

The original, and the definitive standard.

RESILIENT WEDGE GATE VALVES

4" THROUGH 20"
STYLE 7000



AWWA C515 250 PSI • UL/FM Approved 200 PSI • NSF 61 Certified •
Full Water Way • Fusion Bond Epoxy Coated • 10 Year Limited Warranty



M&H VALVE COMPANY

M&H Valve is a division of McWane, Inc.

www.mh-valve.com



For Generations

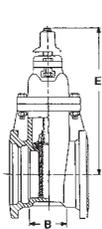
RESILIENT WEDGE VALVE

In 1975, M&H recognized the increased requirements and escalating maintenance cost of water systems in the United States.

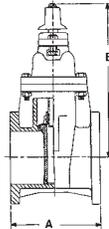
M&H responded by introducing the first R/W (Resilient Wedge) Valve in America. This introduction revolutionized the valve market in the U.S.

M&H is the first to introduce, and still leads in the design and technical development, of the bubble-tight resilient seating valve.

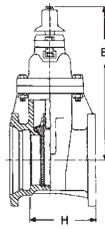
The M&H Resilient Wedge Valve, with its unique features and benefits, is the first to be manufactured with both AWWA and UL/FM approval for all water system requirements.



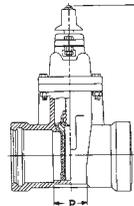
**7571
MECHANICAL JOINT
4" - 20"**



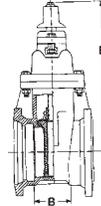
**7561
FLANGED
4" - 20"**



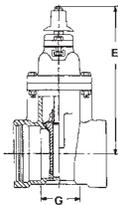
**7572
FLANGED X
MECHANICAL JOINT
4" - 20"**



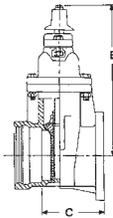
**7597
PUSH ON FOR
SDR PVC
4" - 12"**



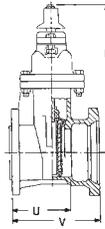
**7576
MECHANICAL
CUTTING IN JOINT
4" - 12"**



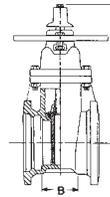
**7901
TYTON ENDS FOR D.I.
AND C900 PVC PIPE
4" - 16"**



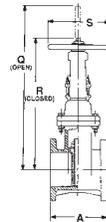
**7902
FLANGED X TYTON
4" - 12"**



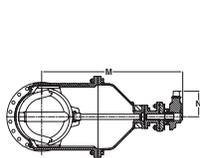
**7590
TAPPING X MJ
TAPPING VALVE
4" - 20"**



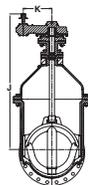
**7571-P
MECHANICAL JOINT
POST INDICATOR VALVE
4" - 16"**



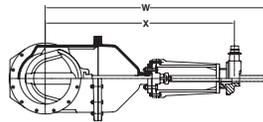
**7068
FLANGED OS&Y
4" - 16"**



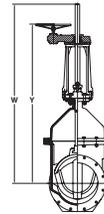
**BEVEL GEARING
HORIZONTAL
INSTALLATION
ALL END STYLES
14" - 20"**



**SPUR GEARING
VERTICAL
INSTALLATION
ALL END STYLES
14" - 20"**



**OS&Y BEVEL GEARING
HORIZONTAL INSTALLATION
ALL END STYLES
14" - 20"**



**OS&Y SPUR
GEARING VERTICAL
INSTALLATION
ALL END STYLES
14" - 20"**

NOTE:

It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment. Flanged end connections not recommended for buried service.

VALVE SIZE	A	B	C	E	G	H	J	K	M	N	P	Q	R	S	U	V	NO. OF TURNS TO FULL OPEN				
																	NO GEAR	GEARED	W	X	Y
4"	9	4-1/2	6-3/4	14-3/4	4-5/8	6-3/4	-	-	-	-	4-1/2	22-3/4	18-1/4	10	6-3/4	9-1/4	13-1/2	-	-	-	
6"	10-1/2	5-1/2	7-7/8	19	5-1/4	8	-	-	-	-	5	30-1/8	23-3/4	12	8	10-1/2	19-1/2	-	-	-	
8"	11-1/2	8-1/8	8-1/2	22-1/2	5-5/8	9-3/4	-	-	-	-	5-1/2	37-3/4	29-1/4	14	10-3/4	13-1/4	25-1/2	-	-	-	
10"	13	10-1/2	10	26-1/2	7	11-3/4	-	-	-	-	7	45-3/4	35-3/8	18	11-3/4	14-7/8	31-1/2	-	-	-	
12"	14	10-3/4	11-1/4	30	8-1/2	12-7/8	-	-	-	-	8-1/2	53-1/8	40-3/8	18	12-3/8	15	37-3/4	-	-	-	
14"	15	10	-	37-3/4	10-1/2	13-1/2	52-1/8	8	48-5/8	9-1/8	-	74-3/4	59-3/4	22	13-1/4	16-3/4	52	100	76	59-7/8	64-1/2
16"	16	10	-	37-3/4	10-1/2	13	51-1/8	8	47-5/8	9-1/8	-	74-3/4	59-3/4	22	12-3/4	16-1/4	52	100	76	59-7/8	64-1/2
18"	17	11-3/4	-	-	-	14-7/8	58	12	55-3/4	10-1/8	-	-	-	-	14-5/8	18-1/8	-	189	90-7/8	70-1/8	74-5/8
20"	18	11	-	-	-	14-1/2	57	12	54-3/4	10-1/8	-	-	-	-	14-1/2	18	-	189	90-7/8	70-1/8	74-5/8

ENGINEERING FEATURES

THRUST BEARINGS

Delrin thrust bearings above and below the thrust collar reduce friction and minimize operating torques.

STAINLESS STEEL HARDWARE

304 stainless steel nuts and bolts provide long-life corrosion protection.

COPPER ALLOY STEM

Long, trouble free life with high strength, non-corrosive copper alloy stem and stem nut.

100% COATED WEDGE

100% coated wedge ensures bubble-tight seal every time up to 250 PSI. With twin seal design.

ELLIPTICAL BOLT HOLES

Hole design on MJ connection eliminates the need for anti-rotation bolts (4" – 12").

EASY STORAGE

Pads on the bottom of all valves keep valve in upright position for easier storage and protection from the elements.

REPLACEABLE O-RINGS

Two O-ring seals are replaceable with the valve fully open and subjected to full-rated working pressure.

NO FLAT GASKETS

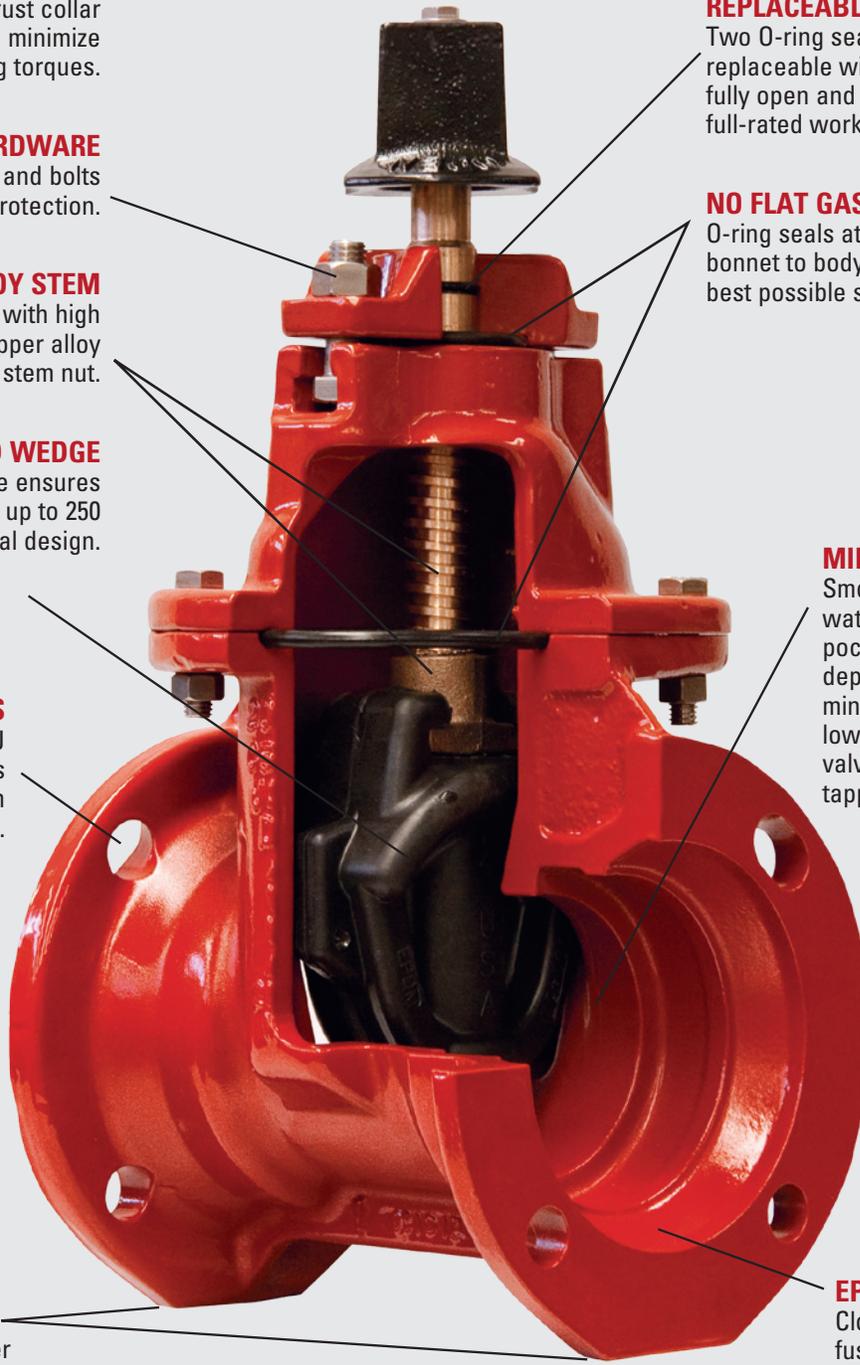
O-ring seals at stuffing box and bonnet to body flanges to ensure the best possible seal.

MINIMAL FLOW LOSS

Smooth, unobstructed waterway is free of pockets, cavities, and depressions allowing for minimal flow loss and lower pumping costs. All valves accept full size tapping cutter.

EPOXY COATING

Clow corrosion resistant fusion-bonded epoxy coating, conforming to AWWA C550 and NSF 61 Certified, protects both inside and outside of valve.



VALVE RATING: All valves are rated at 250 PSI for AWWA service and hydrostatically tested to 500 PSI. Valves through 16" are rated at 200 PSI for UL/FM service.



COMMITTED TO ENVIRONMENTAL RESPONSIBILITY

M&H VALVE COMPANY IS COMMITTED TO PROTECTING OUR NATURAL RESOURCES THROUGH ENVIRONMENTALLY RESPONSIBLE MANUFACTURING PRACTICES, INCLUDING THE USE OF 80+% RECYCLED CONTENT IN OUR HYDRANTS AND VALVES.

To learn more about our commitment to the environment, call 256-237-3521

RECOMMENDED SPECIFICATIONS

1. Valves shall conform to the latest revision of AWWA Standard C515 covering resilient seated gate valves for water supply service.
2. The valves shall have a ductile iron body, bonnet, and O-ring plate. The wedge shall be totally encapsulated with rubber.
3. The sealing rubber shall be permanently bonded to the wedge per ASTM D429.
4. Valves shall be supplied with O-ring seals at all pressure retaining joints. No flat gaskets shall be allowed.
5. The valves shall be either non-rising stem or rising stem, opening by turning left or right, and provided with 2" square operating nut or a handwheel with the word "Open" and an arrow to indicate the direction to open.
6. Stems shall be cast copper alloy with integral collars in full compliance with AWWA. All stems shall operate with copper alloy stem nuts independent of wedge and of stem (in NRS valves).
7. Stems shall have two O-rings located above thrust collar and one O-ring below. Stem O-rings shall be replaceable with valve fully opened and subjected to full pressure. The stems on 4" – 20" shall also have two low torque thrust bearings located above and below the stem collar to reduce friction during operation.
8. Waterway shall be smooth, unobstructed and free of all pockets, cavities and depressions in the seat area. Valves 4" and larger shall accept a full size tapping cutter.
9. The body, bonnet and O-ring plate shall be fusion-bond epoxy coated, both interior and exterior on body and bonnet. Epoxy shall be applied in accordance with AWWA C550 and be NSF 61 Certified.
10. Each valve shall have maker's name, pressure rating, and year in which it was manufactured cast in the body. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to the requirements of AWWA C515 (and UL/FM where applicable).
11. Valves shall have all component parts cast and assembled in the USA and shall be manufactured by the M&H Valve Company.



www.mh-valve.com



M&H VALVE COMPANY

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For Generations

SPECIFICATIONS / AVAILABLE CONFIGURATIONS & STYLE NUMBERS (2"-20")

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

**M&H Valve AWWA C515 Resilient Wedge Gate Valves
Meet or Exceed the Requirements of AWWA Standard C515**

Size Range	Water Working Pressure psi	Bubble Tight Seat Test psi	Hydrostatic Shell Test psi
AWWA 2" – 20"	250 Water Works	250 & 400	500
ULFM 4" – 16"	200 Fire Protection	250 & 400	500

Available End Connections (No Gear)		Style No. Size Range	Style No. With 2" Nut	Style No. With Hand wheel	Style No. With Post Plate
Mechanical Joint (NRS)	(no 2 1/2")	2"-16"	7571	7571-HW	7571-P (3"-16")
Flanged Ends (NRS)		2"-16"	7561	7561-HW	7561-P (3"-16")
Flanged End X Mechanical Joint (NRS)		3"-16"	7572	7572-HW	7572-P (3"-16")
Push-on (NRS) (For PVC / SDR)		2"-12"	7597	7597-HW	7597-P (3"-12")
Threaded (NRS)		2"-3"	7057	7057-HW	7057-P (3"only)
Threaded (NRS)(With T-Head Nut)		2"-3"	7067-07THN (With T-Head Nut)		
***Threaded (OS&Y)		2"-3"	N/A	7067	N/A
Tyton X Tyton (NRS) (For D.I. / C900)		4"-12" & 16"	7901	7901-HW	7901-P (4"-12" & 16")
Tyton X Flange (NRS) (For D.I. / C900)		4"-12"	7902	7902-HW	7902-P (4"-12")
***Flanged Ends (OS&Y)		2"-16"	N/A	7068 & 7068A*	N/A
**Tapping Valve (NRS)		4"-16"	7950	7950-HW	7950-P (4"-16)
M.J. Cutting-in Valve (NRS)		4"-12"	7576	7576-HW	7576-P (4"-12")
****Flanged End (Open Mitre Box)		3"-12"	7211-O	7211-O-HW	N/A
****Flanged End (Enclosed Mitre Box)		4"-12"	7211-C	7211-C-HW	N/A

Available End Connections (Bevel Gear)	Size Range	Style No. With 2" Nut	Style No. With Hand wheel
Mechanical Joint (NRS)	14-20"	7571-B	7571-BHW
Flanged Ends (NRS)	14"-20"	7561-B	7561-BHW
Flanged End X Mechanical Joint (NRS)	14"-20"	7572-B	7572-BHW
Tyton X Tyton (NRS) (For D.I. / C900)	16"	7901-B	7901-BHW
Flanged Ends (OS&Y)	14"-20"	7068-B	7068-BHW
**Tapping Valve (NRS)	14"-16"	7950-B	7950-BHW

Available End Connections (Spur Gear)	Size Range	Style No. With 2" Nut	Style No. With Hand wheel
Mechanical Joint (NRS)	14-20"	7571-S	7571-SHW
Flanged Ends (NRS)	14"-20"	7561-S	7561-SHW
Flanged End X Mechanical Joint (NRS)	14"-20"	7572-S	7572-SHW
Tyton X Tyton (NRS) (For D.I. / C900)	16"	7901-S	7901-SHW
Flanged Ends (OS&Y)	14"-20"	7068-S	7068-SHW
**Tapping Valve (NRS)	14"-16"	7950-S	7950-SHW

Note: 2" to 3" sizes full wall ductile iron (per AWWA Dimensions)
 *7068A is Tapped & Plugged in "A" Position (2" – 4" = 1/2" tap)(6" – 12" = 3/4" tap)
 **Each size accommodates a full size diameter tapping cutter..
 ***2" OS&Y Flanged and Threaded versions are UL Listed
 ****All other end connections available.

18" and larger RS gate valves will be furnished with either bevel or spur gearing.
 By-pass valve not required on gate valves through 24"

NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment.



Sizes 2" - 12"

RECOMMEND SPECIFICATIONS (NRS STYLE 7000)(OS&Y STYLE 7068)(2"-20") **M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)**

RECOMMENDED SPECIFICATIONS (2"-20")

1. Valves shall conform to the latest revision of AWWA Standard C515 covering resilient seated gate valves for water supply service.
2. The valves shall have a ductile iron body, bonnet, and O-ring plate. The wedge shall be totally encapsulated with rubber.
3. The sealing rubber shall be permanently bonded to the wedge per ASTM D-429.
4. Valves shall be supplied with O-ring seals at all pressure retaining joints. No flat gaskets shall be allowed.
5. The valves shall be either non-rising stem or rising stem, opening by turning left or right, and provided with 2" square operating nut or a handwheel with the word "Open" and an arrow to indicate the direction to open.
6. Stems shall be cast copper alloy with integral collars in full compliance with AWWA. All stems shall operate with copper alloy stem nuts independent of wedge and of stem (in NRS valves). OS&Y (rising stems) shall be bronze
7. All stems shall have two O-rings located above the thrust collar and one O-ring below. Stem O-rings shall be replaceable with valve fully opened and subjected to full pressure.
8. The stems on 4"-20" shall have a low torque thrust bearing located above and below the stem collar to reduce friction during operation.
9. Waterway shall be smooth, unobstructed and free of all pockets, cavities and depressions in the seat area. Valves 4" and larger shall accept a full size tapping cutter.
10. The body, bonnet and O-ring plate shall be fusion-bonded epoxy coated, both interior and exterior on body and bonnet. Epoxy shall be applied in accordance with AWWA C550 and be NSF 61 Certified.
11. Each valve shall have maker's name, pressure rating, and year in which it was manufactured cast in the body. Country of origin to be clearly cast into body & cover castings.
12. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to the requirements of AWWA C515 (and UL/FM where applicable).
13. Valves shall have all component parts cast and assembled in the USA and shall be manufactured by the M&H Valve Company.

NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment.

September 1, 2012 / C515 Gate Valves

PRODUCT ANALYSIS (2"-54")

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

FEATURES	BENEFIT
2"-54" Bubble Tight Closure at 250 psi (AWWA Service)	<ul style="list-style-type: none"> • No Leakage – No loss of water
Wedge Has Dual Rubber Seal	<ul style="list-style-type: none"> • Assures drop-tight shut-off in either direction.
Smooth, Unobstructed Waterway to Maximize Flow.	<ul style="list-style-type: none"> • High flow characteristics • 100% smooth passage without turbulent flow • No sediment build up • Will not impede travel of line cleaning tools
Only Three Internal Parts	<ul style="list-style-type: none"> • Virtually maintenance free
2"-20" Integral Cast Tongue and Groove Between Wedge and Valve Body.	<ul style="list-style-type: none"> • Positive gate alignment every time
24"-54" Uses Patented Clean Track Technology	<ul style="list-style-type: none"> • Bronze to stainless steel travel of large wedges. • Design aids in clearing out solids prior to closing.
No Metal Seat Rings	<ul style="list-style-type: none"> • Nothing to be damaged by scoring
Delrin* Anti-Friction Thrust Bearing	<ul style="list-style-type: none"> • Operating torque to close and open held to absolute minimum
Solid, Bronze Stem Nut and High Strength Bronze Stem	<ul style="list-style-type: none"> • No corrosion • Trouble free service
Stem Nut is Self Centering	<ul style="list-style-type: none"> • Eliminates possible stress on stem and wedge
Two O-Ring Seals Above Stem Thrust Collar and One Below	<ul style="list-style-type: none"> • Two O-Rings can be replaced with valve in service (Valve needs to be fully opened)
Ductile Iron Wedge Fully Encapsulated with Rubber Permanently Bonded to Metal.	<ul style="list-style-type: none"> • Trouble free service with minimum maintenance • No leaks – no wear
No Lubrication Required	<ul style="list-style-type: none"> • Trouble free service
Body / Bonnet Epoxy Coating Inside & Out	<ul style="list-style-type: none"> • Unprecedented Protection Against Corrosion and abrasion
10 Year Limited Warranty Against Defective Materials or Workmanship	<ul style="list-style-type: none"> • Customer assurance that M&H believes in the strong product they produce.
American Cast and Assembled	<ul style="list-style-type: none"> • American Jobs • American backed for more than 100 years • American quality and accountability

* DuPont Trademark

NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment.

September 1, 2012 / C515 Gate Valves

PERFORMANCE INFORMATION (AWWA & UL/FM)

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

4"-54" AWWA PERFORMANCE INFORMATION

1. Valve complies with AWWA C515 specs where applicable.
2. Valve is rated at 250psi working pressure.
3. Valve is bubble-tight at all pressures up to full rated pressure (250psi).
4. Valve has been subjected to torques 150 percent of the designated minimum required torques.
5. Valve has been cycle tested full opened to close 5,000 times without loss of bubble-tight seal.
6. Rubber to iron bond on wedge is inspected for strength as per ASTM D 429 specification.

4"-16" UL/FM PERFORMANCE INFORMATION

1. Valve complies with Underwriters Laboratory standard UL 262.
2. Valve is rated at 200psi working pressure.
3. Valve is bubble-tight at all pressures up to the full rated pressure (200psi)
4. Valve is capable of bubble-tight seal at twice the rated pressure (400psi) for short periods of time.
5. 4"-6" valve sizes have been hydrostatically shell tested at five times the rated pressure (1,000 psi).
6. 8"-16" valve sizes have been hydrostatically shell tested at four times the rated pressure (800psi).
7. Valves has been subjected to torques 150 percent of the designated minimum required torques.
8. Valve has been cycle tested 5,000 times without loss of bubble-tight seal.
9. Rubber to iron bond on wedge is inspected for strength as per ASTM D 429 specification.

Note: For complete data on the tests Underwriters Laboratories performed reference UL File EX783

NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment.

END CONNECTIONS (4"-12")

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

Shown at right are the principal ends available on M&H Gate valves. Other type ends are available upon request.

Mechanical Joint end valves are furnished for use with mechanical joint cast iron pipe. Mechanical joint bolts, glands and gaskets are furnished unless otherwise specified in order. Mechanical joint ends are in accordance with ANSI/ AWWA C111 / A21.11.

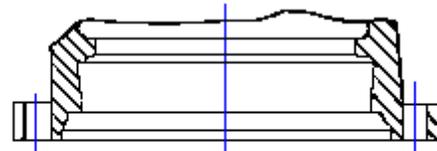
PVC Plastic end valves are furnished for use with PVC water pipe. Gaskets are furnished with valves for installation on pipe.

Push on ends for C900 plastic and ductile and cast iron pipe furnished with stab rubber gaskets to ANSI / AWWA C111/A21.11.

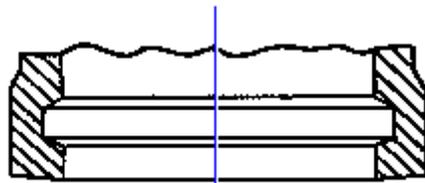
Flanged end valves are furnished with flanges made to ANSI / AWWA C110/A21.10 (ASME B16.1, Class 125) dimensions. Flanged end valves are most commonly used for filtration plants, sewage disposal plants and pump stations. Flanged valves have the advantage of quick and easy removal for repairs or replacement without disrupting the pipe line.

Flanged by mechanical joint end valves frequently are used as auxiliary gate valves with flanged end fire hydrants, also to connect flanged pipe to mechanical joint pipe lines.

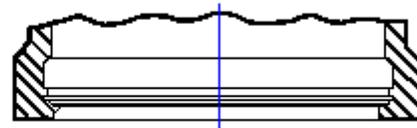
Threaded / Screwed end valves are furnished for smaller pipelines for general service with iron pipe threads, in accordance with ASME B16.9, Class 125.



Mechanical Joint End



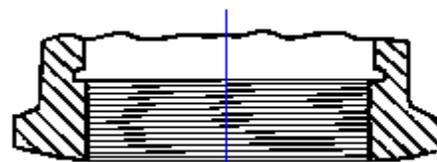
PVC End



Push-On-End



Flanged End



Screwed End

MATERIAL SPECIFICATIONS (1 of 2)

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

CAST IRON SPECIFICATION ASTM A126 CLASS B

Physical Properties

Minimum tensile strength	31,000 psi
Minimum transverse strength	3,300 lbs.
Minimum deflection (12" Centers)	.12 in

Chemical Analysis (percent)

Phosphorus (maximum)	.75
Sulfur (maximum)	.15

DUCTILE IRON SPECIFICATION ASTM A536

Physical Properties

Minimum tensile strength	65,000 psi
Minimum yield strength	45,000 psi

SBR-STYRENE BUTADINE RUBBER – ASTM D-5000 “O-Rings”

Hardness	78± 5
100% Modulus (PSI)	800

STANDARD “Wedge / Seat Rubber” & ALTERNATE---EPDM “O-Rings”

Hardness	80± 2
100% Modulus (PSI)	600
Tensile (PSI)	1,450
Elongation (%)	150
Compression set, ASTM D395 Method B	18% max.

MATERIAL SPECIFICATIONS (2 of 2)

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

STANDARD CAST BRONZE—ASTM B584 CDA836 (Stem Nut)

Physical Properties

Minimum tensile strength	30,000psi
Minimum yield strength	14,000psi
Minimum elongation (in 2 inches)	20%

Chemical Analysis

*Copper	84.0 – 86.0
Lead	4.0 – 6.0
Tin	4.0 – 6.0
Nickel (maximum)	1.0
Zinc	4.0 – 6.0

* = CU + NI = 79% Min

CAST BRONZE – ASTM B584 CDA867 (Stem)

Physical Properties

Minimum tensile strength	80,000 psi
Minimum yield strength	32,000 psi
Minimum elongation (in 2 inches)	15%

Chemical Analysis

Copper	55.0 – 60.0
Lead (maximum)	.50 – 1.5
Aluminum	1.0 – 3.0
Iron	1.0 – 3.0
Nickel (maximum)	1.0
Zinc	30.0 – 38.0
Manganese	1.0 – 3.5
Tin (maximum)	.2

ALTERNATE CAST BRONZE – NDZ-S ASTM B763 UNS C99500 (Stem)

Physical Properties

Minimum tensile strength	70,000 psi
Minimum yield strength	40,000 psi
Minimum elongation (in 2 inches)	12%

Chemical Analysis

Copper	82.8
Lead (maximum)	.25
Aluminum (maximum)	2.0
Iron (maximum)	5.5
Nickel (maximum)	5.5
Zinc (maximum)	2.0
Silicon (maximum)	2.0

FLOW COEFFICIENTS (2"-12")

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

FLOW COEFFICIENTS (2"-12")

VALVE SIZE	Cv (FULL OPEN)	K (FULL OPEN)
2"	300	0.15
2 1/2"	500	0.130
3"	800	0.115
4"	1500	0.105
6"	3600	0.090
8"	6700	0.080
10"	10,500	0.080
12"	15,000	0.080

Note: 2"- 3" not included in AWWA C515, but made of ductile iron

$$Cv = \frac{Q}{\sqrt{\Delta P}}$$

$$K = f \frac{L}{D}$$

Values given are calculated, based on hydraulic lab test on 6" R/W valve.

CR (CORROSION RESISTANCE) INTERIOR & EXTERIOR COATING (1 of 2)
M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

CR (CORROSION RESISTANCE) COATING

M&H Valves CR Coating is a high performance, one-part, heat-curable, thermoset coating which provides superior corrosion resistance protection for metal parts.

M&H Valves CR Coating material is a stable, non-toxic resin consisting of 100% solids. It is impervious to and imparts no taste to potable water. M&H CR Coating is formulated from materials deemed acceptable in the Food and Drug Administration's Document Title 21 of the Federal Regulations on food additives, Section 175.300 entitled "Resinous and Polymeric Coatings".

M&H Valves CR Coating is applied by a heat application, fusion—bonding process which secures the coating materials to the metal valve components. This process provides a continuous coating 6-8 mils thick with excellent adhesion qualities.

