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KENNEDY VALVE

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

C-509 FULL BODY CAST IRON RESILIENT WEDGE VALVE



2" THROUGH 12"

MODEL KS-FW

**AWWA C-509
AWWA C-550**



PROUDLY



**MADE IN ELMIRA, NEW YORK
USA**



(Revised 03-27-2011)

C-509 CAST IRON RESILIENT WEDGE VALVE

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

In 2002, with the end user in mind, Kennedy redesigned the Ken Seal Series introducing the model KS-FW. The goal of the redesign was to eliminate the customer need for any anti-rotational bolts. Kennedy did this by designing a machined elliptical bolthole in place of an as-cast opening. This elliptical design allows valve installers to slide a standard sized bolt into the slot, therefore eliminating the need to have two different types of bolts on the installation.

RECOMMENDED SPECIFICATIONS FOR C-509 CAST IRON RESILIENT WEDGE GATE VALVES

KENNEDY VALVE COMPANY

Valves shall conform to the latest revision of AWWA Standard C-509 covering resilient seated gate valves for all water supply service.

The valves shall have a cast 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. Blind bolts shall not 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 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 stems are available but not standard. 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 2"-12" shall also have two low torque thrust bearings 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. 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 certified 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-509 (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.

Kennedy ULFM - AWWA R/W VALVE

Features and Benefits

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

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

ALL NRS STYLE VALVES ARE STAIN-LESS

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

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

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

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.

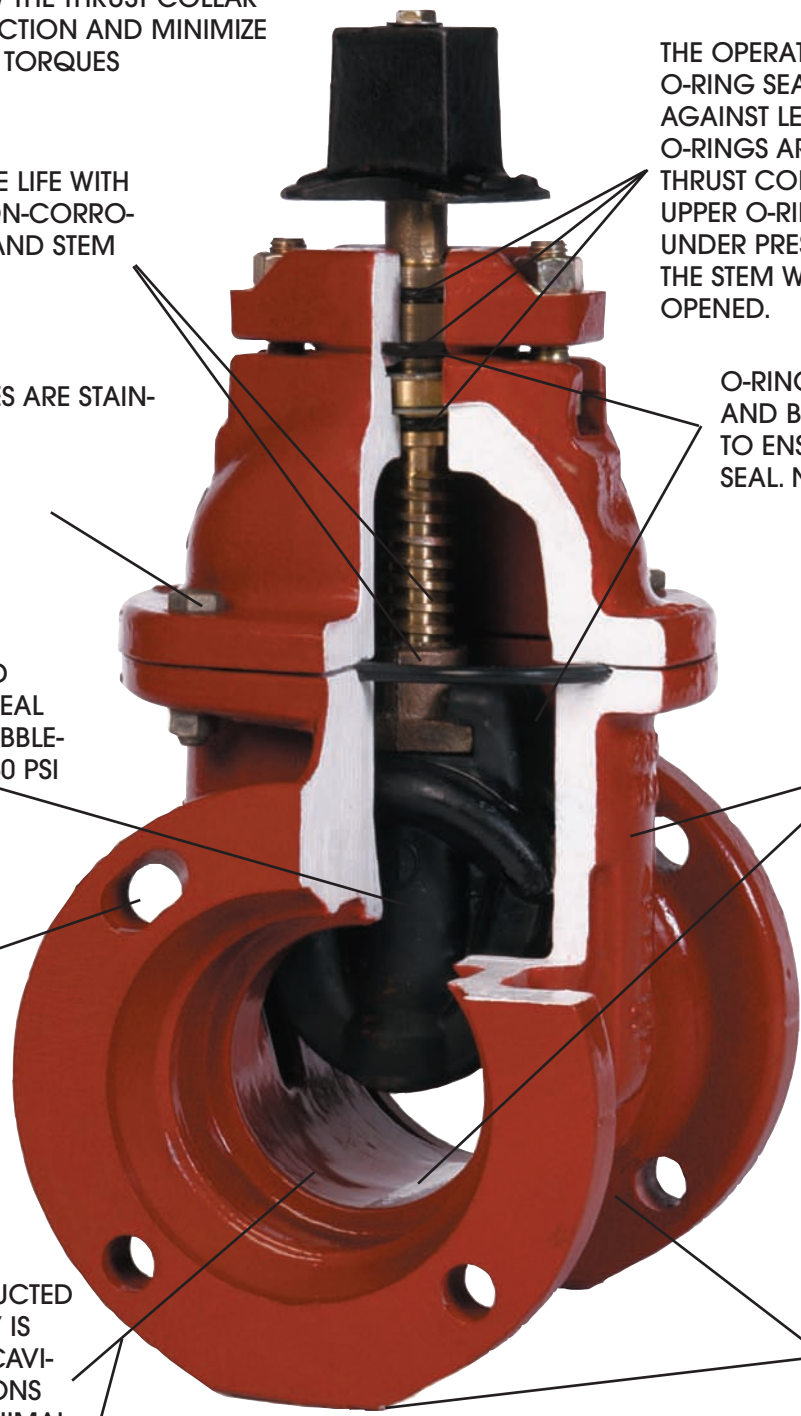
THE OPERATING MECHANISM IS TRIPLE O-RING SEALED TO COMPLETELY SEAL AGAINST LEAKAGE PAST THE STEM. TWO O-RINGS ARE PROVIDED ABOVE THE THRUST COLLAR AND ONE BELOW. UPPER O-RINGS CAN BE REPLACED UNDER PRESSURE WITHOUT REMOVING THE STEM WHEN THE VALVE IS FULLY OPENED.

