KENNEDY VALVE

C515 14” - 54” RESILIENT WEDGE GATE VALVE

CERTIFICATIONS

ISO 9001

ISO 14001

BS OHSAS 18001

FM APPROVED

UL LISTED

NSF®*

AWWA C515

*Listings specific to product

14-24” Valves available without actuation

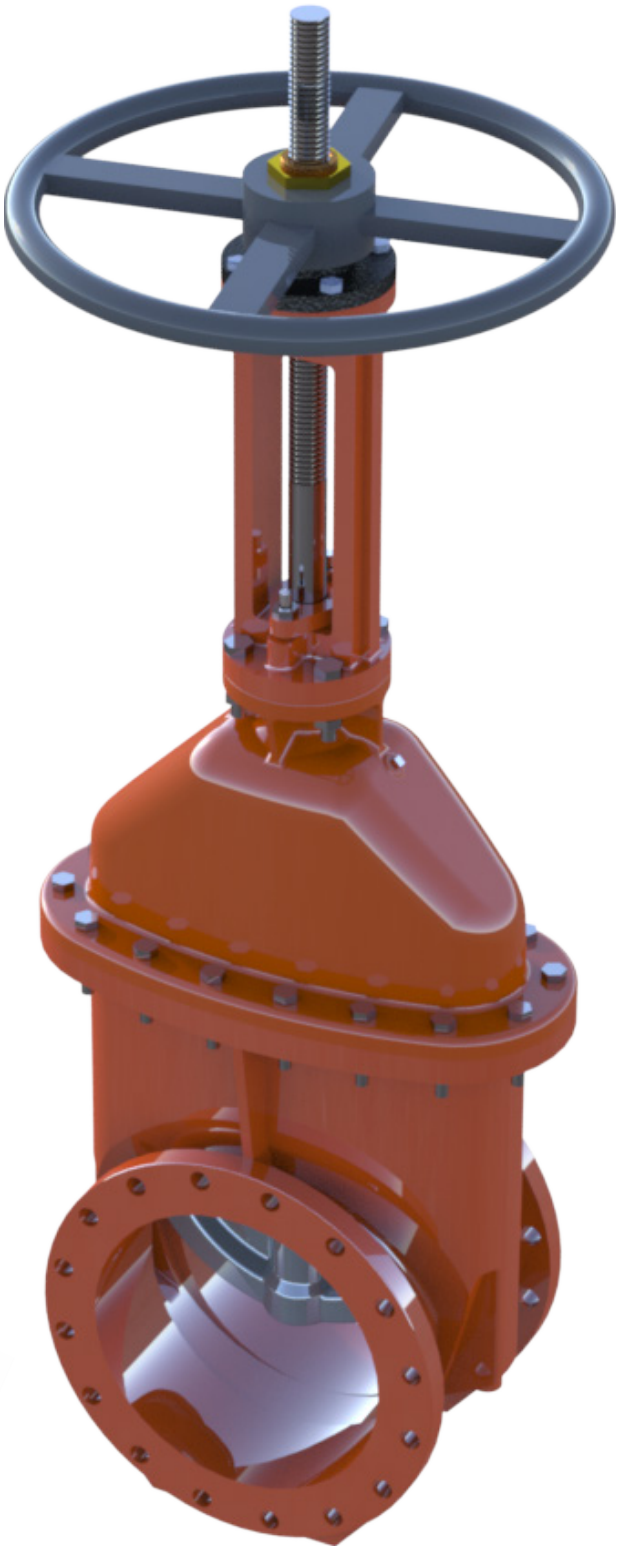
U.S.A. 140 YEARS

WWW.KENNEDYVALVE.COM

C515 KS-RW

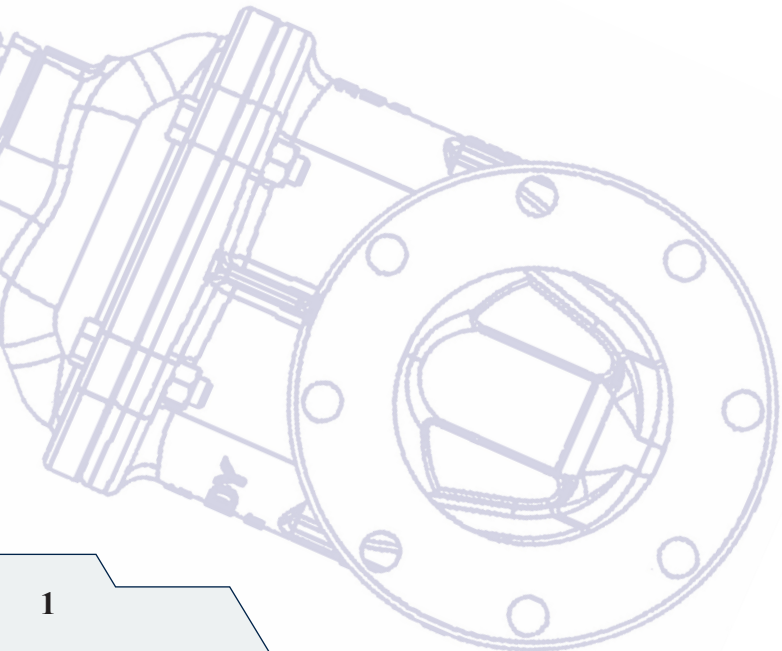
Kennedy Valve revolutionized the gate valve market in the early 1980's by offering the first resilient seated gate