

June 2, 2016

## APPROVAL DRAWINGS

### PROJECT NAME

RE-USE WATER PUMP STATION  
WICHITA, KS

### VALVE TYPE

Resilient Seated Gate Valve

- (1) 10" Resilient Seated Gate Valve per C-509, Flanged Ends, Non-Rising Stem, Handwheel, Fig 8561A
- (3) 8" Resilient Seated Gate Valve per C-509, Flanged Ends, Non-Rising Stem, Handwheel, Fig 8561A

CONTRACTOR: WILDCAT CONSTRUCTION CO., INC  
3219 WEST MAY  
WICHITA, KS 67213  
719-439-4107  
MAIN CONTACT:  
Tyler J. Dehn  
Project Manager/Estimator  
tyler.dehn@wildcat.net

LOCAL SUPPLIER: MELLEN & ASSOCIATES, INC  
3404 SOUTH 11TH ST  
COUNCIL BLUFFS, IA 51501  
712-322-9333

MANUFACTURER: Kennedy Valve  
1021 East Water Street  
Elmira, New York 149014  
(607) 734-2211

PLEASE INDICATE WHICH SPECIFIC ITEMS  
WILL BE PROVIDED. ONLY SUBMIT SHEETS  
THAT ARE NECESSARY.

<b>MKEC ENGINEERING, INC.</b> <b>411 N. WEBB ROAD • WICHITA, KS 67206</b>	
<input type="checkbox"/> Reviewed	<input checked="" type="checkbox"/> Revise and Resubmit
<input type="checkbox"/> Reviewed as Noted	<input type="checkbox"/> Rejected
<input type="checkbox"/> Not Required by the Contract Documents	
<small>Reviewed for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication process or to techniques of construction; and for coordination of the work of all trades.</small>	
BY <u>Bryce Z Barlow</u>	DATE <u>6-3-16</u>



**KENNEDY VALVE**  
Plant and Industrial Group

1021 East Water Street  
Elmira, New York 14901  
Telephone (607) 734-2211  
Fax (607) 734-3288

Please send any replies to: Sandra Reser

Date: June 2, 2016

Customer Name: WILDCAT CONSTRUCTION CO., INC  
Project Name: City of Wichita Re-Use Pump Station - KS

Dear Customer:

This is the order submittal for the project listed above. This submittal contains the drawings and data sheets for the Kennedy Valve products purchased on the order and listed below.

1. 10110008561ASS Resilient Seated Gate Valve
2. 10108008561ASS Resilient Seated Gate Valve

Manufacturing is currently being held for this order pending receipt of purchase order, customer approval and release.

Please contact me should you have any questions or comments concerning the contents of this submittal.

Regards,

*Sandra Reser*

Sandra Reser  
Mellen & Associates, Inc.  
Ph (816) 836-0202  
Sandra@melleninc.com

*Enclosure(s):*

Product Description:	Kennedy Valve Resilient Seated Gate Valves
Drawing No.:	CAT910080A
Drawing Date/Rev.:	
Technical Data Sheets:	B13369ER80K Epoxy
MSDS Sheets:	
O&M Manuals:	
Re-submittal comments:	



### COMMITTED TO ENVIRONMENTAL RESPONSIBILITY

KENNEDY VALVE COMPANY IS COMMITTED TO PROTECTING OUR NATURAL RESOURCES THROUGH ENVIRONMENTALLY RESPONSIBLE MANUFACTURING PRACTICES, INCLUDING THE USE OF 20% RECYCLED CONTENT IN OUR HYDRAUNTS AND VALVES.

To learn more about our commitment to the environment, call 800-762-4321.

### RECOMMENDED SPECIFICATIONS

- Valves shall conform to the latest revision of AWWA Standard C509 covering resilient seated gate valves for water supply service.
- The valves shall have an iron body, bonnet, and O-ring plate. The wedge shall be totally encapsulated with rubber.
- The sealing rubber shall be permanently bonded to the wedge per ASTM D429.
- Valves shall be supplied with O-ring seals at all pressure retaining joints. No flat gaskets shall be allowed.
- 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.
- 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).
- All 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 2" - 12" shall also have a low torque thrust bearing located above and below the stem collar to reduce friction during operation.
- Waterway shall be smooth, unobstructed and free of all pockets, cavities and depressions in the seat area. Valves 2" and larger shall accept a full size tapping cutter.
- 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.
- 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 C509 (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.



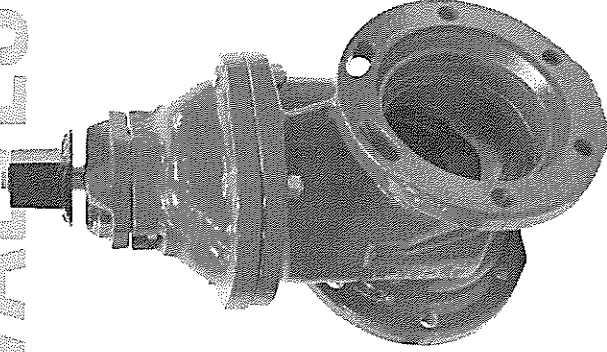
ISO 9001



The original, and the definitive standard.

# RESILIENT WEDGE GATE VALVES

2" THROUGH 12"  
MODEL KS-FW



[www.kennedyvalve.com](http://www.kennedyvalve.com)



1021 East Water Street • PO Box 931 • Elmira, New York 14901  
PHONE 607-734-2211 FAX 1-800-952-4771

Kennedy Valve is a Division of AEGIS Valve, Inc.

AWWA C509 250 PSI • UL/FM Approved 200 PSI • NSF 61 Certified • Full Water Way • Fusion Bond Epoxy Coated • 10 Year Limited Warranty



Kennedy Valve is a Division of AEGIS Valve, Inc.

[www.kennedyvalve.com](http://www.kennedyvalve.com)



For Generations

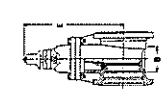
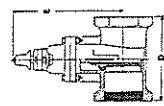


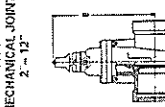
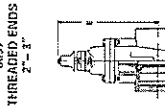

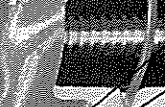
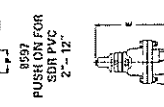
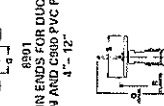


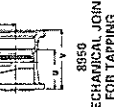
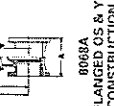


# RESILIENT WEDGE VALVE

In 1975, Kennedy recognized the need for instruments and installations in water treatment plants and in the United States.

Kennedy responded by introducing the first RW Resilient Wedge Valve in America. This introduction revolutionized the valve market in the U.S.

In 1975, Kennedy was the first to introduce a dual seal design and technical development of the bubble-tight resilient wedge valve.

The Kennedy Resilient Wedge Valve, with its unique features and benefits, were the first to be manufactured with both AWWA and UL listed approval for all water system applications.

			
8571 MECHANICAL JOINT 2" - 12"	8572 FLANGED X MJ 3" - 12"	8573 FLANGED X MJ 3" - 12"	8574 FLANGED X MJ 3" - 12"
			
8575 MECHANICAL JOINT FOR TAPPING 3" - 12"	8576 MECHANICAL JOINT CUTTING IN JOINT 4" - 12"	8577 THREADED ENDS 2" - 3"	8578 FLANGED X TYTON 4" - 12"
			
8579 PUSH ON FOR SDR PVC 2" - 12"	8580 MECHANICAL JOINT FOR TAPPING 3" - 12"	8581 TYTON ENDS FOR DUCTILE IRON AND CS90 PVC PIPE 4" - 12"	8582 FLANGED POST INDICATOR VALVE 2" - 12"
			
8583 MECHANICAL JOINT FOR TAPPING 3" - 12"	8584 MECHANICAL JOINT POST INDICATOR VALVE 2" - 12"	8585 FLANGED CS & Y CONSTRUCTION 2" - 12"	8586 FLANGED POST INDICATOR VALVE 2" - 12"

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 and connections not recommended for buried service.

VALVE SIZE	A	B	C	D	E	G	H	P	R	S	U	Y	NO. OF TURNS TO FULL OPEN
2"	7	3-1/4	-	5-3/8	10-7/8	-	-	3	10	12	7-1/4	-	6-1/2
2-1/2"	8	3-1/2	-	7-1/8	11-3/8	-	-	3-1/4	10-3/8	13-7/8	7-3/4	-	8
3"	9	4-1/2	-	8-1/4	12-3/8	-	-	3-1/2	15-5/8	15-5/8	10	8-1/4	10
4"	11	5-1/2	-	9-3/4	14-3/8	-	-	4-1/2	22-3/4	18-1/4	10	9-1/4	13-1/2
6"	15	7-1/2	-	13-1/4	20-3/4	-	-	5	30-1/8	23-3/4	12	10-1/2	19-1/2
8"	19	9-1/2	-	17-1/2	27-3/4	-	-	6-1/2	37-3/4	29-1/4	14	13-1/4	25-1/2
10"	25	12-1/2	-	23-1/2	35-3/8	-	-	8	45-3/4	35-3/8	16	14-7/8	31-1/2
12"	31	15-1/4	-	29-1/4	43-1/8	-	-	10	53-1/8	40-5/8	18	17-1/2	37-3/4

## ENGINEERING FEATURES

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

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

**STAINLESS STEEL HARDWARE**  
304 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.

**ELLIPTICAL BOLT HOLES**  
Hole design on MJ connection eliminates the need for anti-rotation bolts.

**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.

**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. No flat gaskets.

**EPOXY COATING**  
Kennedy 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 200 PSI for UUFM service. All valves are hydrostatically tested to 500 PSI.

[www.kennedyvalve.com](http://www.kennedyvalve.com)



**KENNEDY VALVE KS-FW  
RESILIENT  
WEDGE VALVES**

KENNEDY VALVE

**KENNEDY VALVE AWWA C509 Resilient Wedge Gate Valves  
Meet or Exceed the Requirements of  
AWWA Standard C509  
UL-262/FM-1120/1130  
ULC-Underwriters' of Canada**

Size Range	Water Working Pressure psi	Seat Test psi	Hydrostatic Shell Test psi
AWWA 2"-12"	250 Water Works	250 & 400	500
ULFM 2"-12"	200 Fire Protection	250 & 400	500

Available in either non-rising stem or outside screw & yoke.