The durable M&H Valve CR Coating has a hard finish and exhibits excellent corrosion resistance in the most aqueous solutions and good abrasion resistance. It will not sag or cold flow or become soft during long-term storage. In addition to excellent corrosion resistance to aqueous solutions, the coating has excellent stability and resistance to acidic soil conditions.

M&H Valve CR Coating meets the requirements of the American Water Works Association Standard C-550 entitled "Protective Interior Coatings for Valves and Hydrants". This high performance coating has a ten year history of satisfactory service as a corrosion protection coating used in corrosive potable water applications and soil conditions.

CR (CORROSION RESISTANCE) INTERIOR & EXTERIOR COATING (2 of 2)
M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

CR (CORROSION RESISTANCE) COATING

CHEMICAL	Epoxy Rating	
	70°F	180° F
ACIDS:		
Acetic, 10%	F	N
Benzene Sulfonic, 10%	E	E
Benzoic	E	E
Boric	E	E
Chloracetic, 10%	E	E
Chromic, 5%	F	N
Citric, 10%	E	N
Fatty Acids	E	E
Fronmic, 90%	E	F
Hydrobromic, 20%	G	G
Hydrochloric, 20%	E	G
Hydrocyanic	E	E
Hydrofluoric, 20%	G	G
Hypochlorous, 5%	F	N
Lactic, 5%	F	N
Maleic, 25%	E	E
Nitric, 5%	E	G
Nitric, 30%	G	P
Oleic	E	E
Oxalic	E	E
Phosphoric	G	F
Picric	G	F
Steraric	E	E
Sulfuric, 50%	G	F
Tannic	E	E
Ketones	F	F
Ethers	F	F
Esters	F	F
Gasoline	E	E
Cargon Tetrachloride	E	E
ORGANICS:		
Aniline	G	P

CHEMICAL	Epoxy Rating	
	70°F	180° F
ALKALIES:		
Ammonium Hydroxide	E	E
Calcium Hydroxide	E	E
Potassium Hydroxide	E	E
Sodium Hydroxide	E	E
ACID SALTS:		
Aluminum Sulfate	E	E
Ammonium Chloride*	E	E
Copper Chloride*	E	E
Iron Chloride*	E	E
Zinc Chloride*	E	E
ALKALINE SALTS:		
Barium Sulfide	E	E
Sodium Bicarbonate	E	E
Sodium Carbonate	E	E
Sodium Sulfide	E	E
Trisodium Phosphate	E	E
NETRAL SALTS:		
Calcium Chloride*	E	E
Magnesium Chloride*	E	E
Potassium Chloride*	E	E
Sodium Chloride*	E	E
SOLVENTS:		
Alcohols	E	E
Aliphatic Hydrocarbons	E	E
Aromatic Hydrocarbons	E	E
Benzene	E	E
Formaldehyde, 37%	E	E
Phenol, 5%	E	G
Mineral Oils	E	E
Vegetable Oils	E	E

KEY: E – no attack
 G – Appreciably no attack
 F – some attack, but useable in some instances
 P – attack, not recommended for use
 N – rapidly attacked
 * - and nitrate and sulfate

VALVE ACCESSORIES

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

VALVE ACCESSORIES

Mechanical operational accessories are used for valves having special operational needs such as;

1. Location with limited access
2. Hazardous locations
3. Revision of operational position
4. High Torque Operation
5. Indication of Valve Position

Accessory selection must be evaluated for its capability to transmit the required torque requirements to the valve. To assure long-term trouble free operation, its materials of construction should take into account factors relating to corrosion and maintenance.

Accessories used on M&H valves can include the following:

- Electric Motor Operators
- Stem Guides
- Indicator Posts
- Hand wheels
- “T” Handles
- Extension Stems
- Floor Boxes
- Chain Wheels
- Floor stands (Non-rising stem)
- Position Indicators
- Mitre Box Gearing
- Electronic Switches

LIMITED WARRANTY

M&H AWWA C515 RESILIENT WEDGE GATE VALVES (2000)

TEN YEAR LIMITED WARRANTY ON M&H VALVE RESILIENT WEDGE GATE VALVES

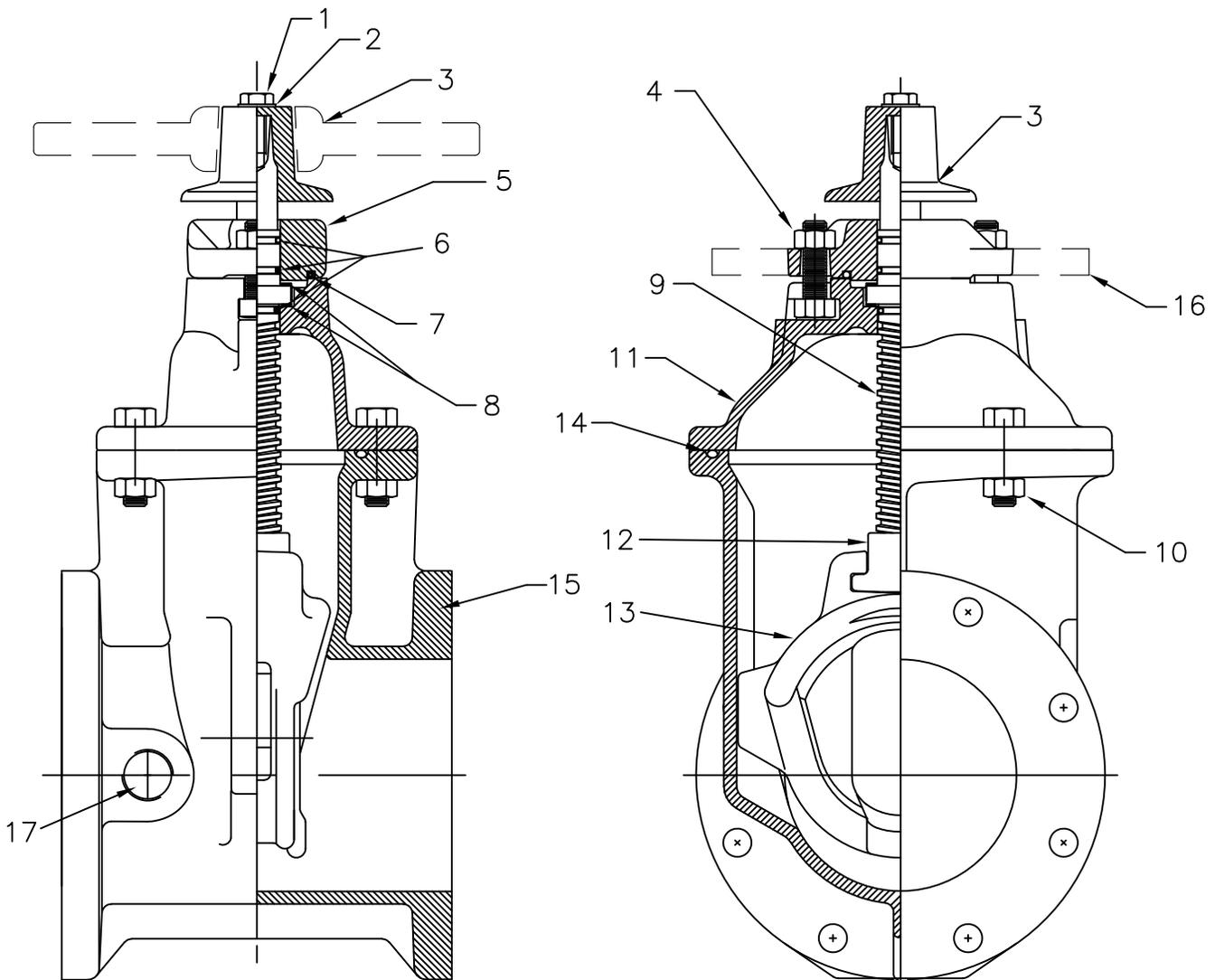
M&H Valve Company warrants that its Resilient Wedge Gate Valves will be free from defects in material and workmanship under normal and customary use and maintenance for a period of ten (10) years from the date of purchase, provided the hydrant is installed and maintained according to M&H Valve instructions, and applicable codes. The foregoing warranty does not cover failure of any part or parts from external forces, including but not limited to earthquake, vandalism, vehicular or other impact, application of excessive torque to the operating mechanism or frost heave.

Should any M&H Valve Company part or parts fail to conform to the foregoing warranty, M&H Valve shall, upon prompt written notice thereof, repair, or replace, F.O.B. point of manufacture, such defective part or parts. Purchaser shall, if requested, return the part or parts to M&H Valve, transportation prepaid. Purchaser shall bear all responsibility and expense incurred for removal, reinstallation and shipping in connection with any part supplied under the foregoing warranty.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS. IN NO EVENT SHALL M&H VALVE COMPANY BE RESPONSIBLE OR LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL LOSSES, DAMAGES OR EXPENSES.

September 1, 2012 / C515 Gate Valves

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	HOLD DOWN HEX BOLT	304 STAINLESS STEEL	ASTM F593C
2	HOLD DOWN BOLT FLAT WASHER	304 STAINLESS STEEL	ASTM F593C
3	OPERATING NUT OR HANDWHEEL	CAST IRON	ASTM A126 CLASS B
4	BOLTS/NUTS (STUFFING BOX)	304 STAINLESS STEEL	ASTM F593C / F594
5	STUFFING BOX/FOLLOWER PLATE	DUCTILE IRON	ASTM A536 70-50-05
6	O-RING (STEM) QTY=3	EPDM	-----
7	O-RING (STUFFING BOX)	EPDM	-----
8	THRUST WASHER BEARING	DELIN	-----
9	STEM (AWWA GRADE C)	BRONZE	ASTM B763 C99500
10	HEX HEAD BOLTS & NUTS	304 STAINLESS STEEL	ASTM F593C / F594
11	COVER/BONNET	DUCTILE IRON	ASTM A536 70-50-05
12	STEM NUT (AWWA GRADE A)	BRONZE	ASTM C87850
13	WEDGE/DISC/GATE	DUCTILE IRON (EPDM COATED)	ASTM A536 70-50-05
14	O-RING (COVER)	EPDM	-----
15	BODY (ALL TYPES)	DUCTILE IRON	ASTM A536 70-50-05
16	OPTIONAL POST PLATE (3"-12")	DUCTILE IRON	ASTM A536 70-50-05
17	PIPE PLUG (OPTIONAL)	GALVANIZED STEEL	-----



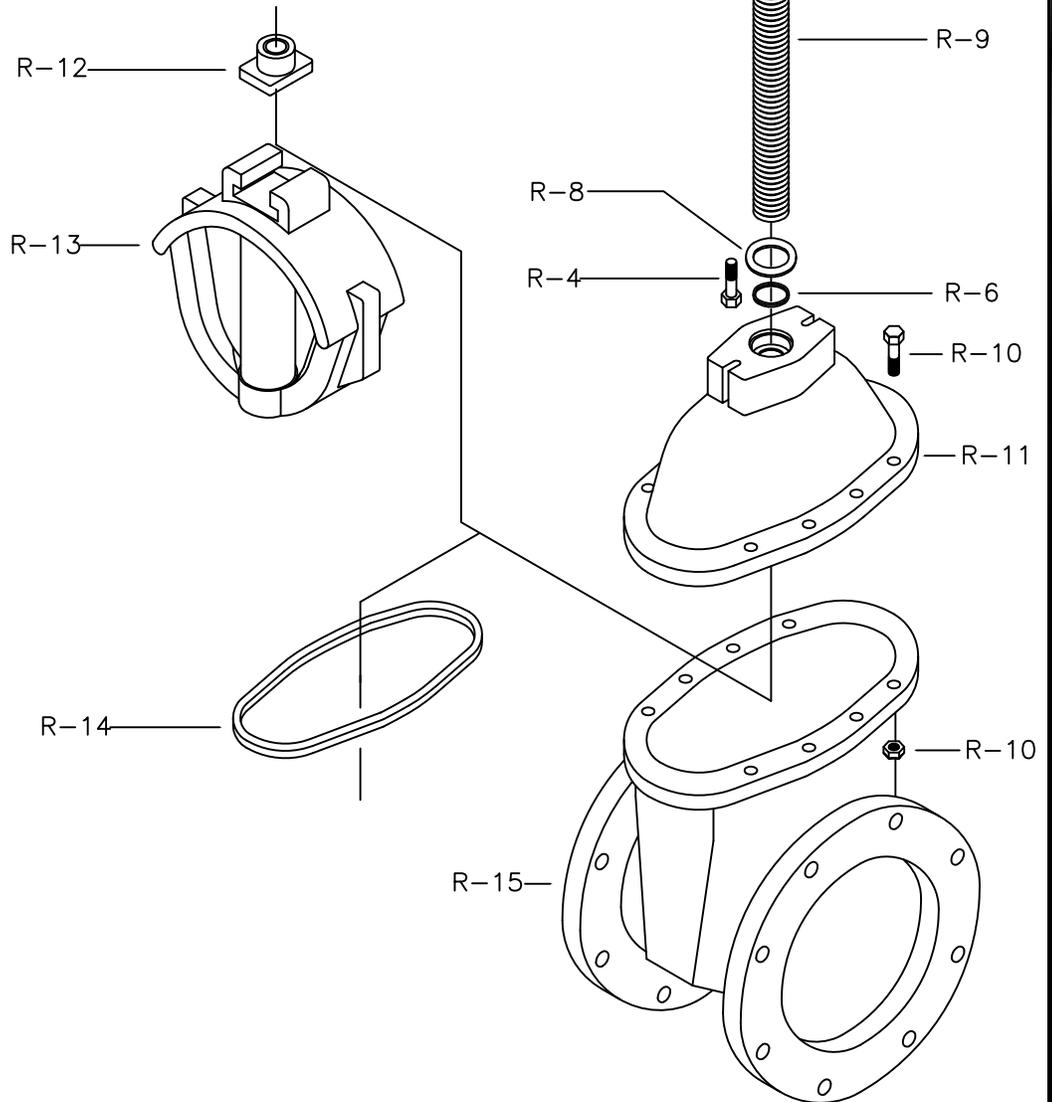
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: CTJ
DATE: 7/24/19
DWG. NO.
7000-EPDM

4" THRU 12"
RESILIENT SEAT GATE VALVE
C515-NRS-STYLE 7000
VALVE ASSEMBLY/MATERIAL LIST

ITEM	QTY.	DESCRIPTION	MATERIAL
R-1	1	HOLD DOWN HEX BOLT	304 STAINLESS STEEL
R-2	1	HOLD DOWN BOLT FLAT WASHER	304 STAINLESS STEEL
R-3	1	OPERATING NUT OR HANDWHEEL	CAST IRON
R-4	2	BOLTS/NUTS (STUFFING BOX)	304 STAINLESS STEEL
R-5	1	STUFFING BOX/FOLLOWER PLATE	DUCTILE IRON
R-6	3	O-RING (STEM)	EPDM
R-7	1	O-RING (STUFFING BOX)	EPDM
R-8	1	THRUST WASHER (2" & 2 1/2")	DELTRIN
	2	THRUST WASHER (3"-16")	DELTRIN
R-9	1	STEM	BRONZE
R-10	4	HEX HEAD BOLTS/NUTS (2"-6")	304 STAINLESS STEEL
	8	HEX HEAD BOLTS/NUTS (8"-16")	304 STAINLESS STEEL
R-11	1	COVER/BONNET	DUCTILE IRON
R-12	1	STEM NUT	BRONZE
R-13	1	WEDGE/DISC/GATE	DUCTILE IRON (EPDM COATED)
R-14	1	O-RING (COVER)	EPDM
R-15	1	BODY (ALL TYPES)	DUCTILE IRON
*R-16	1	OPTIONAL POST PLATE (3"-12")	DUCTILE IRON
R-17	1	PIPE PLUG (OPTIONAL)	GALVANIZED STEEL

*NOT SHOWN—REPLACES PART #5



M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 2/09/16
DWG. NO.
7000EV

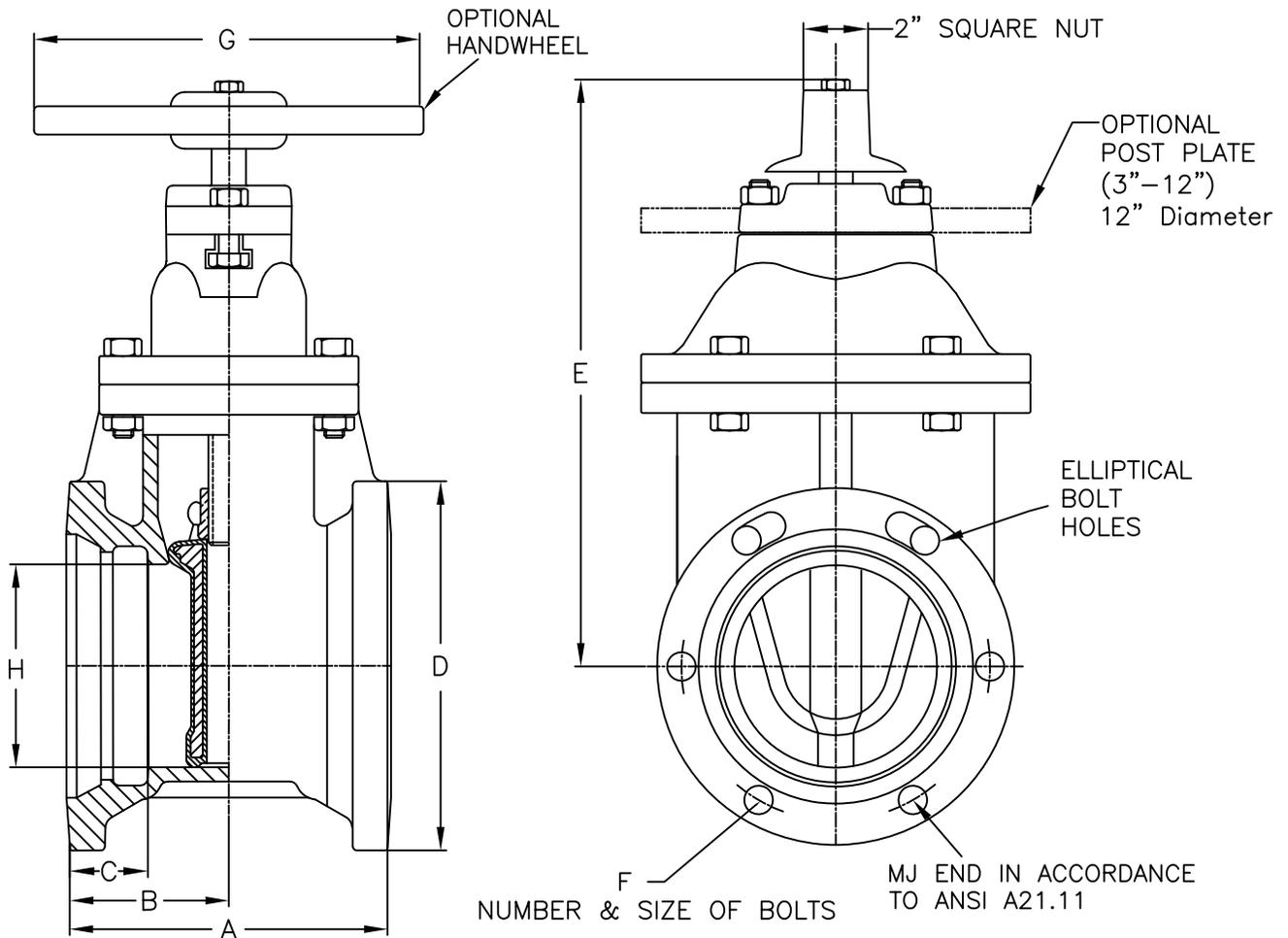
2" THRU 12"
RESILIENT SEAT GATE VALVE
C515-NRS-STYLE 7000
ASSEMBLY EXPLOSION



COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515

7571
7571-HW
7571-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE (3"-12")



ELLIPTICAL BOLT HOLE DESIGN ALLEVIATES THE NEED FOR ANTI-ROTATIONAL BOLTS

VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT 2" NUT
**2	8 1/4	4 1/8	2 1/2	4 1/2	10 7/8	4-5/8	7 1/4	2	25
**2 1/2	—	—	—	—	—	—	—	—	—
**3	8 1/2	4 3/4	2 1/2	7 3/4	12 3/8	4-5/8	10	3	40
4	9 1/2	4 3/4	2 1/2	9 1/8	14 3/4	4-3/4	10	4 1/4	66
6	10 1/2	5 1/4	2 1/2	11 1/8	19	6-3/4	12	6 1/4	107
8	13 1/8	6 9/16	2 1/2	13 3/4	22 1/2	6-3/4	14	8 1/4	159
10	15 1/2	7 3/4	2 1/2	15 3/4	26 1/2	8-3/4	18	10 1/4	281
12	16	8	2 5/8	18	30	8-3/4	18	12 1/4	353

HANDWHEEL--ADD 1# (2" - 2 1/2"), 6.5# (3"-4"), 7#(6"), 10#(8"), 16#(10" & 12")

INDICATOR POST PLATE ADD 16# (3"-12") ONLY

PALLET QUANTITIES 2" NUT: 46(2 1/2"), 36(3"), 30(4"), 24(6"), 10(8"), 6(10"), 6(12")

PALLET QUANTITIES HANDWHEEL: 36(2" & 2 1/2"), 30(3"), 40(4"), 18(6"), 8(8"), 6(10"), 4(12")

TURNS TO OPEN: 7 3/4(2"), 8(2 1/2"), 10(3"), 13 1/2(4"), 19 1/2(6"),

25 1/2(8"), 31 1/2(10"), 37 3/4(12")

**2" to 3" SIZES FULL WALL DUCTILE (PER AWWA C509 DIMENSIONS)

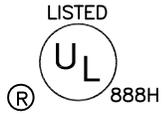
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ

DATE: 9/1/12

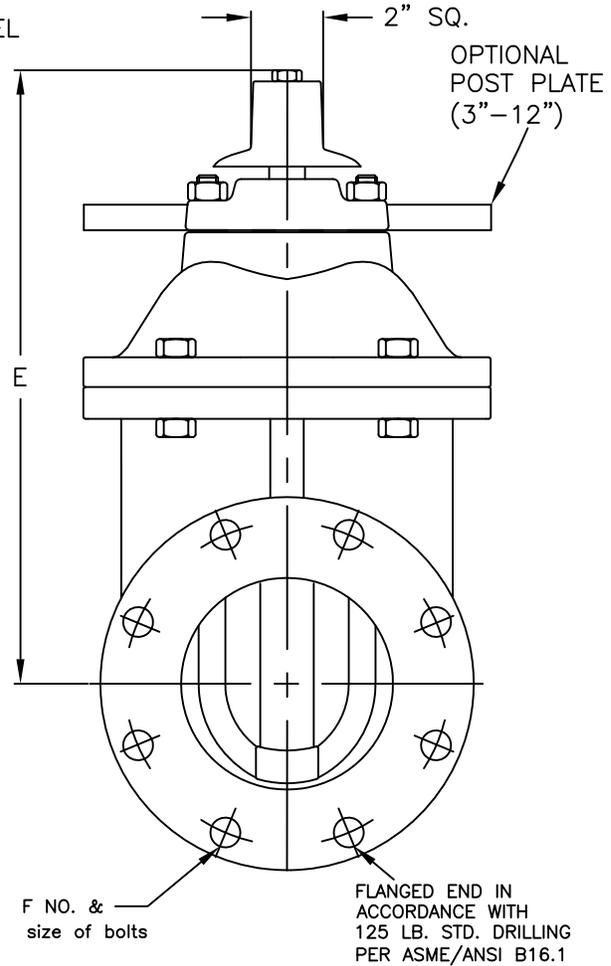
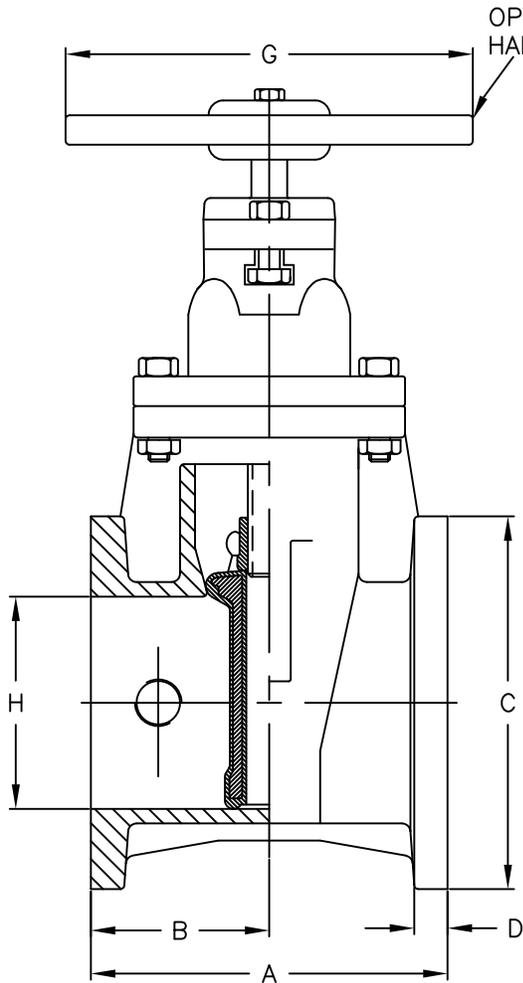
DWG. NO.
7571

2" THRU 12"
RESILIENT SEAT GATE VALVE
C515-STYLE 7571
MJ X MJ



A.W.W.A Standard C515

7561 WITH 2" SQUARE NUT
 7561-HW WITH HANDWHEEL
 7561-P WITH POST PLATE (3"-12")



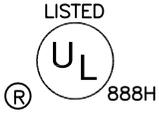
VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT 2" NUT
**2	7	3 1/2	6	5/8	10 7/8	4 5/8	7 1/4	2	26
**2 1/2	7 1/2	3 3/4	7	11/16	11 3/8	4 5/8	7 1/4	2 1/2	34
**3	8	4	7 1/2	3/4	12 3/8	4 5/8	10	3	38
4	9	4 1/2	9	15/16	14 3/4	8 5/8	10	4 1/4	75
6	10 1/2	5 1/4	11	1	19	8 3/4	12	6 1/4	120
8	11 1/2	5 3/4	13 1/2	1 1/8	22 1/2	8 3/4	14	8 1/4	185
10	13	6 1/2	16	1 3/16	26 1/2	12 7/8	18	10 1/4	331
12	14	7	19	1 1/4	30	12 7/8	18	12 1/4	523

NOTE: 3" AND BELOW MANUFACTURED TO C509 SPEC, BUT MADE OF DUCTILE IRON
 *HANDWHEEL--ADD 1# (2" - 2 1/2"), 6.5# (3"-4"), 7#(6"), 10#(8"), 16#(10" & 12")
 *INDICATOR POST PLATE ADD 16# (3"-12") ONLY
 *PALLET QUANTITIES 2" NUT: 46(2 1/2"), 30(3"), 40(4"), 21(6"), 8(8"), 6(10"), 4(12")
 *PALLET QUANTITIES HANDWHEEL: 36(2" & 2 1/2"), 30(3"), 40(4"), 21(6"), 8(8"), 6(10"), 4(12")
 *TURNS TO OPEN: 7 3/4(2"), 8(2 1/2"), 10(3"), 13 1/2(4"), 19 1/2(6"), 25 1/2(8"), 31 1/2(10"), 37 3/4(12")
 **2" and 2 1/2" not included in AWWA C515 3" to C509 spec but ductile iron