valve in the USA. Today Kennedy is still the industry leader in UL-FM gate valve design and performance up to 24". All 14"-54" Resilient Seated Gate Valves comply with AWWA C515. Kennedy Valve uses a fusion bonded epoxy coating on all RWGV.

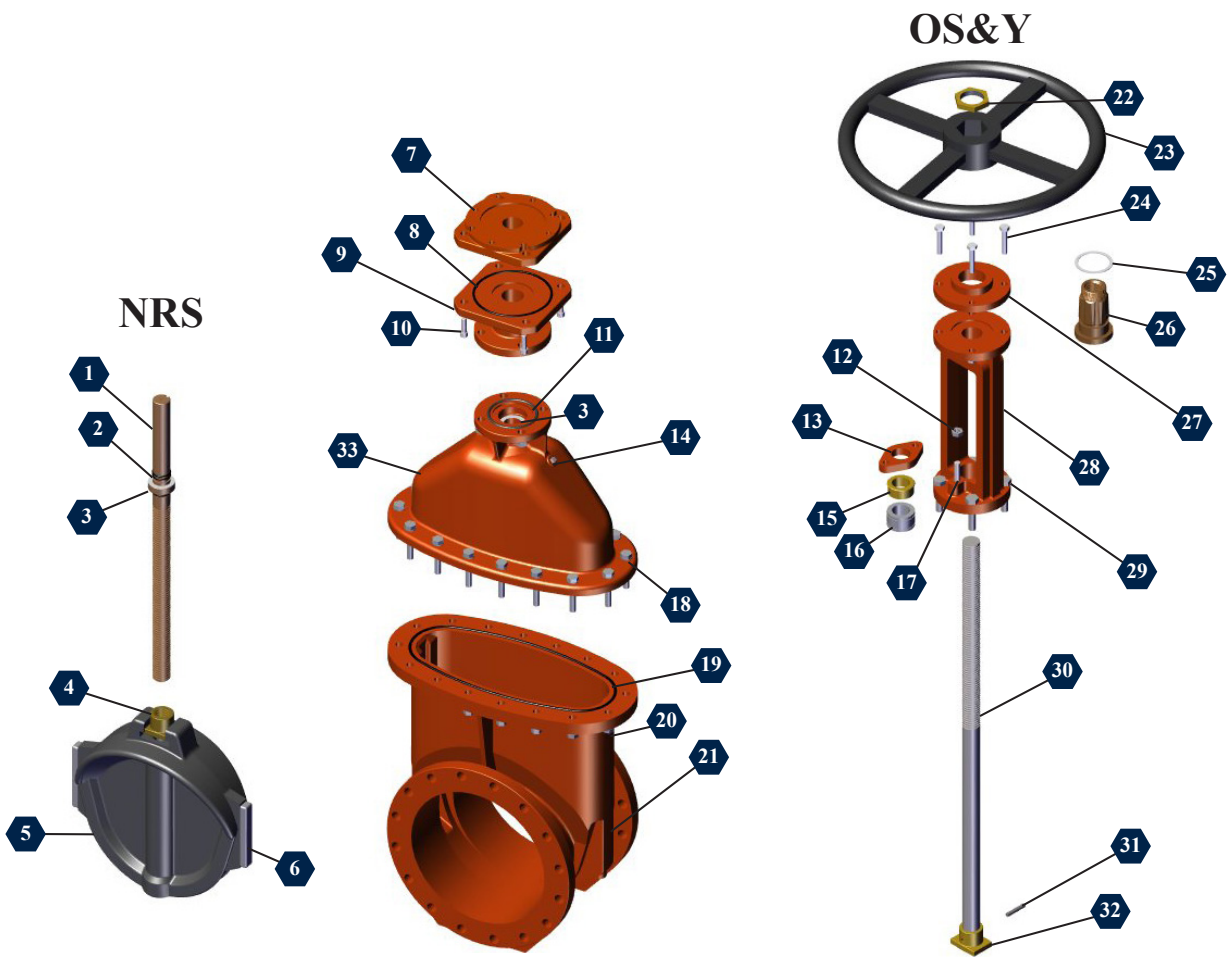
The Kennedy Model KS-RW Resilient Seated Gate Valve embodies all the latest valve technology for simplicity, durability, and superior performance with no compromise in materials or workmanship.



