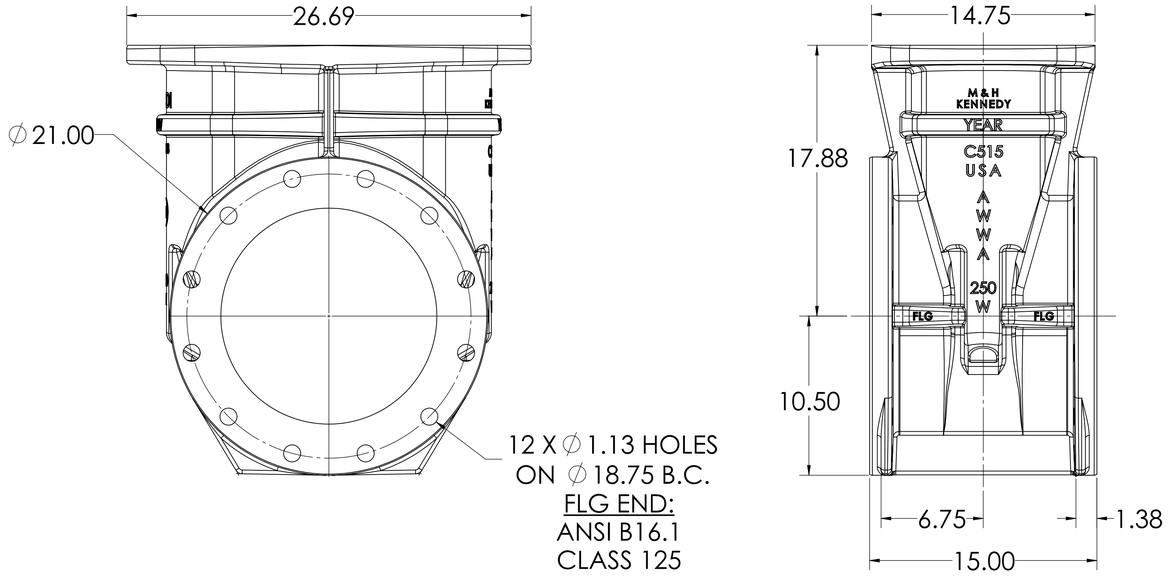
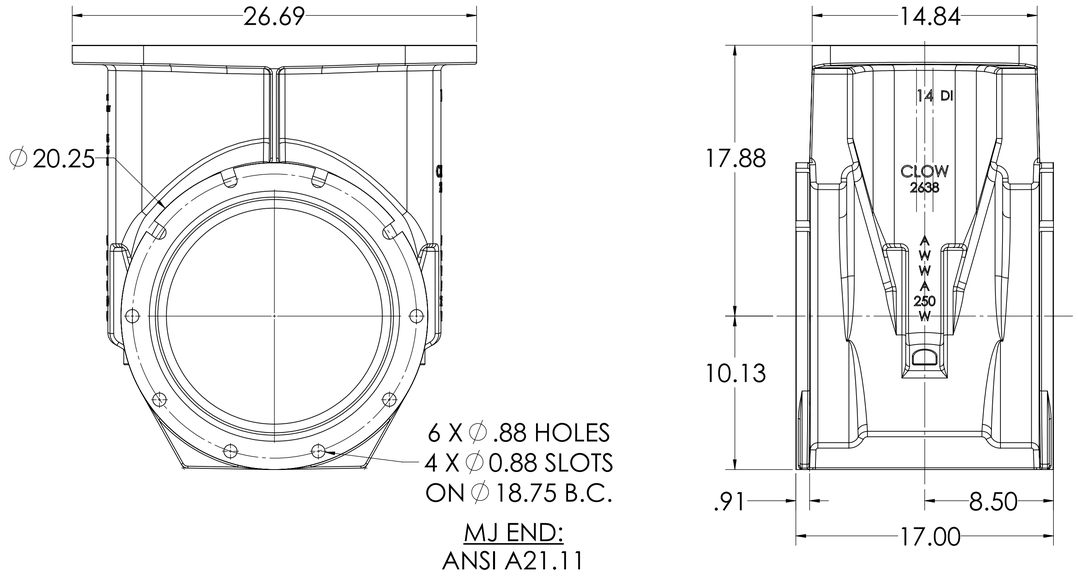
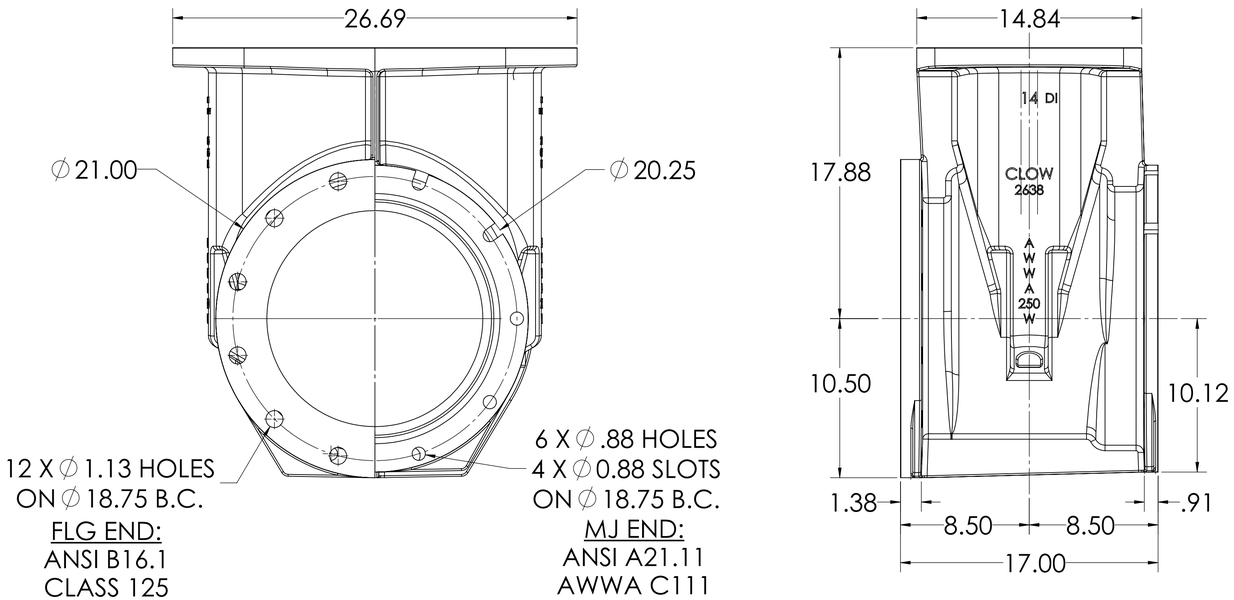
14" C515 FLG X FLG