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 7/1/05
 DWG. NO. 7561

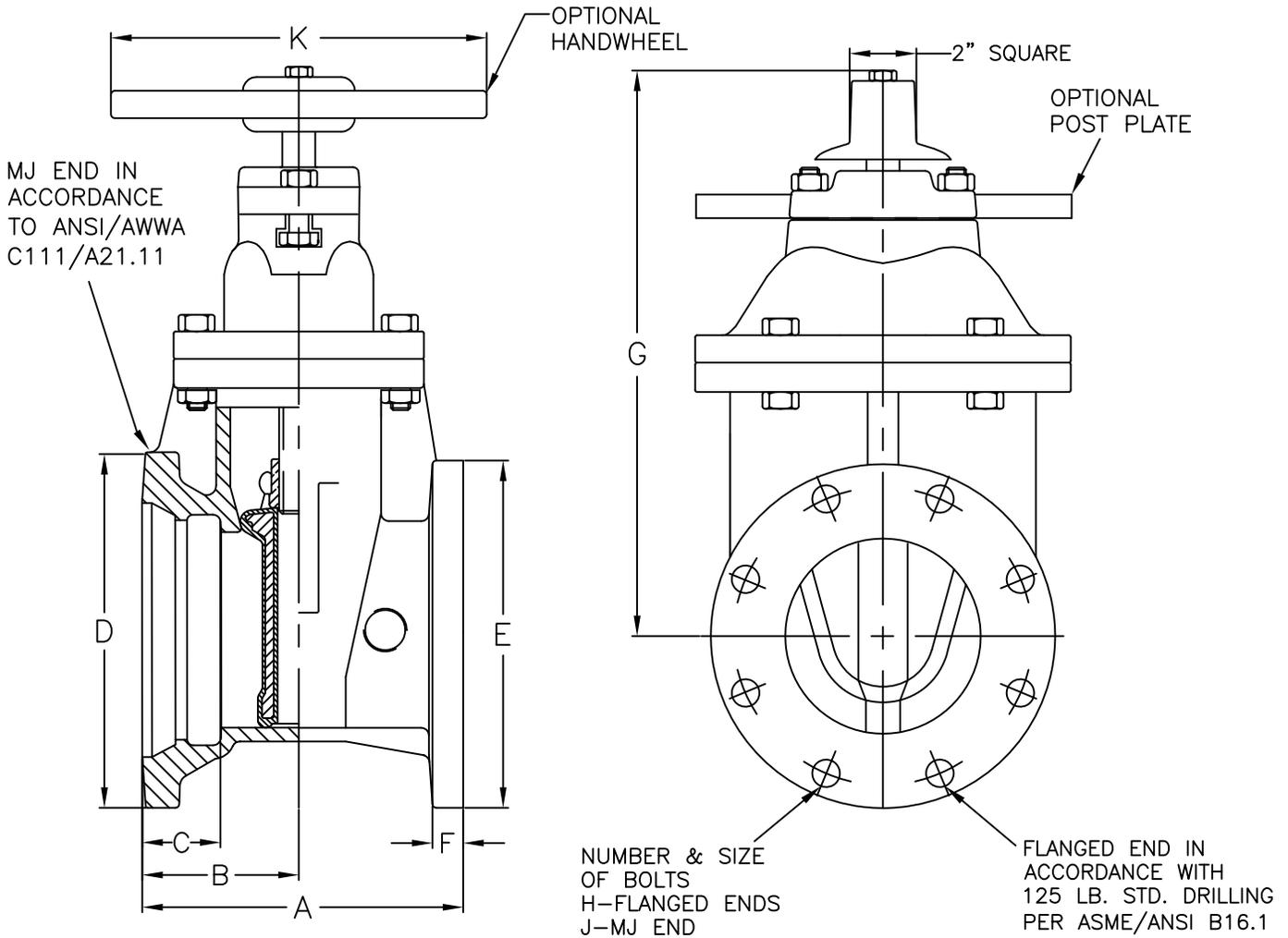
4" THRU 12"
 RESILIENT SEAT GATE VALVE
 C515-STYLE 7561
 FLANGED ENDS



A.W.W.A Standard C515

7572
7572-HW
7572-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE



VALVE SIZE	A	B	C	D	E	F	G	H	J	K	WEIGHT 2" NUT
**3	8 1/4	4 1/4	2 1/2	7 3/4	7 1/2	3/4	12 3/8	4-5/8	4-5/8	10	38
4	9 1/4	4 3/4	2 1/2	9 1/8	9	15/16	14 3/4	8-5/8	4-3/4	10	75
6	10 1/2	5 1/4	2 1/2	11 3/8	11	1	19	8-3/4	6-3/4	12	120
8	12 5/16	6 9/16	2 1/2	13 3/4	13 1/2	1 1/8	22 1/2	8-3/4	6-3/4	14	185
10	14 1/4	7 3/4	2 1/2	15 3/4	16	1 3/16	26 1/2	12-7/8	8-3/4	18	331
12	15	8	2 5/8	18	19	1 1/4	30	12-7/8	8-3/4	18	523

NOTE: 3" MANUFACTURED TO C509 SPEC, BUT MADE OF DUCTILE IRON
 *HANDWHEEL--ADD 6.5# (3"-4"), 7#(6"), 10#(8"), 16#(10" & 12")
 *INDICATOR POST PLATE ADD 16# (3"-12") ONLY
 *PALLET QUANTITIES 2" NUT: 30(3"), 40(4"), 21(6"), 8(8"), 6(10"), 4(12")
 *PALLET QUANTITIES HANDWHEEL: 30(3"), 40(4"), 21(6"), 8(8"), 6(10"), 4(12")
 *TURNS TO OPEN: 10(3"), 13 1/2(4"), 19 1/2(6"), 25 1/2(8"), 31 1/2(10"), 37 3/4(12")
 **3" to C509 spec but ductile iron

M&H VALVE COMPANY ANNISTON, ALABAMA A DIVISION OF MCWANE INC.	DWN: TRIJ	3" THRU 12" RESILIENT SEAT GATE VALVE C515-STYLE 7572 FLANGE X MJ
	DATE: 7/1/05	
	DWG. NO. 7572	

LISTED



888H



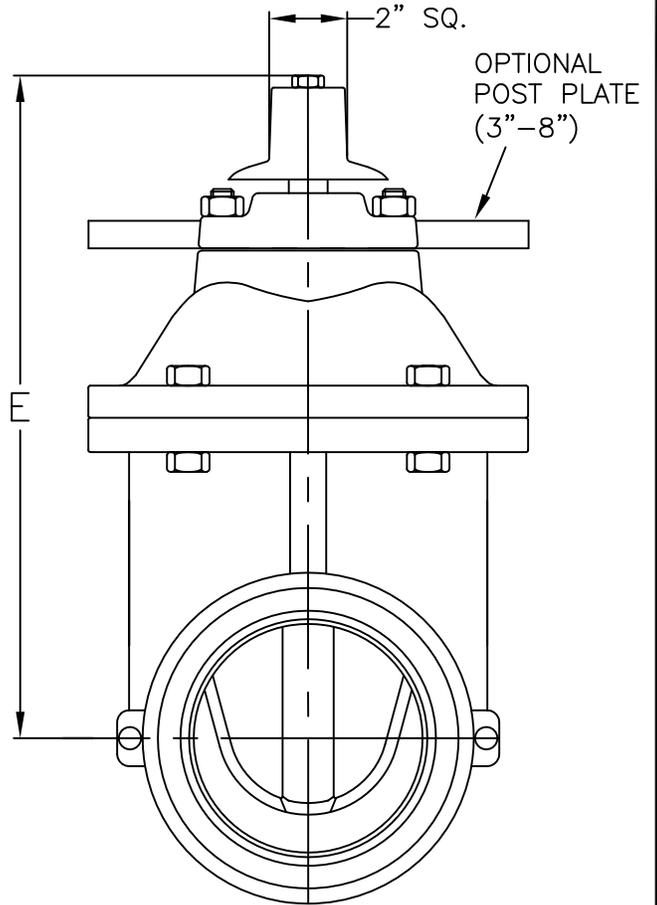
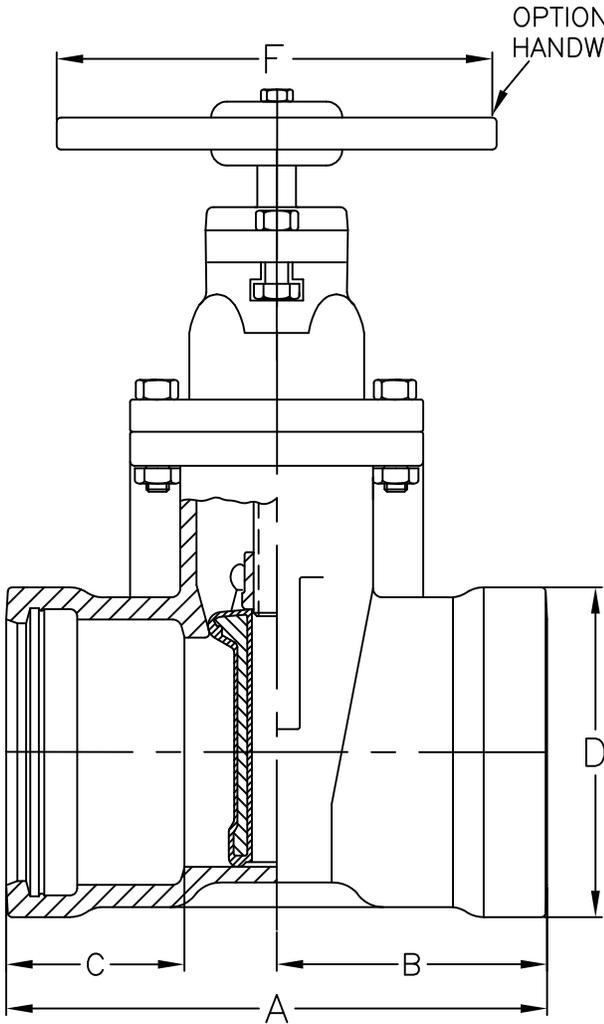
APPROVED



A.W.W.A Standard C515

7597
7597-HW
7597-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE (3"-8")



VALVE SIZE	A	B	C	D	E	F	WEIGHT 2" NUT
2	10	5	3 1/2	3 1/2	10 7/8	7 1/4	26
2 1/2	10 3/4	5 3/8	3 3/4	4 3/8	11 3/8	7 1/4	30
3	11 5/8	5 13/16	4 1/6	5 1/8	12 3/8	10	60
4	13 1/2	6 3/4	4 1/2	6 3/16	14 3/4	10	93
6	15 3/4	7 7/8	5 3/8	8 1/2	19	12	115
8	16 1/4	8 1/8	5 3/8	10 1/2	22 1/2	14	173

NOTE: 3" AND BELOW MANUFACTURED TO C509 SPEC, BUT MADE OF DUCTILE IRON
 *HANDWHEEL--ADD 1# (2" - 2 1/2"), 6.5# (3"-4"), 7#(6"), 10#(8")
 *INDICATOR POST PLATE ADD 16# (3"-8") ONLY
 *PALLET QUANTITIES 2" NUT: 46(2 1/2"), 30(3"), 40(4"), 21(6"), 8(8")
 *PALLET QUANTITIES HANDWHEEL: 36(2" & 2 1/2"), 30(3"), 40(4"), 21(6"), 8(8")
 *TURNS TO OPEN: 7 3/4(2"), 8(2 1/2"), 10(3"), 13 1/2(4"), 19 1/2(6"), 25 1/2(8")

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 7/1/05
DWG. NO.
7597

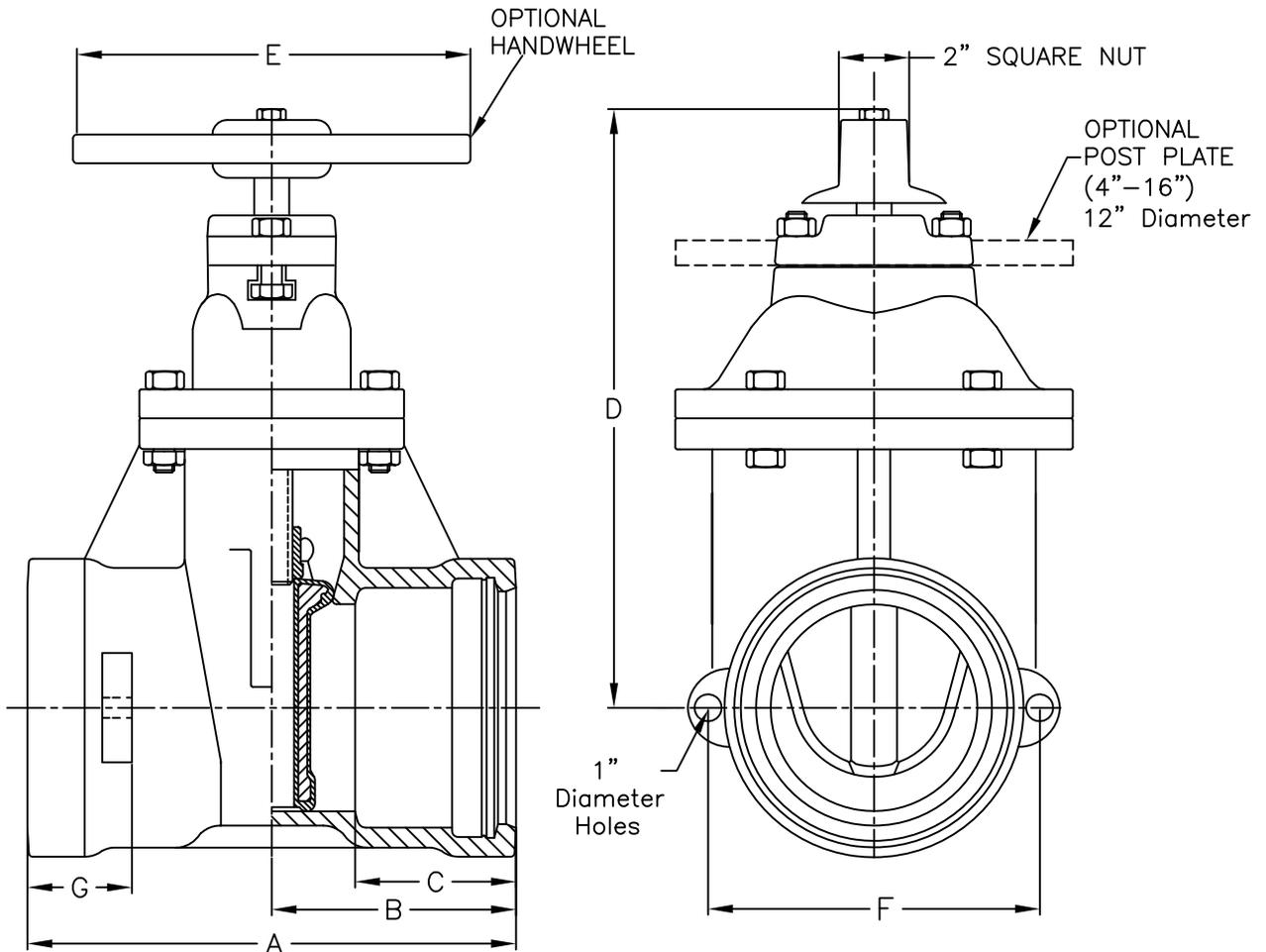
2" THRU 8"
RESILIENT SEAT GATE VALVE
C515-STYLE 7597
PUSH-ON X PUSH-ON-(PVC/SDR)



COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515

7901
7901-HW
7901-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE
(4"-16")



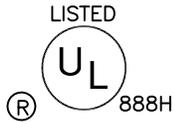
VALVE SIZE	A	B	C	D	E	F	G	WEIGHT 2" NUT
4	13 1/4	6 5/8	4.34	14 3/4	10	8 3/16	3 3/4	87
6	14 3/4	7 3/8	4.75	19	12	10 7/8	3 3/4	146
8	17 1/8	8 9/16	5.70	22 1/2	14	12 7/8	4 1/2	214
10	19 3/8	9 11/16	6.19	26 1/2	18	15 15/16	5 1/8	394
12	20 7/8	10 7/16	6.19	30	18	18 7/16	5 3/8	505
14	21	10 1/2	5.00	38 3/4	26	22 5/16	2 1/2	850
16	24 1/16	12 1/32	6.78	37 3/4	26	22 15/32	2 1/2	1100

HANDWHEEL--ADD 6.5# (4"), 7#(6"), 10#(8"), 16#(10", 12", 16")
 INDICATOR POST PLATE ADD 16# (4"-12",16) ONLY
 PALLET QUANTITIES 2" NUT: 30(4"), 24(6"), 10(8"), 6(10"), 6(12")
 PALLET QUANTITIES HANDWHEEL: 40(4"), 18(6"), 8(8"), 6(10"), 4(12")
 TURNS TO OPEN: 13 1/2(4"), 19 1/2(6"), 25 1/2(8"),
 31 1/2(10"), 37 3/4(12"), 50(16")

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
7901

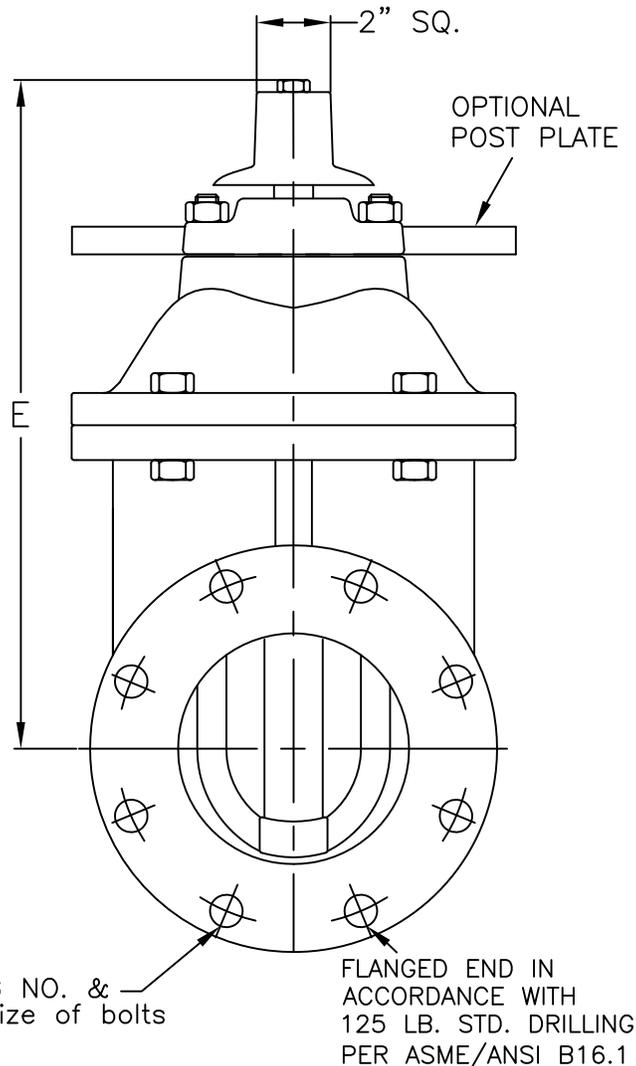
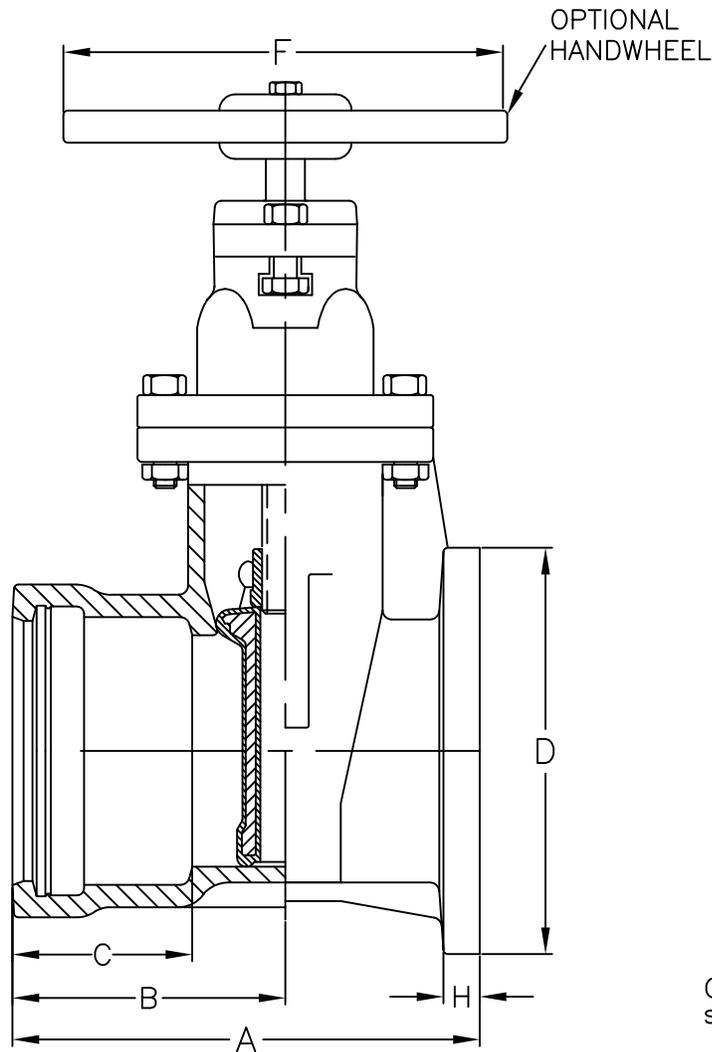
4" THRU 16"
RESILIENT SEAT GATE VALVE
C515-STYLE 7901
PUSH-ON X PUSH-ON (TYTON)
(FOR DUCTILE IRON / C900 PIPE)



A.W.W.A Standard C515

7902
 7902-HW
 7902-P

WITH 2" SQUARE NUT
 WITH HANDWHEEL
 WITH POST PLATE



VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT 2" NUT
4	11 1/8	6 5/8	4 5/16	9	14 3/4	10	8-5/8	15/16	100
6	12 5/8	7 3/8	4 3/4	11	19	12	8-3/4	1	160
8	14 5/16	8 9/16	5 11/16	13 1/2	22 1/2	14	8-3/4	1 1/8	240
10	16 3/16	9 11/16	6 3/16	16	26 1/2	18	12-7/8	1 3/16	340
12	17 7/16	10 7/16	6 3/16	19	30	18	12-7/8	1 1/4	500

- *HANDWHEEL--ADD 6.5# (4"), 7#(6"), 10#(8"), 16#(10" & 12")
- *INDICATOR POST PLATE ADD 16# (4"-12") ONLY
- *PALLET QUANTITIES 2" NUT: 40(4"), 21(6"), 8(8"), 6(10"), 4(12")
- *PALLET QUANTITIES HANDWHEEL: 40(4"), 21(6"), 8(8"), 6(10"), 4(12")
- *TURNS TO OPEN: 13 1/2(4"), 19 1/2(6"), 25 1/2(8"), 31 1/2(10"), 37 3/4(12")

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 7/1/05
 DWG. NO.
 7902

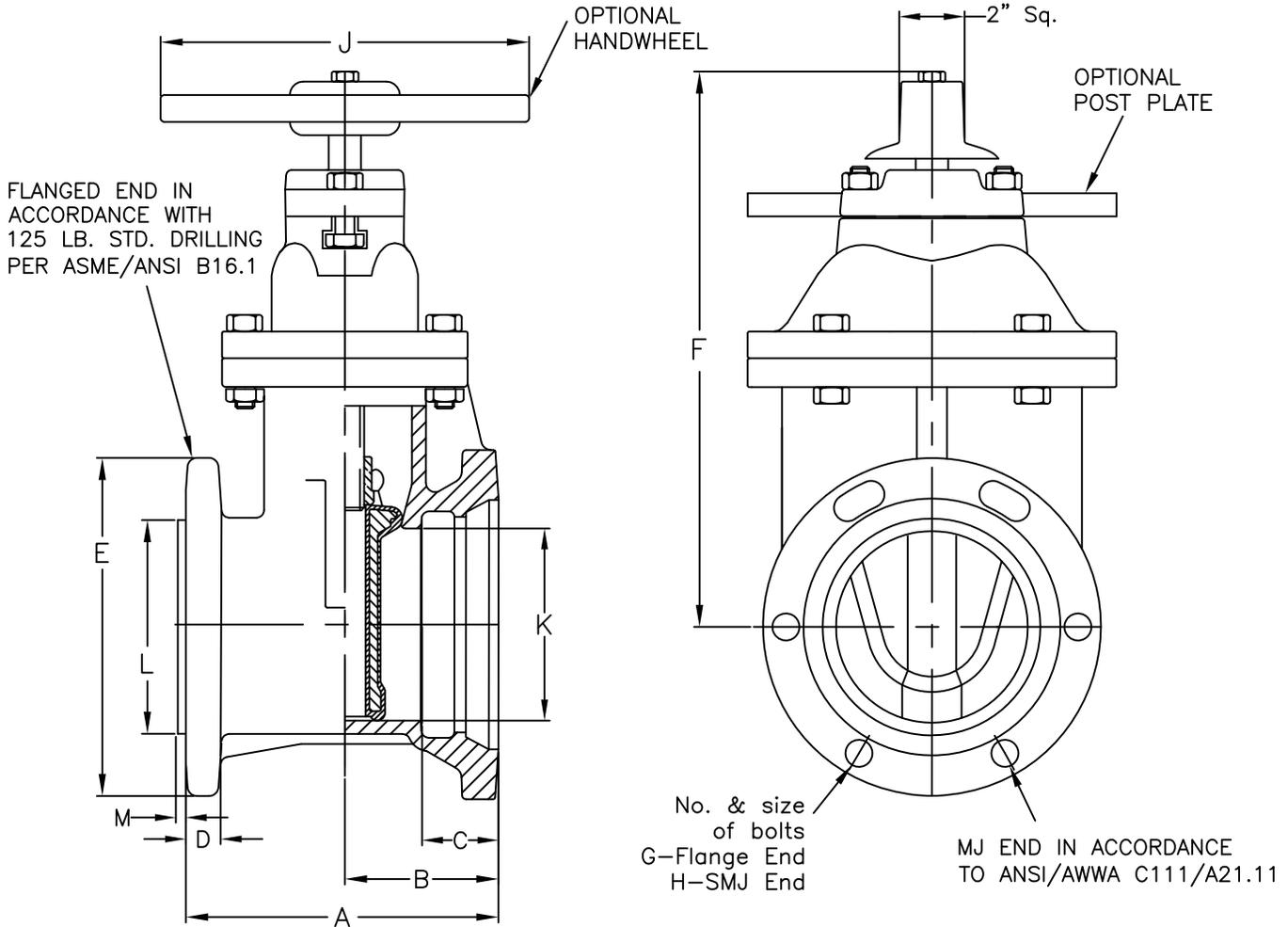
4" THRU 12"
 RESILIENT SEAT GATE VALVE
 C515-STYLE 7902
 PUSH-ON X FLANGE (TYTON)
 (FOR DUCTILE IRON / C900 PIPE)



A.W.W.A Standard C515

7950
7950-HW
7950-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE



ELLIPTICAL BOLT HOLE DESIGN ALLEVIATES THE NEED FOR ANTI-ROTATIONAL BOLTS

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	WEGHT 2" NUT
3**	8 1/4	4 1/4	2 1/2	3/4	7 1/2	11 1/2	8-5/8	4-3/4	10	3 5/32	3 63/64	3/16	58
4	9 1/4	4 3/4	2 1/2	15/16	9	14 3/4	8-5/8	4-3/4	10	4 1/4	4 63/64	3/16	104
6	10 1/2	5 1/4	2 1/2	1	11	19	8-3/4	6-3/4	12	6 1/4	6 63/64	1/4	120
8	13 1/4	7 1/2	2 1/2	1 1/8	13 1/2	22 1/2	8-3/4	6-3/4	14	8 1/4	8 63/64	1/4	204
10	14 7/8	8 3/8	2 1/2	1 3/16	16	26 1/2	12-7/8	8-3/4	18	10 1/4	10 63/64	1/4	300
12	15	8	2 5/8	1 1/4	19	30	12-7/8	8-3/4	18	12 1/4	12 63/64	1/4	394

EACH SIZE ACCOMODATES A FULL SIZE DIAMETER TAPPING CUTTER

** 3" CONSULT FACTORY FOR AVAILABILITY AND DETAILED SPEC---CURRENTLY NOT AVAILABLE

*HANDWHEEL---ADD 6.5# (3"-4"), 7#(6"), 10#(8"), 16#(10" & 12")

*INDICATOR POST PLATE ADD 16# (3"-12") ONLY

*PALLET QUANTITIES 2" NUT: 30(3"), 40(4"), 21(6"), 8(8"), 6(10"), 4(12")

*PALLET QUANTITIES HANDWHEEL: 30(3"), 40(4"), 21(6"), 8(8"), 6(10"), 4(12")

*TURNS TO OPEN: 10(3"), 13 1/2(4"), 19 1/2(6"), 25 1/2(8"), 31 1/2(10"), 37 3/4(12")