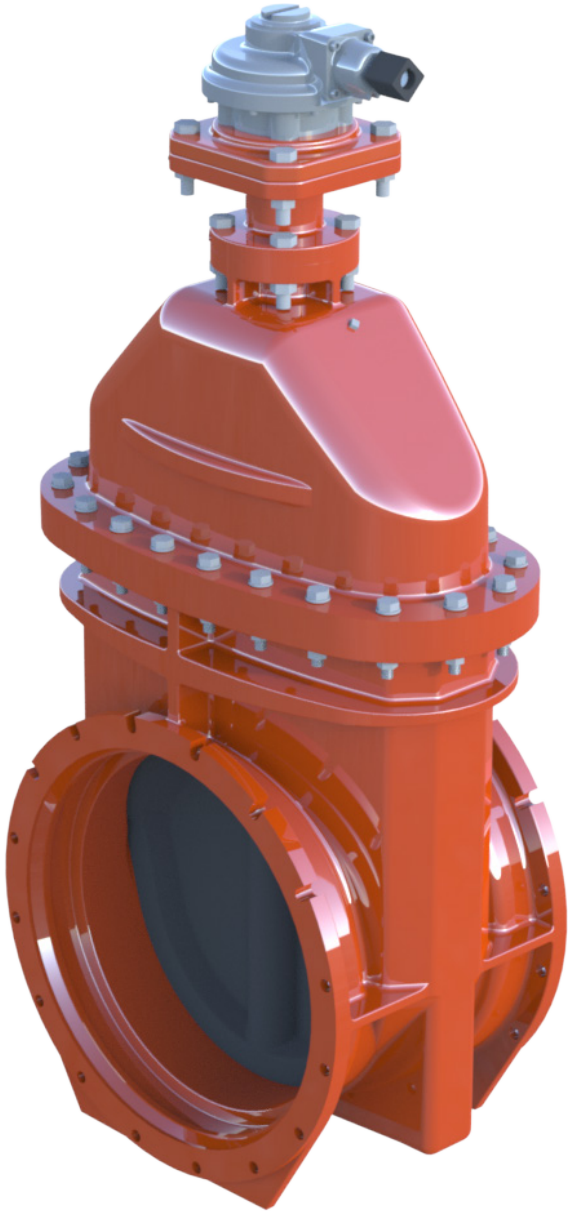
C515 KS-RW

- Indicator Posts
- Enclosed Gearing
- T-Handles
- Stem Guides
- Electric Motor Operators
- Extension Stems
- Floor Boxes
- Chainwheels
- 2" Sq. Operating Nuts
- Handwheels





