



KENNEDY VALVE

A Division of McWane, Inc.



Ductile Iron Valves
To EN/ISO Standards



Kennedy Valve Company

A Division of McWane, Inc.



A TRADITION OF MORE THAN 125 YEARS:



Located in the bustling town of Elmira, New York in USA, Kennedy Valve started in 1877. Recognized as one of the most experienced manufacturers and suppliers of water works products in the country, Kennedy does it all. Our modern facilities and cutting edge technologies have made us an economic, environmental and community leader. From state of the art environmental upgrades to advanced training initiatives and community out reach, we're working everyday to make sure that Kennedy is the best in the business.

Kennedy Valve Since 1877

- 1877 - Daniel Kennedy starts making gate valves in a shop on Gold Street in lower Manhattan.
- 1890 - To provide larger manufacturing facilities, the plant is moved to Coxsackie, New York. The D.Kennedy firm becomes the Kennedy Valve Manufacturing Co.
- 1907 - The Kennedy Valve business continues to develop rapidly and a larger, more modern plant is built on a 20- acresite in Elmira, New York – now 52.59 acres.
- 1920 - Kennedy Valve expands with the addition of a brass foundry.
- 1940 - The plant receives three Maritime Commission awards to manufacture eight million valves for the Victory Fleet.
- 1962 - Kennedy Valve Manufacturing Co. is purchased by Grinnell Corp.of Providence, Rhode Island.
- 1969 - Grinnell Corp. is purchased by ITT, and Kennedy Valve Manufacturing Co. becomes a wholly owned subsidiary of ITT Grinnell.
- 1988 - McWane, Inc. of Birmingham, Alabama, purchases Kennedy Valve from ITT Corp.
- 1997 - McWane, Inc. invests heavily in capital improvements.
- 2007 - Kennedy Valve celebrates the milestone of 100 years of operations in Elmira, New York.
- 2010 - Annual sales exceed US \$ 125 Million.
- 2011 - Kennedy Valve began utilizing a new product development and valve testing facility in Coimbatore operated by sister company, MSPL. MSPL also started supply of raw castings, machined castings, trim parts and other ISO components to Kennedy Valve in the U.S. and McWane Gulf.
- 2014 - MSPL's full-fledged modern valve manufacturing facility at Coimbatore now producing Water Valves to serve domestic Indian Market, Kennedy Valve in the U.S. and other McWane, Inc. divisions and subsidiaries.

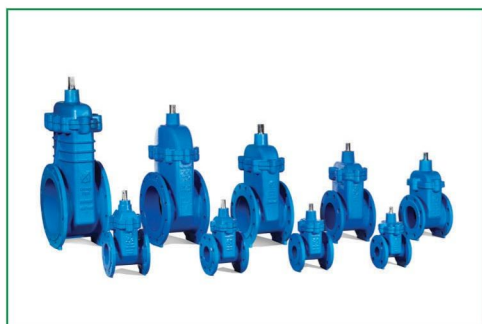


Since 1988 Kennedy Valve has been part of McWane, Inc.

During the last 25 years Kennedy has invested over 40 million dollars in capital improvements. These improvements have come in the form of safer production processes, environmentally friendly facilities and more productive work place practices. By installing technology like our closed-loop water-cooling system and acid scrubber, Kennedy is ensuring that water and air pollution is prevented and controlled. But we don't stop at caring for the planet; we make sure that our facilities are safe for our employees too. Over the years, we've implemented a comprehensive health and safety program designed to protect our workers. Toward this end we employ qualified health and safety staff members who work full time productive environment.

At Kennedy we manufacture and sell a wide range of products to support water and waste water infrastructure needs around the world. From valves and hydrants to commercial fire loop products we cover everything conforming to a variety of AWWA, ISO, EN, UL, FM, NSF and other specifications. That means that customers from around the country, and the world, can rely on Kennedy to handle their diverse needs. For quality you can count on, Kennedy is there.

Manufacturing Plant:



The Kennedy plant in Elmira is one of the largest valve and hydrant manufacturing facilities in the USA with a sophisticated foundry and plant area of more than 500,000 Sq-ft (46,000SqM) and numerous CNC automatic machining facilities. The plants employs over 400 dedicated American workers. The factory is certified to the ISO 9001:2008 Quality Management Systems standards. Kennedy Valve received this certification from ULDQS, an ANAB registrar. The plant has committed to Quality, Innovation, Safety and Environmental management systems.