Available End Connections & Size Range	Figure No.	Figure No. with (STD)	Post Plate
Fig. End (NRS)	2" - 12"	8561ASS	8701ASS(3"-12")
M.J.	2" - 12" (except 2 1/2")	8571SS	8071SS(3"-12")
Fig. & M.J.	3" - 12"	8572SS	8702SS(3"-12")
Push-on for PVC (SDR)	2" - 8"	8597SS	8597PSS(3"-8")
Fig. End (OS & Y)	2" - 12"	8068A	N/A
M.J. for Tapping	4" - 12"	8950SS	8950PSS
Push-on for D.I. & C900 PVC	4" - 12"	8901SS	8901PSS
M.J. Cutting-in	4" - 12"	8576SS	8576PSS
Push-on D.I. X Fig.	4" - 12"	8902SS	8902PSS
Threaded	2" - 3"	8057SS	8057PSS(3"only)
Threaded (OS&Y)	2" - 3"	8067SS	N/A

**Accessories**

Indicator Posts	Handwheels
"T" Handles	Extension Stems
Stem Guides	Floor Boxes
2" Sq. Operating Nuts	Chain Wheels
Floorstands (non-rising stem)	

NOTE: 2" OS&Y Flanged and Threaded versions are UL Listed



Certified to  
NSF/ANSI 61-G  
NSF/ANSI 372

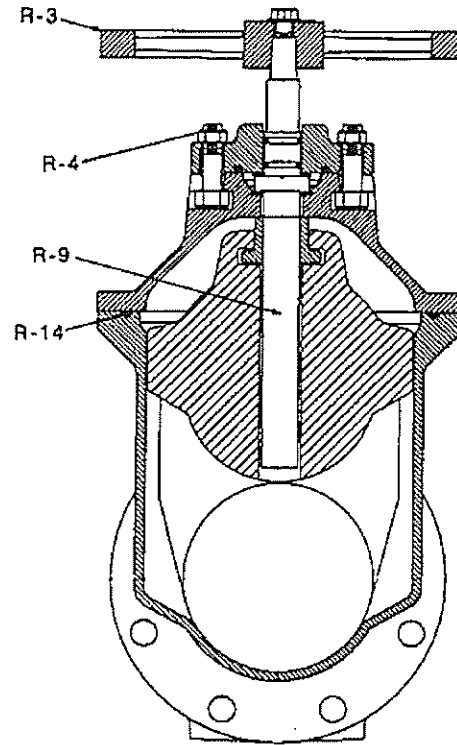
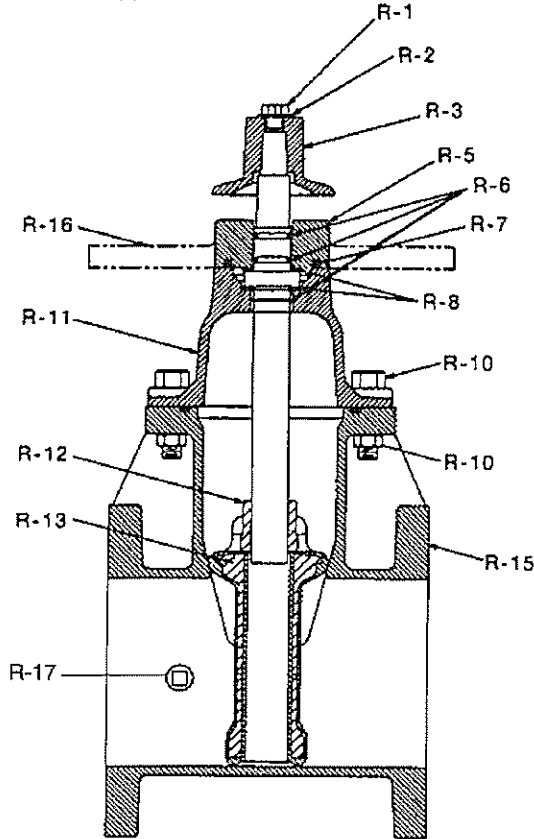
Sizes 2" - 12"



**RESILIENT SEAT GATE VALVE  
N.R.S. ASSEMBLY  
KS-FW**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509



PIPE PLUG STANDARD ON FLANGE & GROOVE VALVES @ POSITION "A"

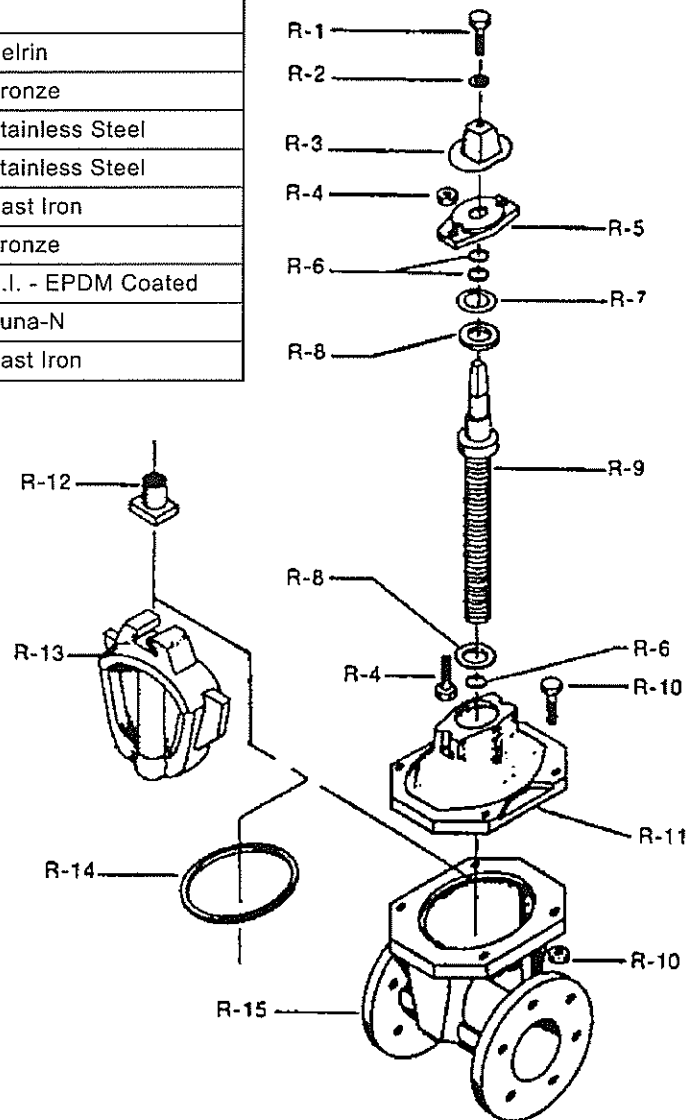
DET.	NAME OF PART	MATERIAL	ASTM SPEC.	
R-1	Hex Head Bolt	Stainless Steel	ASTM F593C	
R-2	Flat Washer	Zinc Plated Steel	ASTM A307	
R-3	Operating Nut	Cast Iron	ASTM A126 Class B ✓	
	Handwheel	Cast Iron	ASTM A126 Class B ✓	
R-4	Hex Bolt & Nut	Stainless Steel	ASTM F593C/F594	
R-5	Stuffing Box	2" thru 8"	Cast Iron	ASTM A126 Class B ✓
		10" and 12"	Ductile Iron	ASTM A536 Grade 70-50-5
R-6	O-Ring (Stem)	Buna - N	-----	
R-7	O-Ring (Stuffing Box)	Buna - N	-----	
R-8	Thrust Washer	Delrin	-----	
R-9	Stem	Bronze	ASTM B584 C86700	
R-10	Hex Head Cover Bolts & Nuts	Stainless Steel	ASTM F593C/F594	
R-11	Cover	Cast Iron	ASTM A126 Class B	
R-12	Stem Nut	Bronze (NDZ)	ASTM B763 C99500	
R-13	Wedge (EPDM Encapsulated)	Ductile Iron	ASTM A536 Grade 70-50-5	
R-14	O-Ring (Cover)	Buna - N	-----	
R-15	Body (All Types)	Cast Iron	ASTM A126 Class B ✓	
R-16	Plate	Cast Iron	ASTM A126 Class B ✓	
R-17	Pipe Plug: 1/2"; 2 1/2"-4"--3/4"; 6'-12"	Galvanized Steel	-----	



## 2" - 12" GATE VALVE NRS ASSEMBLY EXPLOSION

KENNEDY VALVE MODEL KS-FW

DET.	QTY.	DESCRIPTION	MATERIALS
R-1	1	Hold Down Hex Bolt	Stainless Steel
R-2	1	Hold Down Bolt Washer	Zinc Plated Steel
R-3	1	Sq. Operating Nut OR Handwheel (Not Shown)	Cast Iron
R-4	2	Bolt & Nut (Stuffing Box)	Stainless Steel
R-5	1	Stuffing Box (10" & 12" D.I.)	Cast Iron
R-6	3	O-Ring (Stem) 1 Below Collar	Buna-N
R-7	1	O-Ring (Stuffing Box)	Buna-N
R-8	1	Thrust Washer (Sizes 2"-2 1/2")	
	2	Thrust Washer (Sizes 3" thru 12")	Delrin
R-9	1	Stem	Bronze
R-10	4	Cover Bolts & Nuts (Sizes 2" thru 6")	Stainless Steel
	8	Cover Bolts & Nuts (Sizes 8" thru 12")	Stainless Steel
R-11	1	Cover	Cast Iron
R-12	1	Stem Nut	Bronze
R-13	1	Wedge Disc	D.I. - EPDM Coated
R-14	1	O-Ring (Cover)	Buna-N
R-15	1	Body	Cast Iron

