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THE INTEGRATED SOLUTION FOR TREATMENT PLANT NEEDS

Combining expertise from eight key water infrastructure brands in the McWane family of companies, McWane Plant & Industrial (MPI) provides a singular access point for the essential products and service required for any water or wastewater plant project.

WHY MPI?

We're a new kind of company formed on the basis of three simple goals:

- To provide a primary source for best-in-class products from time-tested brands
- Offer veteran specialists as resources for any plant project of any scale
- Increase the ease and efficiency of the planning and completion of our clients' projects

Our dedicated team is comprised of dozens of treatment plant specialists with decades of experience. We work cooperatively with industry partners to give each project the attention it deserves, providing unprecedented levels of communication, access and collaboration.

Our support teams work within dedicated service regions allowing our experts to apply regionally specific knowledge, including state regulations, codes and environmental specifications. Our nationally certified Associate Design-Build Professionals are a valuable asset to Design-Build projects.

The extended manufacturing capabilities of MPI mean your precise requirements are closer in reach and delivered faster with less legwork from you. We offer products that conform to rigorous industry standards and can work with your team to customize and fulfill unique requests. As part of our commitment to American workers and industries, we're proud of our ability to provide products from domestic facilities and to meet all domestic funding requirements.

MPI - best in-class

RESILIENT SEATED GATE VALVE

C515 2"-54"



PRODUCT OVERVIEW

Resilient seated gate valves were introduced to the waterworks industry in the 1980s and became a dominant preference for use in distribution systems. Valves comply with AWWA C515 reduced wall standard. The valve contains a wedge fully encapsulated with EPDM rubber that is permanently bonded to the wedge and meets ASTM D429. The valve body, bonnet, and stuffing plate are

coated with fusion bonded epoxy (FBE) and applied in accordance with AWWA C550 and is ANSI/NSF 61/372 certified. Optional configurations also include non-rising stem (NRS) or outside screw and yoke (OS&Y) and can be ordered with a spur or bevel gear.

KEY CHARACTERISTICS	
Size Range	2"-54"
Materials	Body/Bonnet/Stuffing Box ATSM A-536 Ductile Iron, ASTM A126 Class B Cast Iron, Fully Encapsulated EPDM wedge
Stem materials	Bronze, 304 SS, 316 SS
Pressure Range	250 PSI Working Pressure
Temperature Range	33°F- 125 °F
Body Style	NRS or OS&Y, FLG, MJ or MJ x FLG and MJ x Tap
Actuator Types	Spur or Bevel Gearing, Electric Motor Operator upon request
Standards	AWWA C509, AWWA C515, ANSI/NSF 61/372 Certified



RESILIENT SEATED GATE VALVEFEATURES & BENEFITS

STANDARD FEATURES

- Body/Bonnet/Stuffing Box: ASTA A-536 Grade 70-50-5 Ductile Iron
- ASTM A126 Class B cast iron available in 2"-12"
- Wedge: Fully encapsulated with EPDM meets ASTM D249
- 250 PSI working pressure
- Valves available in NRS and OS&Y
- Manganese bronze stem (NRS 2"-12" and 14"-24" OS&Y)
- 2"-12" OS&Y 304 SS stem
- 304 SS Fasteners
- 18" and above require gearing
- 30" and above come standard with CleanTrack™ Technology; a roller, track and scraper system

ADDITIONAL FEATURES

- Low Ease of Maintenance: Provides long service life without the need to cycle more than once a year. All internal parts are accessible without removing the valve body from the line.
- Minimal Flow Loss: All valves are smooth, unobstructed & free of pockets, cavities, & depressions in the seat area allowing minimal flow loss and lower pumping costs.
- Corrosion Resistant: Fusion bonded epoxy coatingprotects both the interior and exterior of the valve.
 Exterior is suitable for overcoating for matching color coordination in plant settings or buried service applications.
- ANSI/NSF 61/372 certified
- Suitable for potable water or wastewater service applications
- Tamper/Supervisory Switch available on 2.5" 12" OS&Y
- Post Plates available 3" 24"





RESILIENT SEATED GATE VALVEFEATURES & BENEFITS

RESILIENT WEDGE GATE VALVE WITH CLEANTRACK™ TECHNOLOGY

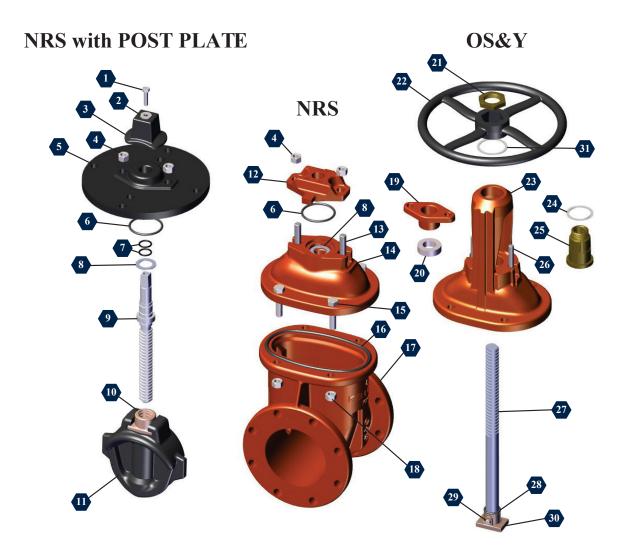
In America today, systems are increasing their demand for larger-sized water lines. With these growing demands, Kennedy has made the commitment to meet and surpass previous large resilient seated gate valve requirements with a new concept- CleanTrack™ Technology.

Sediment buildup in valves has been a costly problem since the first water valves were created. In years past, systems with sediment-laden valves faced time consuming and costly valve removal or repair. Advanced large double disc technologies of decades past used various methods to clear the line of debris prior to closing.

MPIs 24"-54" gate valves have taken the best of the century-old double disc design and integrated it with the best of the latest resilient seated gate valve design and technology, to create valves with CleanTrack™ technology. CleanTrack™ uses a unique roller-scraper system that automatically cleans the track in the valve body when the valve is closing. Less sediment buildup makes for improved performance which means reduced maintenance and lower potential replacement costs.



