

## SHOP DRAWING TRANSMITTAL

<b>DATE RETURNED:</b> 3/26/2015	<b>DATE SENT:</b> 3/20/2015	<b>PAGE</b> <u>1</u> <b>of</b> <u>1</u>
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<b>TO/FROM: TEL.#</b> 518-453-4734  <b>CHA</b> <b>III WINNERS CIRCLE</b> <b>ALBANY, NY 12205</b> <b>ATTN:</b>	<b>TO/FROM: TEL.#</b> ( ) <b>MARK SARGENT</b> <b>PROJECT MANAGER - STRUCTURES</b> <b>1 NATIONAL LIFE DRIVE</b> <b>MONTPELIER, VT 05633-5001</b>
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<b>CHA PROJECT No.20615</b> <b>CONTRACT No. BRF 3000(19)</b> <b>TITLE: RUTLAND CITY (RIPLEY ROAD)</b>	
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<b>SHOP DRAWING DATA: (TO BE FILLED IN BY CONTRACTOR)</b>  <b>TOPIC: GATE VALVES</b> <b>SPECIFICATION: 629.26, 629.2710, 629.2706, 629.2708</b>  <i>DO NOT MIX SUBMISSIONS FROM DIFFERENT SPEC DIVISIONS ON THIS FORM. FILL OUT NEW FORM EACH TIME!</i>	<b>FOR CHA'S RECEIVED STAMP.</b>
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THE ABOVE NAMED CONTRACTOR HAS EVALUATED EACH ITEM IDENTIFIED IN THIS TRANSMITTAL & CERTIFIES IT TO BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

**\*\*THIS SUBMITTAL IS NOT BEING PRESENTED AS A SUBSTITUTION\*\***

**CERTIFIED BY:** \_\_\_\_\_ **TITLE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

ID NUMBER	QUANTITY		DESCRIPTION OF ITEM(S) BEING SUBMITTED <small>(Reference specification section and/or drawing number for each item being submitted)</small>	ENGINEER'S REVIEW STATUS
	SENT	RETURN		
629.2x-01	1	1	Gate Valve	MCN

**NET = NO EXCEPTIONS TAKEN**                      **MCN = MAKE CORRECTIONS NOTED**                      **R&R = REVISE AND RESUBMIT**  
**REJ = REJECTED**                                      **SSI = SUBMIT SPECIFIED ITEM**                      **NR = NOT REVIEWED**  
**\*RESUBMIT REQUIRED IF REVIEW STATUS IS R&R, REJ, SSI**

<b>CONTRACTOR'S COMMENTS:</b>  	<b>Engineer's Comments: All valves shall be "open right" in accordance with City requirements</b>
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**(FOR ENGINEER'S INTERNAL USE ONLY)**

<b>Forwarded To:</b> <u>DALE GOZALKOWSKI</u>	<b>DUE BACK TO CONTRACTOR:</b> _____
<b>Reviewed By:</b> <u>JAMES RASHFORD</u>	<b>DATE SENT:</b> <u>3/20/2015</u>
<b>Returned to Contractor By:</b> <u>DALE GOZALKOWSKI</u>	<b>DATE RETURNED:</b> <u>3/27/2015</u>

**(ENTER DATE ABOVE)**



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# KENNEDY VALVE

A DIVISION OF MCWANE, INC | ASSOCIATED WITH AWWA, NSF AND ULFM



## C-515 REDUCED WALL DUCTILE IRON RESILIENT WEDGE VALVE



### 4" THROUGH 12"

### MODEL KS-RW

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015

BY James Rashford

**AWWA C-515**

**AWWA C-550**



Approved

PROUDLY



**MADE IN ANNISTON, ALABAMA  
USA**

# C-515 DUCTILE IRON RESILIENT WEDGE GATE VALVE



During the decade of the 1980's, the waterworks industry was introduced to the Resilient Seated Gate Valve, a design principal that is dominate in preference for use in distribution systems. Kennedy Valve Company was at the forefront in this industry-wide movement by introducing the Style 4067, our AWWA C509 Resilient Seated Gate Valve.

After the official adoption of the AWWA C515 specification, Kennedy once again is on the forefront of modern valve design and construction.

The Kennedy Model KS-RW Resilient Seated Gate Valve embodies all of the latest valve technology for simplicity, durability and superior performance. With the end user in mind, Kennedy engineering designed the Kennedy Model KS-RW to be fully interchangeable with the Kennedy C509 Style 4067. Kennedy Model KS-RW meets or exceeds AWWA C515 and C550 in all sizes. Kennedy C515 valves are listed by Underwriters Laboratories and are approved by Factory Mutual Research. With no compromise in materials or workmanship, Kennedy Model KS-RW valves carry a 10 year limited warranty. . . it's the clear choice of those who demand the best.