No.	DESCRIPTION	MATERIAL	No.	DESCRIPTION	MATERIAL
1	NRS Stem	Bronze	18	Cover / Body Hex Bolt	Stainless Steel
2	NRS Stem O-Ring	Rubber	19	Cover / Body O-Ring	Rubber
3	Thrust Washer	Plastic	20	Cover/ Body Hex Nut	Stainless Steel
4	NRS Stem Nut	Bronze	21	Body	Ductile Iron
5	Wedge	EPDM Encapsulated Ductile Iron	22	OS&Y Wheel Nut	Bronze
6	Wedge Cap (18”-20” ONLY)	Plastic	23	Handwheel	Cast Iron
7	NRS Actuator Plate	Cast Iron	24	Yoke / Plate Hex Bolt	Stainless Steel
8	Stand / Plate O-Ring	Rubber	25	OS&Y Yoke Washer	Plastic
9	Extension NRS Stand	Ductile Iron	26	OS&Y Yoke Nut	Bronze
10	Stand / Plate Cap-Screw	Stainless Steel	27	Retainer Plate	Cast Iron
11	Cover / Stand O-Ring	Rubber	28	OS&Y Yoke	Ductile Iron
12	Packing Gland Hex Nut	Stainless Steel	29	Yoke / Cover Hex Bolt	Stainless Steel
13	Follower Plate	Ductile Iron	30	OS&Y Stem	Stainless Steel
14	Pipe Plug	Stainless Steel	31	OS&Y Stem Pin	Stainless Steel
15	Follower Gland	Bronze	32	OS&Y Stem Head	Bronze
16	Packing	Garlock Style 18	33	Cover	Ductile Iron
17	Follower Stud	Stainless Steel			



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.

Kennedy’s 30”-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.

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

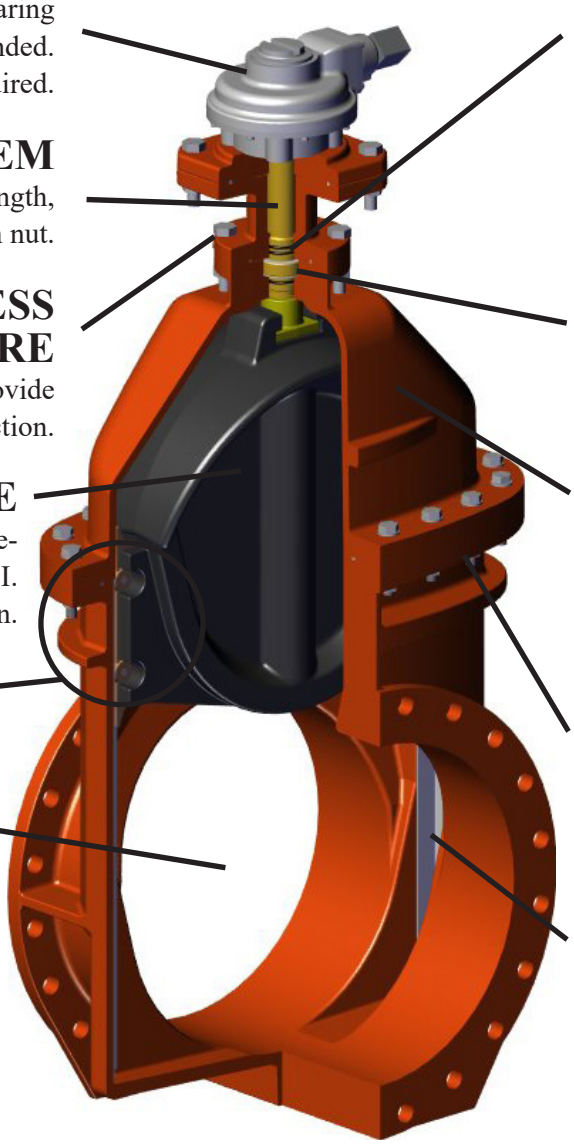
BRONZE STEM
Long, trouble-free life with high strength, non-corrosive bronze stem and stem nut.

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 working pressure.