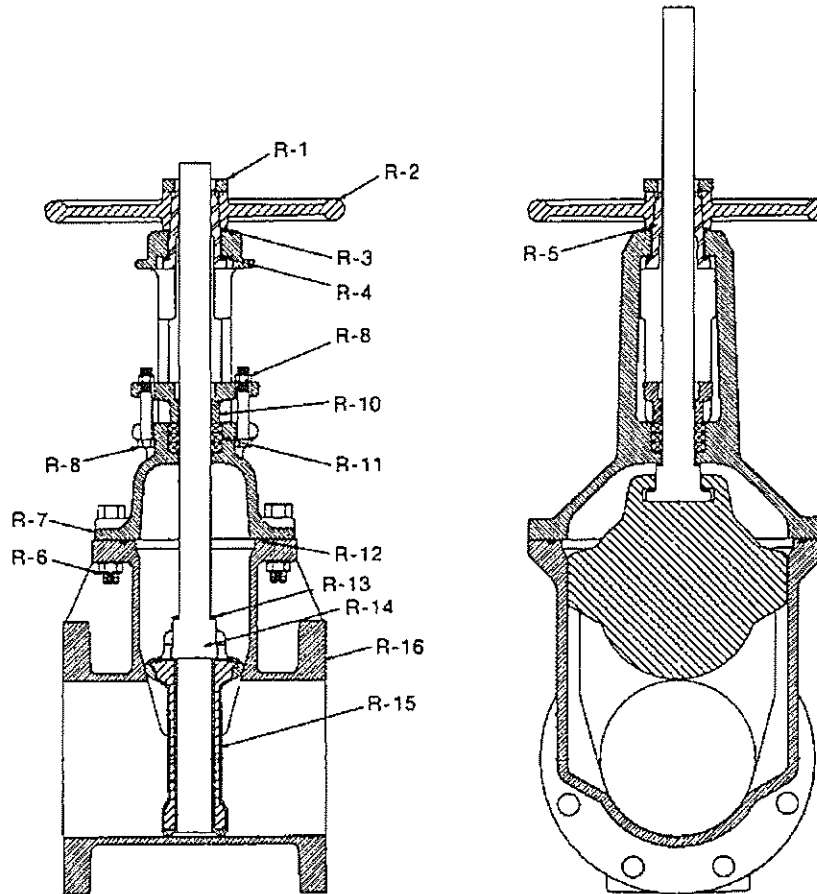




**2"-12" R/S VALVE  
OS&Y MATERIAL LIST**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509



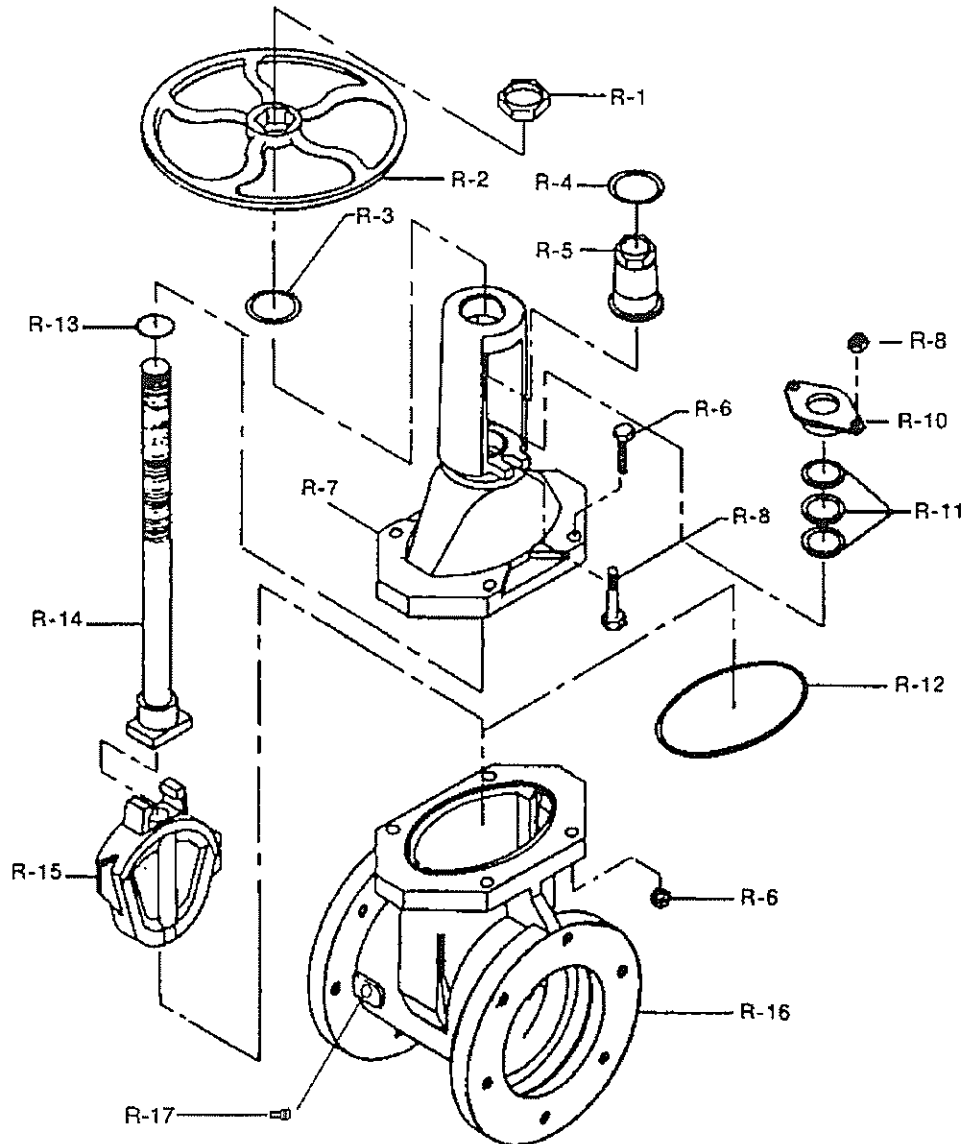
PIPE PLUG STANDARD ON FLANGE & GROOVE VALVES @ POSITION "A"

DET.	NAME OF PART	MATERIAL	ASTM SPEC.
R-1	Handwheel Nut	Bronze (AWWA Grade A)	ASTM B584 C84400
R-2	Handwheel	Cast Iron	ASTM A126 Class B
R-3	Upper Thrust Washer	Brass	ASTM B36 C26000
R-4	Lower Thrust Washer	Nylatron	-----
R-5	Yoke Nut	Bronze	ASTM B584 C86700
R-6	Hex. Head Cover Bolts & Nuts	Zinc Plated Steel	ASTM A307/A563
R-7	Cover	Cast Iron	ASTM A126 Class B
R-8	Packing Bolts	Zinc Plated Steel	ASTM A307
R-8	Packing Bolt Nuts	Brass	ASTM F467
R-10	Packing Gland	Ductile Iron	ASTM A536 Grade 70-50-5
R-11	Packing	Sq. Braided Non-Asbestos	-----
R-12	O-Ring (Cover)	Buna - N	-----
R-13	O-Ring (Stem)	Buna - N	-----
R-14	Stem	Stainless Steel	ASTM A276 Type 304
R-15	Wedge (EPDM Encapsulated)	Ductile Iron	ASTM A536 Grade 70-50-5
R-16	Body (All Types)	Cast Iron	ASTM 126 Class B
R-17	Pipe Plug: 1/2"; 2 1/2"-4"-3/4"; 6'-12"	Galvanized Steel	-----

## 2" - 12" R/S GATE VALVE OS&Y ASSEMBLY EXPLOSION

KENNEDY VALVE MODEL KS-FW

DET.	QTY.	DESCRIPTION	MATERIALS
R-1	1	Handwheel Hold Down Nut	Bronze
R-2	1	Handwheel	Cast Iron
R-3	1	Upper Thrust Washer (Sizes 3" thru 12")	Bronze
R-4	1	Lower Thrust Washer	Bronze
R-5	1	Yoke Nut	Bronze
R-6	4	Cover Bolts & Nuts (Sizes 2-1/2" thru 6")	Zinc Plated Steel
R-6	8	Cover Bolts & Nuts (Sizes 8" thru 12")	Zinc Plated Steel
R-7	1	Cover	Cast Iron
R-8	2	Packing Bolts	Zinc Plated Steel
R-8	2	Packing Bolt Nuts	Brass
R-10	1	Packing Gland	Ductile Iron
R-11		Packing	Sq. Braided Polymer
R-12	1	O-Ring (Cover)	Buna-N
R-13	1	O-Ring (Stem)	Buna-N
R-14	1	Stem	Stainless
R-15	1	Wedge Disc	D.I. - EPDM Coated
R-16	1	Body	Cast Iron
R-17	1	Pipe Plug	Galvanized Steel





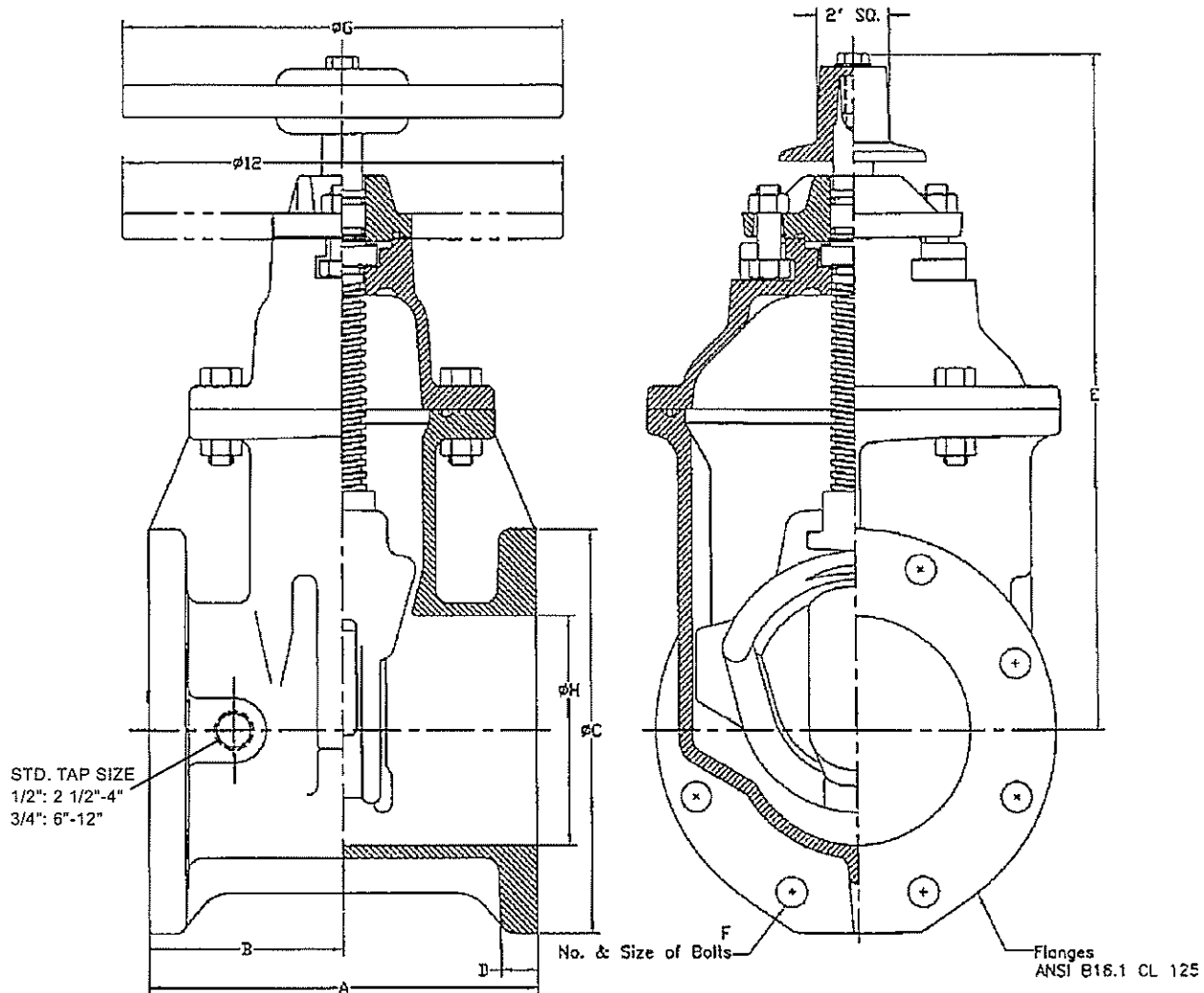
**2" - 12" R/S VALVE NRS FLANGED ENDS  
GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

\*Face to face dimensions conform to ASME B16.10

8561ASS W/HANDWHEEL  
8561ANSS W/NUT  
8701ASS W/POST PLATE (3-12")



ALL FLANGE VALVES TAPPED & PLUGGED @ POSITION "A"

VALVE SIZE	* A	B	C	D	E	F	G	H	WEIGHT*
2	7	3 1/2	6	11/16	10 7/8	4 5/8	7 1/4	2	41
2 1/2	7 1/2	3 3/4	7	11/16	11 3/8	4 5/8	7 1/4	2 1/2	49
3	8	4	7 1/2	3/4	12 3/8	4 5/8	10	3	62
4	9	4 1/2	9	15/16	14 3/4	8 5/8	10	4 1/4	99
6	10 1/2	5 1/4	11	1	19	8 3/4	12	6 1/4	142
8	11 1/2	5 3/4	13 1/2	1 1/8	22 1/2	8 3/4	14	8 1/4	239
10	13	6 1/2	16	1 3/16	26 1/2	12 7/8	18	10 1/4	408
12	14	7	19	1 1/4	30	12 7/8	18	12 1/4	554