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## RECOMMENDED SPECIFICATIONS FOR C-515 DUCTILE IRON RESILIENT WEDGE GATE VALVES

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### KENNEDY VALVE COMPANY

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Valves shall conform to the latest revision of AWWA Standard C-515 covering resilient seated gate valves for all water supply service.

The Valves shall have a ductile iron body, bonnet, and o-ring plate. The wedge shall be totally encapsulated with rubber. Blind bolts shall not be allowed.

NO EXCEPTION TAKEN       MAKE CORRECTIONS NOTED

The sealing rubber shall be permanently bonded to the wedge per ASTM D429.

REPORTED       RE-NEW W/ISSUE

Valves shall be supplied with o-ring seals at all pressure retaining joints. No flat gaskets shall be allowed. . Blind bolts shall not be allowed.

SUBMIT SPECIFIED ITEM

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 hand wheel with the word "Open" and an arrow to indicate the direction to open.

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Stems for NRS assemblies shall be cast bronze with integral collars in full compliance with AWWA. OS&Y (rising stems) shall be bronze. All stems shall operate with bronze stem nuts independent of wedge and of stem (in NRS valves). Stainless steel stems or stem nuts are not allowed. NRS 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 NRS stems on 4"-12" shall have low torque thrust bearings located above and below the stem collar to reduce friction during operation.

DATE 3/27/2015 BY CHA

Waterway shall be smooth, unobstructed and free of all pockets, cavities and depressions in the seat area. Tapping valves 4" and larger shall accept a full size tapping cutter.

The body, bonnet, and o-ring plate shall be fusion-bond epoxy coated, both interior and exterior on body and bonnet. Epoxy coating shall be NSF 61 approved and applied in accordance with AWWA C550.

Each valve shall have manufacturers 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 C-515 (and UL/FM where applicable).

Valves shall have all component parts cast and assembled in the USA and shall be manufactured by the Kennedy Valve Company.

## Features and Benefits

DELTRIN THRUST BEARINGS ABOVE AND BELOW THE THRUST COLLAR REDUCE FRICTION AND MINIMIZE OPERATING TORQUES

THE OPERATING MECHANISM IS TRIPLE O-RING SEALED TO COMPLETELY SEAL AGAINST LEAKAGE PAST THE STEM. TWO O-RINGS ARE PROVIDED ABOVE THE THRUST COLLAR AND ONE BELOW. UPPER O-RINGS CAN BE REPLACED UNDER PRESSURE WITHOUT REMOVING THE STEM WHEN THE VALVE IS FULLY OPENED.

ELECTRO-PLATED NUTS AND BOLTS PROVIDE LONG-LIFE CORROSION PROTECTION. STAINLESS STEEL BOLTS AND NUTS ARE AVAILABLE WHEN REQUESTED.

**All Valves shall be open Right**

LONG, TROUBLE FREE LIFE WITH HIGH STRENGTH, NON-CORROSIVE BRONZE STEM AND STEM NUT.

O-RING SEALS AT STUFFING BOX AND BONNET TO BODY FLANGES TO ENSURE THE BEST POSSIBLE SEAL. NO FLAT GASKETS.

100% COATED WEDGE ENSURES BUBBLE-TIGHT SEAL EVERY TIME UP TO 250 PSI. WITH TWIN SEAL DESIGN.

KENNEDY CORROSION RESISTANT FUSION-BONDED EPOXY COATING, CONFORMING TO AWWA C-550 AND NSF61 APPROVED, PROTECTS BOTH INSIDE AND OUTSIDE OF VALVE.

ELLIPTICAL BOLT HOLE DESIGN ELIMINATES THE NEED FOR ANTI-ROTATION BOLTS

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

SMOOTH, UNOBSTRUCTED FULL SIZE WATERWAY IS FREE OF POCKETS, CAVITIES, AND DEPRESSIONS ALLOWING FOR MINIMAL FLOW LOSS AND LOWER PUMPING COSTS.

CHECKING IS ONLY FOR THE FADSON THE BOTTOM OF ALL VALVES KEEP VALVE IN UPRIGHT POSITION FOR EASIER STORAGE AND PROTECTION FROM THE ELEMENTS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

ALL TAPPING VALVES ACCEPT FULL SIZE TAPPING CUTTER.

ALL VALVES ARE RATED AT 250 PSI FOR AWWA SERVICE AND 200 PSI FOR ULFM SERVICE. ALL VALVES ARE HYDROSTATICALLY TESTED TO 500 PSI.