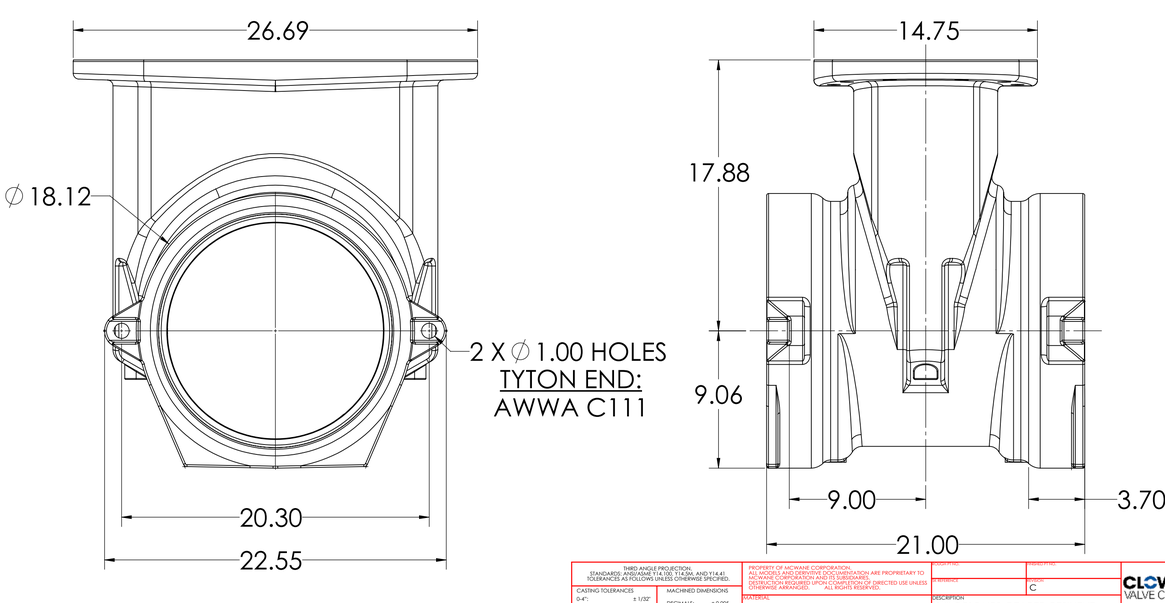
14" C515 MJ X MJ



14" C515 FLG X MJ



14" C515 TYTON X TYTON



THIRD ANGLE PROJECTION
STANDARDS: ANSI/ASME Y14.100, Y14.5M, AND Y14.41
TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED:

CASTING TOLERANCES	
0-4":	± 1/32"
4-8":	± 3/64"
8-12":	± 1/16"
12-18":	± 3/32"
18-UP":	± 1/8"
MIN RADIUS:	1/8"
MIN DRAFT:	2°

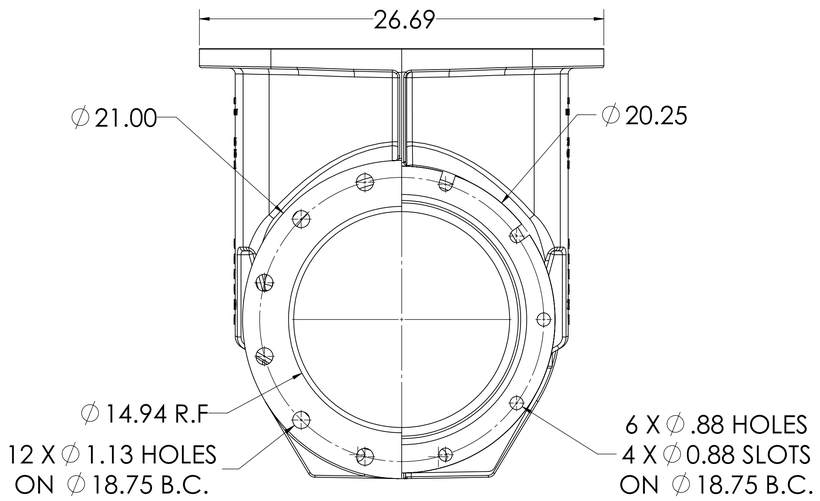
MACHINED DIMENSIONS	
DECIMALS:	± 0.005
FRACTIONS:	± 1/64"
ANGLE:	± 1°
SURFACE FINISH:	125 µin
RADII:	1/8"