RESILIENT SEATED GATE VALVE COMPONENTS



NO.	DESCRIPTION	MATERIAL	NO.	DESCRIPTION	MATERIAL
1	Op-Nut Bolt	Stainless Steel	17	Body	Ductile Iron
2	Op-Nut Washer	Stainless Steel	18	Cover / Body Nut	Stainless Steel
3	Op-Nut	Ductile Iron	19	Packing Gland	Ductile Iron
4	Post Plate / Stuffing Box Nut	Stainless Steel	20	Packing	Garlock Style 18
5	Post Plate	Cast Iron	21	OS&Y Wheel Nut	Bronze
6	Post Plate / Stuffing Box O-Ring	Rubber	22	Hand Wheel	Cast Iron
7	Stem O-Rings	Rubber	23	OS&Y Cover	Ductile Iron
8	Thrust Teflon Washer	Plastic	24	OS&Y Yoke Washer	Plastic
9	NRS Stem	Stainless Steel	25	OS&Y Yoke Nut	Bronze
10	NRS Stem Nut	Bronze	26	Packing Stud	Stainless Steel
11	Resilient Wedge	EPDM Encapsulated Ductile Iron	27	OS&Y Stem	Stainless Steel
12	Stuffing Box	Ductile Iron	28	OS&Y Stem O-Ring	Rubber
13	Post Plate / Stuffing Box Plate Bolt	Stainless Steel	29	OS&Y Stem Pin	Stainless Steel
14	NRS Cover	Ductile Iron	30	OS&Y Stem Head	Stainless Steel
15	Cover / Body Bolt	Stainless Steel	31	Handwheel Yoke Washer	Brass
16	Cover / Body O-Ring	Rubber			



ADDITIONAL PARTSOPTIONS & ACCESSORIES

Bypass Valves

The main purpose of a Bypass Valve is to help with direct pressure on the wedge seat, preventing damaging the main valves seat when opening the Bypass Valve prior to the main valve. A Bypass Valve is available on size 30" and up.

Gearing

Bevel or Spur gears optional on 14" & 16" valves and required 18" & up for proper operation.

Indicator Posts

Indicator Posts provide the reliable way of operating a buried or inaccessible gate valve for opening or closing purposes. Indicator Posts come with a handwheel. As an option an "L" shaped handle is available which can be fitted with a secure lock. Several models are available.

T-Handles

Light weight and portable t-wrench available in steel or stainless steel.

Stem Guides

Stem guides are installed as wall brackets to support extension arms. They are available in three sizes. They are fully adjustable and are made of high strength ductile iron or stainless steel. They should be installed at a height which does not permit the stem to be unsupported through a length or more than 10 feet.

Electric Motor Operators

A variety of electric motor operators are available to meet your specifications.

Extension Stems

Valve extension stems are available in steel, or bronze and are provided with a 2" square nut or handwheel as specified. When ordering extension stems state the length and give distance from bottom face of flange to top of handwheel or nut, or to base of floor stand.

Floor Boxes

Floor boxes are designed for use with non-rising stem valves. Installed in concrete floors or slabs they provide support for the extension stem and a cover for the operating nut on the stem.

Chainwheels

Chainwheels are normally used for operation of valves located overhead. They are provided with chain guides to prevent chain from slipping off the wheel. They can be furnished rust proof if specified. Chain wheels are mounted directly on the handwheel and are of approximately the same diameter.

ENGINEERING FEATURES

GEARING

Horizontal & vertical gearing available. 18"-24" recommended. 30" and up required

BRONZE STEM

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

STAINLESS STEEL HARDWARE

Stainless steel nuts and bolts provide long-life corrosion protection.

100% COATED WEDGE

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

(See Figure 1.)

ACCEPT TAPPING

Cutter Valves accept full-size tapping cutter (24"-48").

REPLACEABLE O-RINGS

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

THRUST BEARINGS

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

EPOXY COATING

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

NO FLAT GASKETS

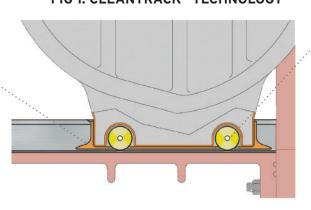
O-ring seals at stuffing box and bonnet to body flanges ensures the best possible seal. There are no flat gaskets.

STAINLESS STEEL TRACK



BRONZE SCRAPER

Bronze scraper affixed to resilient wedge wing designed for long life performance.



BRONZE ROLLERS

Rollers into scraper protect valve body from damage.

STAINLESS STEEL TRACK

316 stainless steel track for corrosion and wear resistance.

*Rollers, Tracks & Scrapers (RTS) standard on valves 24" & up.



RECOMMENDED SPECIFICATIONS

RESILIENT WEDGE GATE VALVE 2"-54"

GENERAL

The valves shall be either non-rising or rising stem, opening by turning left to right, and provided with 2" square operating nut or a handwheel with the "open" and an arrow cast in the metal to indicate the direction to open.

The body, bonnet and stuffing plate shall be coated with fusion bonded epoxy, both interior and exterior on body and bonnet. Epoxy shall be applied in accordance with AWWA C550 and be NSF61 and NSF372 certified. Position Indicator Valve plates shall be painted black.

Waterway shall be smooth, unobstructed & free of pockets, cavities, & depressions in the seat area. Valves shall be able to accept a full-size tapping cutter.



REFERENCE STANDARDS

Resilient Seated Gave Valves shall conform to the latest version of AWWA Standard C515 covering Resilient Seated Gate Valves for water supply service. Valves used in portable water service shall be certified to NSF/ANSI 61 "Drinking Water System Components- Health Effects" and certified to be lead free in accordance with NSF/ANSI 372.

VALVE BODY

The AWWA C515 valves shall have ductile iron body. The valve body shall be cast and manufactured to ASTM A-536 Grade 70-50-5 ductile iron. The wedge and disc shall be totally encapsulated with rubber. The sealing rubber shall be permanently bonded to the wedge to meet ASTM tests for rubber metal bond ASTM D249. The valve body interior and exterior shall be coated with fusion bonded epoxy suitable for overcoating when required.

VALVE BONNET

The AWWA C515 valves shall be cast and manufactured to ASTM A-536 Grade 70-50-5 ductile iron. The valve bonnet shall be cast and manufactured to ASTM A-536 Grade 70-50-5 ductile iron. The valve bonnet interior and exterior shall be coated with fusion bonded epoxy suitable for overcoating when required.

VALVE WEDGE

Valve wedge shall feature a metal insert fully encapsulated with EPDM meeting ASTM D249.

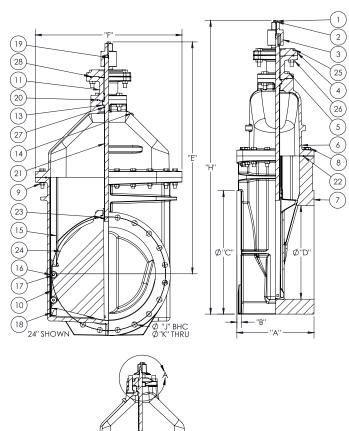
TESTING

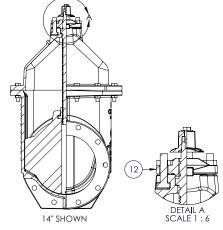
All valves should be tested in accordance with AWWA C515 requirements. Manufacturers shall provide written confirmation of testing when requested by customer.