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 7/1/05
DWG. NO.
7950

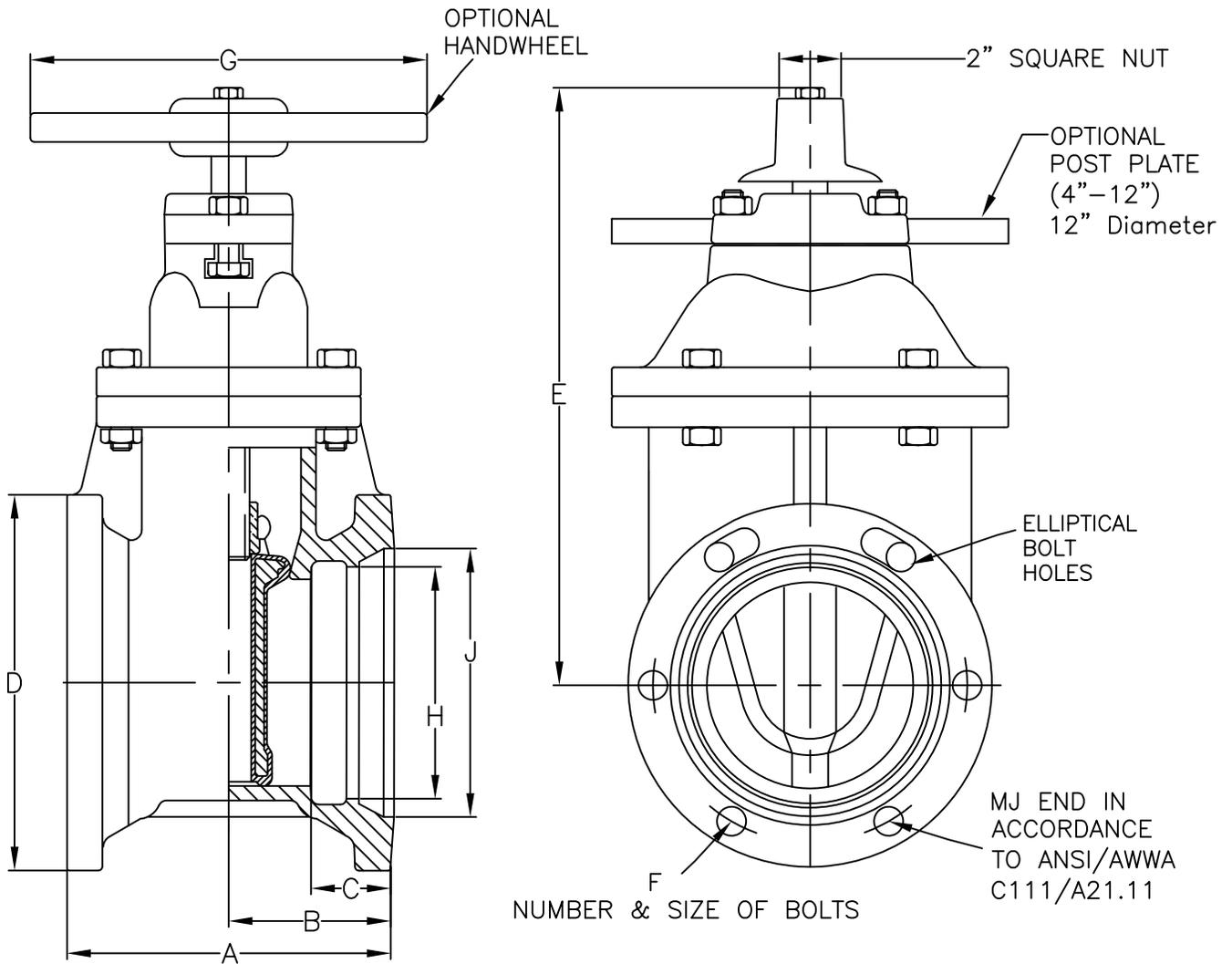
4" THRU 12"
RESILIENT SEAT GATE VALVE
C515-STYLE 7950
TAPPING VALVE---TAP X MJ



COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515

7576
7576-HW
7576-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE (4"-12")



ELLIPTICAL BOLT HOLE DESIGN ALLEVIATES THE NEED FOR ANTI-ROTATIONAL BOLTS

VALVE SIZE	A	B	C	D	E	F	G	H	J	WEIGHT 2" NUT
4	9 1/2	4 3/4	2 1/2	9 1/8	14 3/4	4-3/4	10	5.10	6.20	66
6	10 1/2	5 1/4	2 1/2	11 1/8	19	6-3/4	12	7.20	8.30	107
8	13 1/8	6 9/16	2 1/2	13 3/4	22 1/2	6-3/4	14	9.40	10.50	159
10	15 1/2	7 3/4	2 1/2	15 3/4	26 1/2	8-3/4	18	11.50	12.62	281
12	16	8	2 5/8	18	30	8-3/4	18	13.60	14.72	353

HANDWHEEL--ADD 6.5# (4"), 7#(6"), 10#(8"), 16#(10" & 12")

INDICATOR POST PLATE ADD 16# (4"-12") ONLY

PALLET QUANTITIES 2" NUT: 30(4"), 24(6"), 10(8"), 6(10"), 6(12")

PALLET QUANTITIES HANDWHEEL: 40(4"), 18(6"), 8(8"), 6(10"), 4(12")

TURNS TO OPEN: 13 1/2(4"), 19 1/2(6"), 25 1/2(8"), 31 1/2(10"), 37 3/4(12")

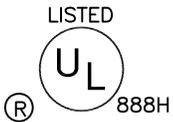
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ

DATE: 9/1/12

DWG. NO.
7576

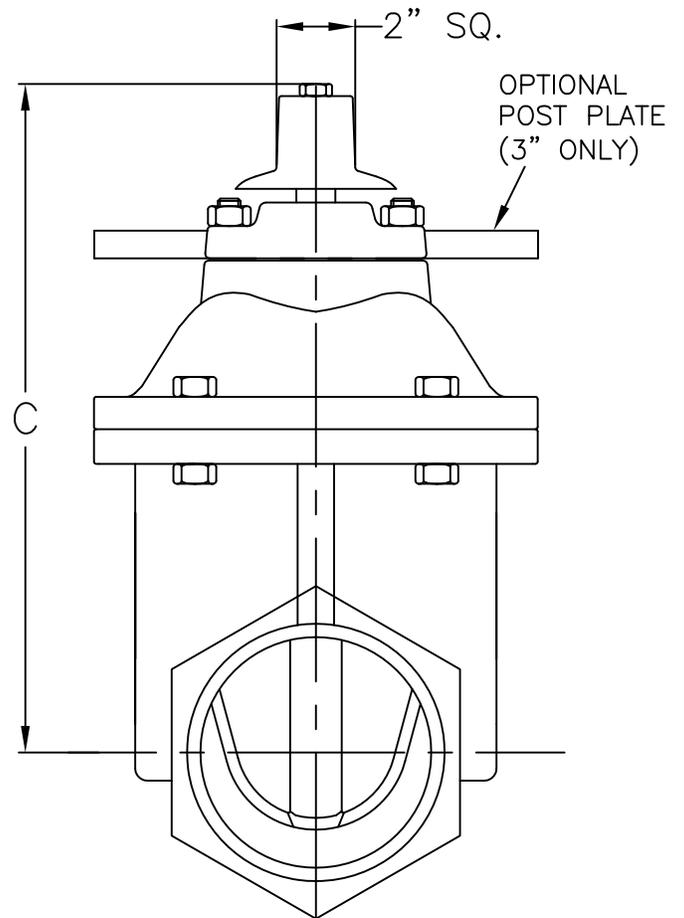
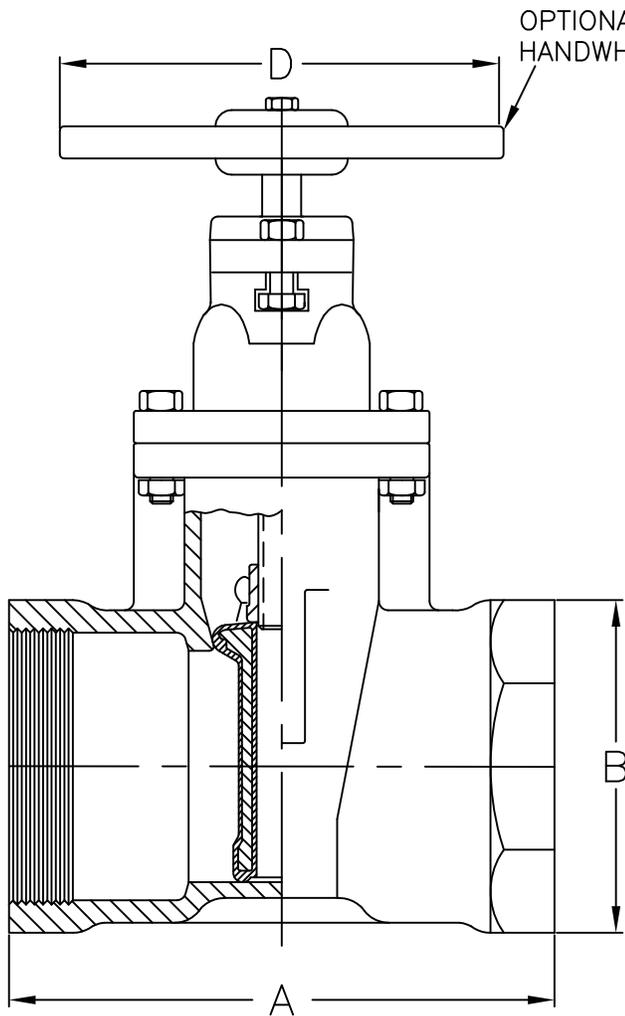
4" THRU 12"
RESILIENT SEAT GATE VALVE
C515-STYLE 7576
OVERSIZED MJ X MJ BELL
(CUTTING-IN JOINT) VALVE



A.W.W.A Standard C515

7057
 7057-HW
 7057-P

WITH 2" SQUARE NUT
 WITH HANDWHEEL
 WITH POST PLATE (3" ONLY)



VALVE SIZE	A	B	C	D	WEIGHT 2" NUT
2	5 1/4	4 1/8	10 7/8	7 1/4	33
2 1/2	7	5 3/16	11 3/8	7 1/4	44
3	7 1/8	5 13/16	12 3/8	10	50

NOTE: Threaded End Valves are not covered under C515.

*HANDWHEEL--ADD 1# (2" - 2 1/2"), 6.5# (3")

*INDICATOR POST PLATE ADD 16# (3") ONLY

*PALLET QUANTITIES 2" NUT: 46(2 1/2"), 30(3")

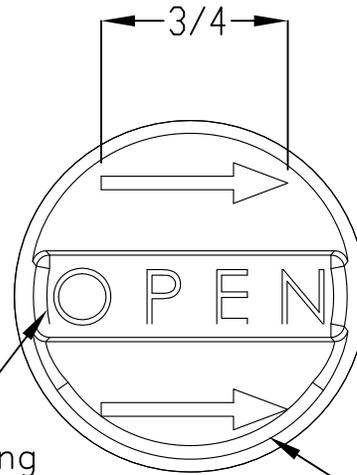
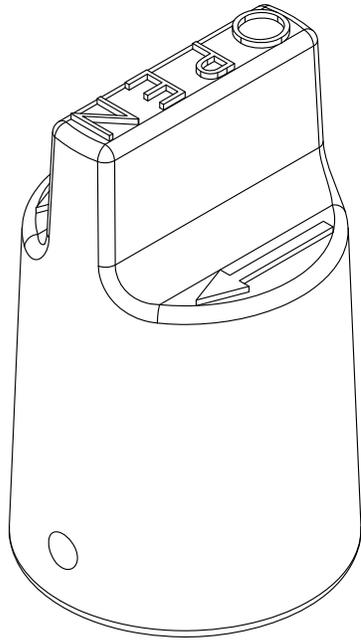
*PALLET QUANTITIES HANDWHEEL: 36(2" & 2 1/2"), 30(3")

*TURNS TO OPEN: 7 3/4(2"), 8(2 1/2"), 10(3")

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

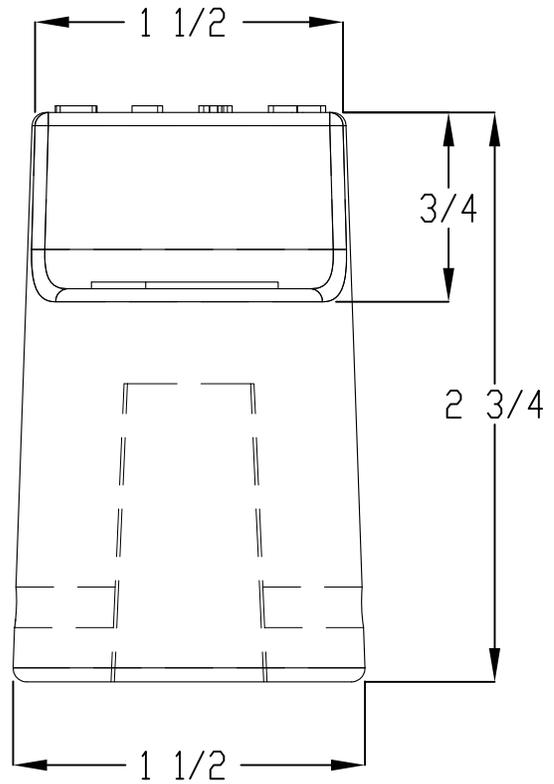
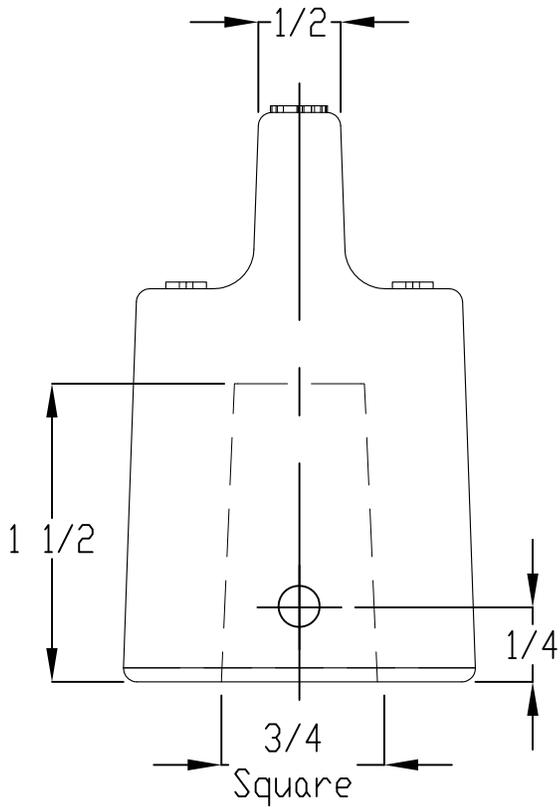
DWN: TRIJ
 DATE: 7/1/05
 DWG. NO.
 7057

2", 2 1/2", & 3"
 RESILIENT SEAT GATE VALVE
 NRS-STYLE 7057
 THREADED / SCREWED ENDS



1/4 Lettering
1/32 High

Appropriate arrow
is grounded off



T-Head Nut made of Ductile Iron, ASTM A536 65-45-12

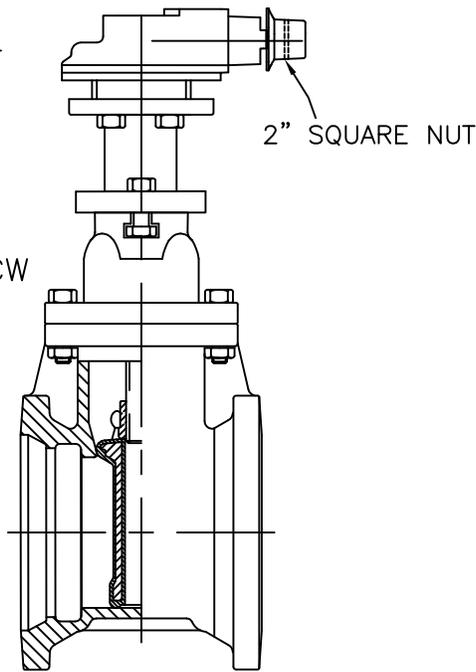
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
B-22424

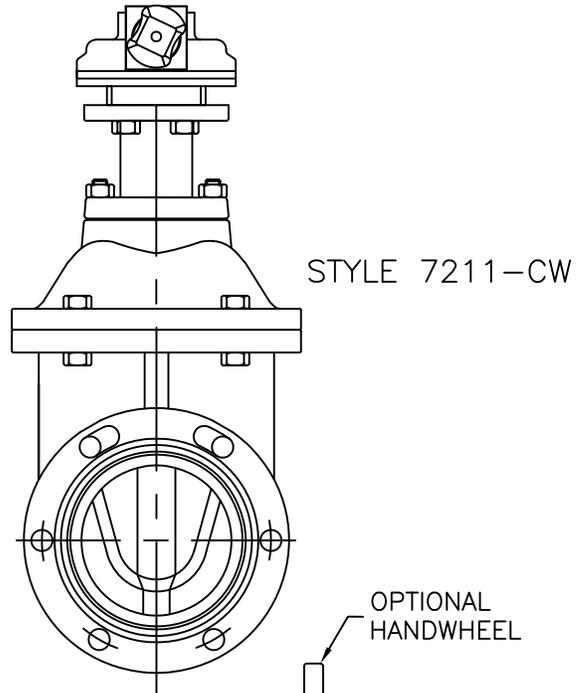
OPTIONAL T-HEAD NUT FOR
2", 2 1/2", 3"
RESILIENT SEAT GATE VALVES



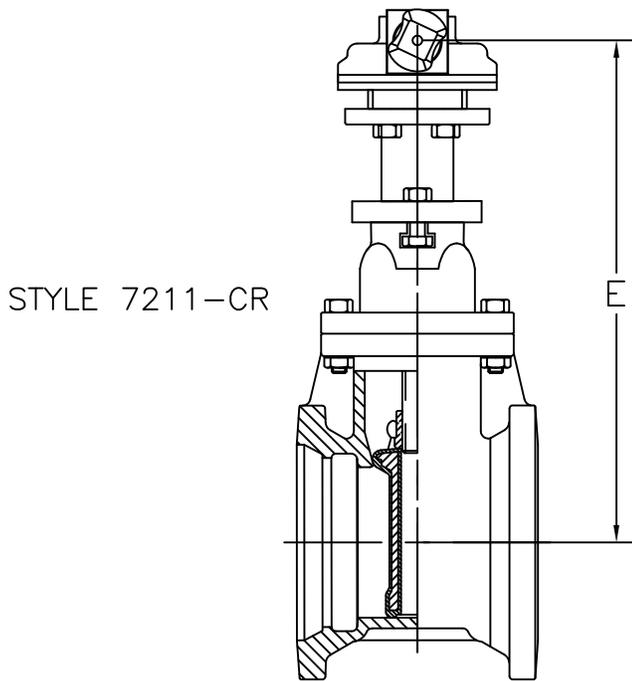
COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515



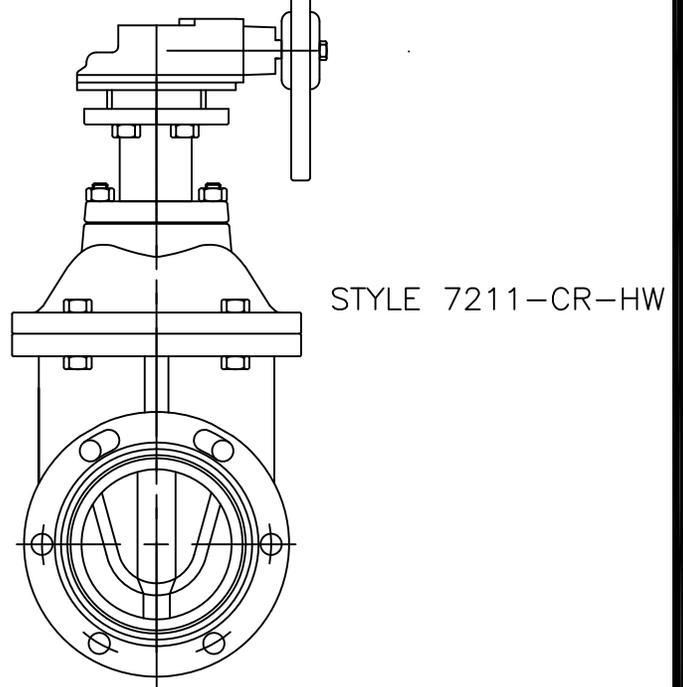
STYLE 7211-CW



STYLE 7211-CW



STYLE 7211-CR



STYLE 7211-CR-HW

VALVE SIZE	4	6	8	10	12
E	18	22 1/4	26 5/8	30 5/8	34 1/8

ALL 7211 MODELS COME IN ALL END CONNECTIONS
SEE C515 DRAWING "7000" OR C509 DRAWING 4067 FOR MATERIAL DETAILS
"W" & "R" IN STYLE NUMBER REPRESENTS OPERATOR POSITION
TURNS TO OPEN: 4"=13.5 6"=19.5 8"=25.5 10"=31.5 12"=37.75
MITRE BOX OPERATOR IS 1:1 GEAR RATIO

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

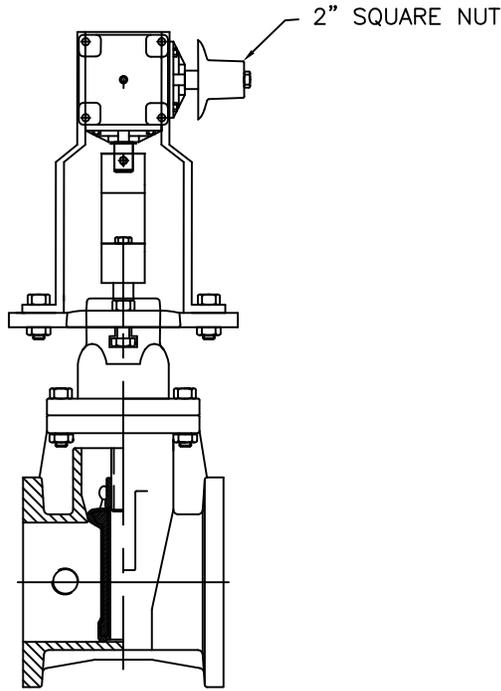
DWN: TRIJ
DATE: 9/1/12
DWG. NO.
7211-C

4" THRU 12"
RESILIENT SEAT GATE VALVE
C515-STYLE 7211-C
ENCLOSED MITRE BOX

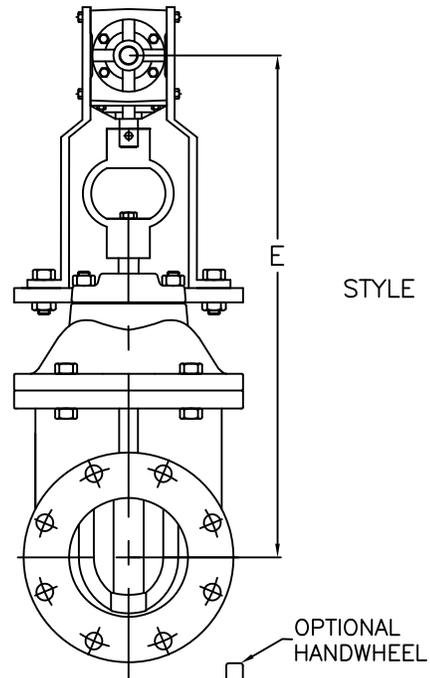


COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515

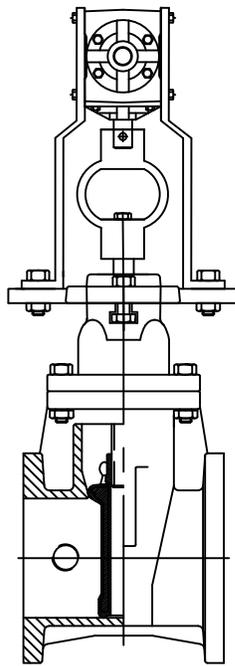
STYLE 7211-OW



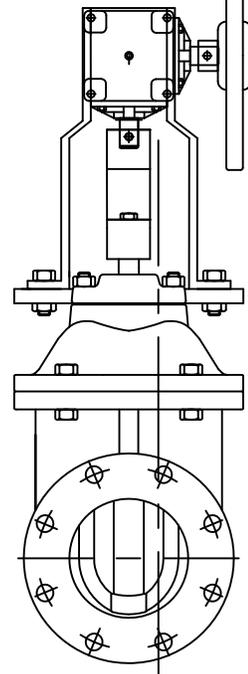
STYLE 7211-OW



STYLE 7211-OR



STYLE 7211-ORHW



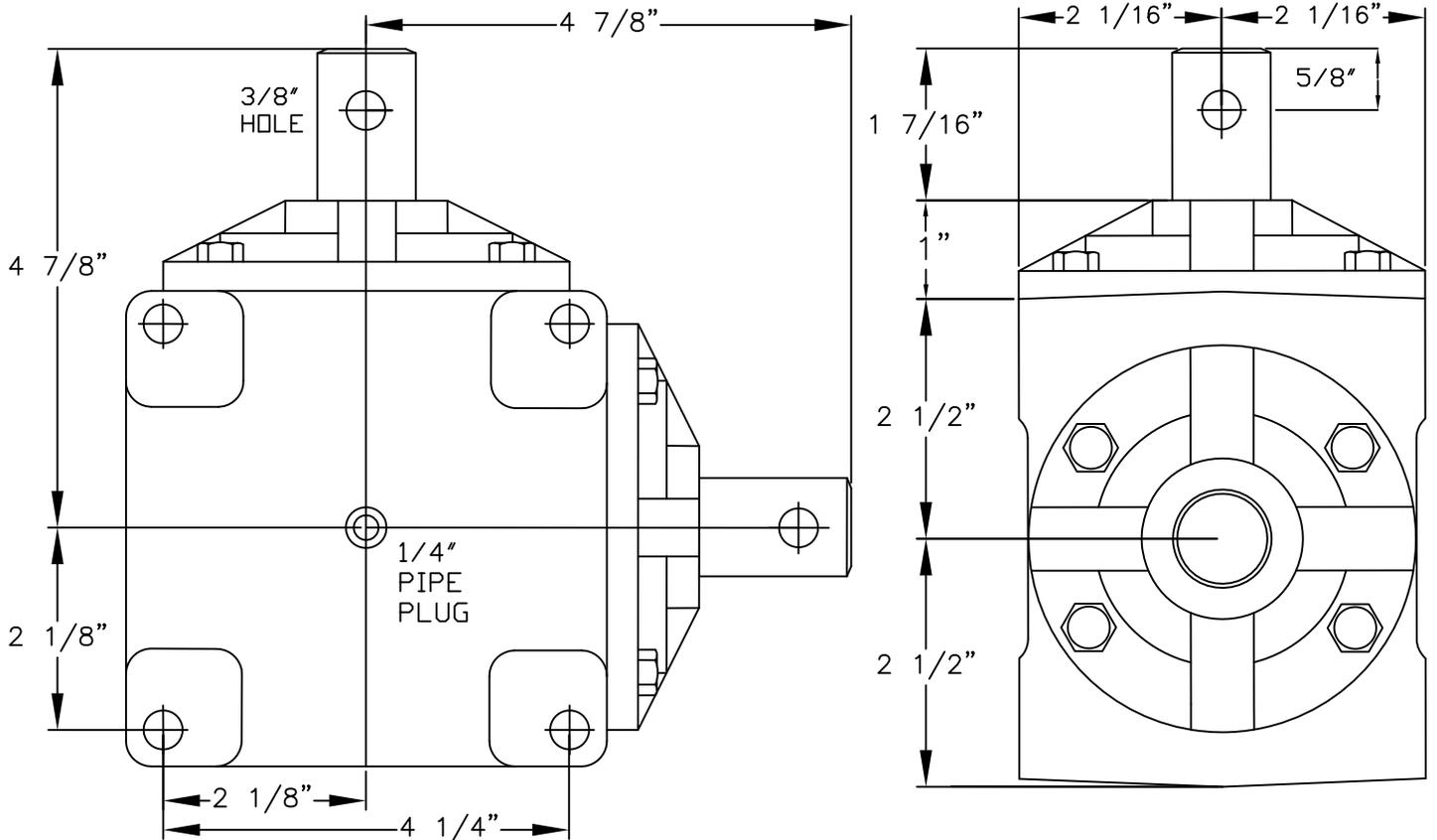
VALVE SIZE	3	4	6	8	10	12
E	21 1/4	23 5/8	27 7/8	31 3/8	35 3/8	38 7/8

ALL 7211 MODELS COME IN ALL END CONNECTIONS
 "W" & "R" IN STYLE NUMBER REPRESENTS OPERATOR POSITION
 TURNS TO OPEN: 3"=10 4"=13.5 6"=19.5 8"=25.5 10"=31.5 12"=37.75
 MITRE BOX OPERATOR IS 1:1 GEAR RATIO

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
7211-0

3" THRU 12"
RESILIENT SEAT GATE VALVE
C515-STYLE 7211-0
OPEN MITRE BOX



LUBRICATION/MAINTENANCE

Gear box is permanently lubricated. Bushings and thrust washers are Oilite Bronze material and gears are coated with Never-Seeze compound.

If and when disassembly of gear box is required, clean gears and recoat them with Never-Seeze compound. Using a paint brush (1 1/2"-2"), dip in compound and brush gear teeth, filling area between teeth and reassemble.