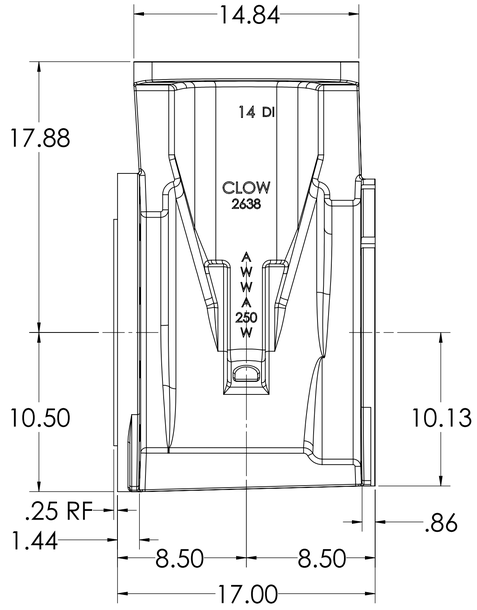
PROPERTY OF MCWANE CORPORATION.
ALL MODELS AND DERIVATIVE DOCUMENTATION ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES.
DISTRIBUTION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE ANNOUNCED.
ALL RIGHTS RESERVED.

MATERIAL:	
ESTIMATED WEIGHT:	LBS.
DRW BY:	CW
DATE DRAWN:	12/3/2020
CHK. BY:	
CHK DATE:	
DESCRIPTION:	14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE
DRAWING SCALE:	1:5
SOLIDWORKS VERSION:	Solidworks 2018 SP2
DRAWING NO.	
REVISION:	C
SHEET OF	1 / 7
SHEET SIZE	D

CLOW VALVE CO.

14" C515 MJ X TAP





TAP END:
ANSI B16.1
CLASS 125

MJ END:
ANSI A21.11
AWWA C111

THIRD ANGLE PROJECTION.
STANDARDS: ASME/ANSI Y14.100, Y14.5M, AND Y14.41
TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

CASTING TOLERANCES	
0-4":	± 1/32"
4-8":	± 3/64"
8-12":	± 1/16"
12-18":	± 3/32"
18-UP":	± 1/8"
MIN RADIUS:	1/8"
MIN DRAFT:	2°

MACHINED DIMENSIONS	
DECIMALS:	± 0.005
FRACTIONS:	± 1/64
ANGLE:	± 1°
SURFACE FINISH:	125 µin
RADII:	1/8"

PROPERTY OF MCWANE CORPORATION.
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MCWANE CORPORATION AND ITS SUBSIDIARIES. DISTRIBUTION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE ARRANGED.
ALL RIGHTS RESERVED.

MATERIAL:

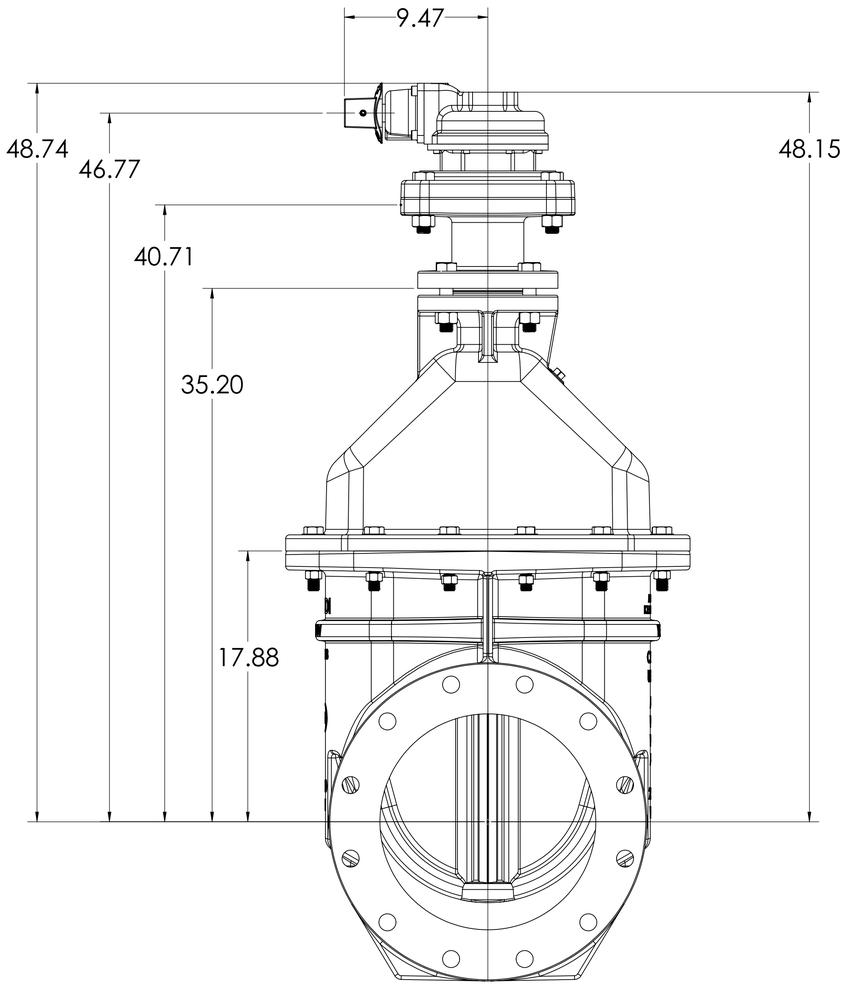
ESTIMATED WEIGHT: LBS.