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

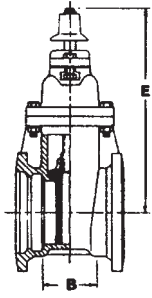
KENNEDY CORROSION RESISTANT FUSION-BONDED EPOXY COATING, CONFORMING TO AWWA C-550 AND NSF61 CERTIFIED, PROTECTS BOTH INSIDE AND OUTSIDE OF VALVE.

PADS ON THE BOTTOM OF ALL VALVES KEEP VALVE IN UPRIGHT POSITION FOR EASIER STORAGE AND PROTECTION FROM THE ELEMENTS.

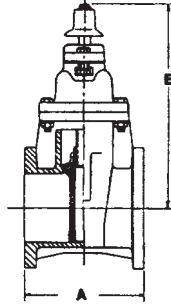
10 YEAR LIMITED WARRANTY



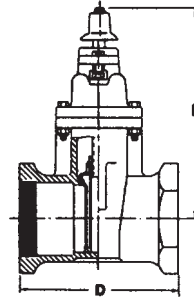
AVAILABLE END CONNECTIONS & DIMENSIONS FOR KENNEDY 2" - 12" C-509 CAST IRON RESILIENT WEDGE VALVE



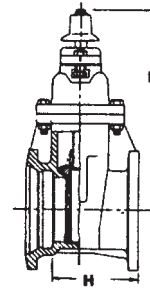
8571
MECHANICAL JOINT ENDS
2" • 12"



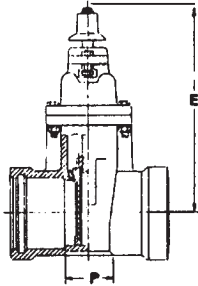
8561
FLANGED ENDS
2" • 12"



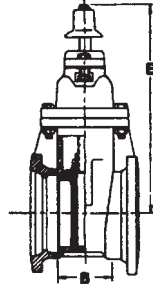
8057
THREADED ENDS
2" • 3"



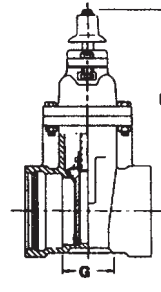
8572
FLANGED X MJ
3" • 12"



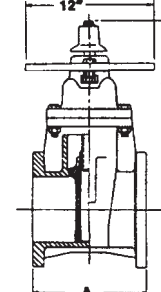
8597
PUSH-ON FOR PVC
2" • 8"



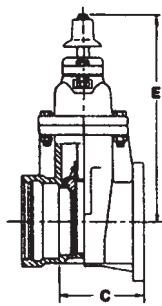
8576
MECHANICAL CUTTING-IN JOINT
4" • 12"



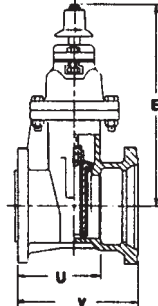
8901
TYTON ENDS
PUSH-ON FOR (D.I. & C900)
4" • 12"



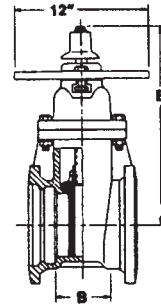
8701
FLANGED ENDS
POST INDICATOR VALVE (PIV)
3" • 12"



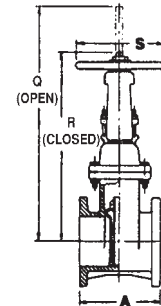
8902
FLANGED & TYTON JOINT
PUSH-ON FOR (D.I. & C900)
4" • 12"



8950
TAPPING X MJ
TAPPING VALVE
4" • 12"



8071
MECHANICAL JOINT
POST INDICATOR VALVE (PIV)
3" • 12"



8068
FLANGED ENDS
OS&Y CONSTRUCTION
2 1/2" • 12"

	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 1/8	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 3/4	13 1/2
6"	10 1/2	5	7 7/8	—	19	5 1/4	7 3/4	5	30 1/8	23 3/4	12	7 5/8	11 3/16	19 1/2
8"	11 1/2	5 1/2	8 1/2	—	22 1/2	5 5/8	8 1/2	5 1/2	37 3/4	29 1/4	14	8 1/2	11 3/4	25 1/2
10"	13	7	10	—	26 1/2	7	10	—	45 3/4	35 3/8	18	10	13 1/2	31 1/2
12"	14	6 3/4	11 1/4	—	30	8 1/2	10 7/8	—	53 1/8	40 5/8	18	11	14 3/4	37 3/4



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(Revised 03-27-2011)