C515 NON-RISING RESILIENT SEATED GATE VALVE FLANGED ENDS

SIZES 2"-24"

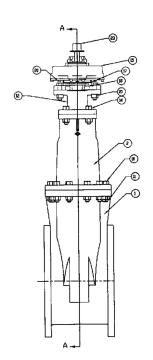
		PARTS LIST					
SIZE	Α	В					
1	Bolt	GR 2 ZN SAE J429					
2	Washer	GR 2 ZN SAE J429					
3	OP Nut	Grey Iron ASTM A126 Class B					
4	Adaptor Plate (18-24")	Ductile Iron ASTM A536 70-50-05					
5	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600					
6	Cover	Ductile Iron ASTM A536 70-50-05					
7	Body	Ductile Iron ASTM A536 70-50-05					
8	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600					
9	Hex Nut	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600					
10	Wedge Cover (18"-20")	Delrin					
11	Extension (18"-24")	Ductile Iron ASTM A536 70-50-05					
12	Stuffing Box (2"-16")	Ductile Iron ASTM A536 70-50-05					
13	Thrust Washer	Delrin					
14	Pipe Plug (14"-24")	18-8SS					
15	Track (24")	AL Bronze ASTM B148 C95400					
16	Roller (24")	Copper Alloy ASTM B584 C95400					
17	Pin (24")	316 Stainless Steel					
18	Scraper (24")	Copper Alloy ASTM B584 C95400					
19	Square Key (18"-24")	GR 2 ZN SAE J429					
20	0-Ring	EPDM					
21	Stem	Manganese Bronze ASTM B584 C86700 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (2"-12")					
21	Stelli	Manganese Bronze ASTM B584 C86200 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (14"-24")					
22	0-Ring	EPDM					
23	Stem Nut	Manganese Bronze ASTM B584 C86700 (2"-12")					
23	Stem Nut	Copper Alloy ASTM B584 C87850 (14"-24")					
24	Wedge	Ductile Iron ASTM A536 70-50-05 / EPDM Rubber					
25	Ind. Post Plate Hex Bolts	ASTM F593 S30400					
26	Ind. Post Plate Hex Nuts	ASTM F594 S30400					
27	Stem O-Ring	EPDM					
28	Ind. Post Plate 0-Ring	EPDM					

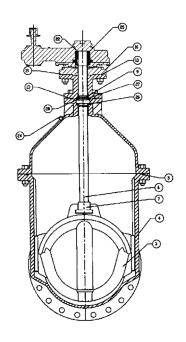


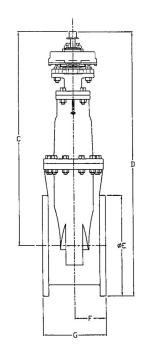


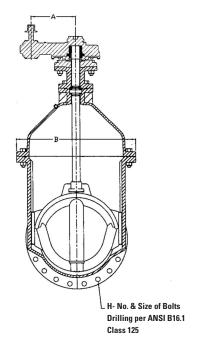
						DIME	NSIONS			
SIZE	Α	В	С	D	E	F	Н	J	К	No. Turns to Open
2	7″	5/8"	6"	2"	11-7/16"	6"	14-7/16"	4-3/4"	5/8" x 4	6-1/2
2-1/2	7-1/2"	11/16"	7″	2-1/2"	12-1/16"	7"	15-9/16"	5-1/2"	5/8" x 4	8
3	8"	3/4"	7-1/2"	3"	12-3/8"	7-1/2"	16-15/16"	6"	5/8" x 4	10
4	9"	15/16"	9"	4-1/4"	14-3/4"	9"	20-1/4"	7-1/2"	5/8" x 4	13
6	10-1/2"	1″	11"	6-1/4"	19"	11-3/8"	24-1/8"	9-1/2"	3/4" x 8	19
8	11-1/2"	1-1/8"	13-1/2"	8-1/4"	22-1/2"	13-1/2"	29-1/2"	11-3/4"	3/4" x 8	25
10	13"	1-3/16"	16"	10-1/4"	26-1/2"	16"	34-1/2"	14-1/4"	7/8" x 12	31
12	14"	1-1/4"	19"	12-1/4"	30"	19"	39-1/2"	17"	7/8" x 12	37
14	15"	1-3/8"	21-1/16"	14-1/4"	38-5/16"	26-11/16"	49"	18-3/4"	1" x 12	52
16	16"	1-7/16"	23-1/2"	16-1/4"	37-5/16"	26-11/16"	49-1/8"	21-1/4"	1" x 16	52
18	17"	1-9/16"	25"	18-1/4"	56-1/16"	32-1/4"	68-9/16"	22-3/4"	1-1/4" x 16	64
20	18"	1-11/16"	27-1/2"	20-1/4"	56-1/4"	32-1/4"	70"	25"	1-1/4" x 20	64
24	20"	1-7/8"	32"	24-1/4"	60-1/8"	38"	76-1/8"	29-1/2"	1-3/8" x 20	88

C515 NON-RISING RESILIENT SEATED GATE VALVE FLANGED ENDS WITH SPUR GEARING SIZES 14"-24"









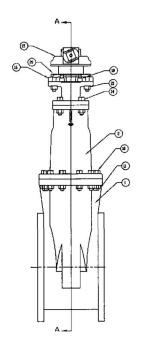
	DIMENSIONS												
SIZE	Α	В	C	D	E	F	G	Н					
14	8	26-11/16	52-1/8	63	21	7-1/2	15	1" x 12					
16	8	26-11/16	51-1/8	63	23-1/2	8	16	1" x 16					
18	12	32-1/4	58	70-1/2	25	8-1/2	17	1-1/8" x 16					
20	12	32-1/4	57	70-1/2	27-1/2	9	18	1-1/8" x 20					
24	12	38	62-5/8	78-5/8	32	10	20	1-3/8" x 20					

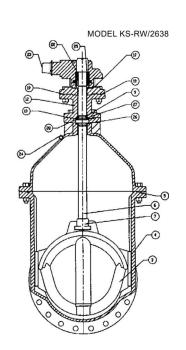
30" & larger sizes require gearing.

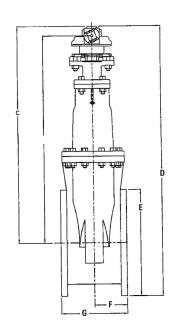
24" are now furnished with rollers, tracks, and scrapers.

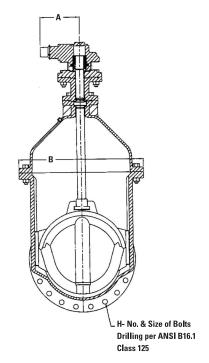
		PARTS LIST		PARTS LIST					PARTS LIST			
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304	
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304	
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	0-ring	Rubber	NBR	22	Key	Steel		
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12	
5	0-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel	
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023	
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700	
9	0-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700	
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	0-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin	

C515 NON-RISING RESILIENT SEATED GATE VALVE FLANGED ENDS WITH BEVELED GEARING SIZES 14"-24"