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

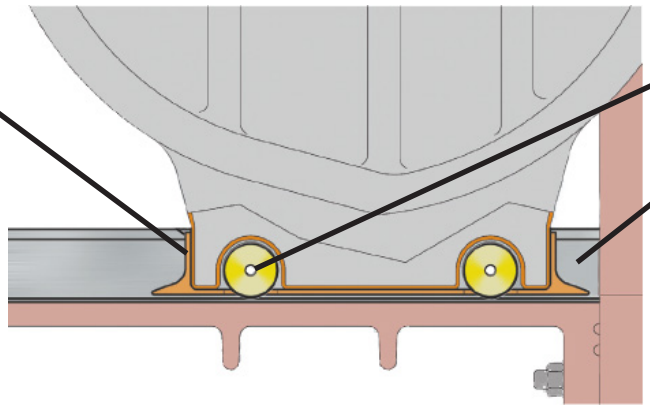
EPOXY COATING
Corrosion resistant fusion-bonded epoxy coating, conforming to AWWA C550 and NSF 61 Certified, protects both inside and outside of valve.

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

FIG 1. CLEANTRACK TECHNOLOGY

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

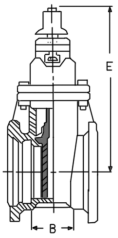


BRONZE ROLLERS
Rollers into scraper protect valve body from damage.

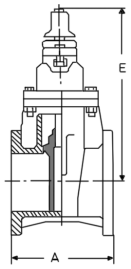
STAINLESS STEEL TRACK
316 stainless steel track for corrosion and wear resistance.

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

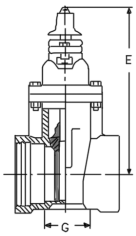
14" - 24" RWGV STANDARD DIMENSIONS



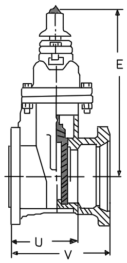
7571
Mechanical Joint
14"-24"



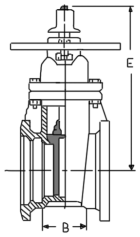
7561A
Flanged
14"-24"



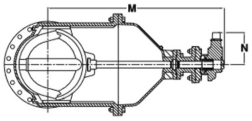
7901
Tyton Ends for D.I.
and C900 PVC Pipe
14"-16"



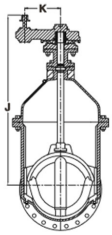
7950
Tapping x MJ
Tapping Valve
14"-24"



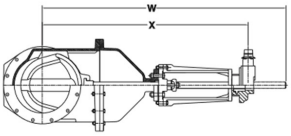
7071
Mechanical Joint
Post Indicator Valve
14"-24"



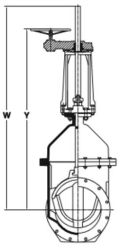
Bevel Gearing
Horizontal
Installation
All End Styles
14"-24"



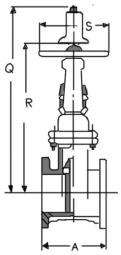
Spur Gearing
Vertical
Installation
All End Styles
14"-24"



OS&Y Bevel Gearing
Horizontal Installation
All End Styles
14"-24"



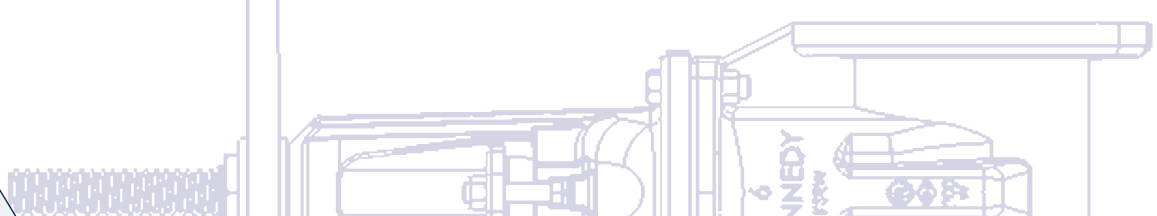
OS&Y Spur
Gearing Vertical
Installation
All End Styles
14"-24"



7068A
Flanged OS&Y
14"-24"

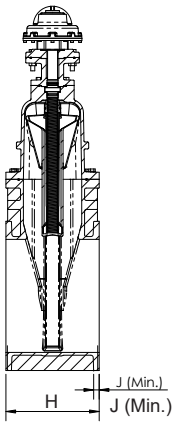
NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment. Flanged end connections not recommended for burial service.