DRAWN: CW | DATE (DRAWING): 12/3/2020 | CHK. BY: | CHK. DATE:

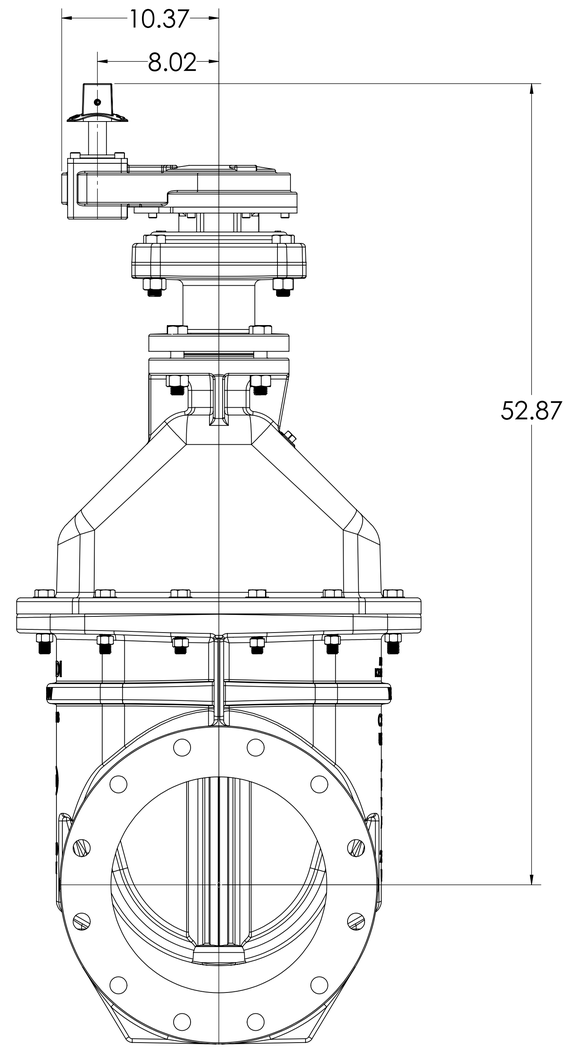
PART NO.	I0102425
DWG NO.	M0102425
REVISION	C
DESCRIPTION	14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE
SCALE	1:5
SOFTWARE	Solidworks 2018 SP2
SHEET	2 SHEET OF 7
SHEET SIZE	D

CLOW VALVE CO.

BEVEL GEAR WITH OPERATING NUT



SPUR GEAR WITH OPERATING NUT



THIRD ANGLE PROJECTION.
STANDARDS: ANSI Y14.5-2009, ASME Y14.100M, AND Y14.41.
TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

CASTING TOLERANCES
0-4": ± 1/32"
4-8": ± 3/64"
8-12": ± 1/16"
12-18": ± 3/32"
18-UP": ± 1/8"
MIN RADIUS: 1/8"
MIN DRAFT: 2°

MACHINED DIMENSIONS
DECIMALS: ± 0.005
FRACTIONS: ± 1/64
ANGLE: ± 1°
SURFACE FINISH: 125 µin
RADII: 1/8"

PROPERTY OF MCWANE CORPORATION.
ALL MODELS AND DERIVITIVE DOCUMENTATION ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES.
DISTRIBUTION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE ARRANGED.
ALL RIGHTS RESERVED.

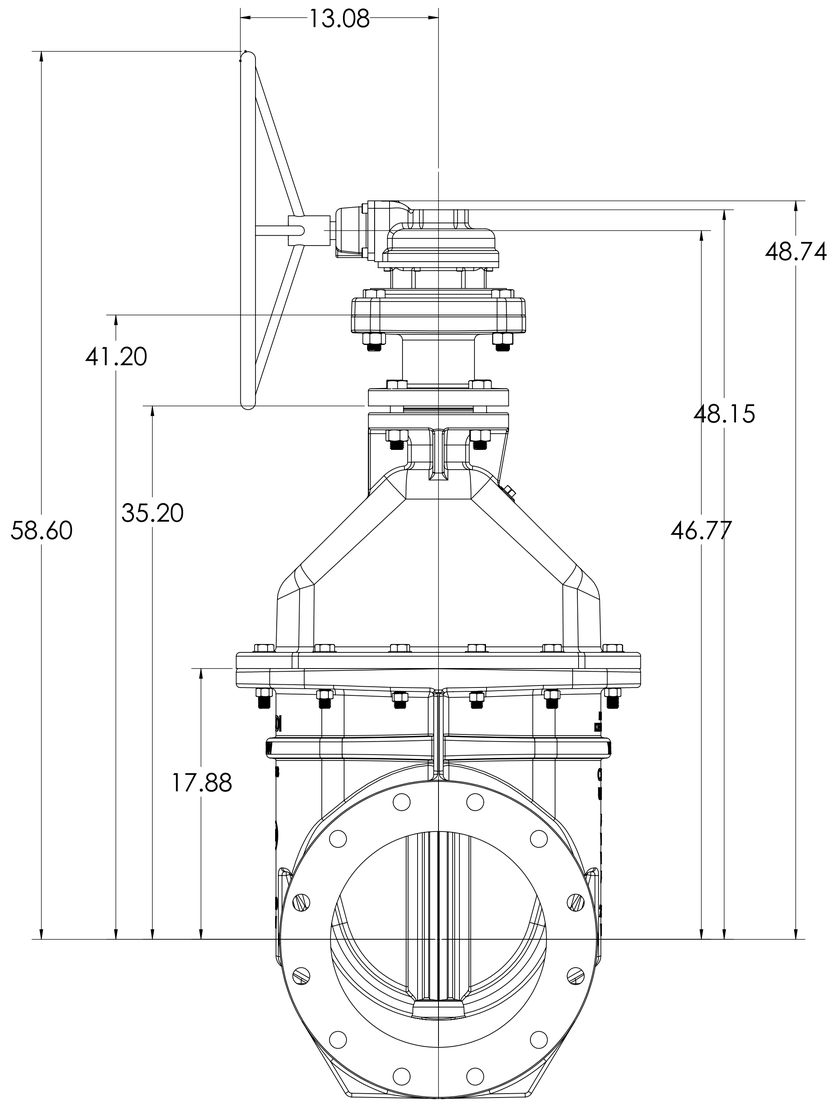
MATERIAL
ESTIMATED WEIGHT: LBS.