DIMENSIONS												
Α	В	С	D	E	F	G	Н	J				
9-1/8	26-11/16	48-5/8	59-1/2	21	7-1/2	15	1" x 12	46-3/8				
9-1/8	26-11/16	47-5/8	59-1/2	23-1/2	8	16	1" x 16	45-3/8				
10-1/8	32-1/4	55-3/4	68-1/4	25	8-1/2	17	1-1/8" x 16	55-3/4				
10-1/8	32-1/4	54-3/4	68-1/4	27-1/2	9	18	1-1/8" x 20	52-3/4				
10-1/8	38	60-3/8	76-1/4	32	10	20	1-3/8" x 20	57-7/8				
	9-1/8 9-1/8 10-1/8	9-1/8 26-11/16 9-1/8 26-11/16 10-1/8 32-1/4 10-1/8 32-1/4	9-1/8 26-11/16 48-5/8 9-1/8 26-11/16 47-5/8 10-1/8 32-1/4 55-3/4 10-1/8 32-1/4 54-3/4	A B C D 9-1/8 26-11/16 48-5/8 59-1/2 9-1/8 26-11/16 47-5/8 59-1/2 10-1/8 32-1/4 55-3/4 68-1/4 10-1/8 32-1/4 54-3/4 68-1/4	A B C D E 9-1/8 26-11/16 48-5/8 59-1/2 21 9-1/8 26-11/16 47-5/8 59-1/2 23-1/2 10-1/8 32-1/4 55-3/4 68-1/4 25 10-1/8 32-1/4 54-3/4 68-1/4 27-1/2	A B C D E F 9-1/8 26-11/16 48-5/8 59-1/2 21 7-1/2 9-1/8 26-11/16 47-5/8 59-1/2 23-1/2 8 10-1/8 32-1/4 55-3/4 68-1/4 25 8-1/2 10-1/8 32-1/4 54-3/4 68-1/4 27-1/2 9	A B C D E F G 9-1/8 26-11/16 48-5/8 59-1/2 21 7-1/2 15 9-1/8 26-11/16 47-5/8 59-1/2 23-1/2 8 16 10-1/8 32-1/4 55-3/4 68-1/4 25 8-1/2 17 10-1/8 32-1/4 54-3/4 68-1/4 27-1/2 9 18	A B C D E F G H 9-1/8 26-11/16 48-5/8 59-1/2 21 7-1/2 15 1" x 12 9-1/8 26-11/16 47-5/8 59-1/2 23-1/2 8 16 1" x 16 10-1/8 32-1/4 55-3/4 68-1/4 25 8-1/2 17 1-1/8" x 16 10-1/8 32-1/4 54-3/4 68-1/4 27-1/2 9 18 1-1/8" x 20				

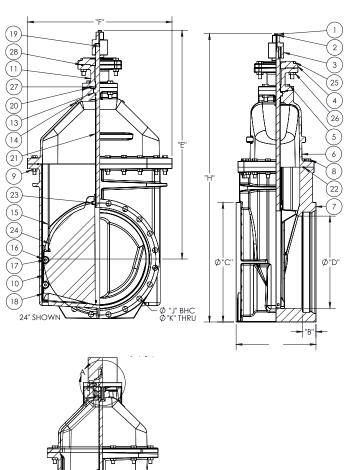
30" & larger sizes require gearing.

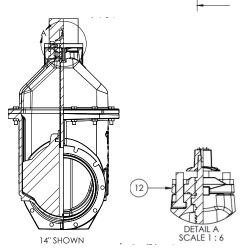
24" are furnished with rollers, tracks, and scrapers.

		PARTS LIST		PARTS LIST					PARTS LIST			
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304	
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304	
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	0-ring	Rubber	NBR	22	Key	Steel		
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12	
5	0-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel	
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023	
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700	
9	0-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700	
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	0-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin	

C515 NON-RISING RESILIENT SEATED GATE VALVE **MECHANICAL JOINT**

SIZES 2"-24"

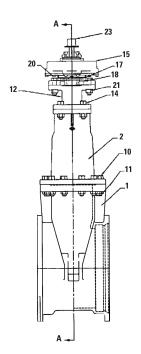


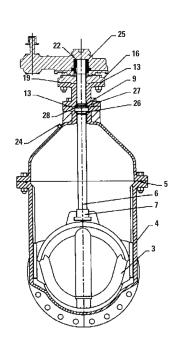


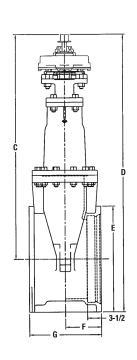
PARTS LIST									
SIZE	Α	В							
1	Bolt	GR 2 ZN SAE J429							
2	Washer	GR 2 ZN SAE J429							
3	OP Nut	Grey Iron ASTM A126 Class B							
4	Adaptor Plate (18-24")	Ductile Iron ASTM A536 70-50-05							
5	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600							
6	Cover	Ductile Iron ASTM A536 70-50-05							
7	Body	Ductile Iron ASTM A536 70-50-05							
8	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600							
9	Hex Nut	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600							
10	Wedge Cover (18"-20")	Delrin							
11	Extension (18"-24")	Ductile Iron ASTM A536 70-50-05							
12	Stuffing Box (2"-16")	Ductile Iron ASTM A536 70-50-05							
13	Thrust Washer	Delrin							
14	Pipe Plug (14"-24")	18-8SS							
15	Track (24")	AL Bronze ASTM B148 C95400							
16	Roller (24")	Copper Alloy ASTM B584 C95400							
17	Pin (24")	316 Stainless Steel							
18	Scraper (24")	Copper Alloy ASTM B584 C95400							
19	Square Key (18"-24")	GR 2 ZN SAE J429							
20	0-Ring	EPDM							
21	Stem	Manganese Bronze ASTM B584 C86700 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (2"-12")							
21	Stelli	Manganese Bronze ASTM B584 C86200 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (14"-24")							
22	0-Ring	EPDM							
23	Stem Nut	Manganese Bronze ASTM B584 C86700 (2"-12")							
23	Stem Nut	Copper Alloy ASTM B584 C87850 (14"-24")							
24	Wedge	Ductile Iron ASTM A536 70-50-05 / EPDM Rubber							
25	Ind. Post Plate Hex Bolts	ASTM F593 S30400							
26	Ind. Post Plate Hex Nuts	ASTM F594 S30400							
27	Stem 0-Ring	EPDM							
28	Ind. Post Plate 0-Ring	EPDM							

