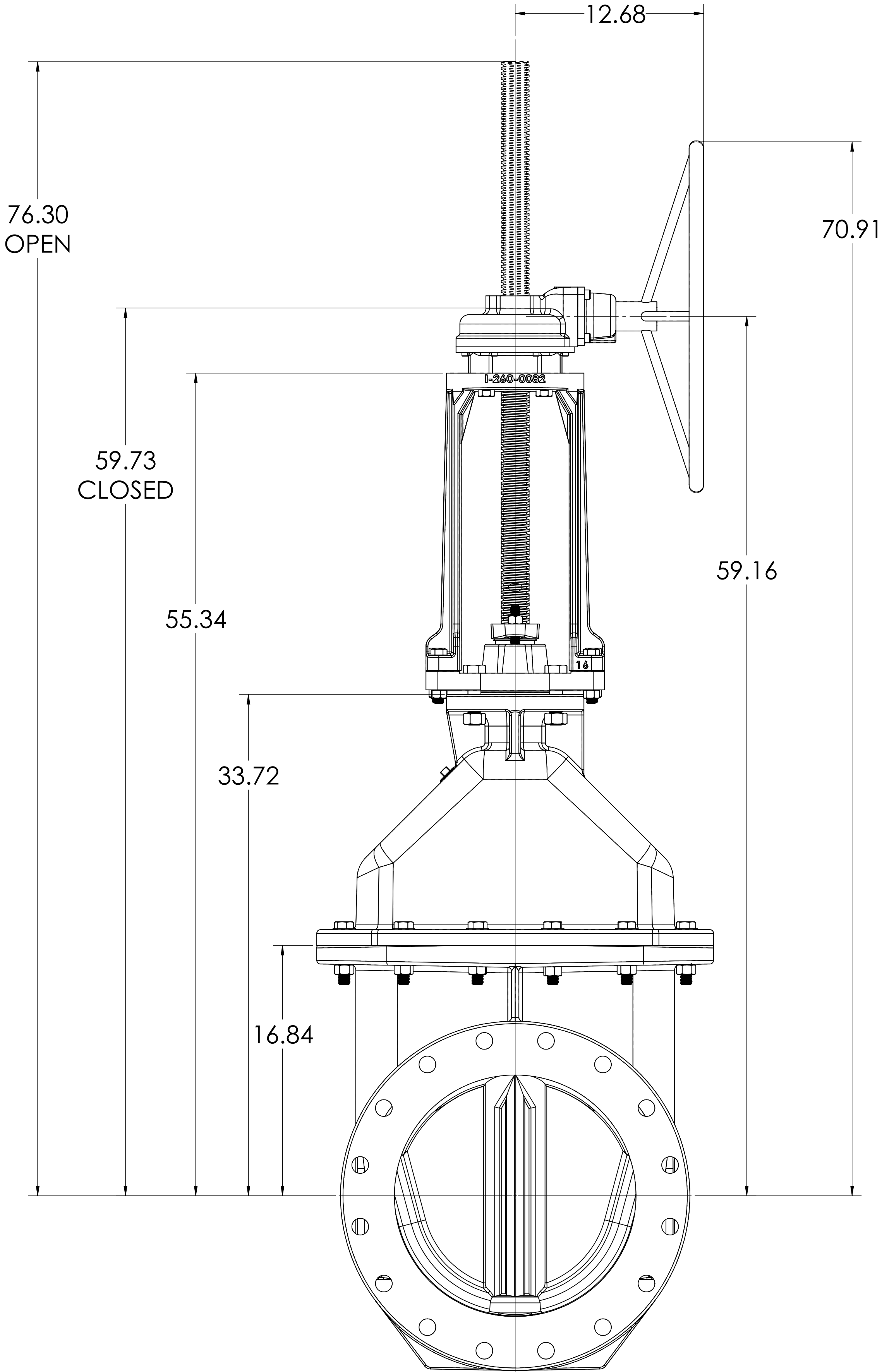
76.30
CLOSED



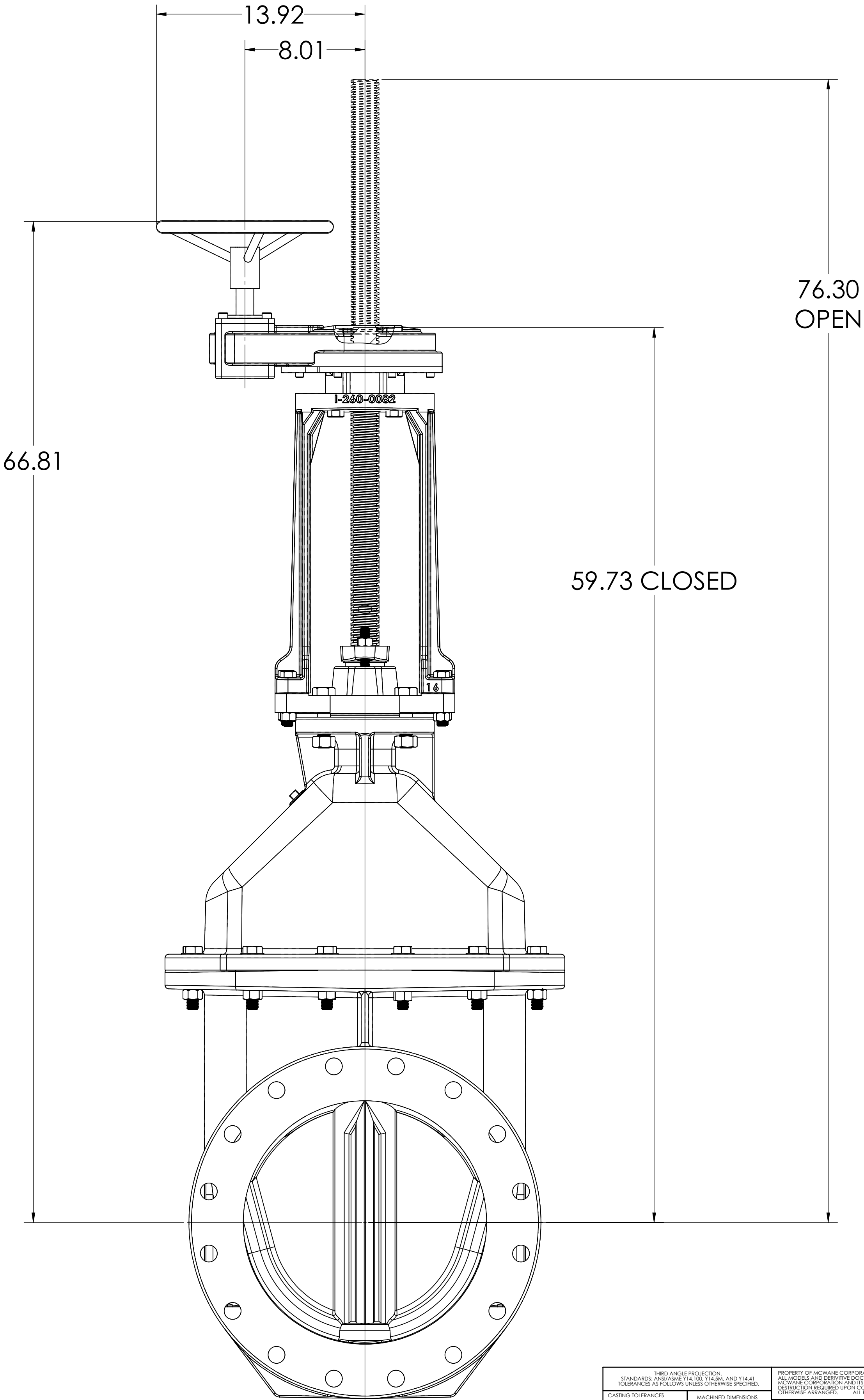
76.30 OPEN

[illegible]

BEVEL GEAR WITH HANDWHEEL



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. REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF MCWANE CORPORATION IS STRICTLY PROHIBITED. ALL RIGHTS RESERVED.				REVISIONS		CLOW VALVE CO.	
CASTING TOLERANCES				MACHINED DIMENSIONS				REVISIONS			
0.4":	± 1/32"	DECIMALS:	± 0.005	0.4":	± 1/32"	DECIMALS:	± 0.005	REVISIONS			
0.8":	± 3/64"	FRACTIONS:	± 1/64"	0.8":	± 3/64"	FRACTIONS:	± 1/64"	REVISIONS			
1.2":	± 1/16"	ANGLE:	± 1°	1.2":	± 1/16"	ANGLE:	± 1°	REVISIONS			
1.6":	± 3/32"	SURFACE FINISH:	125 µin	1.6":	± 3/32"	SURFACE FINISH:	125 µin	REVISIONS			
2.0":	± 1/8"	RADIUS:	1/8"	2.0":	± 1/8"	RADIUS:	1/8"	REVISIONS			
MIN. RADII:	1/8"			MIN. RADII:	1/8"			REVISIONS			
MIN. DRIFT:	2"			MIN. DRIFT:	2"			REVISIONS			
ESTIMATED WEIGHT				LBS.				REVISIONS			
DESCRIPTION				16" C515 OS&Y GEARED RESILIENT WEDGE GATE VALVE				REVISIONS			
SCALE				1:5				REVISIONS			
SHEET NO.				3				REVISIONS			
SHEET OF				6				REVISIONS			
SOFTWARE USED				Solidworks 2018 SP2				REVISIONS			