DRW BY: CW | DATE DRAWN: 12/3/2020 | CHK. BY | CHK. DATE

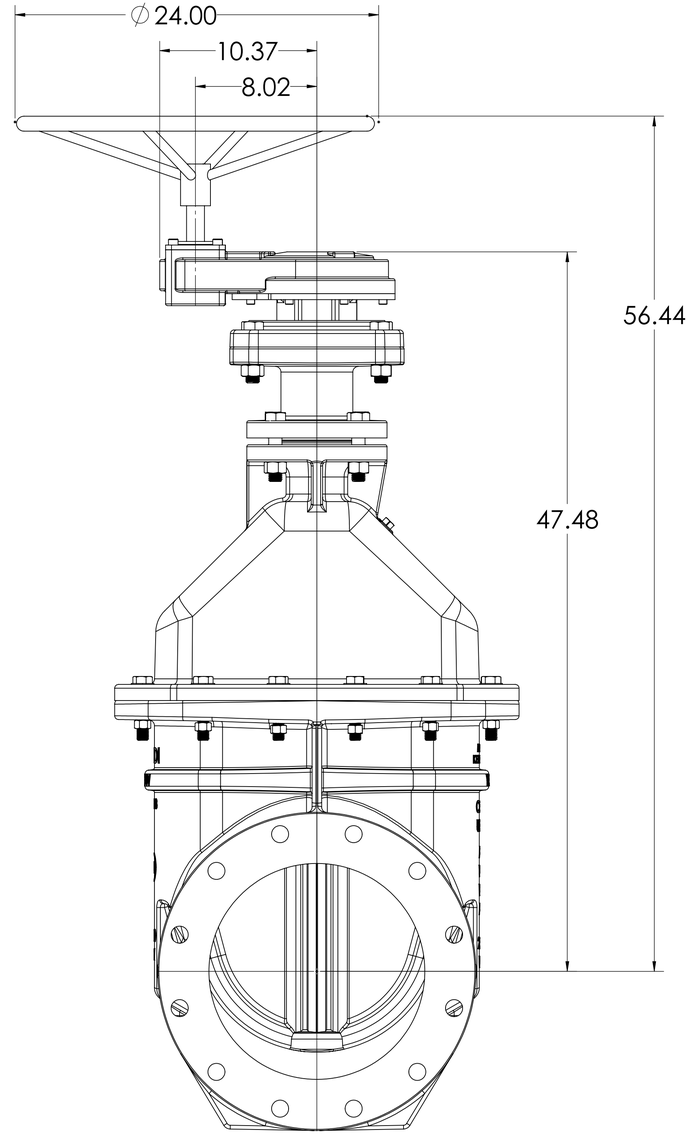
QUOTE NO.: I0102425
DRAWING NO.: M0102425
REVISION: C
DESCRIPTION: 14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE
SCALE: 1:10
SOFTWARE USED: Solidworks 2018 SP2
SHEET 3 OF 7
SHEET SIZE: D

CLOW VALVE CO.

BEVEL GEAR WITH HANDWHEEL



SPUR GEAR WITH HANDWHEEL



THIRD ANGLE PROJECTION.
STANDARDS: ANSI/ASME Y14.100, Y14.5M, AND Y14.41.
TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

CASTING TOLERANCES

0-4":	± 1/32"
4-8":	± 3/64"
8-12":	± 1/16"
12-18":	± 3/32"
18-UP":	± 1/8"
MIN RADIUS:	1/8"
MIN DRAFT:	2°

MACHINED DIMENSIONS

DECIMALS:	± 0.005
FRACTIONS:	± 1/64"
ANGLE:	± 1°
SURFACE FINISH:	125 µin
RADII:	1/8"

PROPERTY OF MCWANE CORPORATION.
ALL MODELS AND DERIVITIVE DOCUMENTATION ARE PROPRIETARY TO MCWANE CORPORATION AND SHALL NOT BE USED FOR REPRODUCTION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE ARRANGED.
ALL RIGHTS RESERVED.