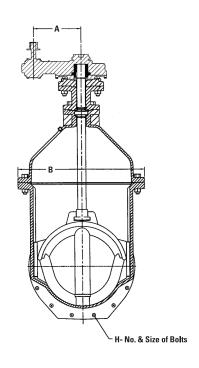
						DIME	NSIONS			
SIZE	Α	В	С	D	Е	F	Н	J	К	No. Turns to Open
2	8-1/4"	2-1/2"	4-1/2"	2"	10-7/8"	6"	14-7/16"	4-3/4"	5/8" x 2	6-1/2
3	8-1/2"	2-1/2"	7-3/4"	3″	12-3/8"	7-1/2"	17"	6-1/8"	5/8" x 4	10
4	9-1/2"	2-1/2"	9-1/8"	4-1/4"	14-3/4"	9"	19-3/4"	7-1/2"	3/4" x 4	13
6	10-1/2"	2-1/2"	11-1/8"	6-1/4"	19"	11-3/8"	24-5/16"	9-5/8"	3/4" x 6	19
8	13-1/8"	2-1/2"	13-1/8"	8-1/4"	22-1/2"	13-1/2"	29-11/16"	11-3/4"	3/4" x 6	25
10	15-1/2"	2-1/2"	15-1/2"	10-1/4"	26-1/2"	16"	34-1/2"	14"	3/4" x 8	31
12	16"	2-5/8"	18"	12-1/4"	30"	19"	39"	16"	3/4" x 8	37
14	17"	3-1/2"	20-1/4"	14-1/4"	38-3/4"	26-11/16"	48-1/2"	18-3/4"	3/4" x 10	52
16	17"	3-1/2"	22-1/2"	16-1/4"	37-3/4"	26-11/16"	48-5/8"	21"	3/4" x 12	52
18	18-3/4"	3-1/2"	24-3/4"	18-1/4"	57-1/16"	32-1/4"	68-13/16"	23-1/4"	7/8" x 12	64
20	18"	3-1/2"	27"	20-1/4"	56-1/4"	32-1/4"	69-3/8"	25"-1/2	7/8" x 14	64
24	20"	3-1/2"	32"	24-1/4"	60-1/16"	38"	76-1/16"	29-1/2"	3/4" x 16	88

C515 NON-RISING RESILIENT SEATED GATE VALVE MECHANICAL JOINT WITH SPUR GEARING SIZES 14"-24"









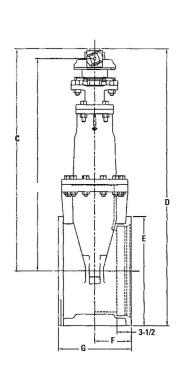
DIMENSIONS														
SIZE	Α	В	С	D	E	F	G	Н						
14	8	26-11/16	52-1/8	62-1/2	20-1/4	8-1/2	17	3/4" x 10						
16	8	26-11/16	51-1/8	62-1/2	22-1/2	8-1/2	17	3/4" x 12						
18	12	32-1/4	58	70-1/2	24-3/4	9	18	7/8" x 12						
20	12	32-1/4	57	70-1/2	27	9	18	7/8" x 14						
24	12	38	62-5/8	78-1/4	31-1/4	10-1/2	21	3/4" x 16						
	14 16 18 20	14 8 16 8 18 12 20 12	14 8 26-11/16 16 8 26-11/16 18 12 32-1/4 20 12 32-1/4	SIZE A B C 14 8 26-11/16 52-1/8 16 8 26-11/16 51-1/8 18 12 32-1/4 58 20 12 32-1/4 57	SIZE A B C D 14 8 26-11/16 52-1/8 62-1/2 16 8 26-11/16 51-1/8 62-1/2 18 12 32-1/4 58 70-1/2 20 12 32-1/4 57 70-1/2	SIZE A B C D E 14 8 26-11/16 52-1/8 62-1/2 20-1/4 16 8 26-11/16 51-1/8 62-1/2 22-1/2 18 12 32-1/4 58 70-1/2 24-3/4 20 12 32-1/4 57 70-1/2 27	SIZE A B C D E F 14 8 26-11/16 52-1/8 62-1/2 20-1/4 8-1/2 16 8 26-11/16 51-1/8 62-1/2 22-1/2 8-1/2 18 12 32-1/4 58 70-1/2 24-3/4 9 20 12 32-1/4 57 70-1/2 27 9	SIZE A B C D E F G 14 8 26-11/16 52-1/8 62-1/2 20-1/4 8-1/2 17 16 8 26-11/16 51-1/8 62-1/2 22-1/2 8-1/2 17 18 12 32-1/4 58 70-1/2 24-3/4 9 18 20 12 32-1/4 57 70-1/2 27 9 18						

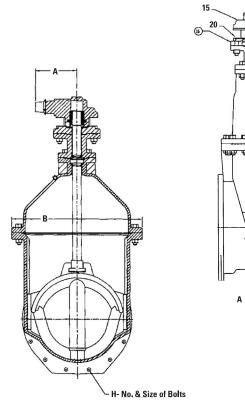
30" & larger sizes require gearing.

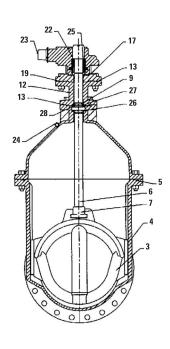
24" are now furnished with rollers, tracks, and scrapers.

		PARTS LIST			PARTS	S LIST		PARTS LIST				
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304	
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304	
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	0-ring	Rubber	NBR	22	Key	Steel		
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12	
5	0-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel	
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023	
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700	
9	0-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700	
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	0-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin	

C515 NON-RISING RESILIENT SEATED GATE VALVE MECHANICAL JOINT WITH BEVEL GEARING SIZES 14"-24"







	DIMENSIONS													
SIZE	SIZE A B			D	E	F	G	н	J					
14	9-1/8	26-11/16	48-5/8	59	20-1/4	8-1/2	17	3/4" x 10	46-5/8					
16	9-1/8	26-11/16	47-5/8	59	22-1/2	8-1/2	17	3/4" x 12	45-5/8					
18	10-1/8	32-1/4	55-3/4	68-1/4	24-3/4	9-5/32	18	7/8" x 12	53-3/4					
20	10-1/8	32-1/4	54-3/4	68-1/4	27	9-5/32	18	7/8" x 14	52-3/4					
24	10-1/8	38	59-7/8	75-1/8	31-1/2	9-1/2	19	3/4" x 16	57-3/8					

30" & larger sizes require gearing.

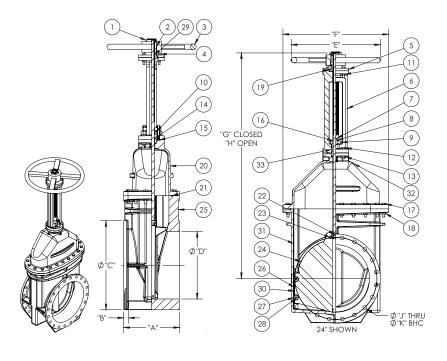
24" are furnished with rollers, tracks, and scrapers.