NOTE: ADD 16 LBS. FOR INDICATOR POST PLATE (3"-12" ONLY)



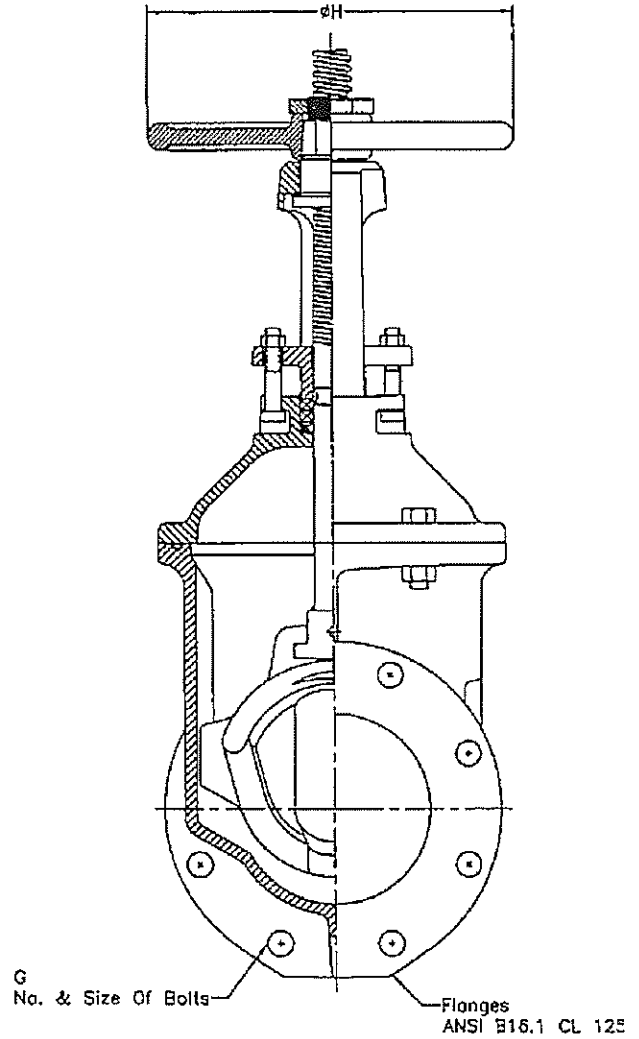
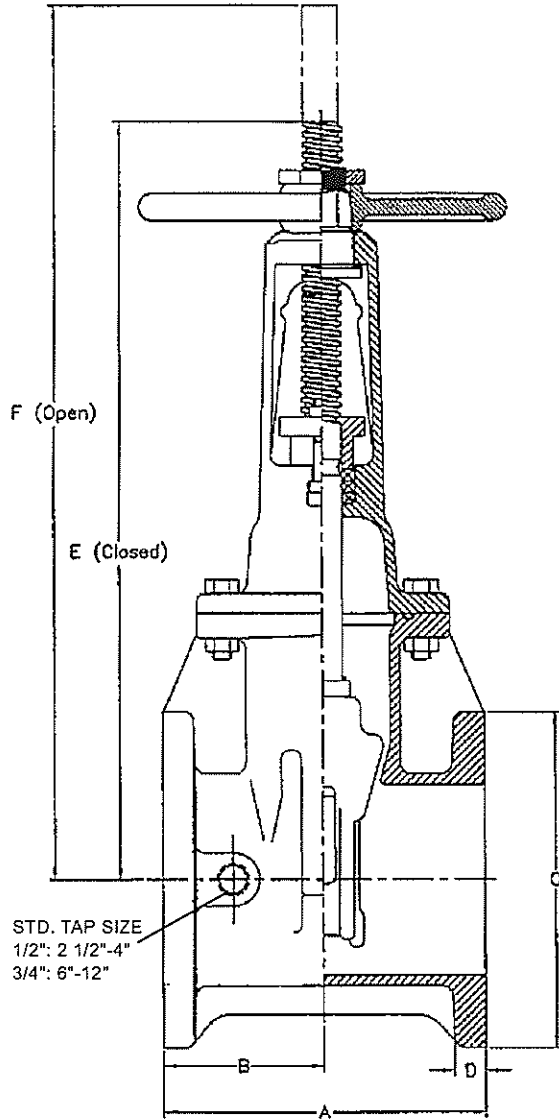
**2" - 12" R/S VALVE FLANGE ENDS  
OS&Y GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8068A

\*Face to face dimensions (inch) conform to ASME B16.10



VALVE SIZE	* A	B	C	D	E	F	G	H	WEIGHT
2	7	3 1/2	6	5/8	12	10	4 5/8	7 1/4	N/A
2 1/2	7 1/2	3 3/4	7	11/16	13 7/8	16 3/8	4 5/8	7 1/4	51
3	8	4	7 1/2	3/4	15 5/8	18 7/8	4 5/8	10	64
4	9	4 1/2	9	15/16	18 1/4	22 3/4	8 5/8	10	105
6	10 1/2	5 1/4	11	1	23 3/4	30 1/8	8 3/4	12	152
8	11 1/2	5 3/4	13 1/2	1 1/8	29 1/4	37 3/4	8 3/4	14	253
10	13	6 1/2	16	1 3/16	35 3/8	45 3/4	12 7/8	18	427
12	14	7	19	1 1/4	40 5/8	53 1/8	12 7/8	18	581

ALL FLANGE VALVES TAPPED & PLUGGED @ POSITION "A"

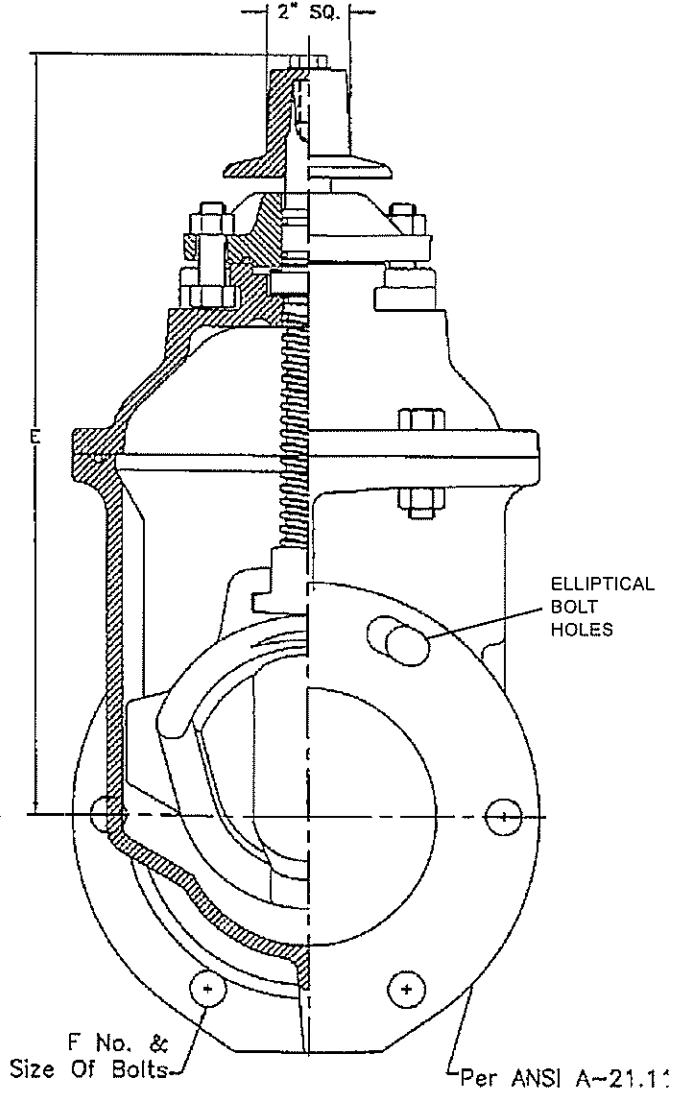
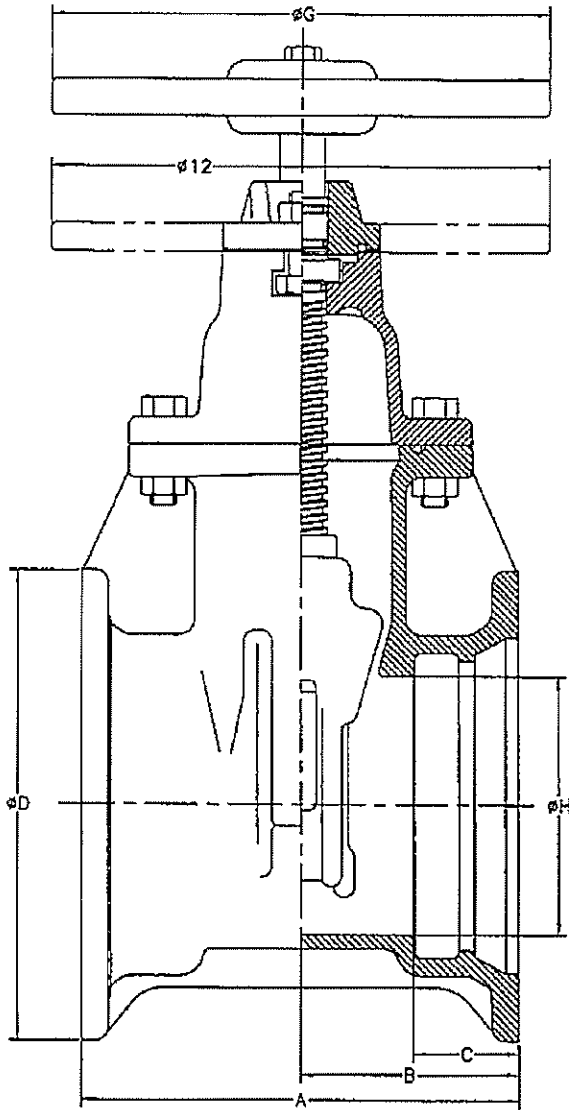


**2"-12" R/S VALVE MECHANICAL  
JOINT ENDS  
GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8571SS STANDARD  
8071SS W/POST PLATE (3-12")



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

VALVE SIZE	A	B	C	D	E	F	G	H	WEIGHT*
2	8 1/4	4 1/8	2 1/2	4 1/2	10 7/8	4 5/8	7 1/4	2	36
2 1/2	—	—	—	—	—	—	—	—	—
3	8 1/2	4 1/4	2 1/2	7 3/4	12 3/8	4 5/8	10	3	59
4	9 1/2	4 3/4	2 1/2	9 1/8	14 3/4	4 3/4	10	4 1/4	86
6	10 1/2	5 1/2	2 1/2	11 3/8	19	6 3/4	12	6 1/4	134
8	13 1/8	6 9/16	2 1/2	13 3/4	22 1/2	6 3/4	14	8 1/4	206
10	15 1/2	7 3/4	2 1/2	15 3/4	26 1/2	8 3/4	18	10 1/4	351
12	16	8	2 5/8	18	30	8 3/4	18	12 1/4	473

\*ADD 16 LBS. FOR INDICATOR POST PLATE (3"-12" only)