MATERIALS

Case and End Caps---Ductile Iron
 Shafts---Steel
 Gears---Powered Metal

STRUCTURAL SUPPORTS

Gear Boxes are supported by attaching structural supports to drilled and tapped holes provided in the box.

MAXIMUM TORQUE: 4500 in./LBS.

VENDOR

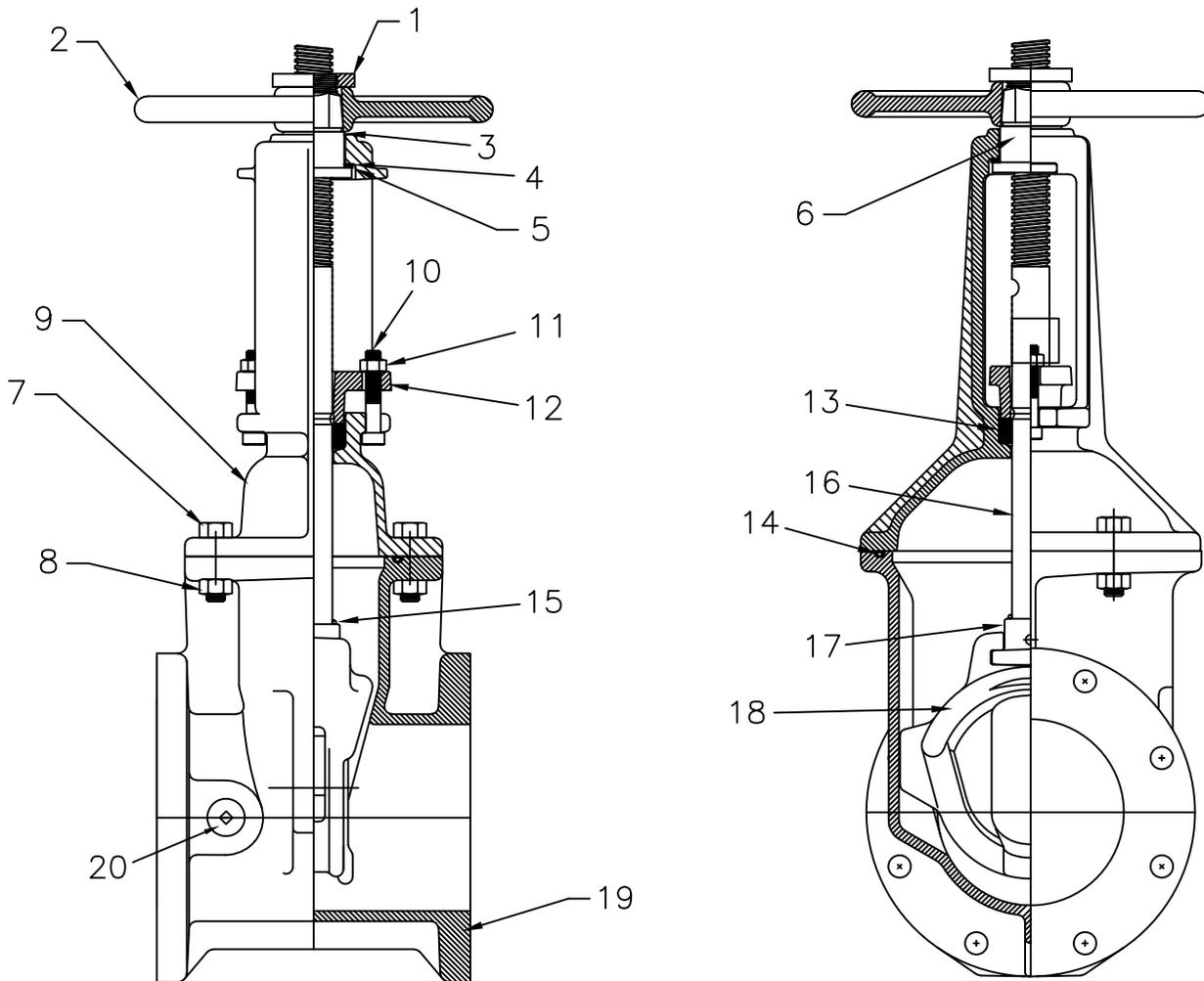
ROTO HAMMER COMPANY (Tulsa, Oklahoma)

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 9/1/12
 DWG. NO.
 335

3" THRU 12" RIGHT ANGEL GEAR BOX
 STYLE 211
 OPEN MITRE BOX DETAIL
 (1:1 RATIO)

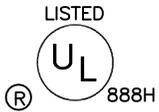
ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	HAND WHEEL HOLD DOWN NUT	BRONZE	ASTM B62
2	HAND WHEEL	CAST IRON	ASTM A126 CLASS B
3	UPPER THRUST WASHER (3"-12")	BRONZE	ASTM B36 CDA 260
4	LOWER THRUST WASHER	BRONZE	ASTM B36 CDA 260
5	LOWER THRUST WASHER	DELTRIN	-----
6	YOKE NUT / TOP STEM NUT	MANGANESE BRONZE	ASTM B584 C86700
7	BOLTS (COVER/YOKE)	304 STAINLESS STEEL	ASTM A307 GRADE B
8	NUTS (COVER/YOKE)	304 STAINLESS STEEL	ASTM A307 GRADE B
9	COVER/YOKE/BONNET	DUCTILE IRON	ASTM A536 70-50-05
10	HEX HEAD BOLTS (PACKING GLAND)	ZINC PLATED STEEL	ASTM A307 GRADE B
11	HEX HEAD NUTS (PACKING GLAND)	BRASS	COMMERCIAL
12	PACKING GLAND	DUCTILE IRON	ASTM A536 70-50-05
13	PACKING (3 PIECES)	SQUARE BRAIDED LUBRICATED FIBER	
14	O-RING (COVER/YOKE)	EPDM	-----
15	O-RING (STEM)	EPDM	-----
16	STEM	STAINLESS STEEL	ASTM A276 TYPE 304
17	STEM NUT / STEM HEAD	BRONZE	ASTM B806 C95400/C95500
18	WEDGE/DISC/GATE	DUCTILE IRON (EPDM COATED)	ASTM A536 70-50-05
19	BODY (ALL TYPES)	DUCTILE IRON	ASTM A536 70-50-05
20	PIPE PLUG (OPTIONAL)	GALVANIZED IRON	-----



M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

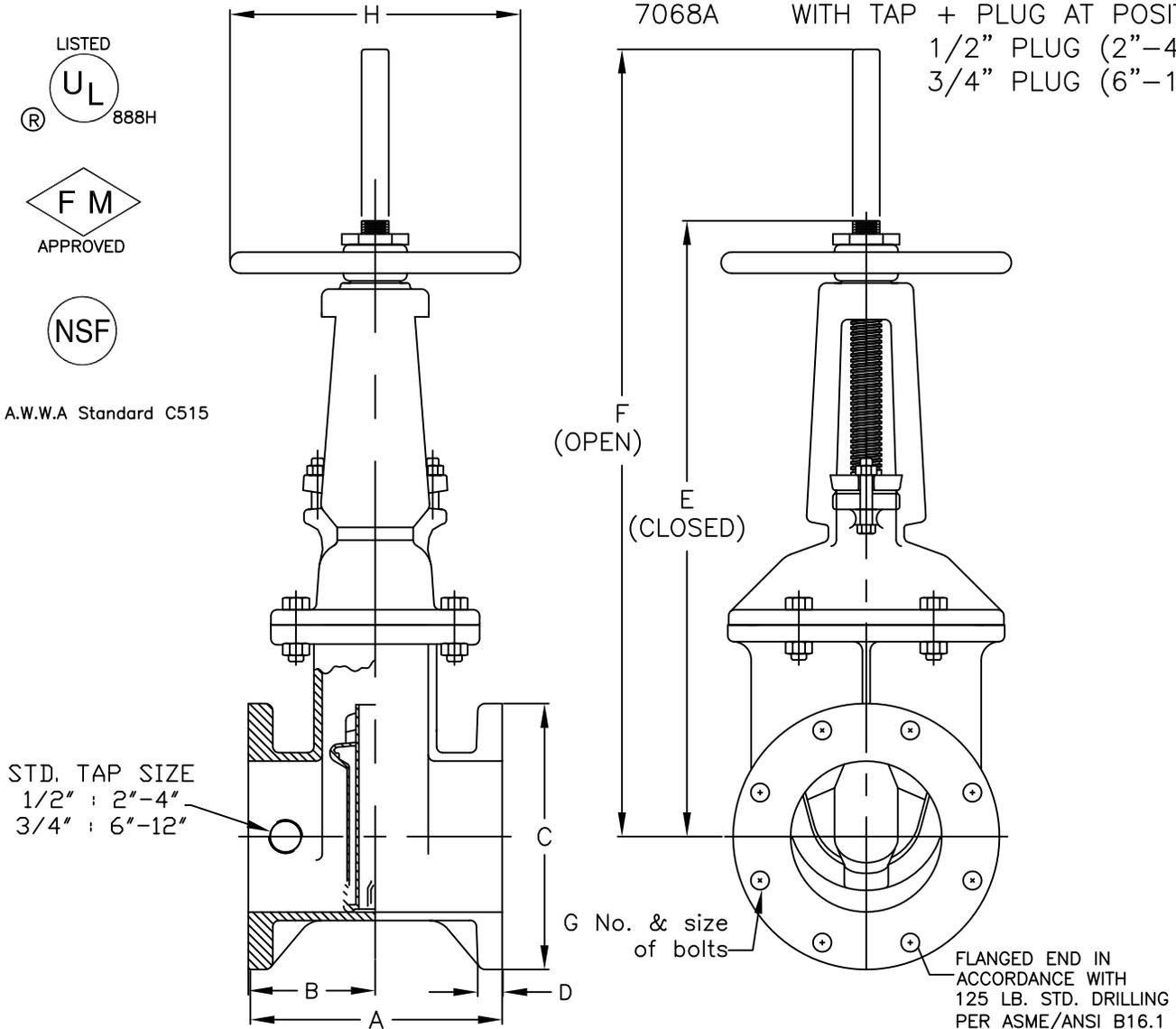
DWN: CTJ
DATE: 7/24/19
DWG. NO.
7068-EPDM

2" THRU 12"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7068
VALVE ASSEMBLY/MATERIAL LIST



A.W.W.A Standard C515

7068 WITH NO TAPS IN BODY
 7068A WITH TAP + PLUG AT POSITION "A"
 1/2" PLUG (2"-4")
 3/4" PLUG (6"-12")



VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT 2" NUT
2	7	3 1/2	6	11/16	12	10	4-5/8	7 1/4	SEE NOTE
2 1/2	7 1/2	3 3/4	7	11/16	13 7/8	16 3/8	4 5/8	7 1/4	52
3	8	4	7 1/2	3/4	15 5/8	18 7/8	4 5/8	10	68
4	9	4 1/2	9	15/16	18 1/4	22 3/4	8 5/8	10	94
6	10 1/2	5 1/4	11	1	23 3/4	30 1/8	8 3/4	12	157
8	11 1/2	5 3/4	13 1/2	1 1/8	29 1/4	37 3/4	8 3/4	14	239
10	13	6 1/2	16	1 3/16	35 3/8	45 3/4	12 7/8	18	320
12	14	7	19	1 1/4	40 5/8	53 1/8	12 7/8	18	425

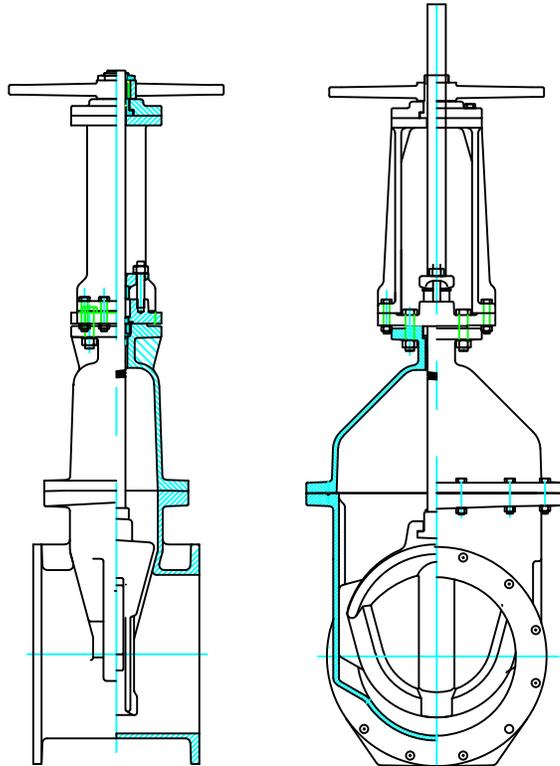
NOTE: 3" AND BELOW MANUFACTURED TO C509 SPEC, BUT MADE OF DUCTILE IRON
 NOTE: 2" CONSULT FACTORY FOR AVAILABILITY---AWAITING UL APPROVAL
 TURNS TO OPEN: 7 3/4(2"), 8(2 1/2"), 10(3"), 13 1/2(4"), 19 1/2(6"), 25 1/2(8"),
 31 1/2(10"), 37 3/4(12")

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 7/1/05
 DWG. NO.
 7068

2" THRU 12"
 RESILIENT SEAT OS&Y GATE VALVE
 C515-STYLE 7068
 FLANGED ENDS

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	HOLD DOWN NUT	BRONZE	ASTM B584 C83600
2	SQUARE KEY	COMMERCIAL STEEL	-----
3	TOP STEM NUT	BRONZE	ASTM B584 C83600
4	HANDWHEEL	CAST IRON	ASTM A126 Class B
5	HEX CAPSCREW	ZINC PLATED STEEL	ASTM A307 Grade B
6	ADAPTER	CAST IRON	ASTM A126 Class B
7	YOKE	CAST IRON	ASTM A126 Class B
8	STUD	ZINC PLATED STEEL	ASTM A307 Grade B
9	HEX NUT	BRONZE	ASTM B584 C83600
10	PACKING GLAND / FOLLOWER	CAST IRON	ASTM A126 Class B
11	GLAND	BRONZE	ASTM B584 C83600
12	PACKING	SQ. BRAIDED POLYMER	-----
13	HEX CAPSCREWS & NUTS	ZINC PLATED STEEL	ASTM A307 Grade B
14	HEX CAPSCREWS & NUTS	ZINC PLATED STEEL	ASTM A307 Grade B
15	STUFFING BOX	CAST IRON	ASTM A126 Class B
16	UPPER BUSHING	BRONZE	ASTM B584 C83600
17	FOLLOWER GASKET	ACORAC	-----
18	COVER SPACER	BRONZE	ASTM B584 C83600
19	COVER BUSHING	BRONZE	ASTM B584 C83600
20	STEM	BRONZE	ASTM B584 C83600
21	HEX CAPSCRE & NUT	ZINC PLATED STEEL	ASTM A307 Grade B
22	COVER	DUCTILE IRON	ASTM A536 64-45-12
23	O-RING (COVER)	EPDM	-----
24	O-RING (STEM)	EPDM	-----
25	STEM NUT	BRONZE	ASTM B584 CDA 836
26	WEDGE / DISC / GATE	DUCTILE IRON/EPDM COATED	ASTM A126 Class B
27	BODY	DUCTILE IRON	ASTM A536 64-45-12



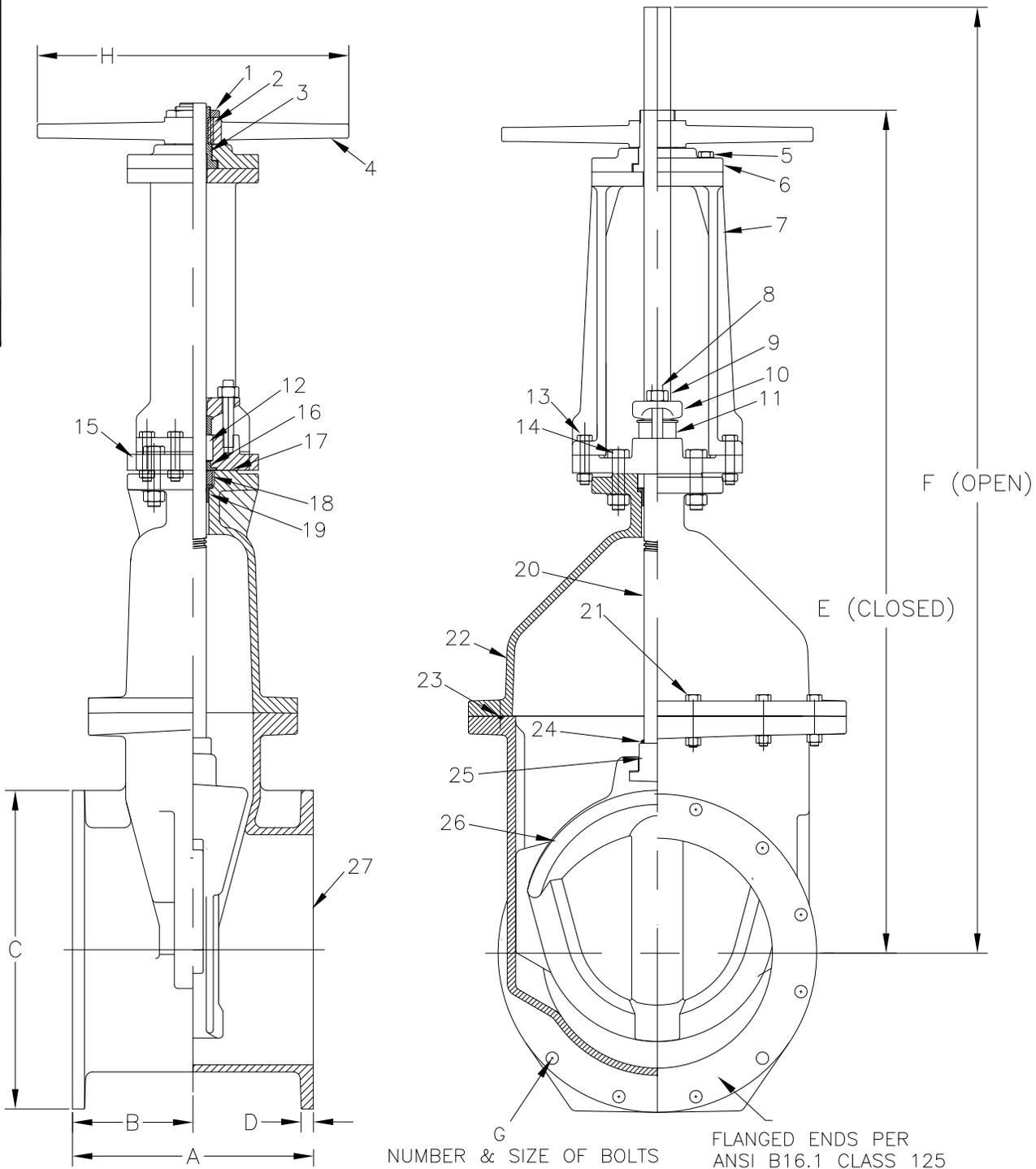
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: CTJ
DATE: 7/24/2019
DWG. NO.
LR-B1A-EPDM

14" & 16"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7068
MATERIAL LIST



COMPLIES WITH APPLICABLE REQUIREMENTS OF AWWA C515



VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT
14	15	7 1/2	21	1	59 3/4	74 3/4	12-1	22	635
16	16	8	23 1/2	1	59 3/4	74 3/4	16-1	22	735

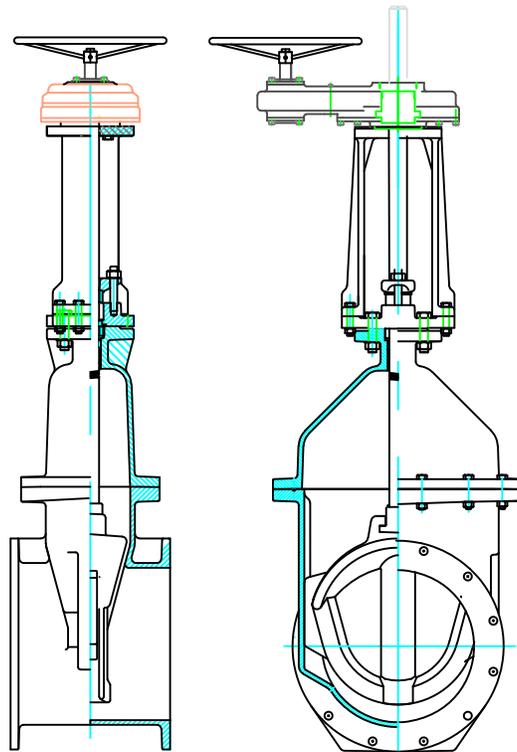
URNS TO OPEN: 14" & 16" = 50

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: KLM
DATE: 8/13/15
DWG. NO.
LR-B1B

14" & 16"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7571
FLANGED ENDS

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	EXEECO IS7	(PURCHASED PART)	
2	SQUARE KEY	COMMERCIAL STEEL	-----
3	HEX CAP SCREW	18-8 STAINLESS STEEL	ASTM F594 GRADE C
4	HANDWHEEL	CAST IRON	ASTM A126 Class B
5	OUTPUT SLEEVE	ALUMINUM BRONZE	ASTM B505 C95800
6	ROLL PIN	CAST IRON	ASTM A126 Class B
7	YOKE	CAST IRON	ASTM A126 Class B
8	STUD	18-8 STAINLESS STEEL	ASTM F594 GRADE C
9	HEX NUT	BRONZE	ASTM B584 C83600
10	PACKING GLAND / FOLLOWER	CAST IRON	ASTM A126 Class B
11	GLAND	BRONZE	ASTM B584 C83600
12	PACKING	SQ. BRAIDED POLYMER	-----
13	HEX CAPSCREWS & NUTS	18-8 STAINLESS STEEL	ASTM F594 GRADE C
14	HEX CAPSCREWS & NUTS	18-8 STAINLESS STEEL	ASTM F594 GRADE C
15	ADAPTER	CAST IRON	ASTM A126 Class B
16	UPPER BUSHING	BRONZE	ASTM B584 C83600
17	FOLLOWER GASKET	ACORAC	-----
18	COVER SPACER	BRONZE	ASTM B584 C83600
19	COVER BUSHING	BRONZE	ASTM B584 C83600
20	STEM	BRONZE	ASTM B584 C83600
21	HEX CAPSCREWS & NUTS	18-8 STAINLESS STEEL	ASTM F594 GRADE C
22	COVER	DUCTILE IRON	ASTM A536 64-45-12
23	O-RING (COVER)	EPDM	-----
24	O-RING (STEM)	EPDM	-----
25	STEM NUT	BRONZE	ASTM B584 CDA 836
26	WEDGE / DISC / GATE	DUCTILE IRON/EPDM COATED	ASTM A126 Class B
27	BODY	DUCTILE IRON	ASTM A536 64-45-12
28	WEDGE PROTECTOR CAP 18" & 20"	DELTRIN	-----



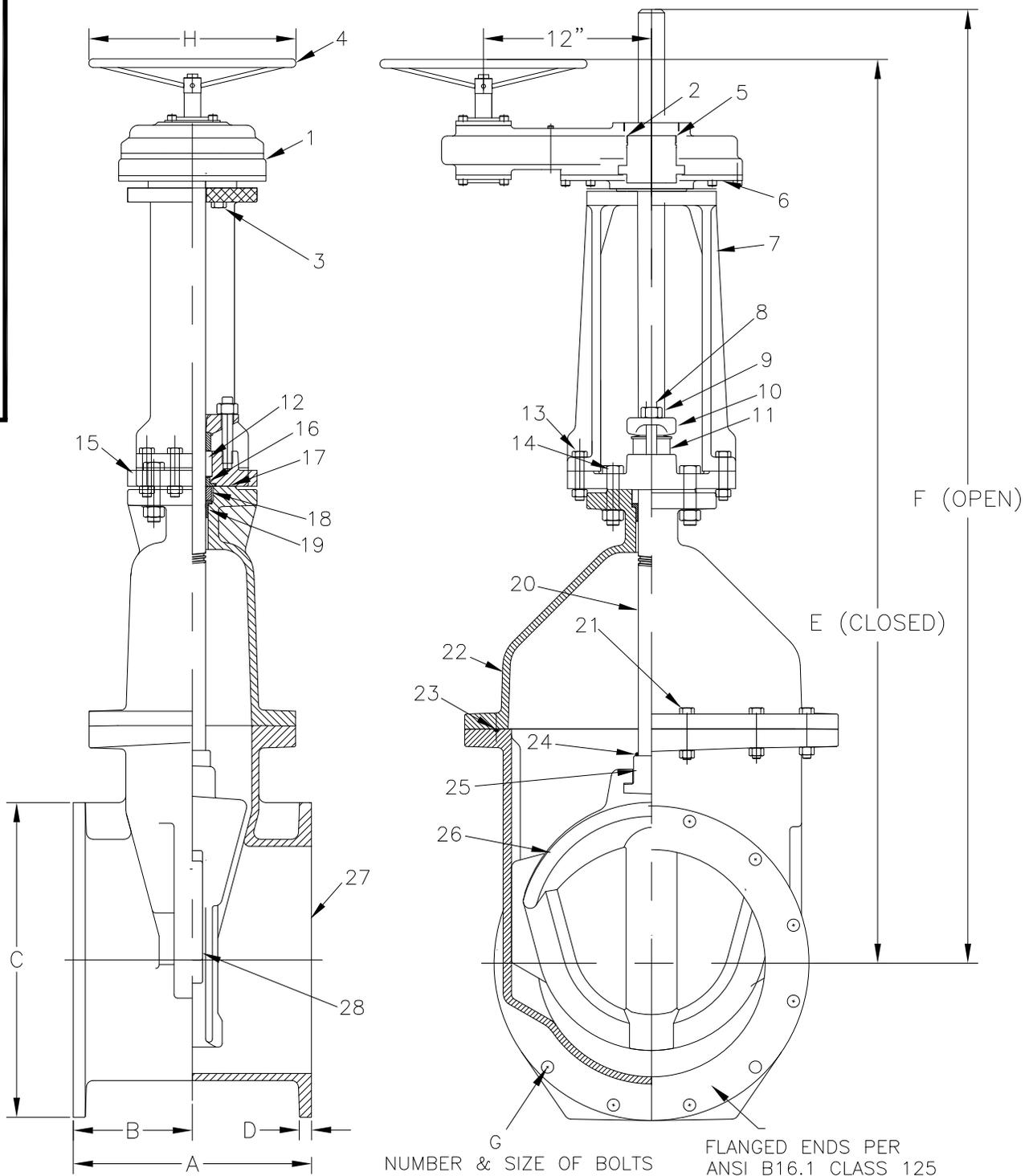
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: CTJ
DATE: 7/24/19
DWG. NO.
LR-B2A

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7068
(WITH SPUR GEAR)
MATERIAL LIST



COMPLIES WITH APPLICABLE REQUIREMENTS OF AWWA C515



VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT
14	15	7 1/2	21	1	64 1/2	76	12-1	12	850
16	16	8	23 1/2	1	64 1/2	76	16-1	12	900
18	17	8 1/2	25	---	74 5/8	90 7/8	16-1 1/8	16	1200
20	18	9	27 1/2	---	74 5/8	90 7/8	20-1 1/8	16	1250

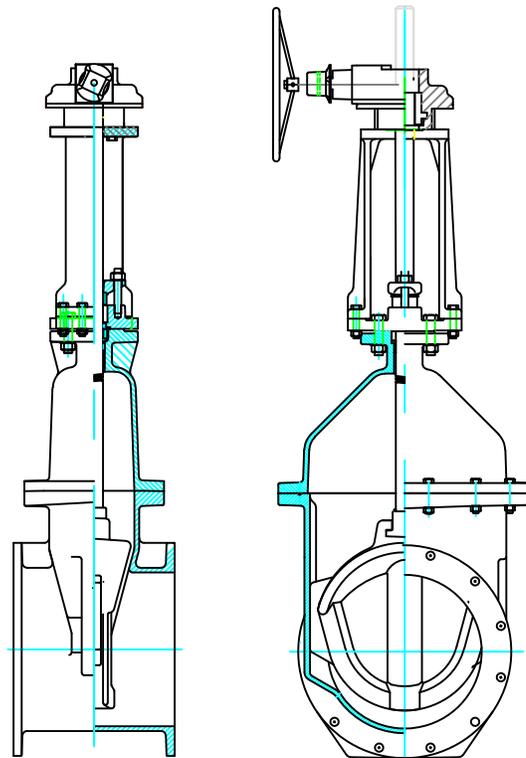
URNS TO OPEN: 14" & 16"= 100 / 18" & 20"=189