MATERIAL:

ESTIMATED WEIGHT: LBS.

DRW BY:	DATE DRAWN:	CHK. BY:	CHK DATE:
CW	12/3/2020		

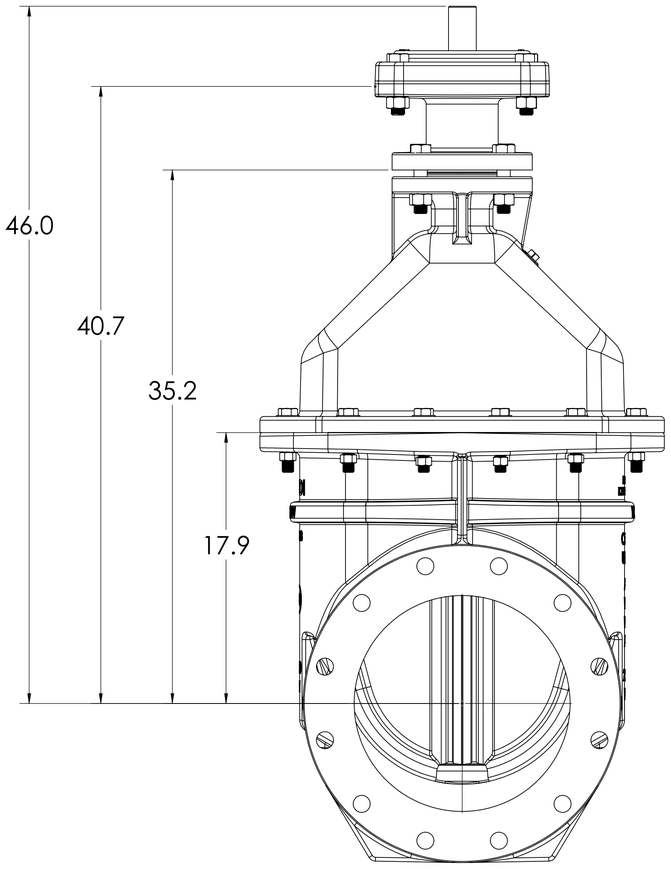
I0102425	M0102425
REVISION: C	
DESCRIPTION: 14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE	
SHEET SCALE: 1:10	DRAWING USED: Solidworks 2018 SP2

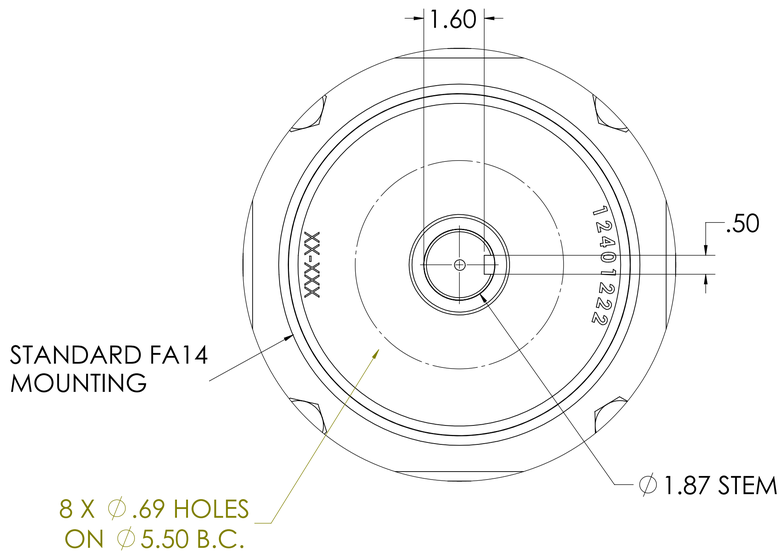
CLOW VALVE CO.