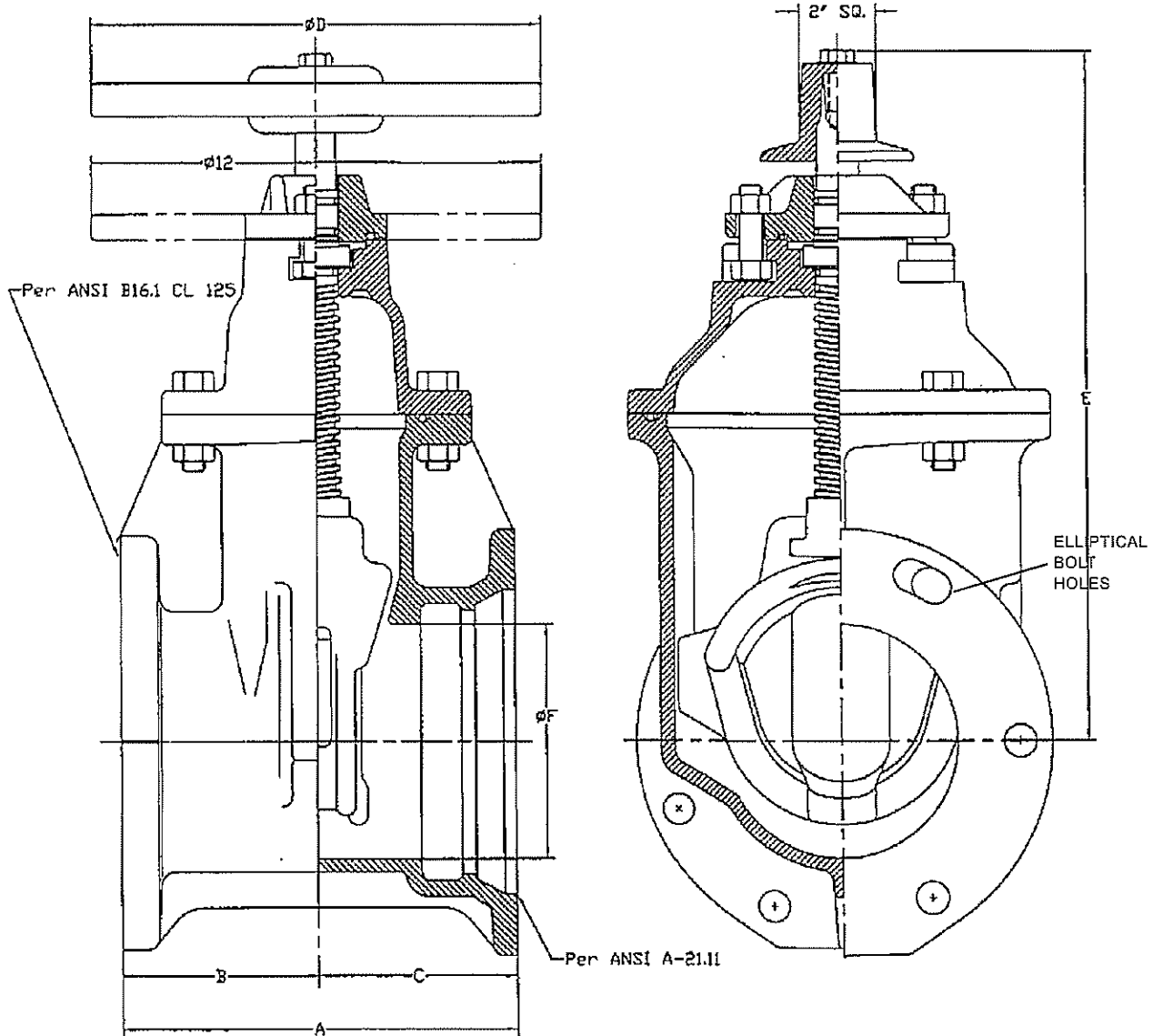


**3"-12" R/S VALVE NRS FLANGED X  
MECHANICAL JOINT ENDS  
GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8572SS STANDARD  
8702SS W/POST PLATE



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

VALVE SIZE	A	B	C	D	E	F	WEIGHT*
3	8 1/4	4	4 1/4	10	12 3/8	3	60
4	9 1/4	4 1/2	4 3/4	10	14 3/4	4 1/4	79
6	10 1/2	5 1/4	5 1/4	12	19	6 1/4	134
8	12 5/16	5 3/4	6 9/16	14	22 1/2	8 1/4	213
10	14 1/4	6 1/2	7 3/4	18	26 1/2	10 1/4	365
12	15	7	8	18	30	12 1/4	497

\*ADD 16 LBS. FOR INDICATOR POST PLATE



**4"-12" R/S VALVE TYTON ENDS  
NRS GENERAL DIMENSIONS**

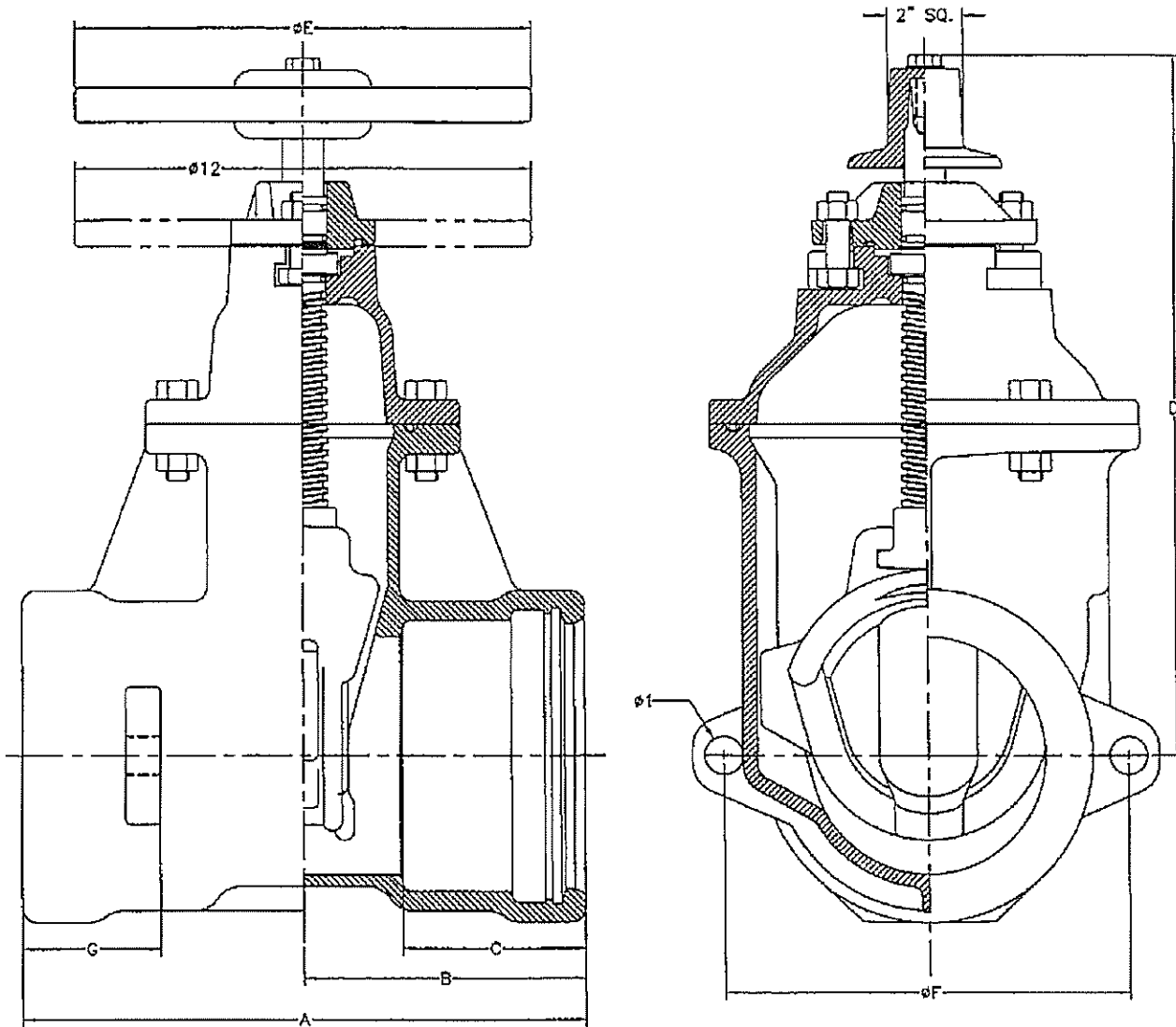
KENNEDY VALVE MODEL KS-FW

Complies with AWWA C509

8901SS  
8901PSS

STANDARD  
W/POST PLATE

**PUSH-ON FOR DUCTILE IRON PIPE**



VALVE SIZE	A	B	C	D	E	F	G	WEIGHT*
4	13 1/4	6 5/8	4.34	14 3/4	10	8 3/16	3 3/4	82
6	14 3/4	7 3/8	4.75	19	12	10 7/8	3 3/4	139
8	17 1/8	8 9/16	5.70	22 1/2	14	12 7/8	4 1/2	216
10	19 3/8	9 11/16	6.19	26 1/2	18	15 15/16	5 1/8	359
12	20 7/8	10 7/16	6.19	30	18	17 7/16	5 3/8	501