		PARTS LIST			PARTS	SLIST	PARTS LIST				
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	0-ring	Rubber	NBR	22	Key	Steel	
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12
5	O-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700
9	0-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	0-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin

C515 OS&Y RESILIENT SEATED GATE VALVE

FLANGED ENDS

SIZES 2"-24"

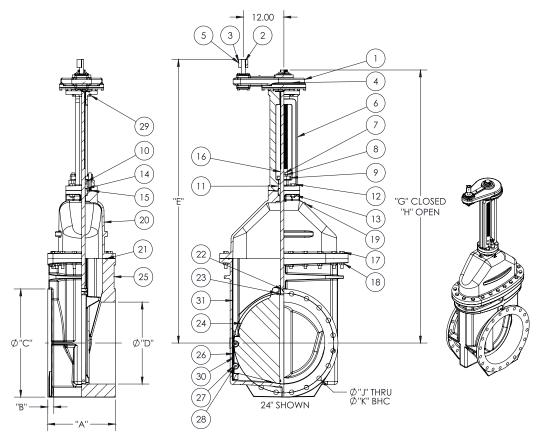


						DIMENSI	ONS				
SIZE	Α	В	С	D	E	F	G	Н	J	К	No. Turns to Open
2	7"	5/8"	6"	2"	7-1/4"	6"	13-3/32"	15-7/8"	5/8" x 4	4-3/4"	6-1/2
2-1/2	7-1/2"	11/16"	7"	2-1/2"	7-1/4"	7"	13-7/8"	16-3/8"	5/8" x 4	5-1/2"	8
3	8"	3/4"	7-1/2"	3"	10"	7-1/2"	15-5/8"	18-7/8"	5/8" x 4	6"	10
4	9"	15/16"	9"	4-1/4"	10"	9"	18-1/4"	22-3/4"	5/8" x 4	7-1/2"	13-1/2
6	10-1/2"	1"	11"	6-1/4"	12"	11-3/8"	23-3/4"	30-1/8"	3/4" x 8	9-1/2"	19-1/2
8	11-1/2"	1-1/8"	13-1/2"	8-1/4"	14"	13-1/2"	29-1/4"	37-3/4"	3/4" x 8	11-3/4"	25-1/2
10	13"	1-3/16"	16"	10-1/4"	18"	16"	35-3/8"	45-3/4"	7/8" x 12	14-1/4"	31-1/2
12	14"	1-1/4"	19"	12-1/4"	18"	19"	40-5/8"	53-1/8"	7/8" x 12	17"	37-3/4
14	15"	1-3/8"	21-1/16"	14-1/4"	22"	26-11/16"	59-3/4"	74-3/4"	1" x 12	18-3/4"	52
16	16"	1-7/16"	23-1/2"	16-1/4"	22"	26-11/16"	59-3/4"	74-3/4"	1" x 16	21-1/4"	52
18	17"	1-9/16"	25"	18-1/4"	24"	32-1/4"	71-1/4"	92-9/16"	1-1/4" x 16	22-3/4"	64
20	18"	1-11/16"	27-1/2"	20-1/4"	24"	32-1/4"	67-3/8"	94-3/8"	1-1/4" x 20	25"	64
24	20"	1-7/8"	32"	24-1/4"	32"	38"	81-3/8"	110-5/8"	1-3/8" x 20	29-1/2"	88