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: KLM
DATE: 8/13/15
DWG. NO.
LR-B2B

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7068
(WITH SPUR GEAR)
FLANGED ENDS

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	EXEECO IS7	(PURCHASED PART)	
2	SQUARE KEY	COMMERCIAL STEEL	-----
3	HEX CAP SCREW	18-8 STAINLESS STEEL	ASTM F594 GRADE C
4	OPERATING NUT	CAST IRON	ASTM A126 Class B
5	OUTPUT SLEEVE	ALUMINUM BRONZE	ASTM B505 C95800
6	ROLL PIN	CAST IRON	ASTM A126 Class B
7	YOKE	CAST IRON	ASTM A126 Class B
8	STUD	18-8 STAINLESS STEEL	ASTM F594 GRADE C
9	HEX NUT	BRONZE	ASTM B584 C83600
10	PACKING GLAND / FOLLOWER	CAST IRON	ASTM A126 Class B
11	GLAND	BRONZE	ASTM B584 C83600
12	PACKING	SQ. BRAIDED POLYMER	-----
13	HEX CAPSCREWS & NUTS	18-8 STAINLESS STEEL	ASTM F594 GRADE C
14	HEX CAPSCREWS & NUTS	18-8 STAINLESS STEEL	ASTM F594 GRADE C
15	ADAPTER	CAST IRON	ASTM A126 Class B
16	UPPER BUSHING	BRONZE	ASTM B584 C83600
17	FOLLOWER GASKET	ACORAC	-----
18	COVER SPACER	BRONZE	ASTM B584 C83600
19	COVER BUSHING	BRONZE	ASTM B584 C83600
20	STEM	BRONZE	ASTM B584 C83600
21	HEX CAPSCREWS & NUTS	18-8 STAINLESS STEEL	ASTM F594 GRADE C
22	COVER	DUCTILE IRON	ASTM A536 64-45-12
23	O-RING (COVER)	EPDM	-----
24	O-RING (STEM)	EPDM	-----
25	STEM NUT	BRONZE	ASTM B584 CDA 836
26	WEDGE / DISC / GATE	DUCTILE IRON / EPDM COATED	ASTM A126 Class B
27	BODY	DUCTILE IRON	ASTM A536 64-45-12
28	WEDGE PROTECTOR CAP 18" & 20"	DELTRIN	-----



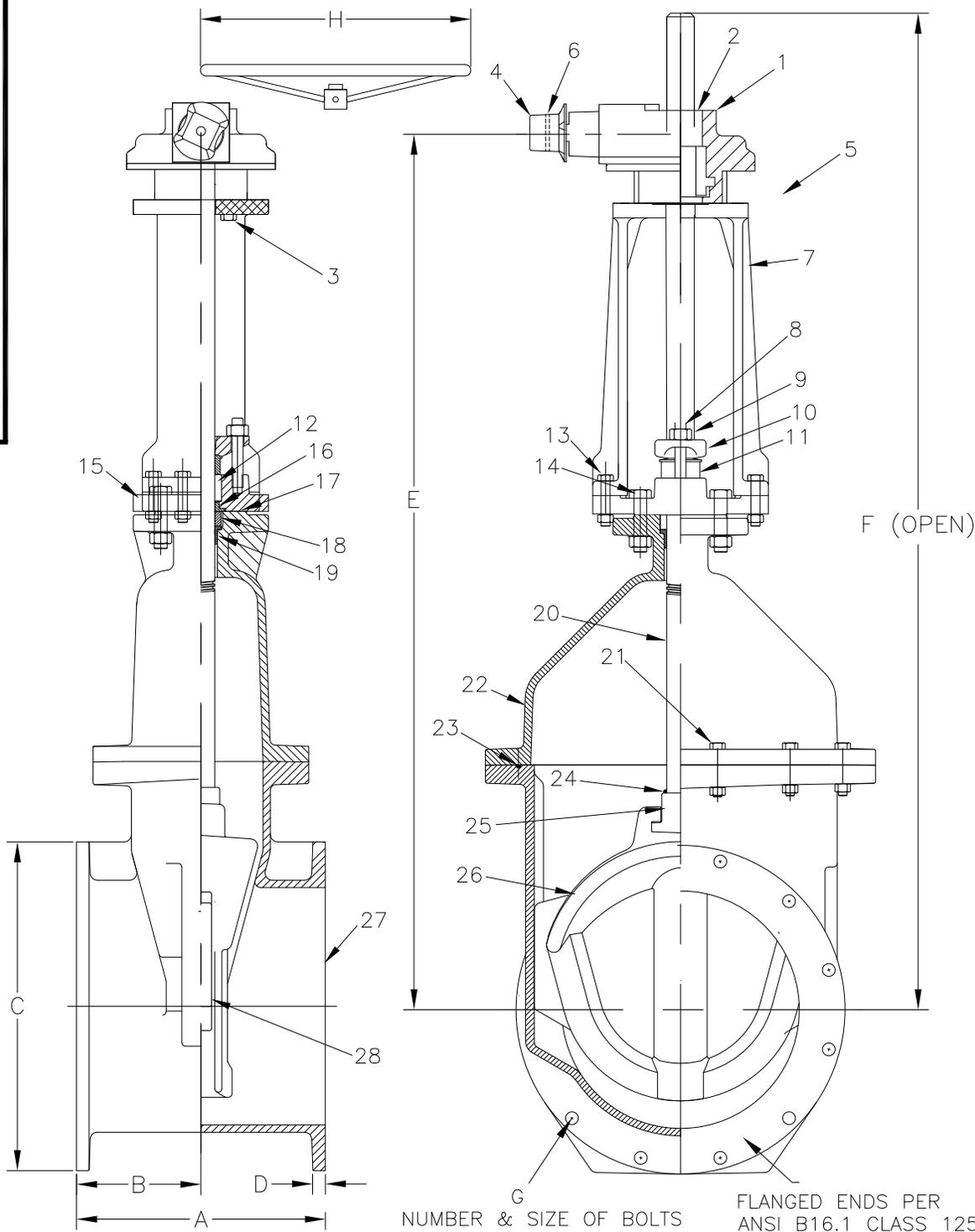
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: CTJ
DATE: 7/24/19
DWG. NO.
LR-B3A

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7068
(WITH BEVEL GEAR)
MATERIAL LIST



COMPLIES WITH APPLICABLE REQUIREMENTS OF AWWA C515



VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT
14	15	7 1/2	21	1	59 7/8	76	12-1	12	850
16	16	8	23 1/2	1	59 7/8	76	16-1	12	900
18	17	8 1/2	25	---	70 1/8	90 7/8	16-1 1/8	16	1200
20	18	9	27 1/2	---	70 1/8	90 7/8	20-1 1/8	16	1250

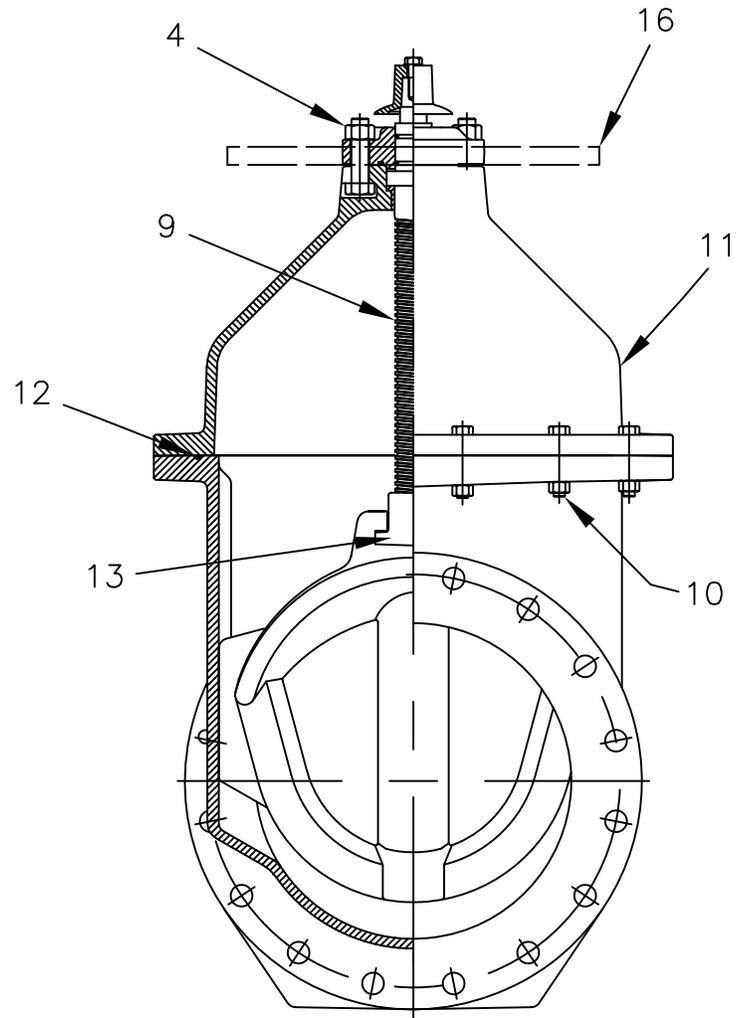
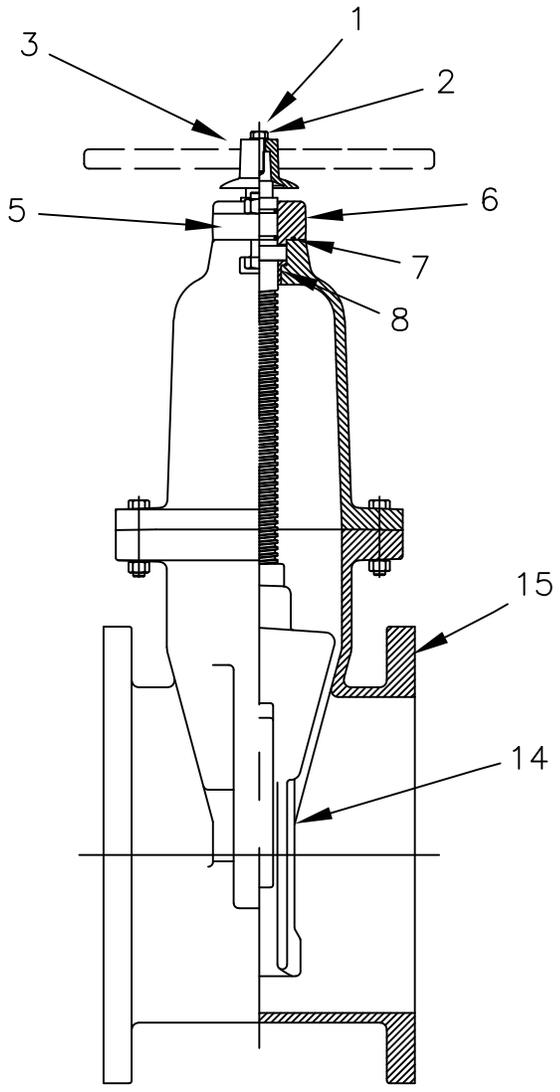
URNS TO OPEN: 14" & 16"= 100 / 18" & 20"=189

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: KLM
DATE: 8/13/15
DWG. NO.
LR-B3B

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-OS&Y-STYLE 7068
(WITH BEVEL GEAR)
FLANGED ENDS

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	HEX HEAD BOLT	18-8 STAINLESS STEEL	ASTM F594
2	HOLD DOWN BOLT FLAT WASHER	18-8 STAINLESS STEEL	ASTM F594
3	OPERATING NUT OR HANDWHEEL	CAST IRON	ASTM A126 Class B
4	BOLTS / NUTS (STUFFING BOX)	18-8 STAINLESS STEEL	ASTM F594
5	STUFFING BOX / SEAL PLATE	DUCTILE IRON	ASTM A536 64-45-12
6	O-RING (STEM)	EPDM	-----
7	O-RING (STUFFING BOX)	EPDM	-----
8	COVER / BONNET BUSHING	BRONZE	ASTM B584 CDA 836
9	STEM	BRONZE	ASTM B584 CDA 867
10	HEX HEAD BOLTS & NUTS	18-8 STAINLESS STEEL	ASTM F593
11	COVER / BONNET	DUCTILE IRON	ASTM A536 65-45-12
12	O-RING (COVER / BONNET)	EPDM	-----
13	STEM NUT	BRONZE	ASTM B584 CDA 836
14	WEDGE / DISC / GATE	DUCTILE IRON/EPDM COATED	ASTM A536 65-45-12
15	BODY - ALL TYPES	DUCTILE IRON	ASTM A536 65-45-12
16	POST PLATE (14" & 16")	DUCTILE IRON	ASTM A536 65-45-12



M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

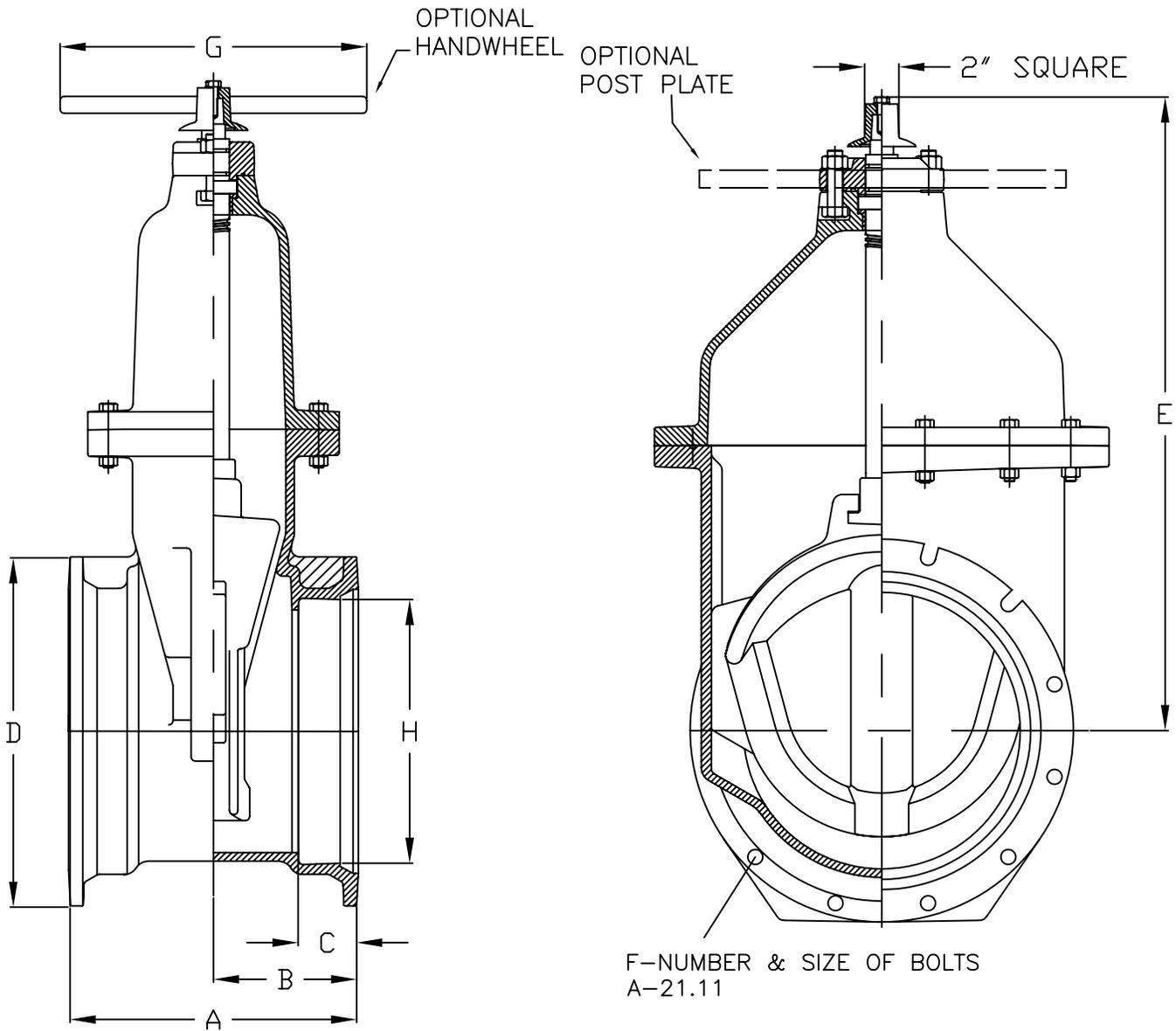
DWN: CTJ
DATE: 7/24/19
DWG. NO.
LR-A1

14" & 16"
RESILIENT SEAT GATE VALVE
C515-NRS-STYLE 7000
VALVE ASSEMBLY / MATERIAL LIST

Complies with AWWA C515

4067-01
4067-01HW
4067-01P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE (16" ONLY)



F-NUMBER & SIZE OF BOLTS
A-21.11

VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT
14	17	8.5	3.5	20.25	37.75	10 3/4	26.00	14.25	625
16	17	8.5	3.5	22.5	37.75	12 3/4	26.00	16.25	701

TURNS TO OPEN: 14" & 16"=50
OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

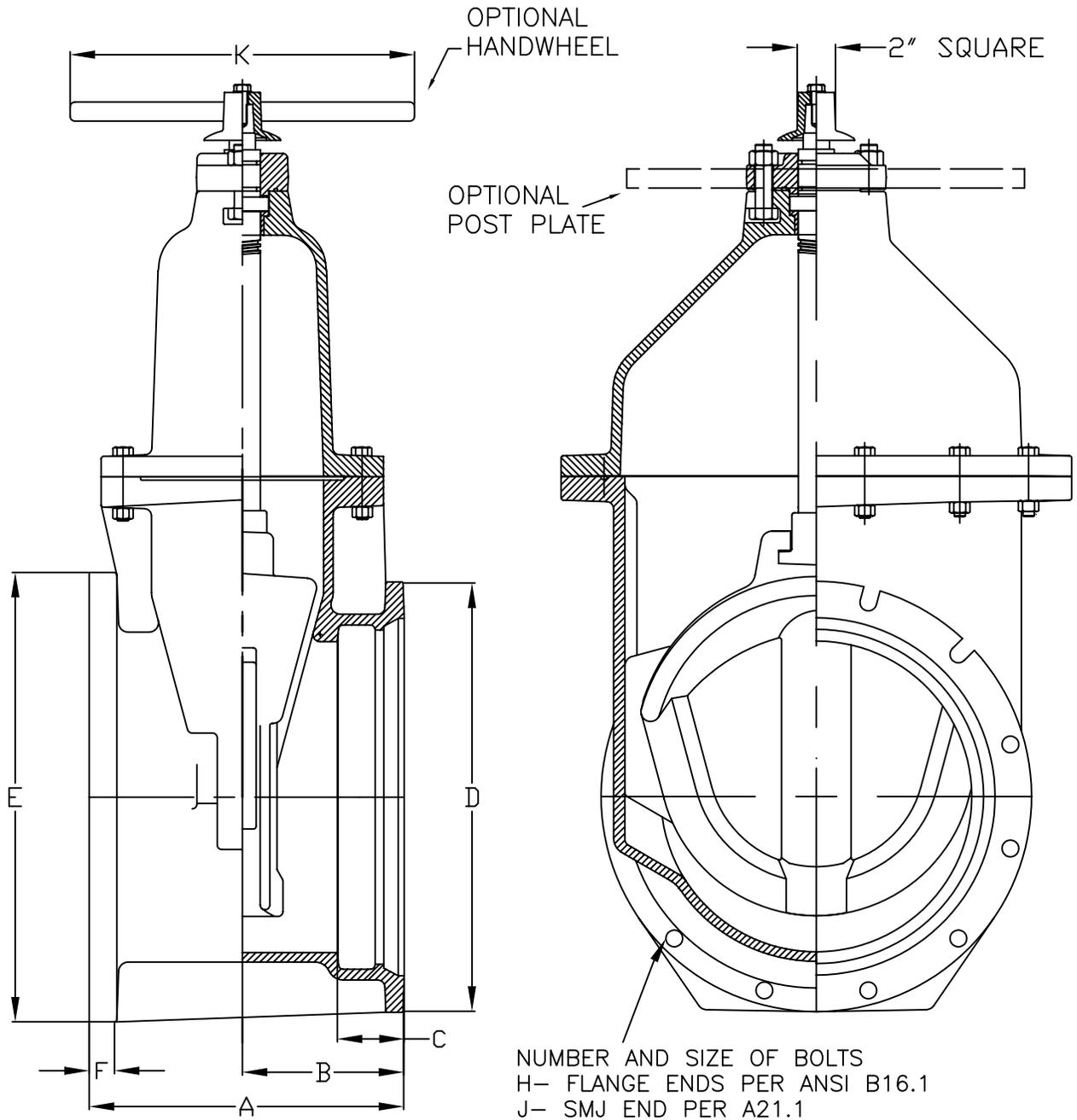
DWN: TRIJ
DATE: 7/1/05
DWG. NO.
LR-A2

14" & 16"
NRS RESILIENT SEAT GATE VALVE
MJ x MJ

Complies with AWWA C515

4067-13
4067-13HW
4067-13P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE (16" ONLY)



VALVE SIZE	A	B	C	D	E	F	G	H	J	K	WEIGHT
14	17	8.5	3.5	20.25	21	1.38	37.75	12-1	10 3/4	26.00	700
16	16.5	8.5	3.5	22.5	23.5	1.50	37.75	16-1	12 3/4	26.00	1000

URNS TO OPEN: 14" & 16"=50
OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 7/1/05
DWG. NO.
LR-A4

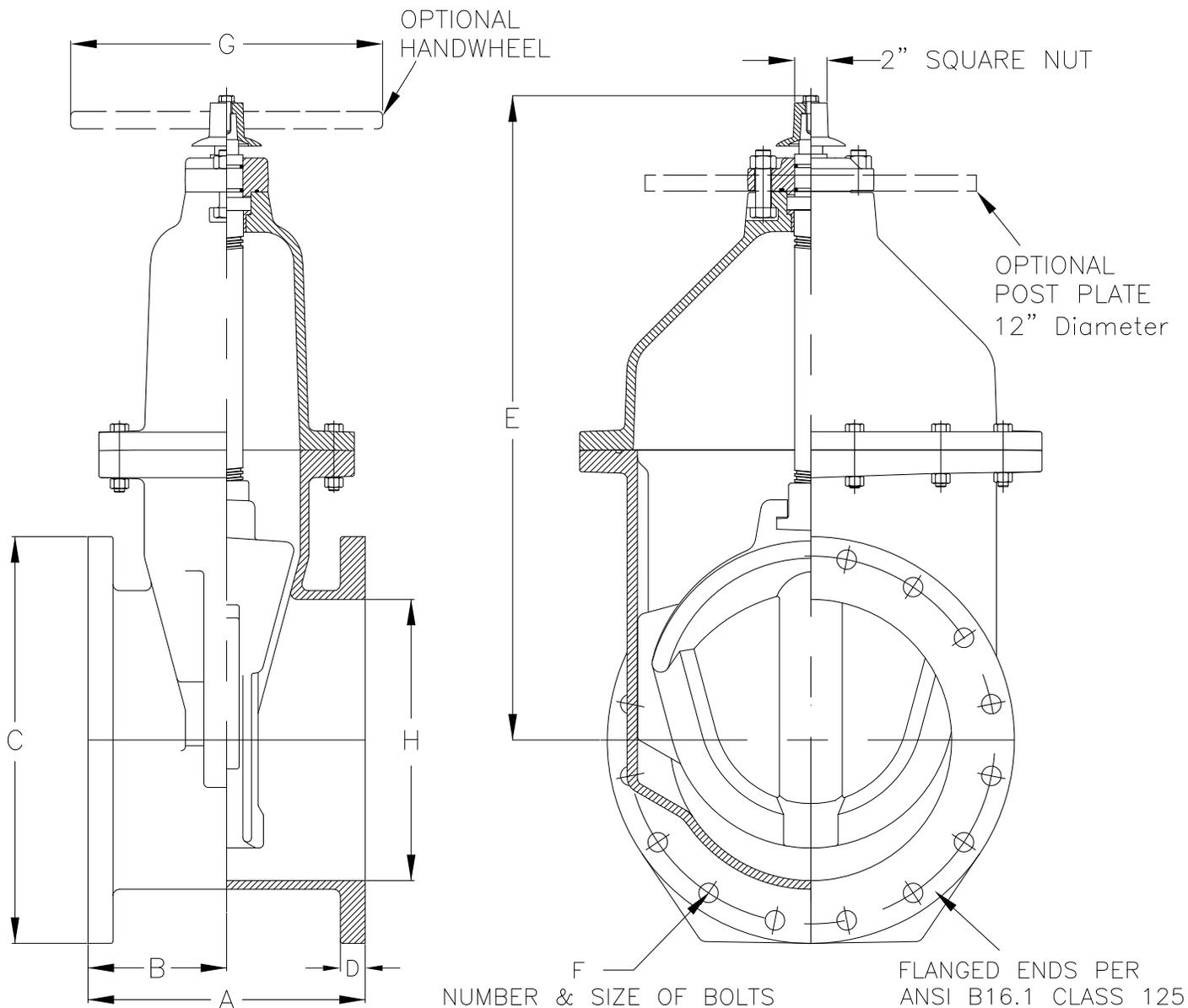
14" & 16"
NRS RESILIENT SEAT GATE VALVE
MJ x FLANGE



COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515

7561
7561-HW
7561-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE



VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT 2" NUT
14	15	7 1/2	21	1	37 3/4	12-1	26	14 1/4	650
16	16	8	23 1/2	1	37 3/4	16-1	26	16 1/4	720

TURNS TO OPEN: 14" & 16" = 50
INDICATOR POST PLATE ADD 16# (14" & 16")

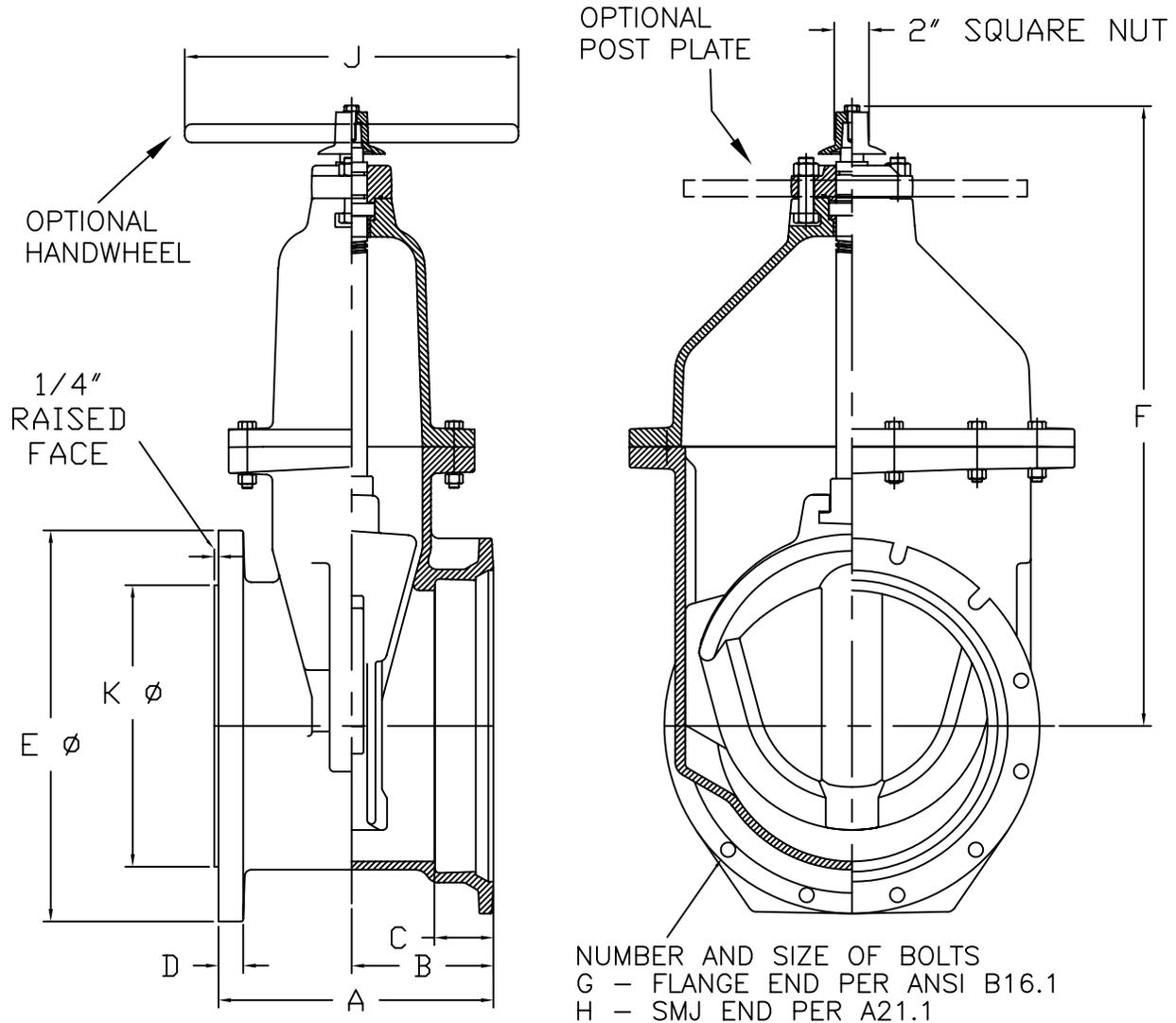
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: KLM
DATE: 8/13/15
DWG. NO.
LR-A3