BARE STEM

76.30 OPEN

55.34

33.72

16.84

STANDARD FA14 MOUNTING

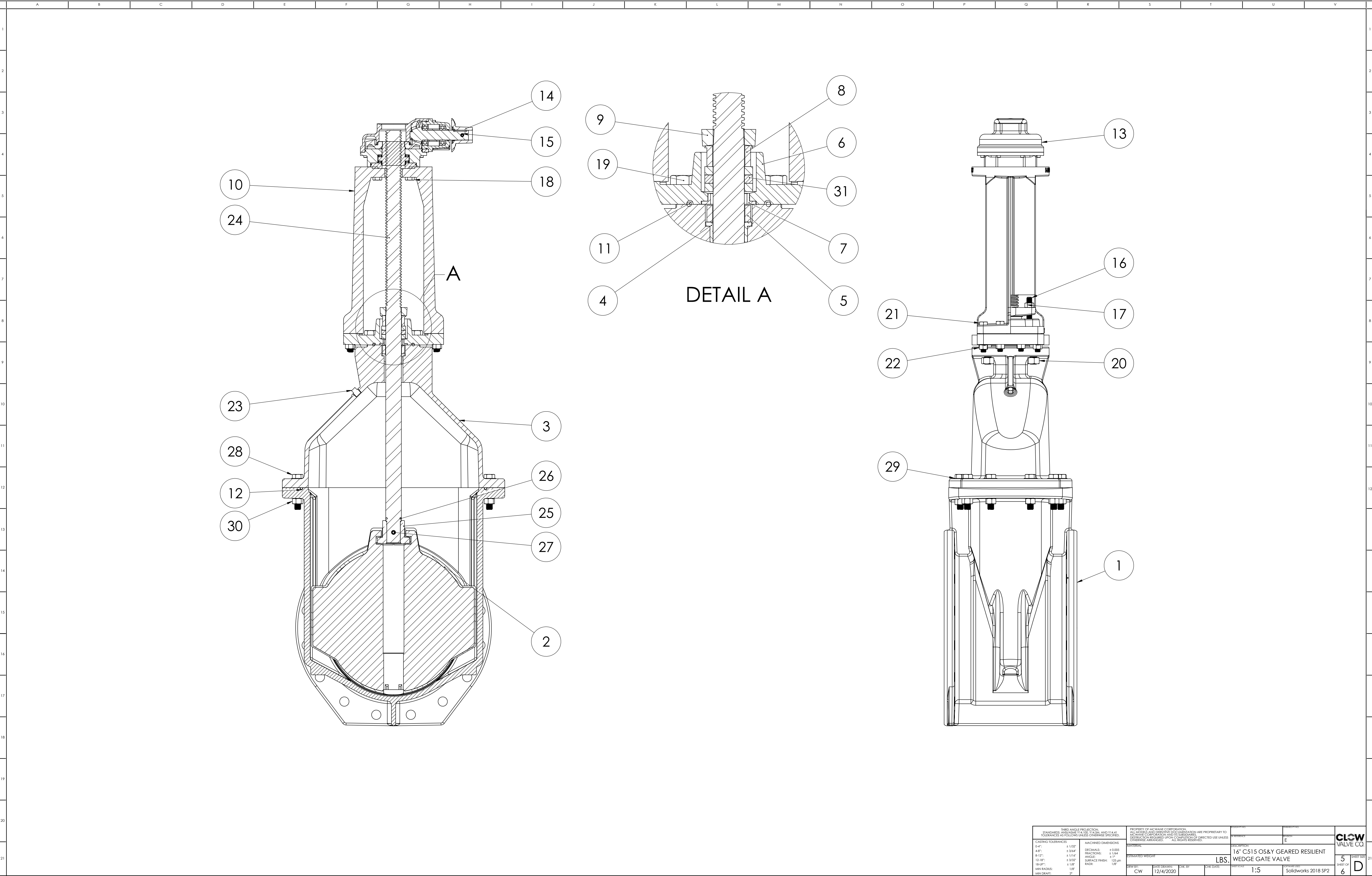
4 X Ø .69 HOLES ON Ø 5.50 B.C.