\*ADD 16 LBS. FOR INDICATOR POST PLATE



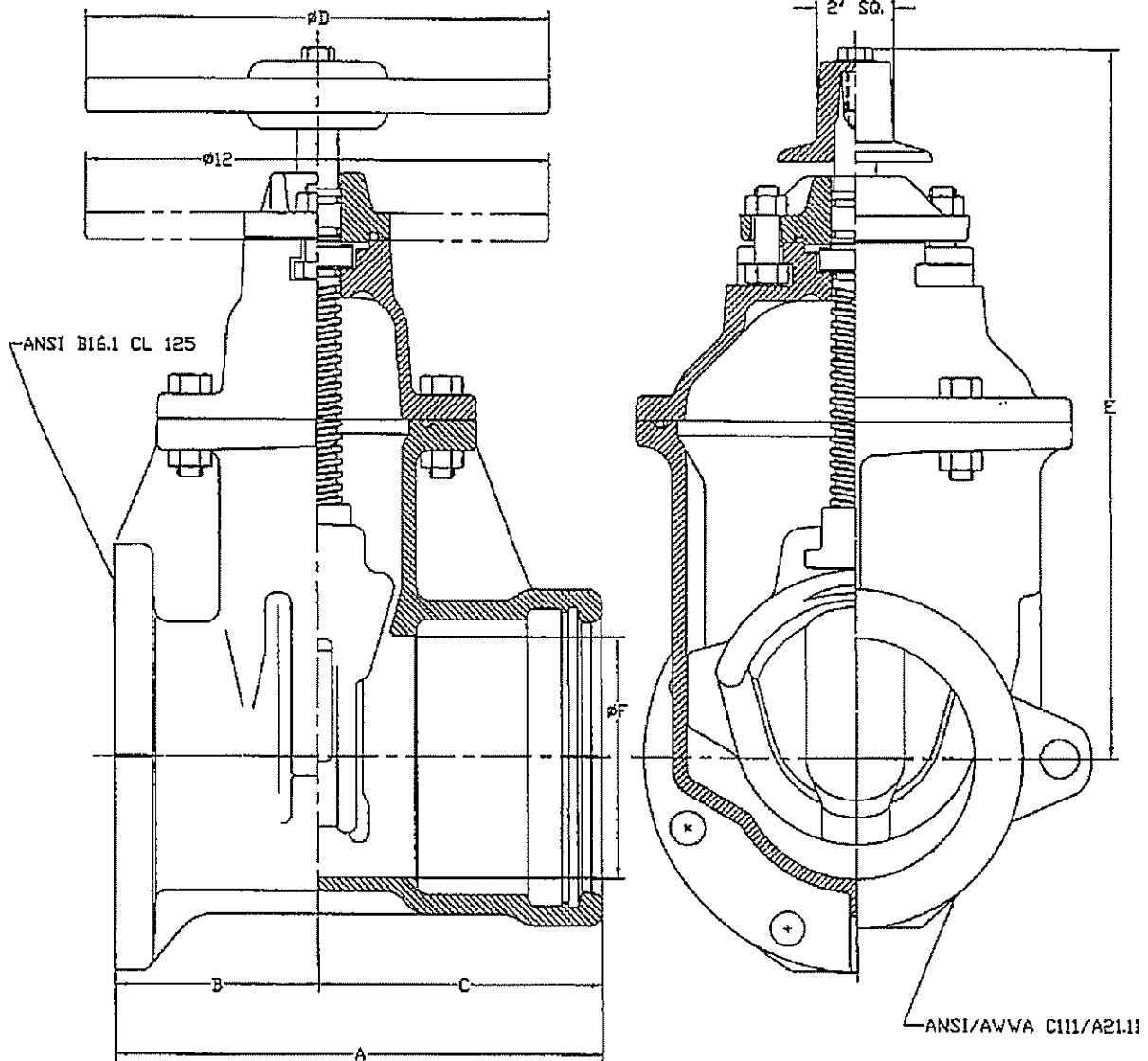
**4"-12" R/S VALVE NRS FLANGE X  
TYTON ENDS GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Valves comply with AWWA C509

8902SS  
8902PSS

STANDARD  
W/POST PLATE



VALVE SIZE	A	B	C	D	E	F	WEIGHT*
4	11 1/8	4 1/2	6 5/8	10	14 3/4	4 1/4	85
6	12 5/8	5 1/4	7 3/8	12	19	6 1/4	139
8	14 5/16	5 3/4	8 9/16	14	22 1/2	8 1/4	219
10	16 3/16	6 1/2	9 11/16	18	26 1/2	10 1/4	372
12	17 7/16	7	10 7/16	18	30	12 1/4	515

\*ADD 16 LBS. FOR INDICATOR POST PLATE



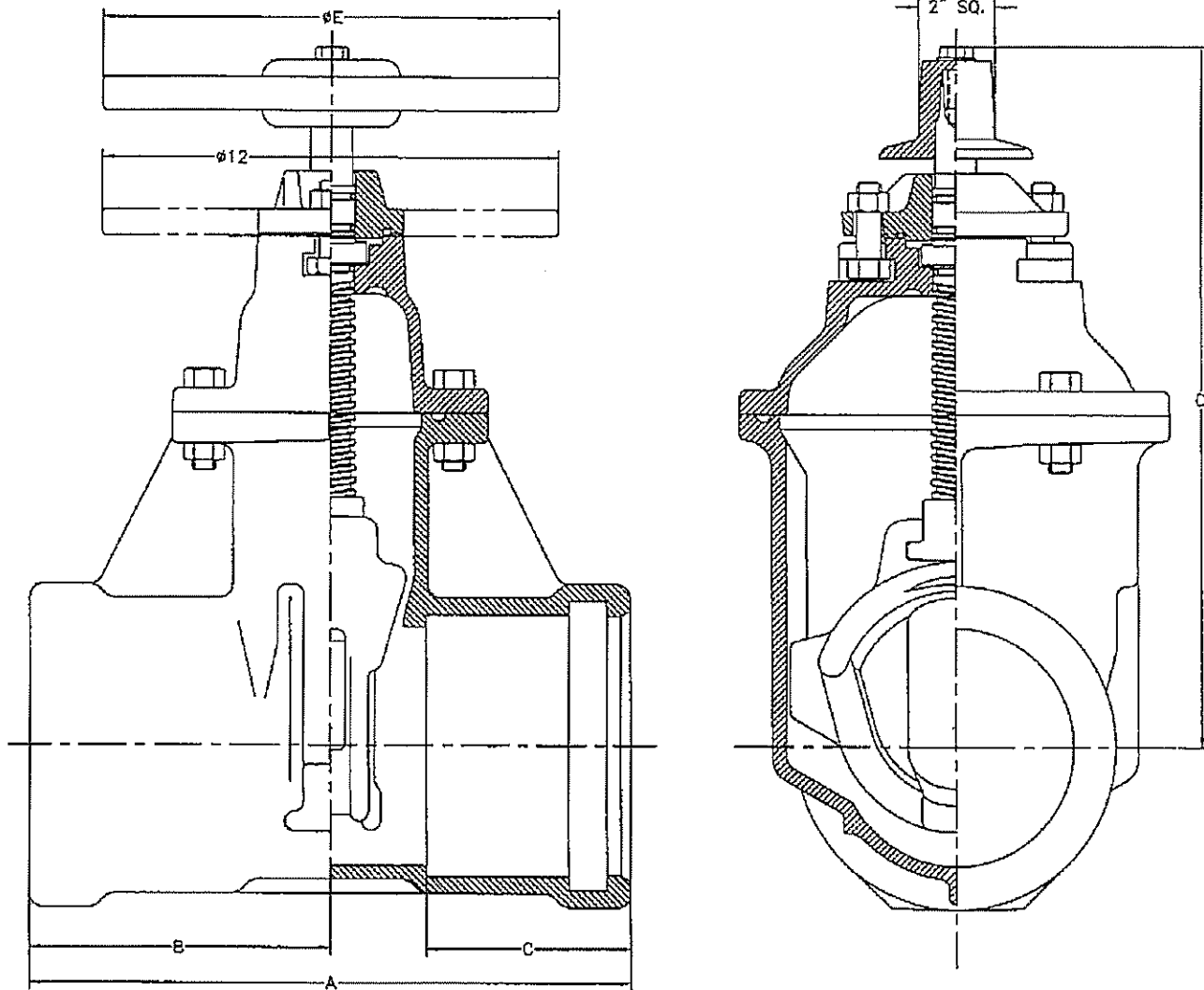
**2"-12" R/S VALVE PVC ENDS  
NRS GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8597SS  
8597PSS

STANDARD  
W/POST PLATE (3-8")



VALVE SIZE	A	B	C	D	E	WEIGHT*
2	10	5	3 1/2	10 7/8	7 1/4	35
2 1/2	10 3/4	5 3/8	3 3/4	11 3/8	7 1/4	44
3	11 5/8	5 13/16	4 1/6	12 3/8	10	53
4	13 1/2	6 3/4	4 1/2	14 3/4	10	84
6	15 3/4	7 7/8	5 3/8	19	12	137
8	16 1/4	8 1/8	5 3/8	22 1/2	14	223

\*ADD 16 LBS. FOR INDICATOR POST PLATE (3" - 8" only)



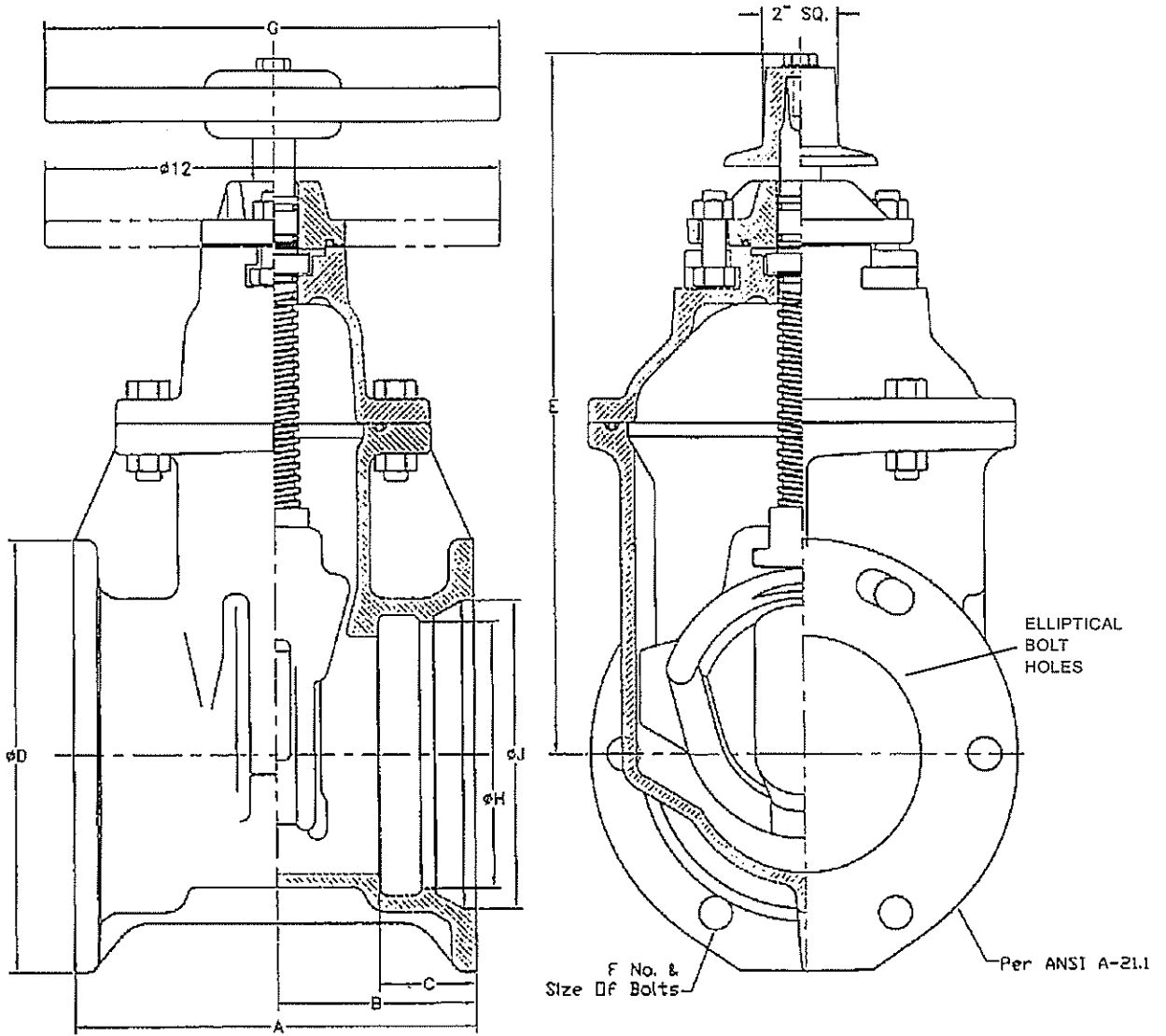
**2"-12" R/S VALVE MECHANICAL CUT  
JOINT ENDS GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8576SS  
8576PSS