SHEET OF 4 7

SHEET SIZE D

BARE STEM





BARE STEM MOUNTING FLG

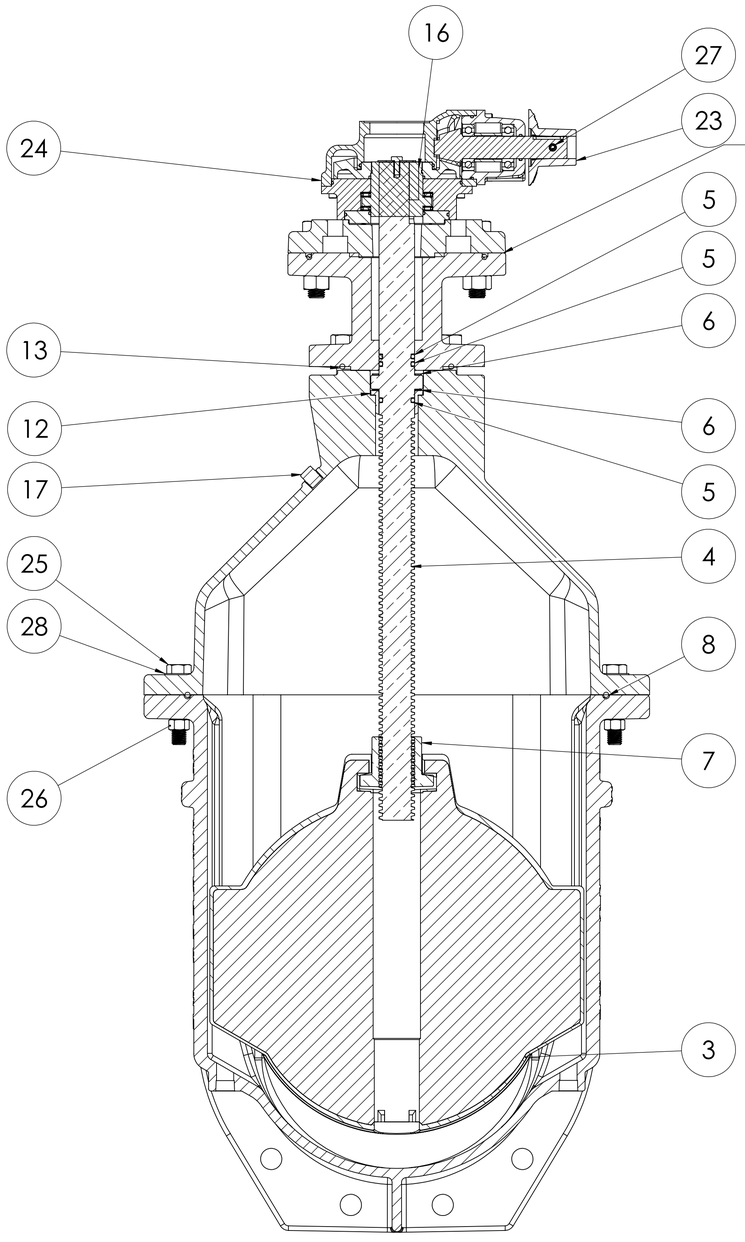
THIRD ANGLE PROJECTION.
STANDARDS: ANSI/ASME Y14.100, Y14.5M, AND Y14.41.
TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

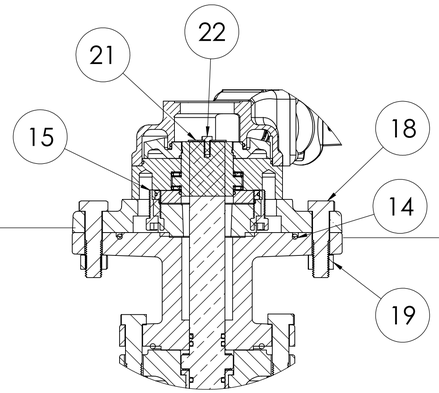
CASTING TOLERANCES		MACHINED DIMENSIONS	
0-4":	± 1/32"	DECIMALS:	± 0.005
4-8":	± 3/64"	FRACTIONS:	± 1/64
8-12":	± 1/16"	ANGLE:	± 1°
12-18":	± 3/32"	SURFACE FINISH:	125 µin
18-UP":	± 1/8"	RADII:	1/8"
MIN RADIUS:	1/8"		
MIN DRAFT:	2°		

PROPERTY OF MCWANE CORPORATION.
ALL MODELS AND DERIVATIVE DOCUMENTATION ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. NO USE OR DISCLOSURE OF THIS DRAWING OR DIRECTED USE UNLESS OTHERWISE ARRANGED.
ALL RIGHTS RESERVED.

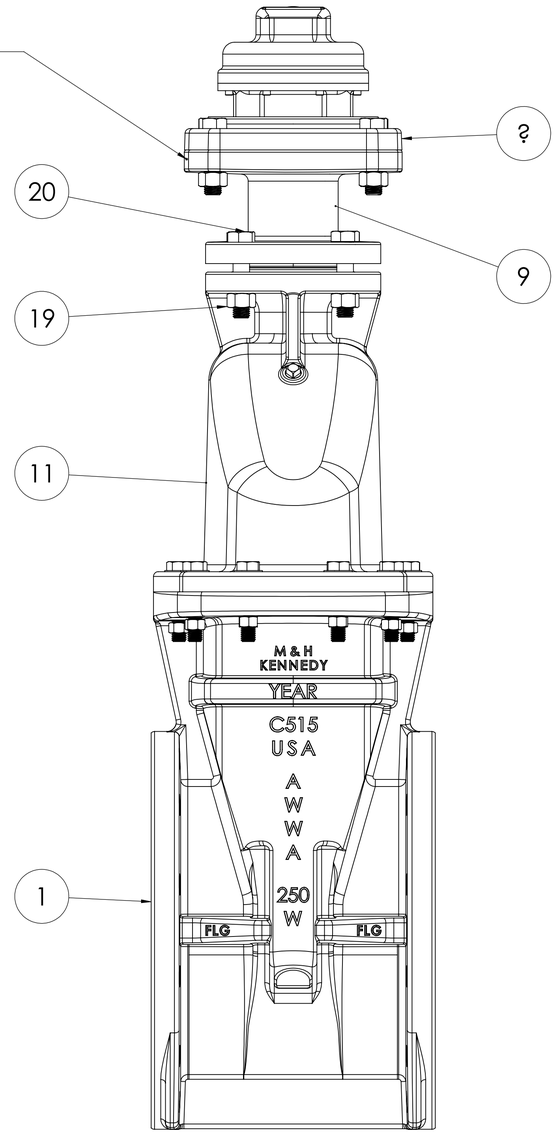
ITEM NO.	I0102425
DRAWING NO.	M0102425
REVISION	C
MATERIAL	
DESCRIPTION	14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE
ESTIMATED WEIGHT	LBS.
DRN. BY	CW
DATE DRAWN	12/3/2020
CHK. BY	
CHK DATE	
SHEET SCALE	1:10
SOFTWARE	Solidworks 2018 SP2
SHEET	5
SHEET OF	7
SIZE	D

CLOW VALVE CO.