14" & 16"
RESILIENT SEAT GATE VALVE
C515-STYLE 7561
FLANGED ENDS

Complies with AWWA C515

4751-01 WITH 2" SQUARE NUT
 4751-01HW WITH HANDWHEEL
 4751-01P WITH POST PLATE (16" ONLY)



VALVE SIZE	A	B	C	D	E	F	G	H	J	K	WEIGHT
14	16.75	8.5	3.5	1.18	21	37.75	12-1	10-3/4	26	14.98	700
16	16.25	8.5	3.5	1.25	23.5	37.75	16-1	12-3/4	26	16.98	1000

TURNS TO OPEN: 14" & 16"=50
 OPTIONAL 24" DIAMETER HANDWHEEL

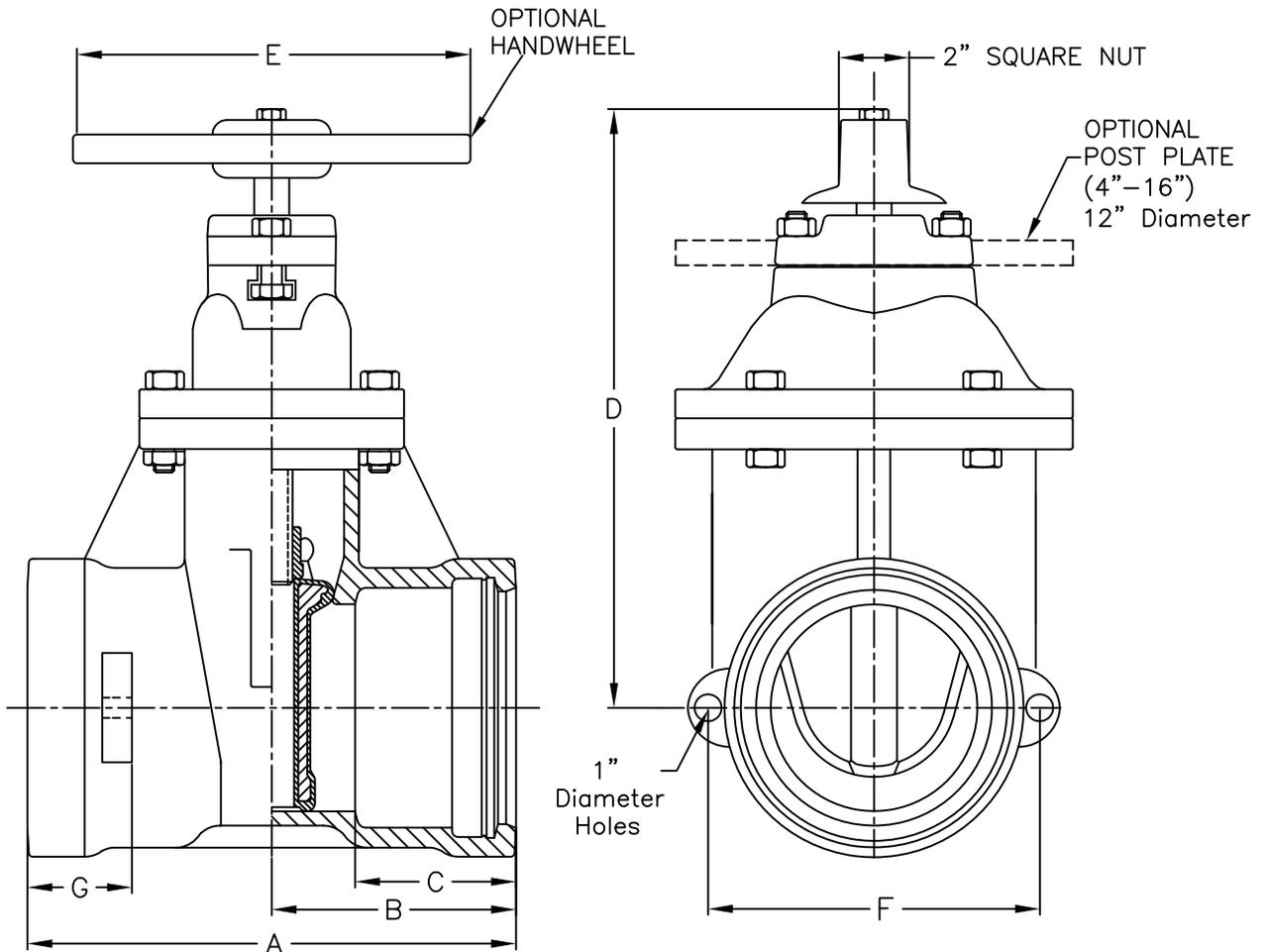
M&H VALVE COMPANY ANNISTON, ALABAMA A DIVISION OF MCWANE INC.	DWN: TRIJ	14" & 16" NRS RESILIENT SEAT GATE VALVE TAPPING VALVE
	DATE: 7/1/05	
	DWG. NO. LR-A5	



COMPLIES WITH
APPLICABLE
REQUIREMENTS OF
AWWA C515

7901
7901-HW
7901-P

WITH 2" SQUARE NUT
WITH HANDWHEEL
WITH POST PLATE
(4"-16")



VALVE SIZE	A	B	C	D	E	F	G	WEIGHT 2" NUT
4	13 1/4	6 5/8	4.34	14 3/4	10	8 3/16	3 3/4	87
6	14 3/4	7 3/8	4.75	19	12	10 7/8	3 3/4	146
8	17 1/8	8 9/16	5.70	22 1/2	14	12 7/8	4 1/2	214
10	19 3/8	9 11/16	6.19	26 1/2	18	15 15/16	5 1/8	394
12	20 7/8	10 7/16	6.19	30	18	18 7/16	5 3/8	505
14	21	10 1/2	5.00	38 3/4	26	22 5/16	2 1/2	850
16	24 1/16	12 1/32	6.78	37 3/4	26	22 15/32	2 1/2	1100

HANDWHEEL--ADD 6.5# (4"), 7#(6"), 10#(8"), 16#(10", 12", 16")
 INDICATOR POST PLATE ADD 16# (4"-12",16) ONLY
 PALLET QUANTITIES 2" NUT: 30(4"), 24(6"), 10(8"), 6(10"), 6(12")
 PALLET QUANTITIES HANDWHEEL: 40(4"), 18(6"), 8(8"), 6(10"), 4(12")
 TURNS TO OPEN: 13 1/2(4"), 19 1/2(6"), 25 1/2(8"),
 31 1/2(10"), 37 3/4(12"), 50(16")

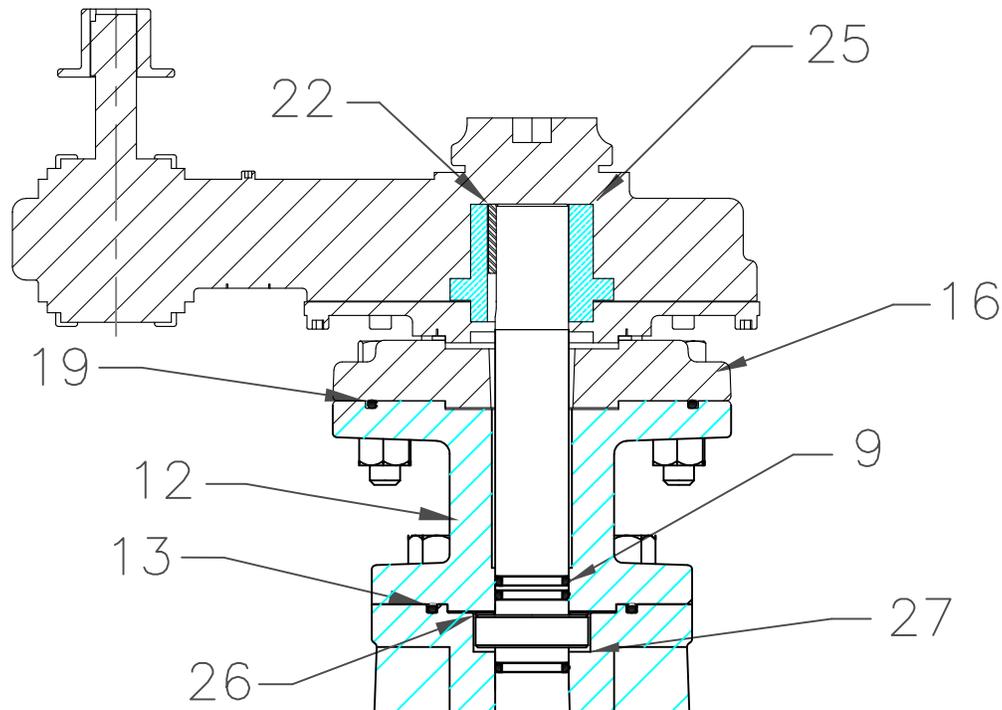
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
7901

4" THRU 16"
RESILIENT SEAT GATE VALVE
C515-STYLE 7901
PUSH-ON X PUSH-ON (TYTON)
(FOR DUCTILE IRON / C900 PIPE)

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	BODY	DUCTILE IRON	ASTM A536 64-45-12
2	COVER	DUCTILE IRON	ASTM A536 64-45-12
3	WEDGE / DISC / GATE	DUCTILE IRON/EPDM COATED	ASTM A536 64-45-12
4	WEDGE PROTECTOR CAP 18" & 20"	DELRIN	-----
5	O-RING (COVER)	EPDM	-----
6	STEM	BRONZE	ASTM B584 C83600
7	STEM NUT	BRONZE	ASTM B584 CDA 836
9	O-RING (STEM) QTY=3	EPDM	-----
10	HEX HEAD BOLTS	18-8 STAINLESS STEEL	ASTM F594 Grade C
11	HEX NUTS	18-8 STAINLESS STEEL	ASTM F594 Grade C
12	EXTENSION	DUCTILE IRON	ASTM A536 64-45-12
13	O-RING (BOTTOM EXTENSION)	EPDM	-----
14	HEX HEAD BOLTS	18-8 STAINLESS STEEL	ASTM A307 Grade B
*15	ACTUATOR	(PURCHASED PART)	-----
16	ADAPTER PLATE	DUCTILE IRON	ASTM A536 64-45-12
17	ACTUATOR GASKET	RUBBER	-----
18	SOCKET HEAD BOLTS	ALLOY STEEL	-----
19	O-RING (TOP EXTENSION)	EPDM	-----
20	HEX HEAD BOLTS	18-8 STAINLESS STEEL	ASTM F594
21	HEX NUTS	18-8 STAINLESS STEEL	ASTM F594
22	KEY	STEEL	-----
23	OPERATING NUT	DUCTILE IRON	ASTM A536 64-45-12
24	PIPE PLUGS (3/4" NPT)	STAINLESS STEEL	AISI 18-8
25	DRIVE SLEEVE	STEEL	AISI 1023
26	THRUST BEARING	DELRIN	-----
27	THRUST BEARING (18" & 20")	DELRIN	-----
28	24" HANDWHEEL	CAST IRON	ASTM A126 Class B
29	PIPE PLUG (3/4" NPT)	STAINLESS STEEL	AISI 18-8

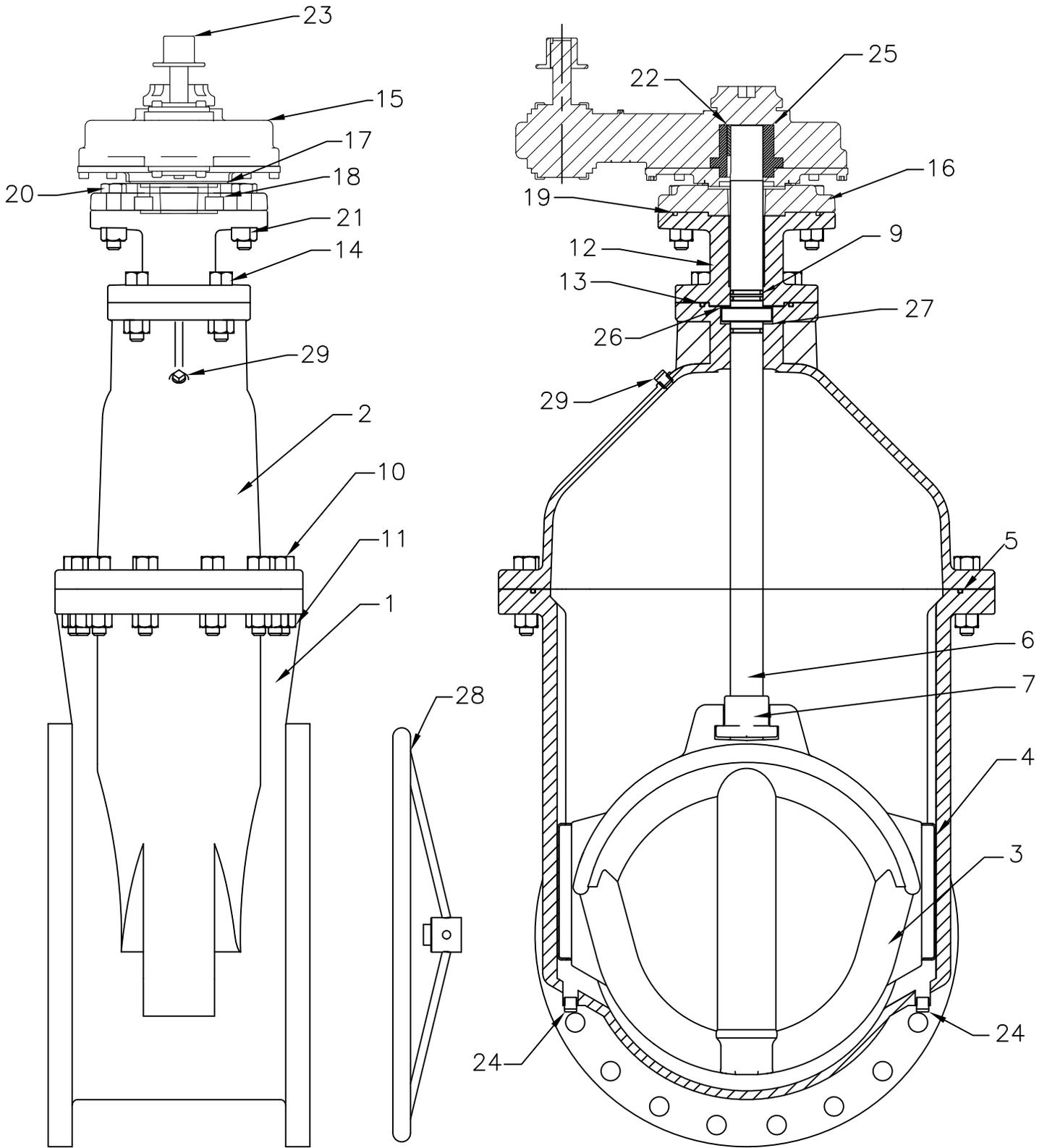
*ACTUATOR is 2:1(14" & 16"), 3:1(18" & 20")



M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: CTJ
DATE: 7/24/19
DWG. NO.
LR-C1A

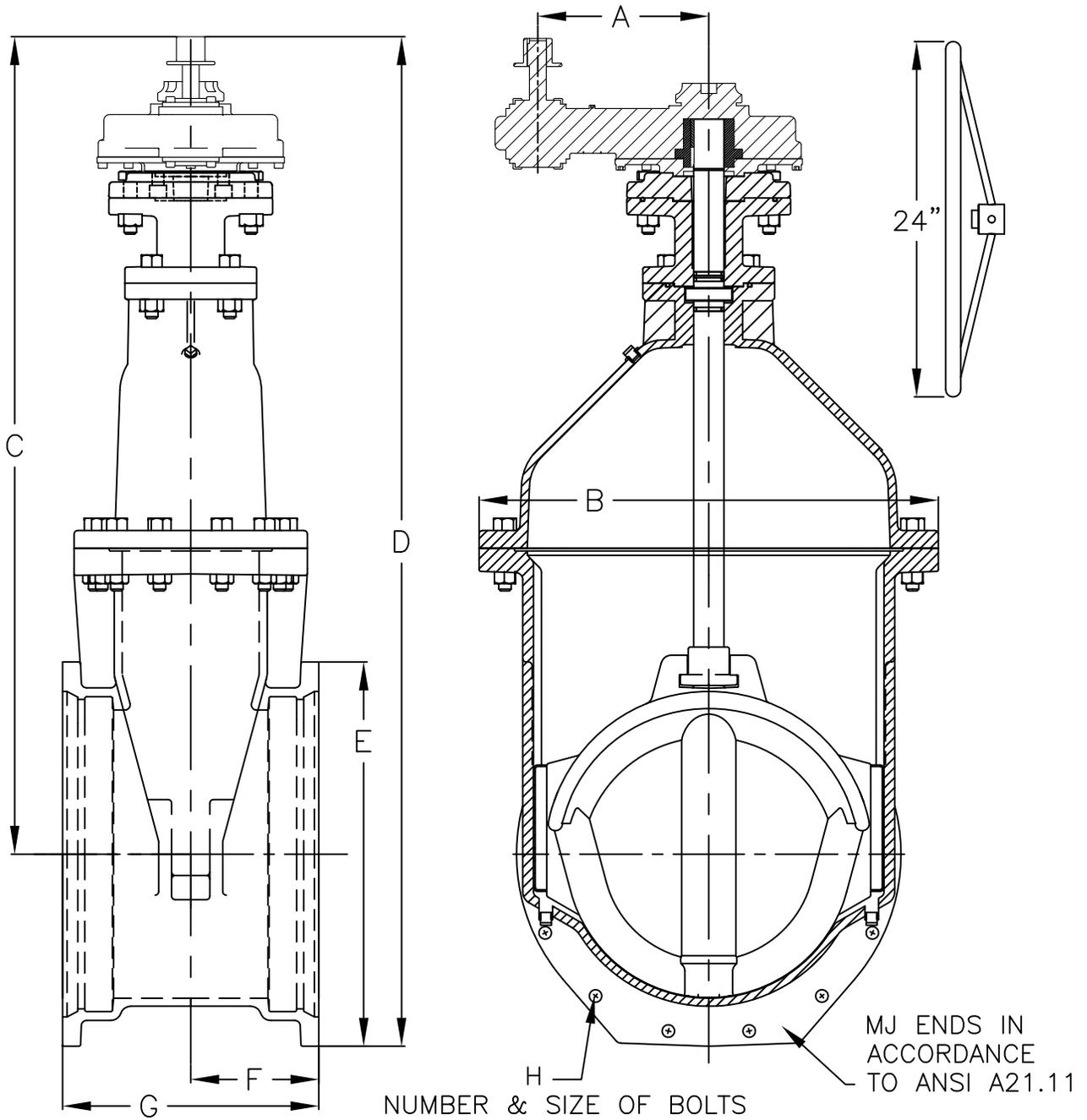
14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-NRS-STYLE 7000
(WITH SPUR GEAR)
MATERIAL LIST



M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
LR-C1B

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-NRS-STYLE 7000
WITH (SPUR GEAR)
VALVE ASSEMBLY



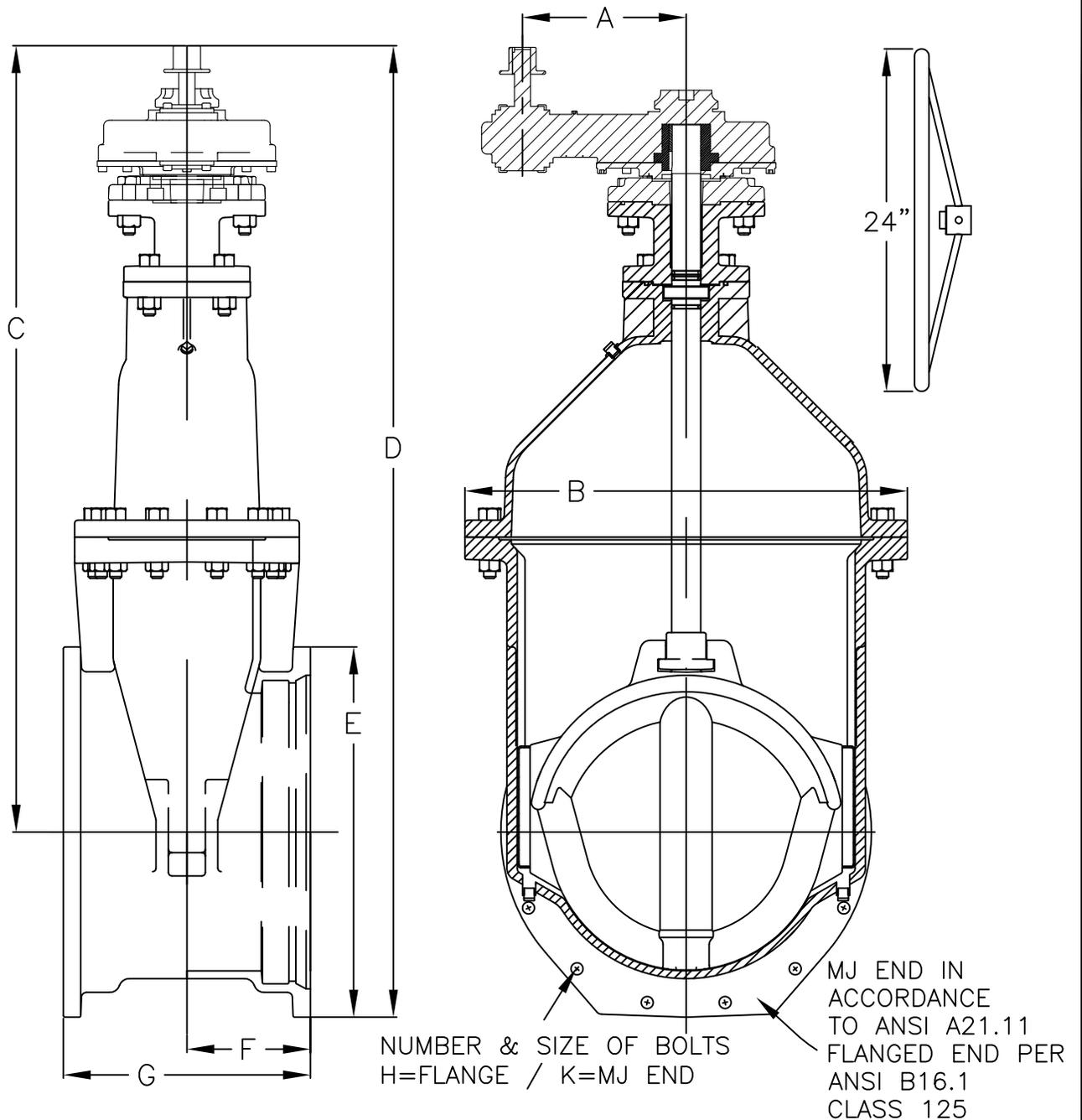
VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT
14	8	26 11/16	52 1/8	62 1/2	20 1/4	8 1/2	17	10-3/4	900
16	8	26 11/16	51 1/8	62 1/2	22 1/2	8 1/2	17	12-3/4	1200
18	12	32 1/4	58	70 1/2	24 3/4	9 5/32	18 3/4	12-3/4	2000
20	12	32 1/4	57	70 1/2	27	9	18	14-3/4	2130

TURNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
 OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 9/1/12
 DWG. NO.
 LR-C2

14" THRU 20"
 RESILIENT SEAT GATE VALVE
 C515-STYLE 7571
 (WITH SPUR GEAR)
 MJ x MJ



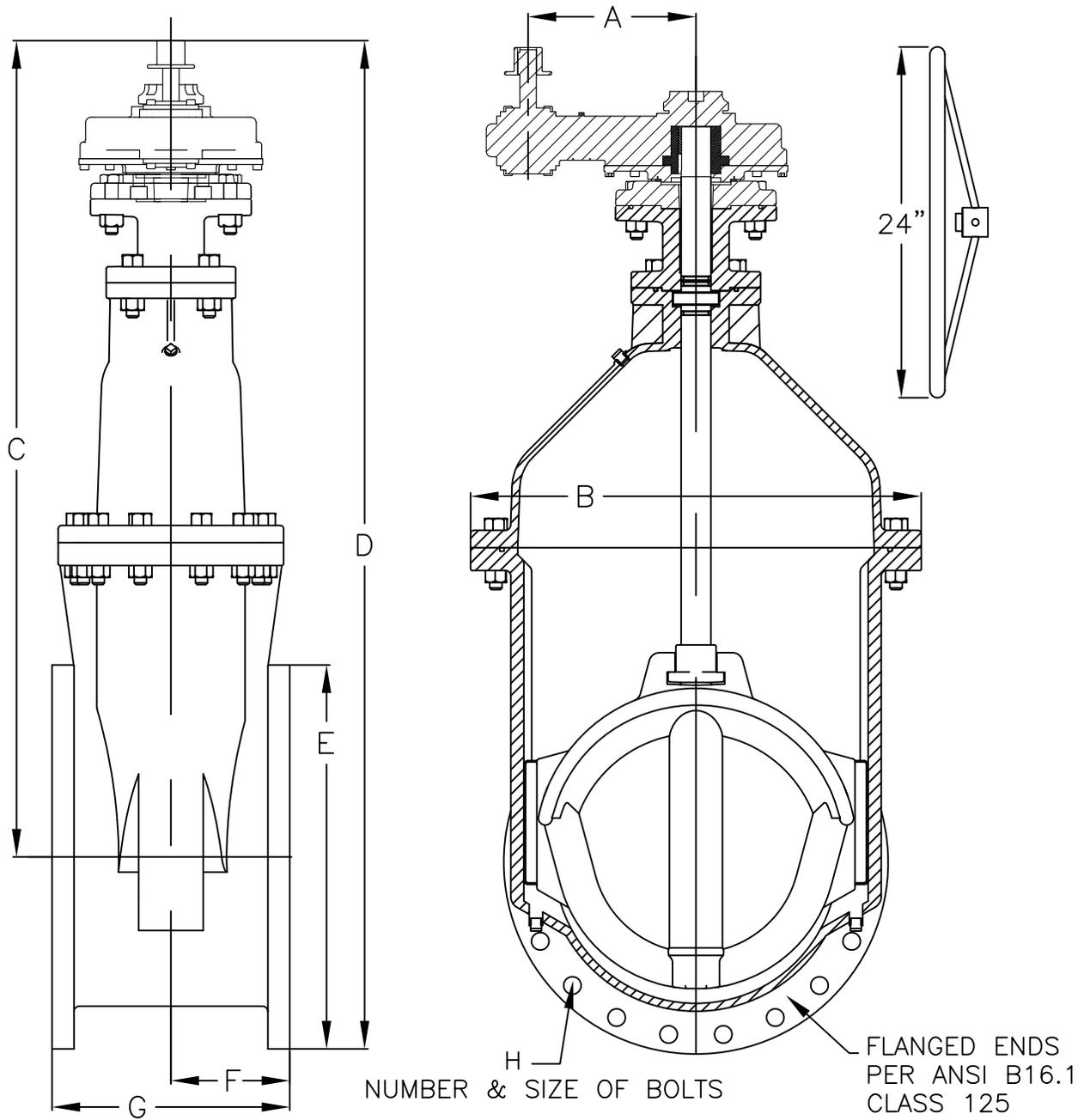
VALVE SIZE	A	B	C	D	E	F	G	H	K	WEIGHT
14	8	26 11/16	52 1/8	62 1/2	20 1/4	8 1/2	17	12-1	10-3/4	850
16	8	26 11/16	51 1/8	62 1/2	22 1/2	8 1/2	16 1/2	16-1	12-3/4	900
18	12	32 1/4	58	70 1/2	24 3/4	9 3/8	18 3/8	16-1 1/8	12-3/4	1200
20	12	32 1/4	57	70 1/2	27	9 5/32	18	20-1 1/8	14-3/4	1250

URNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
LR-C4

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-STYLE 7572
(WITH SPUR GEAR)
FLANGE x MJ