STANDARD  
W/POST PLATE



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

VALVE SIZE	A	B	C	D	E	F	G	H	J	WEIGHT*
4	9 1/2	4 3/4	2 1/2	9 1/8	14 3/4	4 3/4	10	5.10	6.20	86
6	10 1/2	5 1/4	2 1/2	11 3/8	19	6 3/4	12	7.20	8.30	134
8	13 1/8	6 9/16	2 1/2	13 3/4	22 1/2	6 3/4	14	9.40	10.50	206
10	15 1/2	7 3/4	2 1/2	15 3/4	26 1/2	8 3/4	18	11.50	12.62	351
12	16	8	2 5/8	18	30	8 3/4	18	13.60	14.72	473

\*ADD 16 LBS. FOR INDICATOR POST PLATE



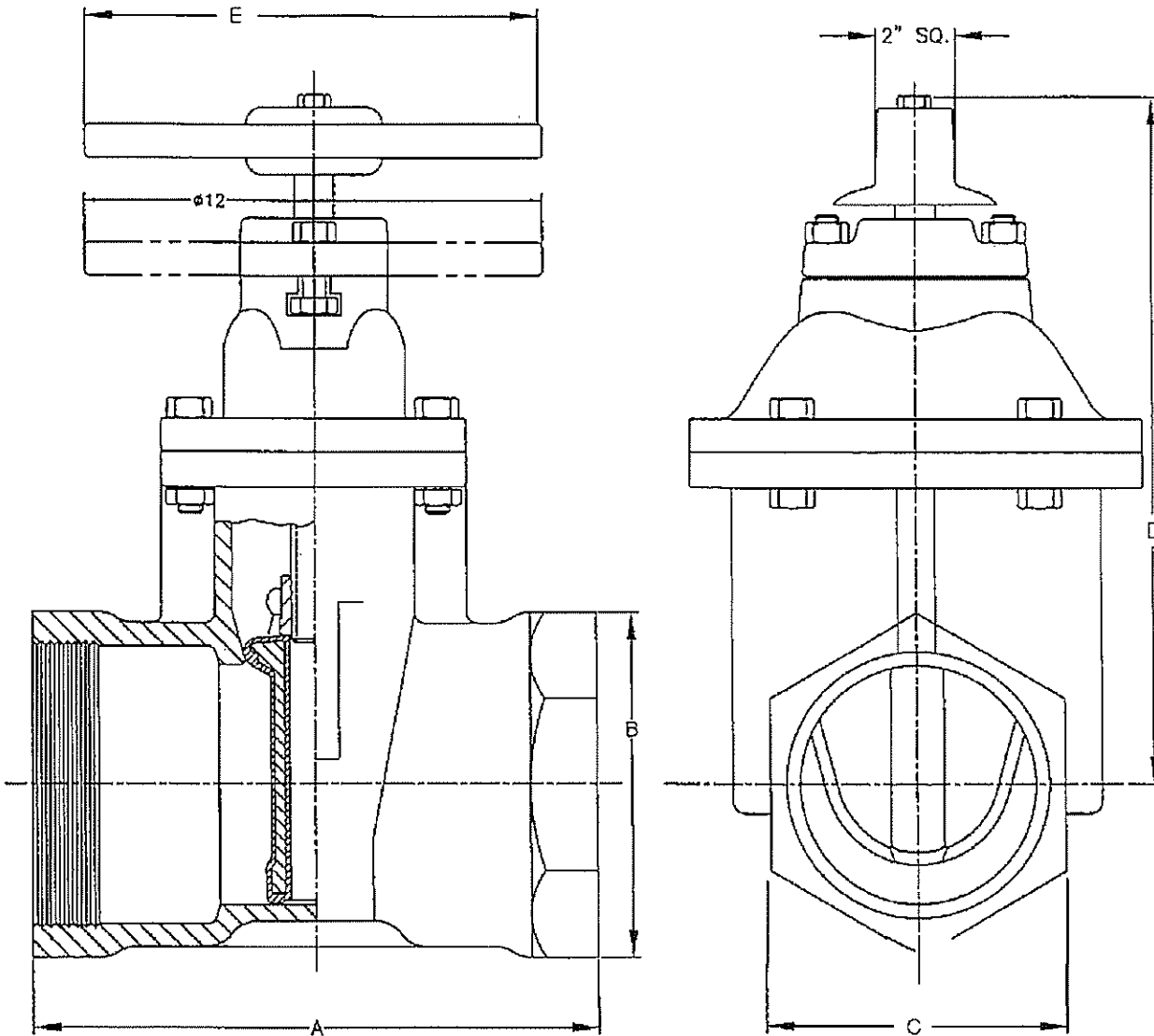
**2"-3" R/S VALVE THREADED ENDS  
NRS GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8057SS  
8057WSS

2" NUT  
HANDWHEEL



VALVE SIZE	A	B	C	D	E	WEIGHT*
2	5 1/4	4 1/8	3 9/16	10 7/8	7 1/4	20
2 1/2	7	5 3/16	4 1/2	11 3/8	7 1/4	40
3	7 1/8	5 5/8	4 7/8	12 3/8	10	47

\*ADD 16 LBS. FOR INDICATOR POST PLATE (3" ONLY)



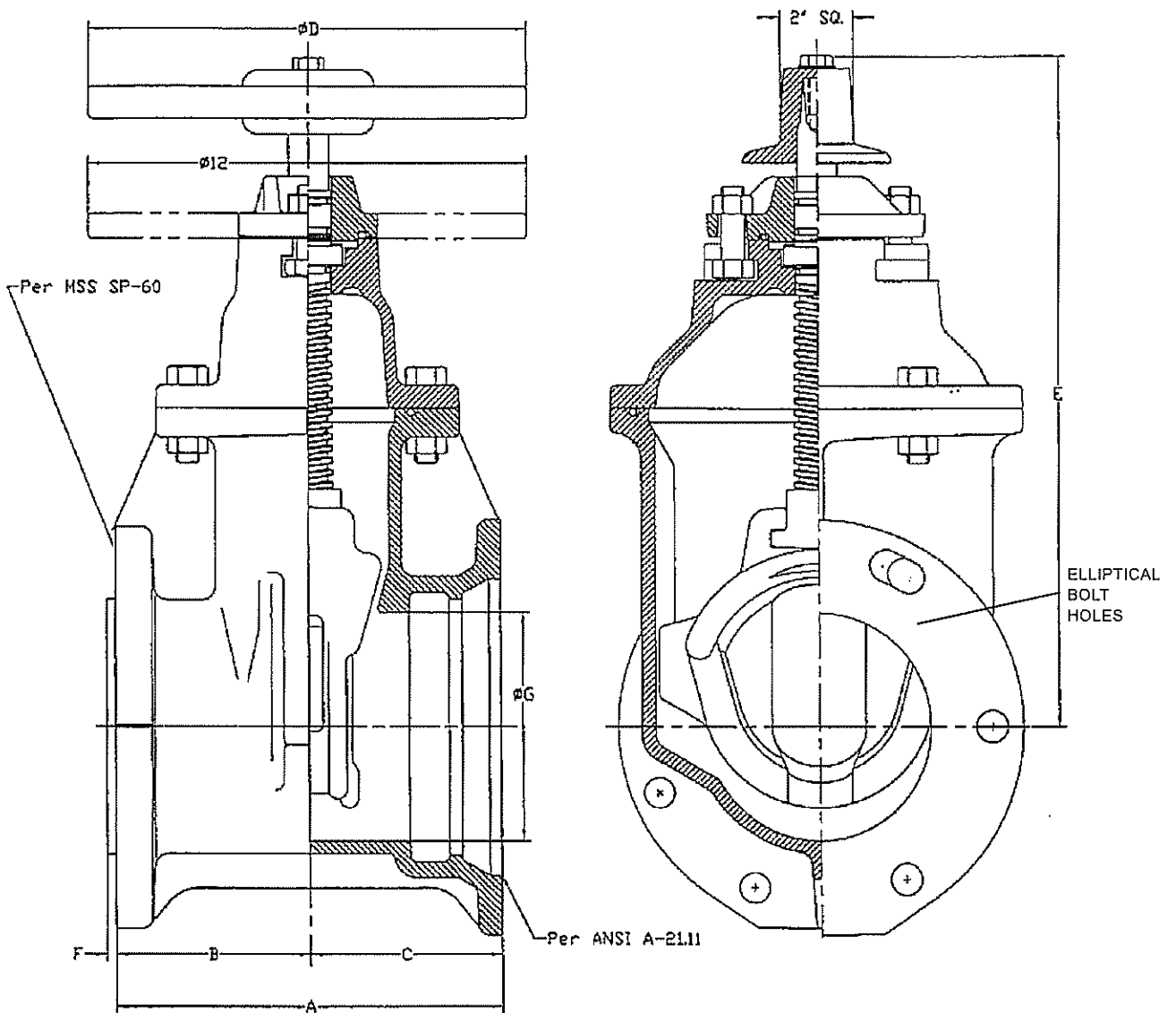
Valves comply with AWWA C509

**3" 12" R/S VALVE NRS TAP X  
MECHANICAL JOINT ENDS  
GENERAL DIMENSIONS**

KENNEDY VALVE MODEL KS-FW

8950SS  
8950PSS

STANDARD  
W/POST PLATE



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

VALVE SIZE	A	B	C	D	E	F	G	WEIGHT*
4	9 1/4	4 1/2	4 3/4	10	14 3/4	3/16	4 1/4	92
6	10 1/2	5 1/4	5 1/4	12	19	1/4	6 1/4	144
8	13 1/4	5 3/4	7 1/2	14	22 1/2	1/4	8 1/4	224
10	14 1/4	6 1/2	7 3/4	18	26 1/2	1/4	10 1/4	392
12	15	7	8	18	30	1/4	12 1/4	527