Bronze ASTM B584 C886700 (2"-12") Bronze ASTM B584 C886700 (2"-12") Bronze ASTM B584 C83600 (14"-24") Bronze ASTM B584 C83600 (14"-24") Bronze ASTM B584 C83600 (14"-24") Bronze ASTM A536 70-50-05 (2"-1 Gray Iron ASTM A126 Class B (14"-24") Gray Iron ASTM A126 Class B (14"-24") Gray Iron ASTM A126 Class B (14"-24") Bronze ASTM B584 C83600 (14"-24") ASTM F593 S30400 / S31600 Follower Plate (14"-16") Gray Iron ASTM A126 Class B (14"-24") Bronze ASTM B584 C83600 (14"-24") Bronze ASTM B584 C83600 (14"-24") Bronze ASTM B584 C83600 (14"-24") Bushing (14-24") ZN A307 Grade B / ASTM F593 S30400 / S31600 Follower Plate (14"-16") Gray Iron ASTM A126 Class B Ductile Iron ASTM A536 70-50-05 (2"-1 Bronze ASTM B584 C83600 (14"-24") Bronze ASTM B584 C83600 (14"-24") Bronze ASTM B584 C83600 (14"-24") Hex Cap Screw			PARTS LIST
Hold Down Nut	SIZE	DESCRIPTION	T T T T T T T T T T T T T T T T T T T
Hold Down Nut			
Bronze ASTM B584 C83600 (14"-24"	1	Hold Down Nut	Bronze ASTM B584 C83600 (14"-24")
Bronze ASTM B584 C33600 (14"-24"		V.I. N.	Bronze ASTM B584 C86700 (2"-12")
Stem Handwheel Gray Iron ASTM A126 Class B (14"-24")	2	Yoke Nut	Bronze ASTM B584 C83600 (14"-24")
Gray Iron ASTM A126 Class B (14"-24") 5	2	Handushaal	Ductile Iron ASTM A536 70-50-05 (2"-12")
5 Adapter (14"-24") Gray Iron ASTM A126 Class B 6 Yoke Ductile Iron ASTM A536 70-50-05 (2"-1 Gray Iron ASTM A126 Class B (14"-24") 7 Stud (14"-24") ASTM F593 S30400 / S31600 8 Hex Nut ZN A307 Grade B / ASTM F593 S30400 / S 31600 9 Follower Plate (14"-16") Gray Iron ASTM A126 Class B Ductile Iron ASTM A536 70-50-05 (2"-1 Bronze ASTM B584 C83600 (14"-24") 10 Packing Gland Ductile Iron ASTM A536 70-50-05 (2"-1 Bronze ASTM B584 C83600 (14"-24") 11 Hex Nut ZN A307 Grade B / ASTM F593 S30400 / S ASTM R593 S30400 / S ASTM A57M A57M D2000 (2"-12") 15 Yoke 0-Ring Buna-N ASTM D2000 (2"-12") 16 Stem 304SS ASTM A276 S30400 / 316SS ASTM S31600 / ECO Brass ASTM B371 C69300 / S Bronze "A" (Everdur) ASTM B98 C65500 (3000 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (3000 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (3000 / Silicon Bronnze "A" (Everdur) ASTM P593 S30400 / S C65500 (14"-24") 17 Hex Cap Screw ZN A307 Grade B / ASTM F593 S30400 / S C65500 (14"-24") 19 Flat Washer ZN A307 Grade B / ASTM F593 S30400 / S C65500 (14"-24") 20 Cover Ductile Iron ASTM A536 70-50-05 (2"-1 Ductile Iron ASTM A536 65-45-12 (14"-2") <	<u> </u>	панимнеен	Gray Iron ASTM A126 Class B (14"-24")
Ductile Iron ASTM A536 70-50-05 (2"-1 Gray Iron ASTM A126 Class B (14"-24") RSTM F593 S30400 / S31600 Recompliance Stud (14"-24") ASTM F593 S30400 / S31600 Recompliance Stud (14"-24") ASTM F593 S30400 / S31600 Recompliance Stud (14"-24") Gray Iron ASTM A126 Class B Ductile Iron ASTM A536 70-50-05 (2"-1 Bronze ASTM B584 C83600 (14"-24") Hex Nut	4	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
6 Yoke Gray Iron ASTM A126 Class B (14"-24") 7 Stud (14"-24") ASTM F593 S30400 / S31600 8 Hex Nut ZN A307 Grade B / ASTM F593 S30400 / S 9 Follower Plate (14"-16") Gray Iron ASTM A126 Class B 10 Packing Gland Ductile Iron ASTM A536 70-50-05 (2"-1 11 Hex Nut ZN A307 Grade B / ASTM F593 S30400 / S 12 Hex Cap Screw GR 2 ZN SAE J429 / 304SS ASTM 18-8 13 Hex Nut ZN A307 Grade B / ASTM F593 S30400 / S 14 Bushing (14-24") ZN A307 Grade B / ASTM F593 S30400 / S 15 Yoke 0-Ring Buna-N ASTM D2000 (2"-12") 16 Stem S31600 / ECO Brass ASTM B371 C69300 / S 16 Stem S31600 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (Bronnze "A" (Everdur) ASTM B98 C65500 (Bronnze "A" (Everdur) ASTM B98 C65500 (14"-24") 17 Hex Cap Screw ZN A307 Grade B / ASTM F593 S30400 / S 18 Hex Nut ZN A307 Grade B / ASTM F593 S30400 / S 19 Flat Washer ZN A307 Grade B / ASTM F593 S30400 / S 20 Cover Ductile Iron ASTM A536 70-50-05 (2"-1 <	5	Adapter (14"-24")	Gray Iron ASTM A126 Class B
Stud (14"-24")	6	Voke	Ductile Iron ASTM A536 70-50-05 (2"-12")
B		1010	Gray Iron ASTM A126 Class B (14"-24")
Pollower Plate (14"-16") Gray Iron ASTM A126 Class B	7	Stud (14"-24")	
Ductile Iron ASTM A536 70-50-05 (2"-1 Bronze ASTM B584 C83600 (14"-24" Bushing (14-24")	8		ZN A307 Grade B / ASTM F593 S30400 / S31600
10	9	Follower Plate (14"-16")	
Bronze ASTM B584 C83600 (14"-24"	10	Packing Gland	Ductile Iron ASTM A536 70-50-05 (2"-12")
12		- a a ming a land	Bronze ASTM B584 C83600 (14"-24")
13	11	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
14	12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS
Stem Buna-N ASTM D2000 (2"-12")	13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
15	14	Bushing (14-24")	ZN A307 Grade B / ASTM F593 S30400 / S31600
Stem Stem Sal	15	Voko O Pina	Buna-N ASTM D2000 (2"-12")
Saleou / ECO Brass ASTM B371 C69300 / Bronnze "A" (Everdur) ASTM B98 C65500 (14"-24")	13	Toke o-ning	EPDM (14"-24")
304SS ASTM A276 \$30400 / 316SS ASTM S31600 / Silicon Bronnze "A" (Everdur) AS (C65500 (14"-24"))			304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / ECO Brass ASTM B371 C69300 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (2"-12")
17	16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (14"-24")
18	17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
Text	18		ZN A307 Grade B / ASTM F593 S30400 / S31600
Ductile Iron ASTM A536 70-50-05 (2"-1	19	Flat Washer	ZN A307 Grade B / ASTM F593 S30400 / S31600
Ductile Iron ASTM A536 65-45-12 (14"- 21	\neg		
21 Cover 0-Ring Buna-N ASTM D2000 (2"-12")	20	Cover	· · · · ·
21 Cover 0-Ring EPDM (14"-24")	-		
Stem O-Ring	21	Cover O-Ring	
22 Stem 0-Ring EPDM (14"-24") Bronze ASTM B584 CDA 844 (2"-12" Bronze ASTM B584 CR7610 / Bronze ASTM C87850 / Bronze ASTM B763 C99500 (NDZ) (Bronze ASTM B584 C83600 (24")	+		
23 Stem Nut Bronze ASTM B584 CDA 844 (2"-12" Bronze ASTM B584 CB7610 / Bronze ASTM C87850 / Bronze ASTM B763 C99500 (NDZ) (Bronze ASTM B584 C83600 (24")	22	Stem 0-Ring	
23 Stem Nut Bronze ASTM B584 C87610 / Bronze ASTM C87850 / Bronze ASTM B763 C99500 (NDZ) (Bronze ASTM B584 C83600 (24")	+		
23 Stem Nut C87850 / Bronze ASTM B763 C99500 (NDZ) (Bronze ASTM B584 C83600 (24")			
	23	Stem Nut	C87850 / Bronze ASTM B763 C99500 (NDZ) (14"-20")
24 Wedge	24	Wedge	Ductile Iron ASTM A584 70-50-05 & EPDM (2"-12")
	_		Ductile Iron ASTM A536 65-45-12 & EPDM (14"-24")
25 Body-Flanged Type Ductile Iron ASTM A536 65-45-12 (2"-2-	25	Body-Flanged Type	Ductile Iron ASTM A536 65-45-12 (2"-24")
26 Scraper (24") Bronze ASTM B584 C83600	26	Scraper (24")	Bronze ASTM B584 C83600
27 Roller (24") Bronze ASTM B584 C83600	27		
28 Pin (24") Stainless Steel AISI 303	28	Pin (24")	Stainless Steel AISI 303
29 Square Key (18"-24") GR 2 ZN ZAE J429	29		GR 2 ZN ZAE J429
30 Wedge Cap (18"-20") Delrin	30	Wedge Cap (18"-20")	Delrin
31 Track (24") Stainless Steel AISI 316	31	Track (24")	Stainless Steel AISI 316
32 Pipe Plug (14"-24") 18-8SS	32	Pipe Plug (14"-24")	18-8SS
33 Packing Braided, Lubricated (Non-Asbestos	33	Packing	Braided, Lubricated (Non-Asbestos)

C515 OS&Y RESILIENT SEATED GATE VALVE FLANGED ENDS WITH SPUR GEARING

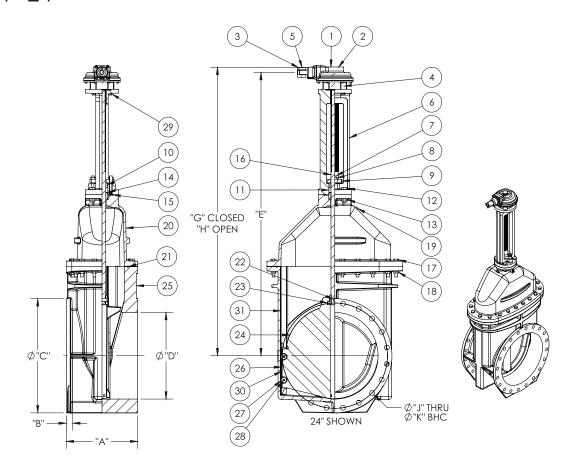
SIZES 14"-24"



DIMENSIONS												
SIZE	Α	A B C D			E G			J	K	No. Turns to Open		
14	15"	1-3/8"	21-1/16"	14-1/4"	64-1/2"	59-3/4"	74-3/4"	1" X 12	18-3/4"	52		
16	16"	1-7/16"	23-1/2"	16-1/4"	64-1/2"	59-3/4"	74-3/4"	1" X 16	21-1/4"	52		
18	17"	1-9/16"	25"	18-1/4"	74-5/8"	71-1/4"	92-9/16"	1-1/4" X 16	22-3/4"	64		
20	18"	1-11/16"	27-1/2"	20-1/4"	74-5/8"	67-3/8"	94-3/8"	1-1/4" X 20	25"	64		
24	20"	1-7/8"	32"	24-1/4"	83-1/2"	81-3/8"	110-5/8"	1-3/8" X 20	29-1/2"	88		