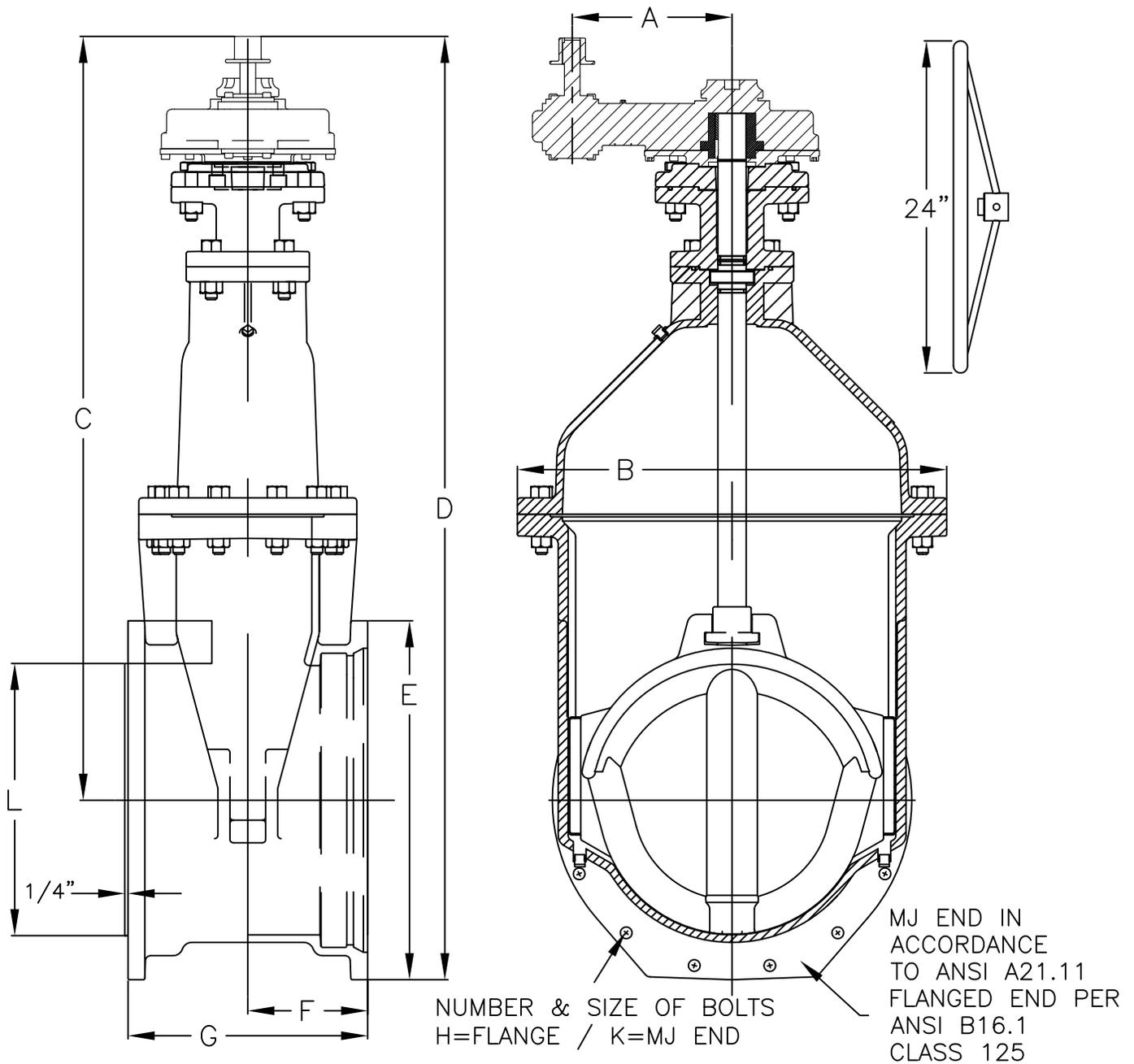
VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT
14	8	26 11/16	52 1/8	63	21	7 1/2	15	12-1	850
16	8	26 11/16	51 1/8	63	23 1/2	8	16	16-1	900
18	12	32 1/4	58	70 1/2	25	8 1/2	17	16-1 1/8	1200
20	12	32 1/4	57	70 1/2	27 1/2	9	18	20-1 1/8	1250

TURNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
 OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 9/1/12
 DWG. NO.
 LR-C3

14" THRU 20"
 RESILIENT SEAT GATE VALVE
 C515-STYLE 7561
 (WITH SPUR GEAR)
 FLANGED ENDS



VALVE SIZE	A	B	C	D	E	F	G	H	K	L	WEIGHT
14	8	26 11/16	52 1/8	62 1/2	20 1/4	8 1/2	16 3/4	12-1	10-3/4	14 15/16	850
16	8	26 11/16	51 1/8	62 1/2	22 1/2	8 1/2	16 1/4	16-1	12-3/4	16 15/16	900
18	12	32 1/4	58	70 1/2	24 3/4	9 3/8	18 1/8	16-1 1/8	12-3/4	18 15/16	1200
20	12	32 1/4	57	70 1/2	27	9	18	20-1 1/8	14-3/4	20 15/16	1250

URNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
OPTIONAL 24" DIAMETER HANDWHEEL

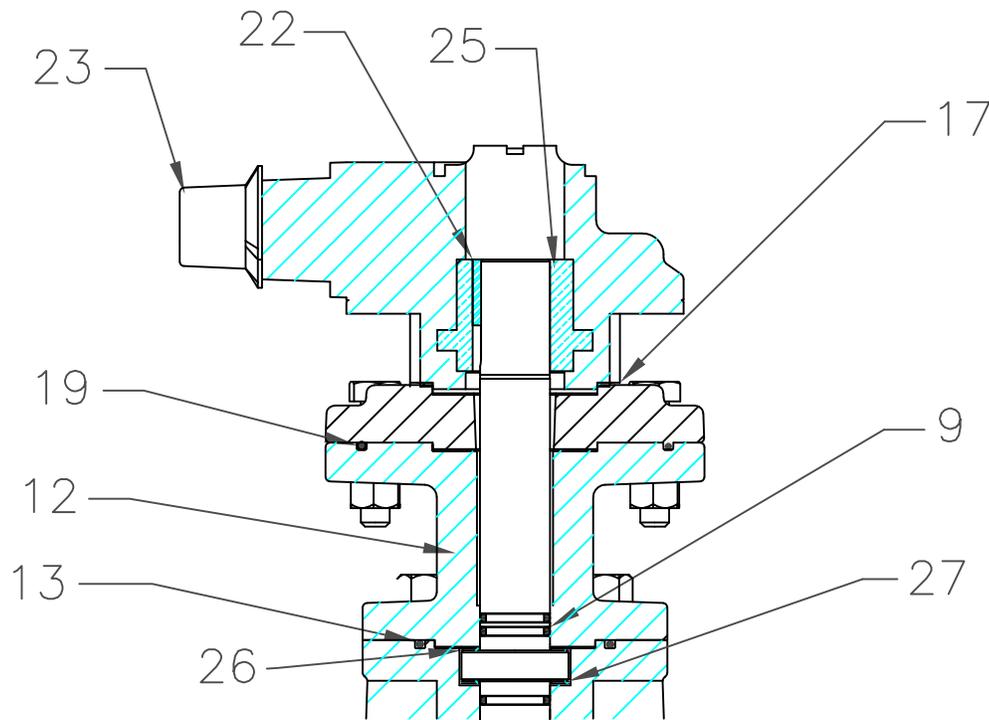
M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
LR-C5

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-STYLE 7950
(WITH SPUR GEAR)
TAPPING VALVE

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	BODY	DUCTILE IRON	ASTM A536 64-45-12
2	COVER	DUCTILE IRON	ASTM A536 64-45-12
3	WEDGE / DISC / GATE	DUCTILE IRON/EPDM COATED	ASTM A536 64-45-12
4	WEDGE PROTECTOR CAP 18" & 20"	DELRIN	-----
5	O-RING (COVER)	EPDM	-----
6	STEM	BRONZE	ASTM B584 C83600
7	STEM NUTS	BRONZE	ASTM B584 CDA 836
9	O-RING (STEM) QTY=3	EPDM	-----
10	HEX HEAD BOLTS	ZINC PLATED STEEL	ASTM A307 Grade B
11	HEX NUTS	ZINC PLATED STEEL	ASTM A307 Grade B
12	EXTENSION	DUCTILE IRON	ASTM A536 64-45-12
13	O-RING (BOTTOM EXTENSION)	EPDM	-----
14	HEX HEAD BOLTS	ZINC PLATED STEEL	ASTM A307 Grade B
*15	ACTUATOR	(PURCHASED PART)	
16	ADAPTER PLATE	DUCTILE IRON	ASTM A536 64-45-12
17	ACTUATOR GASKET	RUBBER	-----
18	SOCKET HEAD BOLTS	ALLOY STEEL	-----
19	O-RING (TOP EXTENSION)	EPDM	-----
20	HEX HEAD BOLTS	18-8 STAINLESS STEEL	ASTM F594
21	HEX NUTS	18-8 STAINLESS STEEL	ASTM F594
22	KEY	STEEL	-----
23	OPERATING NUT	DUCTILE IRON	ASTM A536 64-45-12
24	PIPE PLUGS (3/4" NPT)	STAINLESS STEEL	AISI 18-8
25	DRIVE SLEEVE	STEEL	AISI 1023
26	THRUST BEARING	DELRIN	-----
27	THRUST BEARING (18" & 20")	DELRIN	-----
28	24" HANDWHEEL	CAST IRON	ASTM A126 Class B
29	PIPE PLUG (3/4" NPT)	STAINLESS STEEL	AISI 18-8

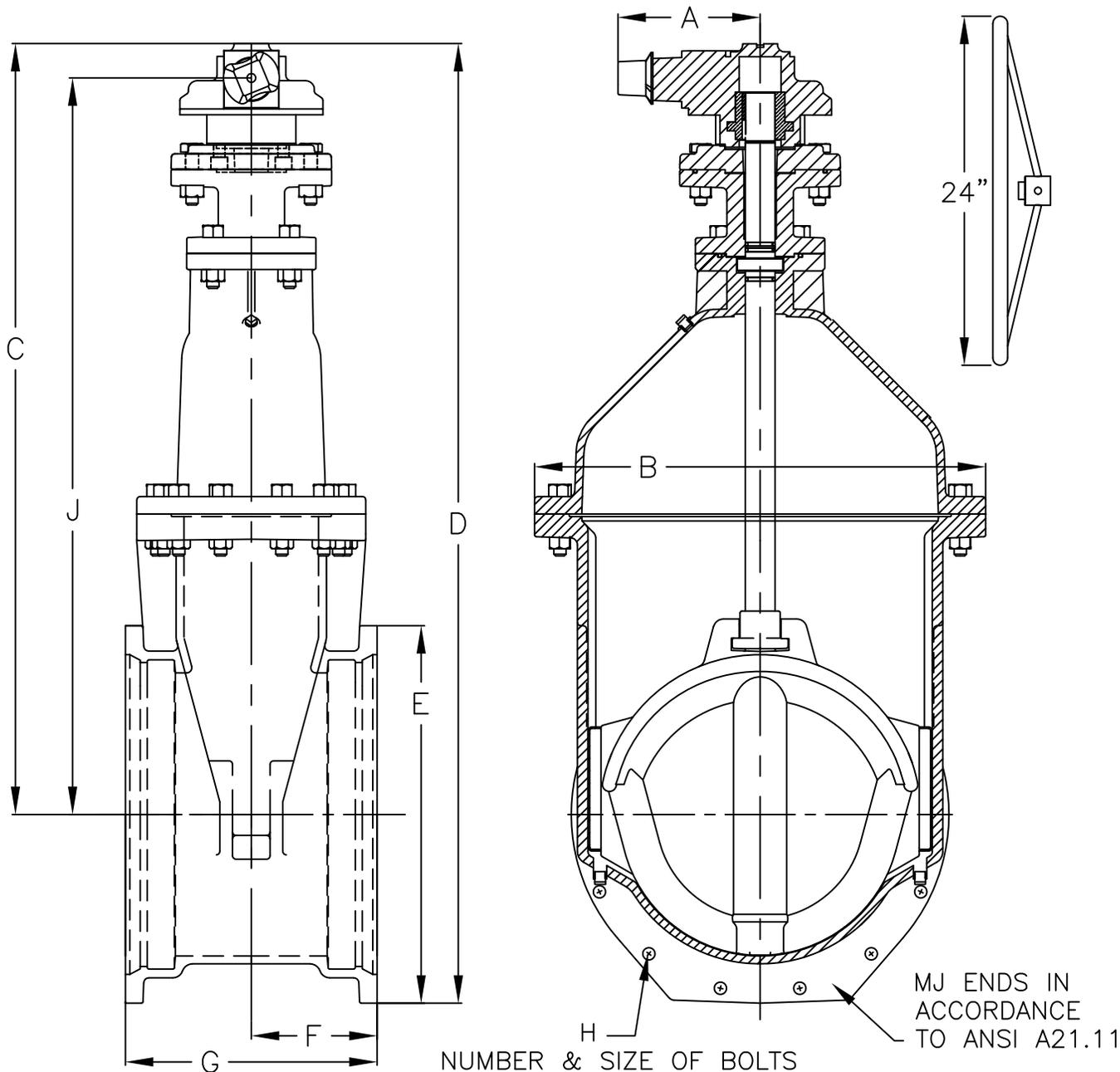
*ACTUATOR is 2:1(14" & 16"), 3:1(18" & 20")



M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: CTJ
DATE: 7/24/19
DWG. NO.
LR-D1A

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-NRS-STYLE 7000
(WITH BEVEL GEAR)
MATERIAL LIST



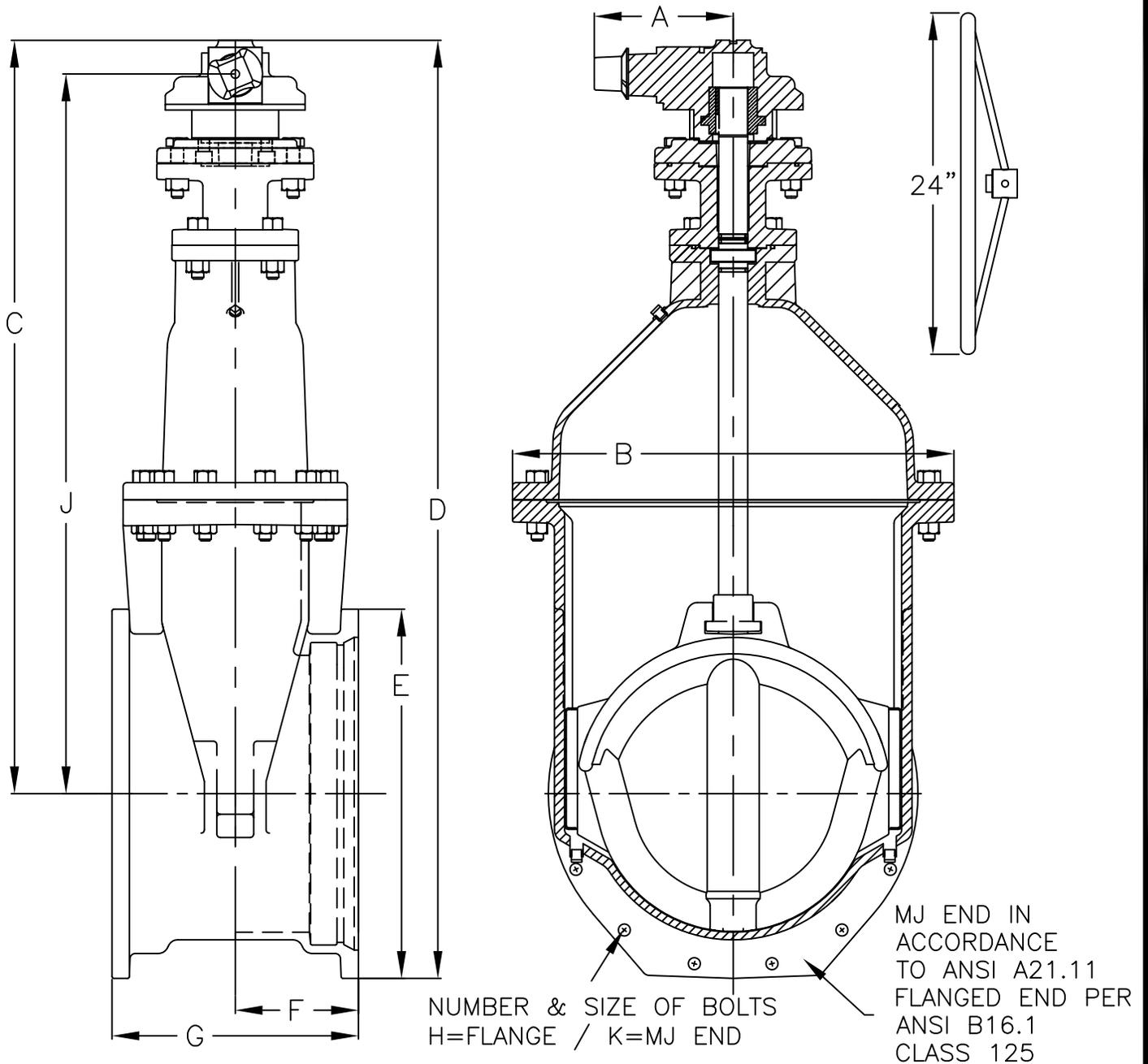
VALVE SIZE	A	B	C	D	E	F	G	H	J	WEIGHT
14	9 1/8	26 11/16	48 5/8	59	20 1/4	8 1/2	17	10-3/4	46 5/8	900
16	9 1/8	26 11/16	47 5/8	59	22 1/2	8 1/2	17	12-3/4	45 5/8	1200
18	10 1/8	32 1/4	55 3/4	68 1/4	24 3/4	9 5/32	18 3/4	12-3/4	53 3/4	2000
20	10 1/8	32 1/4	54 3/4	68 1/4	27	9	18	14-3/4	52 3/4	2130

TURNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
 OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 9/1/12
 DWG. NO.
 LR-D2

14" THRU 20"
 RESILIENT SEAT GATE VALVE
 C515-STYLE 7571
 (WITH BEVEL GEAR)
 MJ x MJ



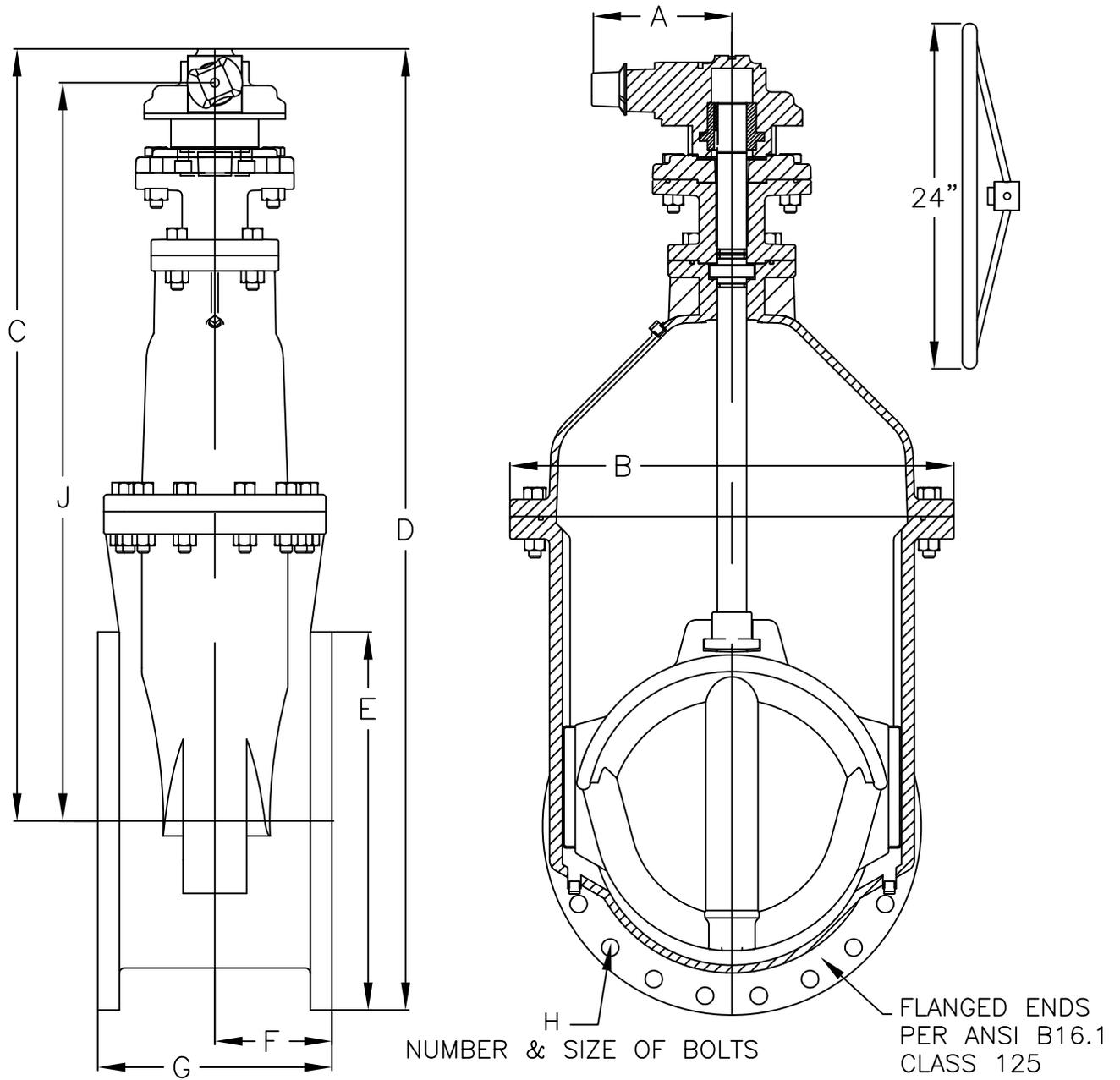
VALVE SIZE	A	B	C	D	E	F	G	H	J	K	WEIGHT
14	9 1/8	26 11/16	48 5/8	59 1/2	20 1/4	8 1/2	17	12-1 1/8	46 3/8	10-3/4	900
16	9 1/8	26 11/16	47 5/8	59 1/2	22 1/2	8 1/2	16 1/2	16-1	45 3/8	12-3/4	1200
18	10 1/8	32 1/4	55 3/4	68 3/4	24 3/4	9 3/8	18 3/8	16-1 1/8	53 3/4	12-3/4	2000
20	10 1/8	32 1/4	54 3/4	68 3/4	27	9	18	20-1 1/8	52 3/4	14-3/4	2130

URNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
LR-D4

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-STYLE 7572
(WITH BEVEL GEAR)
FLANGE x MJ



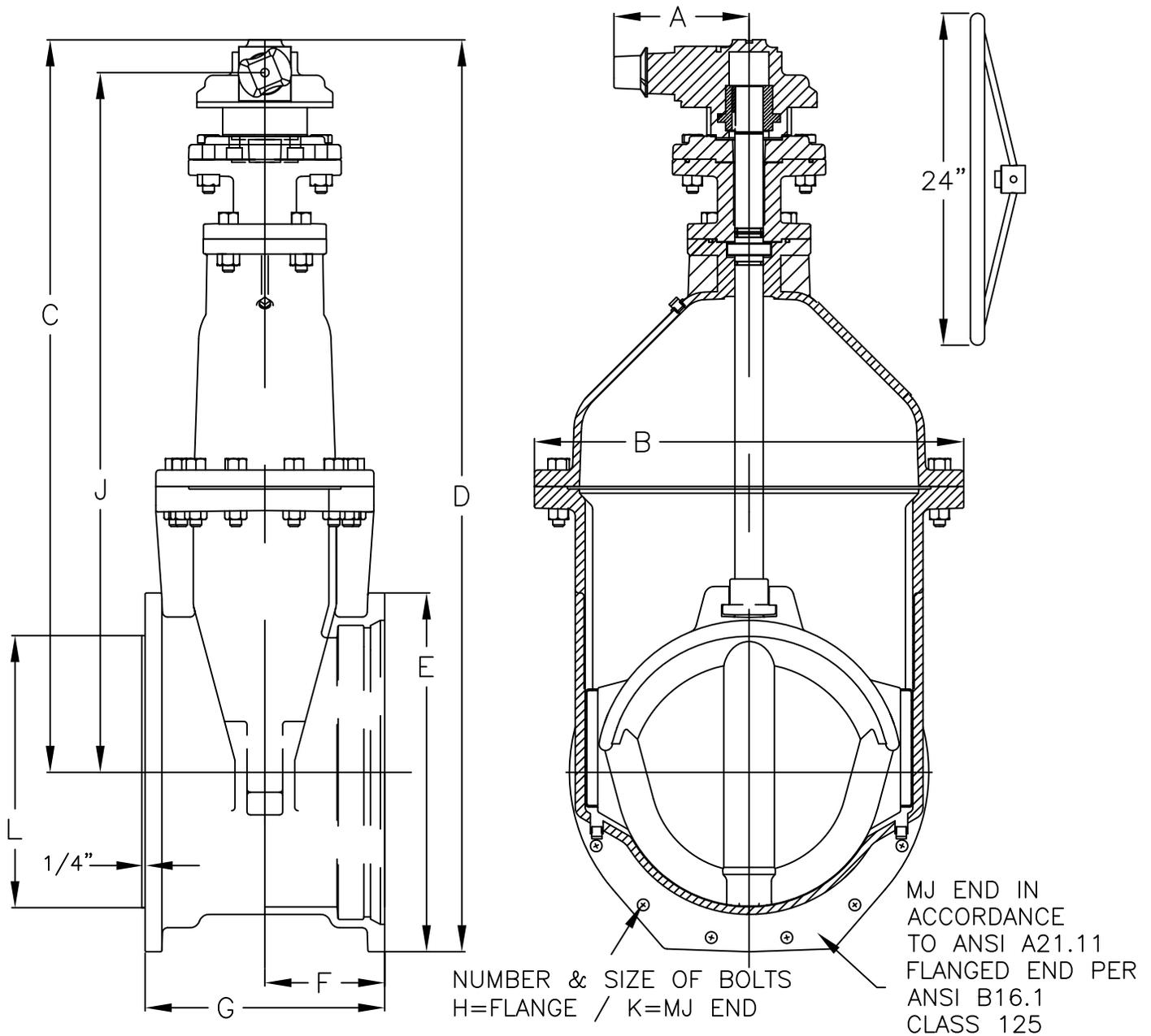
VALVE SIZE	A	B	C	D	E	F	G	H	J	WEIGHT
14	9 1/8	26 11/16	48 5/8	59 1/2	21	7 1/2	15	12-1	46 3/8	850
16	9 1/8	26 11/16	47 5/8	59 1/2	23 1/2	8	16	16-1	45 3/8	900
18	10 1/8	32 1/4	55 3/4	68 1/4	25	8 1/2	17	16-1 1/8	53 3/4	1200
20	12	32 1/4	54 3/4	68 1/4	27 1/2	9	18	20-1 1/8	52 3/4	1250

TURNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
 OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
 ANNISTON, ALABAMA
 A DIVISION OF MCWANE INC.

DWN: TRIJ
 DATE: 9/1/12
 DWG. NO.
 LR-D3

14" THRU 20"
 NRS-RESILIENT SEAT GATE VALVE
 C515-STYLE 7561
 (WITH BEVEL GEAR)
 FLANGED ENDS



VALVE SIZE	A	B	C	D	E	F	G	H	K	J	L	WEIGHT
14	9 1/8	26 11/16	48 5/8	59 1/2	20 1/4	8 1/2	16 3/4	12-1	10-3/4	46 3/8	14 15/16	850
16	9 1/8	26 11/16	47 5/8	59 1/2	22 1/2	8 1/2	16 1/4	16-1	12-3/4	45 3/8	16 15/16	900
18	10 1/8	32 1/4	55 3/4	68 3/4	24 3/4	9 3/8	18 1/8	16-1 1/8	12-3/4	53 3/4	18 15/16	1200
20	10 1/8	32 1/4	54 3/4	68 3/4	27	9	18	20-1 1/8	14-3/4	52 3/4	20 15/16	1250

URNS TO OPEN: 14" & 16"=100 / 18" & 20"=189
OPTIONAL 24" DIAMETER HANDWHEEL

M&H VALVE COMPANY
ANNISTON, ALABAMA
A DIVISION OF MCWANE INC.

DWN: TRIJ
DATE: 9/1/12
DWG. NO.
LR-D5

14" THRU 20"
RESILIENT SEAT GATE VALVE
C515-STYLE 7950
(WITH BEVEL GEAR)
TAPPING VALVE