\*ADD 16 LBS. FOR INDICATOR POST PLATE

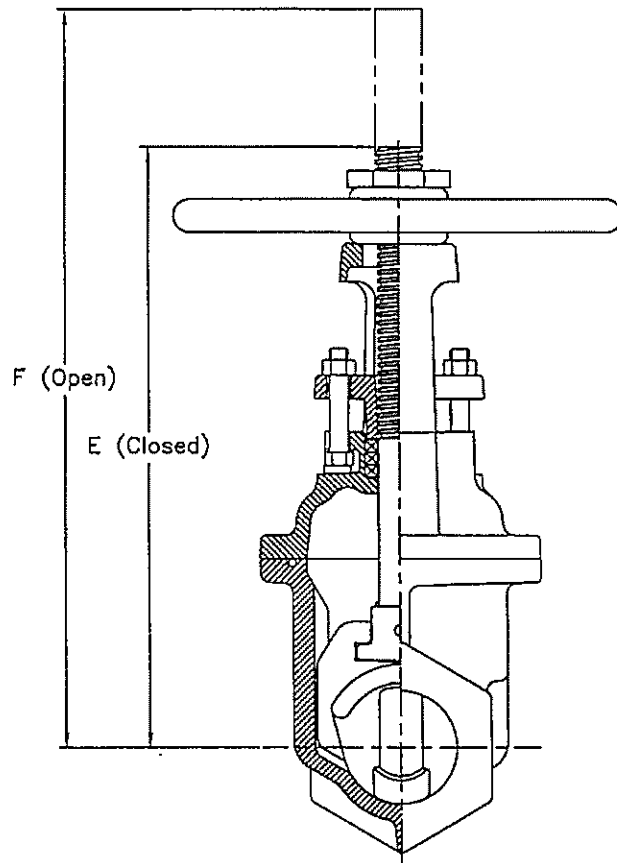
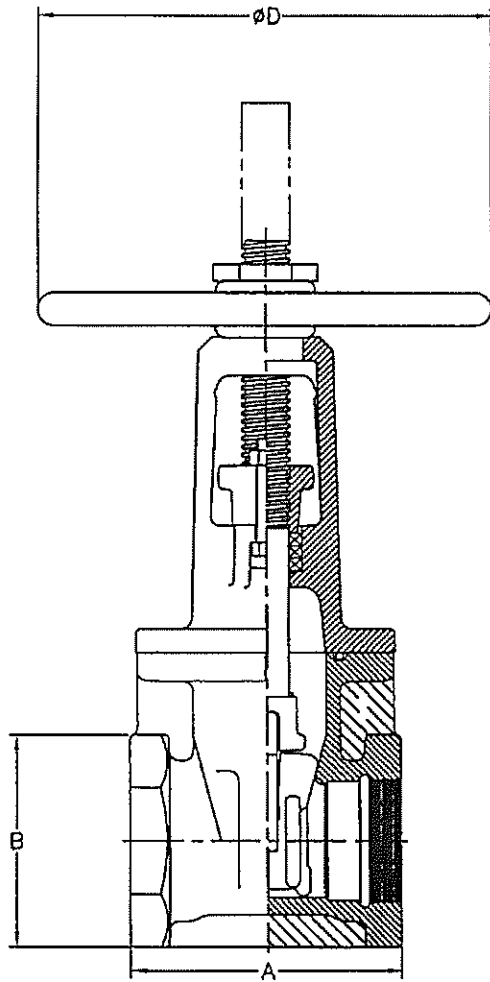


**2"-3" R/S VALVE THREADED ENDS  
OS&Y GENERAL DIMENSIONS**

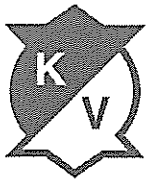
KENNEDY VALVE MODEL KS-FW

Complies with applicable requirements of AWWA C509

8067



VALVE SIZE	A	B	D	E	F	WEIGHT*
2	5 1/4	4 1/8	7 1/4	10	12	N/A
2 1/2	7	5 3/16	7 1/4	13 7/8	16 3/8	40
3	7 1/2	5 3/16	10	15 5/8	18 7/8	50



# Kennedy Valve

A DIVISION OF McWANE, INC.

[www.kennedyvalve.com](http://www.kennedyvalve.com)

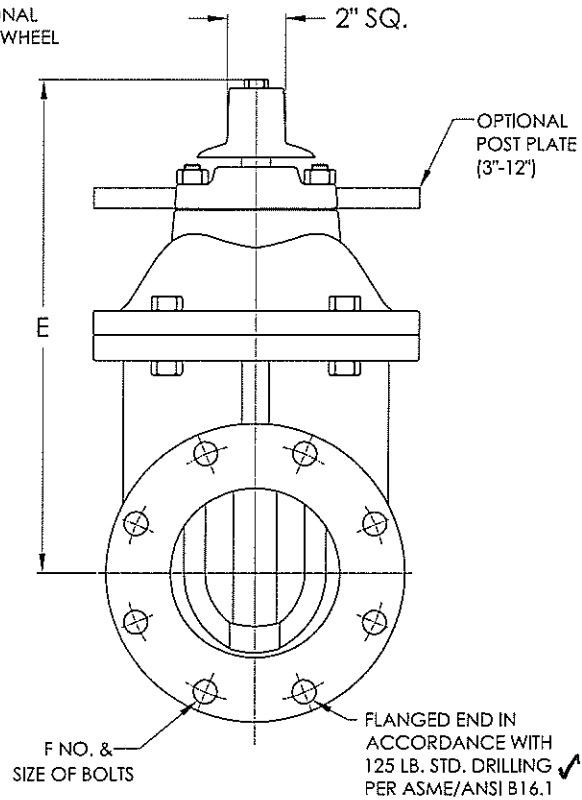
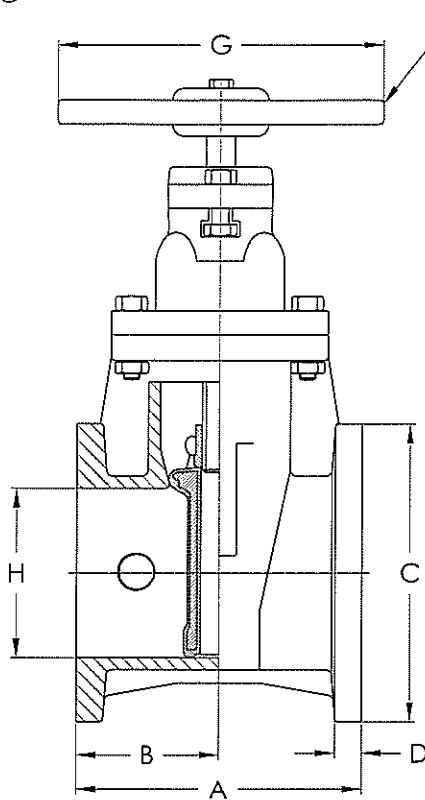
1021 E. Water Street • Elmira, New York 14901

P.O. Box 981

PHONE: (607) 734-2211 • FAX: 1-800-952-4771



A.W.W.A Standard C509



VALVE SIZE	A	B	C	D	E	F	G	H	TURNS TO OPEN	WEIGHT
**2	7	3 1/2	6	5/8	10 7/8	4-5/8	7 1/4	2	7 3/4	41
**2 1/2	7 1/2	3 3/4	7	11/16	11 3/8	4-5/8	7 1/4	2 1/2	8	51
3	8	4	7 1/2	3/4	12 3/8	4-5/8	10	3	10	62
4	9	4 1/2	9	15/16	14 3/4	8-5/8	10	4 1/4	13 1/2	87
6	10 1/2	5 1/4	11	1	19	8-3/4	12	6 1/4	19 1/2	134
8	11 1/2	5 3/4	13 1/2	1 1/8	22 1/2	8 3/4	14	8 1/4	25 1/2	205
10	13	6 1/2	16	1 3/16	26 1/2	12-7/8	18	10 1/4	31 1/2	331
12	14	7	19	1 1/4	30	12-7/8	18	12 1/4	37 3/4	515

\*WEIGHT W/HANDWHEEL-ADD 1# FOR (2" - 2 1/2"), 6.5# FOR (3"-4"), 7# FOR (6"), 10# FOR (8"), 16# FOR (10" & 12")  
 \*WEIGHT W/INDICATOR POST PLATE ADD 16# FOR (3"-12"), NOT AVAILABLE FOR (2"-2 1/2")  
 \*2" and 2 1/2" not included in AWWA C509

REPLACES F-6102-CI-2~12-GD  
 REPLACES F-6102-DI-2~12-GD

UNLESS OTHERWISE SPECIFIED: CASTING DIM: 0" - 4" +/- 1/32" 4" - 8" +/- 3/64" 8" - 12" +/- 1/16" 12" - 18" +/- 3/32" 18" - UP +/- 1/8" RADII 1/8" DRAFT 2°		NAME	DATE	<b>KENNEDY VALVE</b> Division of McWane, Inc. 1021 EAST WATER STREET ELMIRA, NEW YORK 14901
	DRAWN	N.HOLT	7/25/14	
	CHECKED	-	-	
	APPROVED	-	-	
MACHINING DIM: DUAL DIM. INCHES (MM) FRACTIONAL ± 1/64 ANGULAR ± .5 RADII ± 1/32" TWO PLACE DECIMAL ± .02 THREE PLACE DECIMAL ± .005	DO NOT SCALE DRAWING			TITLE: 2-12 INCH RESILIENT WEDGE GATE VALVE - C509 NRS - FLxFL GENERAL DIMENSIONS
	MATERIAL:	Weight: LBS	SIZE	PART NO.
	FINISH: 125 RMS		A	CAT910080A
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IS THE SOLE PROPERTY OF KENNEDY VALVE CO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KENNEDY VALVE CO. IS PROHIBITED. DESIGN & INVENTION RIGHTS RESERVED.				SHEET 1 OF 1



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Brazil, IN 47834  
Phone (812) 442-5080  
FAX (812) 442-1550

1825 E. National Ave.  
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Phone (812) 442-5080  
FAX (812) 442-1550

1855 E. Industrial Drive  
Grand Haven, MI 49417  
Phone (616) 846-4400  
FAX (616) 846-4209

550-560 Centennial Blvd.  
Casa Grande, AZ 85122  
(520) 421-9440  
FAX (520) 421-7255

675 Progress Ave.  
Lawrenceville, GA 30043  
(770) 963-1200  
FAX (770) 963-2183

### Technical Data Sheet

PRODUCT DESCRIPTION: Epoxy

ISSUE DATE: 02/10/2016

PRODUCT NUMBER: B13369ER80K

LAB NUMBER: B-3675-13

#### PHYSICAL ATTRIBUTES

PRODUCT: RED OXIDE EPOXY

IMPACT RESISTANCE DIRECT: 160IN/LBS @ 2.5-3.5 MILS(ASTM D2794)

IMPACT RESISTANCE INDIRECT: 160IN/LBS @ 2.5-3.5 MILS(ASTM D2794)

CROSS-HATCH ADHESION: 5B (ASTM D3359)

CONICAL MANDREL: LAB=1/8" (ASTM D522)

PENCIL HARDNESS: LAB=2H (ASTM D3363)

SPECIFIC GRAVITY: 1.41 +/- 0.05 G/ML

THEORETICAL COVERAGE: 136.57 FT<sup>2</sup>/LB @ 1 MIL

60°GLOSS: 88%+ (ASTM D523)

#### APPLICATION & CURE METHODS

APPLICATION METHODS: ELECTROSTATIC SPRAY 50-100 KV

RECOMMENDED CURE TEMP: 10MIN.@375F PMT

SUBSTRATE: CRS WITH ZINC OR IRON PHOSPHATE PRETREAT

RECOMMENDED FILM BUILD: 3.0-14.0 MILS

#### Remarks:

1. This powder is to be stored below 80°F/26.7°C and 50% R.H. If it is stored at temperatures below the application room temperature, allow the product to come to room temperature before opening.
2. POWDER MUST BE PROPERLY CURED ON CLEAN, DRY, PROPERLY PRETREATED SUBSTRATE(S) .
3. The information contained in this bulletin, we believe, is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be made in your laboratory or plant to determine if this product meets all of your requirements.
4. **IMPORTANT:** Our only obligations shall be to replace or pay for any material proved to be defective. Beyond the purchase price of materials supplied by us we assume no liability for damages of any kind and the user accepts the product "as is" and without warranties, expressed or implied. The suitability of the product for all intended use shall be solely up to the user.

DATE PRINTED: 02/10/2016