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	NO. OF TURNS TO FULL OPEN U	V	NO GEAR	GEARED	W	X	Y
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	12-1/4	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	16-1/8	64	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	64	189	90-7/8	70-1/8	74-5/8
24"	60-1/4	10-3/8	62-5/8	12	79-1/8	140-5/8	83-3/4	20	2	21	1.63									76				

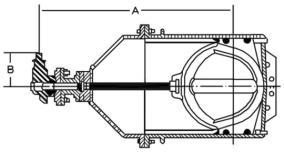


30”-54” KS-RW

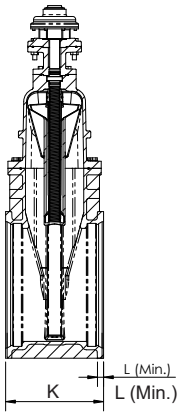
- Gearing is required on 30” & up.
- It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment. Flanged end connections not recommended for buried service.
- 2” bypass valves are available on 36” gate valves
- 4” bypass valves are available on 30” and 48”-54” gate valves
- 8” bypass valves are available on 42” gate valves



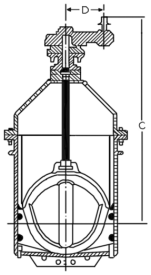
Flanged Body Dimensions



All End Styles Bevel Gearing Horizontal Installation 30”-54”



MJ Body Dimensions



All End Styles Spur Gearing Vertical Installation 30”-54”

AVAILABLE SIZES

VALUE SIZE	A	B	C	D	E	F	G	H	J	K	L	No. of turns to open	GEAR RATIO
30”	71-3/8	14-7/8	80	14				40.00	2.13	35.50	1.69	588	6:1
36”	81-1/16	14-7/8	89-11/16	14				30.75	2.38	38.75	2.00	684	6:1
42”	98-3/8	17	108-1/2	16				36.00	2.63	39.00	2.00	800	8:1
48”	101-3/8	17	111-1/2	16				35.50	2.75	44.00	2.00	800	8:1
54”	101-3/8	17	111-1/2	16				48.00	3.00			800	8:1

SPECIFICATIONS & FEATURES

Our AWWA C515 Resilient Wedge Gate Valves meet or exceed the requirements of AWWA standard C515 and NSF listed.

Available in either non-rising stem (NRS) or outside screw & yoke (OS&Y). NRS Style is available with post plate for adaptation with an indicator post.

Rated Pressure	Shell Test Pressure	Seat Test Pressure
- AWWA 250 PSI. (14”-54”)	- 500 PSI. (14”-54”)	- 250 PSI. PSI (14”-54”)

1| Valves shall conform to AWWA Standard C515 covering Resilient Seated Gate Valves for Water Supply Service, and be rated for 250 PSI cold water working pressure.

2| The valves shall have a ductile iron body, bonnet, and stuffing box. The wedge shall be ductile iron and totally encapsulated with EPDM 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 or conventional type packing shall be allowed on NRS valves.

5| The valves shall be non-rising stem, opening by turning clockwise or counter-clockwise, and provided with a 2” square operating nut or a handwheel.

6| Stems for NRS assemblies shall be copper alloy with integral collars in full compliance with AWWA. Stems shall operate with copper alloy stem nuts independent of wedge and of stem. NRS stems shall have two O-rings located above thrust collar and two O-rings below. Stem O-rings above the thrust collar shall be replaceable with valve fully opened and subjected to full pressure. The stems shall also have one low-torque thrust bearing located above and one below the stem collar to reduce friction during operation.

7| Unobstructed waterway shall accept a full size tapping cutter.

8| The body, bonnet and stuffing box shall be fusion-bond epoxy coated, both interior and exterior. Epoxy shall be applied in accordance with AWWA C550 and be NSF 61 Certified.

9| 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.

10| Valves sizes 30” & larger shall have brass bushings where the stem passes through the bonnet.

11| All external bolting materials shall be stainless steel and have hexagonal heads.

12| 30” & up shall include CleanTrackTM Technology. CleanTrackTM consists of bronze rollers housed in a bronze scraper on the both sides of the wedge, traveling in a 316 stainless steel track.

13| Valves shall have component parts cast, machined, assembled, and tested in the USA.

KENNEDY VALVE

ORDERING INFORMATION

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