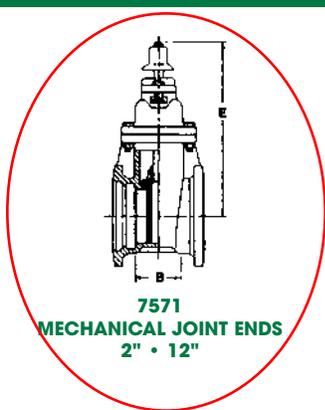
10 YEAR LIMITED WARRANTY



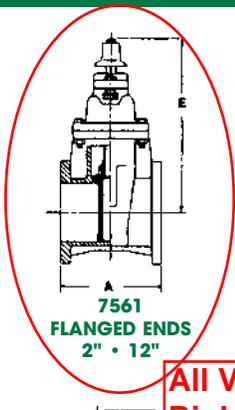
DATE 3/27/2015

BY James Rashford

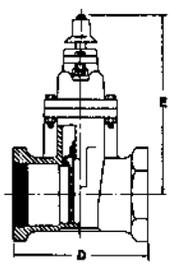
# AVAILABLE END CONNECTIONS & DIMENSIONS FOR KENNEDY 4" - 12" C-515 DUCTILE IRON RESILIENT WEDGE VALVE



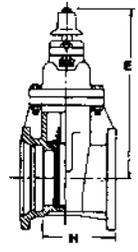
**7571 MECHANICAL JOINT ENDS**  
2" • 12"



**7561 FLANGED ENDS**  
2" • 12"

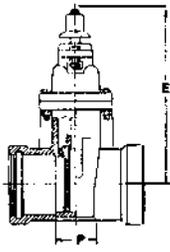


**7057 THREADED ENDS**  
2" • 3"

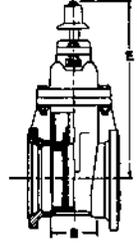


**7572 FLANGED X MJ**  
3" • 12"

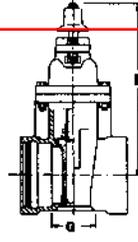
All Valves shall be open Right



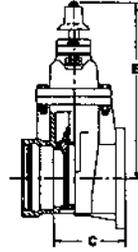
**7597 PUSH-ON FOR PVC**  
2" • 8"



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



**7901 TYTON ENDS PUSH-ON FOR (D.I. & C900)**  
4" • 12"



**7902 FLANGED & TYTON JOINT PUSH-ON FOR (D.I. & C900)**  
4" • 12"

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

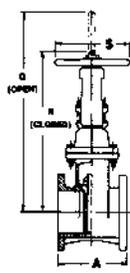
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**7500 TAPPING OR TAPPING VALVE**  
4" • 12"



**7571-P MECHANICAL JOINT POST INDICATOR VALVE (PIV)**  
2" • 12"



**7068 FLANGED ENDS OS&Y CONSTRUCTION**  
2 1/2" • 12"

## CHA Model KS-RW

DATE 3/27/2015 BY James Rufford \*Note: 4" and 3" VALVES ARE FULL WALL DUCTILE IRON

	A	B	C	D	E	G	H	P	Q	R	S	U	V	No. of Turns to Full Open
2"	7	3 1/4	—	5 1/4	10 7/8	—	—	3	—	—	7 1/4	—	—	4 3/4
2 1/2"	7 1/2	—	—	7	11 3/8	—	—	3 1/4	16 3/8	13 7/8	7 1/4	—	—	5 1/2
3"	8	3 1/2	—	7 7/8	12 3/8	—	5 3/4	3 1/2	18 7/8	15 5/8	10	—	—	10
4"	9	4 1/2	6 3/4	—	14 3/4	4 1/2	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	7 3/4	5	30 1/8	23 3/4	12	8	10 1/2	19 1/2
8"	11 1/2	8 1/2	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	—	45 3/4	35 3/8	18	11 3/4	14 1/4	31 1/2
12"	14	10 3/4	11 1/4	—	30	8 1/2	12 3/8	—	53 1/8	40 5/8	18	12 3/8	15	37 3/4



## KENNEDY VALVE

A DIVISION OF MCWANE, INC.  
www.kennedyvalve.com

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Elmira, New York 14901  
P.O. Box 981  
Phone (607) 734-2211  
Fax 1-607-734-3288





# MECHANICAL JOINT BOLT & GASKET PACKS

## Product Features

Gaskets: SBR in accordance with ANSI/AWWA C111/A21.11  
T-Bolts/Nuts: Low alloy steel in accordance with ANSI/AWWA C111/A21.11

**IMJBGPX**



- NO EXCEPTION TAKEN       MAKE CORRECTIONS NOTED
- REJECTED                       REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

## Model Numbers

- IMJBGPM
- IMJBGPP
- IMJBGPU
- IMJBGPX
- IMJBGPI0
- IMJBGPI2
- IMJBGPI4
- IMJBGPI6
- IMJBGPI8
- IMJBGPI20

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