Ø 1.88 STEM

BARE STEM MOUNTING FLG

59.73 CLOSED

THIRD ANGLE PROJECTION. STANDARDS AND DRAWING TITLES: T14.00 AND T14.01 TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.		PROPERTY OF MCWANE CORPORATION. ALL DIMENSIONS AND TOLERANCES ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. DIMENSIONS REQUIRED FOR CONSTRUCTION OF OTHERWISE ARRANGED. ALL RIGHTS RESERVED.		REVISION	REVISION
CASTING TOLERANCES		MACHINED DIMENSIONS		REVISION	REVISION
0-4":	± 1/32"	DECIMALS:	± 0.005	REVISION	REVISION
4-8":	± 3/64"	FRACTIONS:	± 1/64"	REVISION	REVISION
8-12":	± 1/16"	ANGLE:	± 1°	REVISION	REVISION
12-18":	± 3/32"	SURFACE FINISH:	125 µin	REVISION	REVISION
18-24":	± 1/8"	RADIUS:	1/8"	REVISION	REVISION
MIN RADII:	1/8"			REVISION	REVISION
MIN DRAFT:	2°			REVISION	REVISION
ESTIMATED WEIGHT		LBS.		DESCRIPTION	
DRAWN BY		DATE DRAWN		SHEET NO.	
CW		12/4/2020		1:5	
SHEET NO.		SHEET NO.		SHEET NO.	
4		6		Solidworks 2018 SP2	
D				CLW VALVE CO.	
				16" CS15 OS&Y GEARED RESILIENT WEDGE GATE VALVE	



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2																						
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20																						
21																						

ITEM NO.	COMPONENT	QTY.	SIZE	STANDARD MATERIAL	MATERIAL OPTIONS
1	BODY	1		DUCTILE IRON	-
2	WEDGE	1		EPDM/DUCTILE IRON	-
3	COVER	1		DUCTILE IRON	-
4	COVER BUSHING	1		C87850	-
5	SPACER	1		C87850	-
6	STUFFBOX	1		DUCTILE IRON	-
7	BUSHING	1		C87850	-
8	PACKING GLAND	1		C87850	-
9	FOLLOWER	1		DUCTILE IRON	-
10	YOKE	1		DUCTILE IRON	-
11	O-RING	1	#425	EPDM	BUNA-N
12	O-RING	1	#463	EPDM	BUNA-N
13	GEAR	1			
14	OPERATING NUT	1		DUCTILE IRON	C86700, 304 SS, 316 SS ** ϕ 12" HW**, ** ϕ 24" HW**
15	COILED SPRING PIN	1	10MM X 45MM	302/304 SS	-
16	STUD	2	5/8"-11 X 3 1/2"	18-8 SS	316 SS
17	HEX NUT	2	5/8" - 11	18-8 SS	316 SS
18	CAPSCREW	4	5/8" - 11 X 2"	18-8 SS	316 SS
19	CAPSCREW	4	7/8" - 9 X 3-1/2"	18-8 SS	316 SS
20	HEX NUT	4	7/8" - 9	18-8 SS	316 SS
21	CAPSCREW	8	5/8"-11X3 1/4"	18-8 SS	316 SS
22	HEX NUT	8	5/8" - 11	18-8 SS	316 SS
23	PLUG	1	1/2" NPT	18-8 SS	316 SS
24	STEM	1		C46400	C87600(LOW ZINC), 304SS, 316SS
25	STEM NUT	1		C87850	C87610 (LOW ZINC)
26	O-RING	1	#325	EPDM	BUNA-N
27	COILED SPRING PIN	1	1/2" X 2-3/4"	302/304 SS	
28	CAPSCREW	12	3/4" - 10 X 3-3/4"	18-8 SS	316 SS
29	FLAT WASHER	12	3/4"	18-8 SS	316 SS
30	HEX NUT	12	3/4" - 10	18-8 SS	316 SS
31	PACKING	3		BRAIDED FLAX	-

- VALVES CONFORM WITH FOLLOWING STANDARDS
 - AWWA C515
 - NSF 61
- LOW ZINC BRASS STEM AND STEM NUT AVAILABLE
- 100% DOMESTIC FASTENER AND O-RING OPTIONS AVAILABLE
- OPEN LEFT (COUNTERCLOCKWISE) AND OPEN RIGHT (CLOCKWISE) OPTIONS AVAILABLE
- TURNS TO OPEN FROM FULLY CLOSED: 104
- +/- 5% WITH STANDARD 2:1 BEVEL OR SPUR GEAR
- AWWA MAXIMUM ALLOWABLE CLOSING TORQUE 250 FT-LBS
- OPTIONAL HANDWHEEL CAN BE SUBSTITUTED FOR STANDARD 2" SQUARE OP NUTS
- **NOTE: STANDARD HANDWHEEL SIZE CALLED OUT IN PARTS LIST**
- MAXIMUM PRESSURE RATING 250 PSI

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