		PARTS LIST			PARTS LIST		PARTS LIST			
No.	PART	MATERIAL	No.	PART	MATERIAL	No.	PART	MATERIAL		
1	EXEECO IS7	Bronze ASTM B584 C83600	12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS	23	Stem Nut	Bronze ASTM B584 C87610 / Bronze ASTM B584 C87850 /		
2	Square Key	GR 2 ZN SAE J429	13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600	1		Bronze ASTM B763 C99500 (NDZ) (14"-20")		
3	OP Nut	Gray Iron ASTM A126 Class B	14	Bushing	ZN A307 Grade B / ASTM F593 S30400/S31600			Bronze ASTM B584 C83600 (24")		
4	Output Sleeve	Aluminum Bronze ASTM B505 C95800	15	Yoke O-ring	EPDM	24	Wedge	Ductile Iron ASTM A536 Grade 65-45-12		
5	Roll Pin	Stainless Steel	16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 /	25	Body-Flanged Type	Ductile Iron ASTM A536 Grade 65-45-12		
6	Yoke	Gray Iron ASTM A126 Class B			Silicon Bronze "A" (Everdur) ASTM B98 C65500	26	Scraper (24")	Bronze ASTM B584 C83600		
7	Stud	ASTM F593 S30400/S31600	17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400/S31600	27	Roller (24")	Bronze ASTM B584 C83600		
8	Hex Nut	ZN A307 GRADE B / ASTM F593 S30400/S31600	18	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600	28	Pin (24")	Stainless Steel AISI 303		
9	Follower Plate	Gray Iron ASTM A126 Class B	19	Pipe Plug	18-8SS	29	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600		
	(14"-16")		20	Cover	Ductile Iron ASTM A536 65-45-12 ASTM B16 Alloy 306	30	Wedge Cap (18"-20")	Delrin		
10	Packing Gland	Bronze ASTM B584 C83600	21	Cover 0-Ring	EPDM	31	Track (24")	Stainless Steel AISI 316		
11	Packing	Braided, Lubricated (Non-Asbestos) Fiber	22	Stem 0-Ring	EPDM					

C515 OS&Y RESILIENT SEATED GATE VALVE FLANGED ENDS WITH BEVEL GEARING SIZES 14"-24"



DIMENSIONS												
SIZE	Α	В	С	D	Е	G	Н	J	K	No. Turns to Open		
14	15"	1-3/8"	21-1/16"	14-1/4"	59-7/8"	59-3/4"	74-3/4"	1" X 12	18-3/4"	52		
16	16"	1-7/16"	23-1/2"	16-1/4"	59-7/8"	59-3/4"	74-3/4"	1" X 16	21-1/4"	52		
18	17"	1-9/16"	25"	18-1/4"	70-1/8"	71-1/4"	92-9/16"	1-1/4" X 16	22-3/4"	64		
20	18"	1-11/16"	27-1/2"	20-1/4"	70-1/8"	67-3/8"	94-3/8"	1-1/4" X 20	25"	64		
24	20"	1-7/8"	32"	24-1/4"	78-7/8"	81-3/8"	110-5/8"	1-3/8" X 20	29-1/2"	88		

		PARTS LIST			PARTS LIST	PARTS LIST				
No.	PART	MATERIAL	No.	PART	MATERIAL	No.	PART	MATERIAL		
1	EXEECO IB7	Bronze ASTM B584 C83600	12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS	23	Stem Nut	Bronze ASTM B584 C87610 / Bronze ASTM B584 C87850 /		
2	Square Key	GR 2 ZN SAE J429	13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600	1		Bronze ASTM B763 C99500 (NDZ) (14"-20")		
3	OP Nut	Gray Iron ASTM A126 Class B	14	Bushing	ZN A307 Grade B / ASTM F593 S30400/S31600	1		Bronze ASTM B584 C83600 (24")		
4	Output Sleeve	Aluminum Bronze ASTM B505 C95800	15	Yoke O-ring	EPDM	24	Wedge	Ductile Iron ASTM A536 Grade 65-45-12		
5	Roll Pin	Stainless Steel	16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 /	25	Body-Flanged Type	Ductile Iron ASTM A536 Grade 65-45-12		
6	Yoke	Gray Iron ASTM A126 Class B			Silicon Bronze "A" (Everdur) ASTM B98 C65500	26	Scraper (24")	Bronze ASTM B584 C83600		
7	Stud	ASTM F593 S30400/S31600	17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400/S31600	27	Ro∎er (24")	Bronze ASTM B584 C83600		
8	Hex Nut	ZN A307 GRADE B / ASTM F593 S30400/S31600	18	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600	28	Pin (24")	Stainless Steel AISI 303		
9	Follower Plate	Gray Iron ASTM A126 Class B	19	Pipe Plug	18-8SS	29	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600		
	(14"-16")		20	Cover	Ductile Iron ASTM A536 65-45-12 ASTM B16 Alloy 306	30	Wedge Cap (18"-20")	Delrin		
10	Packing Gland	Bronze ASTM B584 C83600	21	Cover 0-Ring	EPDM	31	Track (24")	Stainless Steel AISI 316		
11	Packing	Braided, Lubricated (Non-Asbestos) Fiber	22	Stem 0-Ring	EPDM					



NOTES:





MPI PRODUCT LINE VALVES • GATES • PIPE & FITTINGS

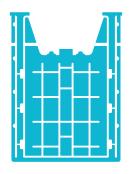














VALVES

SOLUTIONS:

- Rotating Disc Gate Valves (AWWA C500)
- Eccentric Plug Valves (AWWA C517)
- Butterfly Valves (AWWA C504)
- High Performance Butterfly Valves (API 609)
- Swing Check Valve (AWWA C508)
- Ken-Flex Resilient Hinged Check Valve
- Telescoping Valve
- Resilient Seat Gate Valve (AWWA C509/C515)
- Pressure Relief Valves (Floor & Wall)
- Mud Valves
- Shear Gate Valves
- Solid Wedge Gate Valve

GATES

SOLUTIONS:

- Fabricated Stainless Steel Gates
- Fabricated Aluminum Gates
- Stop Logs & Stop Gates
- Cast Iron Slide (Sluice) Gates
- Rectangular Butterfly Gates
- Automatic Level Control Gates
- Flap Gates

PIPE & FITTINGS

SOLUTIONS:

- Fabricated Flange and Wall Pipe
- Ductile Iron Pipe
- Grooved Pipe & Fittings
- Pipe Linings: cement, glass, Protecto 401™
- Welded Outlets, Thread-O-Lets, Welded Boss
- Restrained Joint Fittings
- Seismic Solutions