45° DETAIL VIEW



THIRD ANGLE PROJECTION. STANDARDS: ANSI B4.1, B46.1, ASME Y14.5M, AND Y14.41. TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.	PROPERTY OF MCWANE CORPORATION. ALL WORDS AND GRAPHIC DOCUMENTATION ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES. DISTRIBUTION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE ARRANGED. ALL RIGHTS RESERVED.	DRAWING NO. I0102425	REVISION NO. M0102425		
CASTING TOLERANCES 0-4": ± 1/32" 4-8": ± 3/64" 8-12": ± 1/16" 12-18": ± 3/32" 18-UP": ± 1/8" MIN RADIUS: 1/8" MIN DRAFT: 2°	MACHINED DIMENSIONS DECIMALS: ± 0.005 FRACTIONS: ± 1/64 ANGLE: ± 1° SURFACE FINISH: 125 µin RADII: 1/8"	REVISION	C		
MATERIAL		DESCRIPTION	14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE		
ESTIMATED WEIGHT	LBS.				
DRW BY: CW	DATE DRAWN: 12/3/2020 CHK. BY	DATE CHKD	SCALE 1:10	SOLID MODEL Solidworks 2018 SP2	SHEET OF 6 7 SHEET SIZE D

CLOW VALVE CO.

ITEM NO.	COMPONENT	QTY.	SIZE	STANDARD MATERIAL	MATERIAL OPTIONS
1	BODY	1	-	DUCTILE IRON	-
2	D-22088	1			
3	WEDGE	1	-	EPDM/DUCTILE IRON	-
4	STEM	1	-	C86700	C86200, C99500 (LOW ZINC), 304 SS, 316 SS
5	O-RING	3	#325	EPDM	BUNA-N
6	THRUST WASHER	2	-	ACETAL	C26000
7	STEM NUT	1	-	C87850	C99500 (LOW ZINC)
8	O-RING	1	#463	EPDM	BUNA-N
9	EXTENSION PLATE	1	-	DUCTILE IRON	-
10	D-21990	1	-	DUCTILE IRON	-
11	COVER	1	-	DUCTILE IRON	-
12	COVER BUSHING	1	-	C87850	-
13	O-RING	1	#433	EPDM	BUNA-N
14	O-RING	1	#447	EPDM	BUNA-N
15	HEX HEAD CAP SCREW	4	5/8"-11 X 1 1/2"	18-8 SS	316 SS
16	KEY	1	1/2" X 2"	18-8 SS	316 SS
17	PIPE PLUG	1	1/2" - NPT	18-8 SS	316 SS
18	HEX HEAD CAP SCREW	4	7/8"-9 X 3 1/2"	18-8 SS	316 SS
19	HEX NUT	8	7/8"-9	18-8 SS	316 SS
20	HEX HEAD CAP SCREW	4	7/8"-9 X 4"	18-8 SS	316 SS
21	WASHER	1	5/16" X 2"	18-8 SS	316 SS
22	HEX HEAD CAP SCREW	1	5/16"-18 X 3/4"	18-8 SS	316 SS
23	OPERATING NUT	1	-	DUCTILE IRON	C86700, ** ∅ 24" HANDWHEEL**
24	BEVEL GEAR	1	-	-	SPUR GEAR
25	HEX HEAD CAP SCREW	12	3/4"-10 X 3 3/4"	18-8 SS	316 SS
26	HEX NUT	12	5/8"-11	18-8 SS	316 SS
27	COILED SPRING PIN	1	10mm X 45mm	302/304 SS	-
28	WASHER	12	3/4"	18-8 SS	316 SS

- 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
- 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

SYM.	ECN	DR.	DATE
D	2370	GC	7/23/24
C	-	CW	1/4/22
B	-	BLS	7/29/21
A	-	CW	12/3/20

THIRD ANGLE PROJECTION.
STANDARDS: ASME/ANSI Y14.100, Y14.5M, AND Y14.41.
TOLERANCES AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

CASTING TOLERANCES
0-4": ± 1/32"
4-8": ± 3/64"
8-12": ± 1/16"
12-18": ± 3/32"
18-UP": ± 1/8"
MIN RADIUS: 1/8"
MIN DRAFT: 2°

MACHINED DIMENSIONS
DECIMALS: ± 0.005
FRACTIONS: ± 1/64
ANGLE: ± 1°
SURFACE FINISH: 125 µin
RADII: 1/8"

PROPERTY OF MCWANE CORPORATION.
THE INFORMATION ON THIS DRAWING/DOCUMENTATION ARE PROPRIETARY TO MCWANE CORPORATION AND ITS SUBSIDIARIES.
DISTRIBUTION REQUIRED UPON COMPLETION OF DIRECTED USE UNLESS OTHERWISE ARRANGED.
ALL RIGHTS RESERVED.

ID REFERENCE	I0102425
PART NO.	M0102425
REVISION	C
MATERIAL	
DESCRIPTION	14" C515 NRS GEARED RESILIENT WEDGE GATE VALVE
ESTIMATED WEIGHT	LBS.
DRAWN BY	CW
DATE DRAWING	12/3/2020
CHK. BY	
CHK. DATE	
SOFTWARE	Solidworks 2018 SP2
SCALE	1:10
SHEET OF	7 / 7
SHEET SIZE	D

CLOW VALVE CO.