Environmental, Health & Safety policy

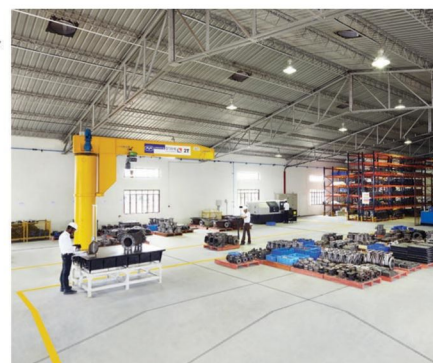
Kennedy Valve is committed to up holding the following principles in all of our business activities:

Compliance: We will manage our business activities to meet all government laws and regulations as well as internally established environmental, health, and safety requirements. Our goal is 100% compliance, 100% of the time.

Protection: We will conduct our activities in a responsible manner to

protect our employees, the public, and the environment, and to minimize impacts from our operations.

Improvement: We will strive to continually improve our environmental, health, and safety performance.



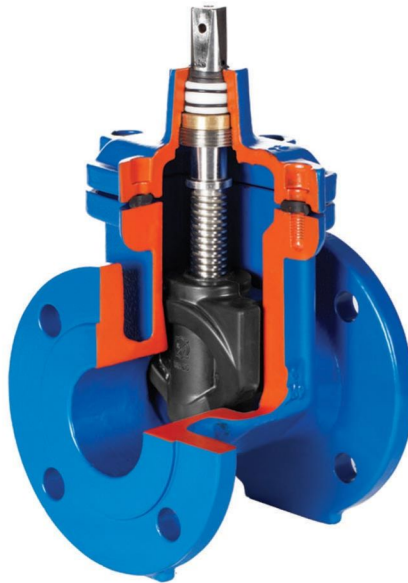
Ductile Iron Valves and Hydrants:



Kennedy manufactures thousands of Resilient Seated Valves for drinking water and treated water applications. We believe that Ductile Cast Iron is the natural Green material for water transmission with 100% recyclable properties. Kennedy valves and hydrants are considered as some of the most reliable and dependable products meeting the following customer expectations:

- ◆ Long service Life
- ◆ Economical installed cost
- ◆ Maintenance free operation
- ◆ Excellent corrosion resistant FBE coating
- ◆ Tightshut off

Kennedy EN Series 31 Resilient Seated Gate Valves



Technical Specifications SERIES 31

Type : Resilient Seated Gate Valves

Design & Test standard : IS-14846, EN1074- 1 & 2

Flange Drilling : EN1092-2

Face To Face : | SO5752 & EN558 Series 3, 14 and 15 options, BS5163

Sizes : DN50 to DN400

Pressure Ratings : PN10, PN16

Standard Materials : Body, Bonnet and Wedge core made of Ductile Iron EN 1563, Shutoff wedge Vulcanized EPDM, Bolts Stainless Steel A4, Stem Stainless Steel, Copper Alloy

Protective Coating : Fusion Bonded Epoxy (FBE) coating, Non Toxic NSF approved, applied to minimum 300 micron thickness

Bi-Directional design with clockwise closing

Applications : Potable & Treated Sewage Water

Special Versions

- SS316 / 316L Stem and Bolting
- 300 Microns FBE Coating
- NSF approved materials for potable water
- NBR Wedge for Treated Sewage TSE & Gas applications
- ISO Top Flange version (Series32) for Gear / Actuator mounting
- ANSI#150 Drilling

Optional Accessories

- Stem Cap 27MM X 27MM
- Extension Spindles
- Hand wheels
- Mitre Worm Gear for Series32

Product Features

Patented Wedge Design : The means of attachment of the spindle to the wedge by using an integral wedge spindle nut of Copper Alloy of a unique pattern which precludes the assembly becoming loose in operation. This minimizes number of moving parts as well as offer minimum restriction to the flow.

Maintenance free stem seal design : The sealing of the stem consist of EPDM / NBR wiper ring, 2 EPDM/NBR "O" rings internal and 2 external, plastic bearing (gland) and rubber seal.

Long Service Life and Tight shutoff : The wedge of the gate valve is fully encapsulated with EPDM rubber. Adequate rubber thickness provided in order to ensure tight shut off. Wedges designed to work through out the valve service life.

Low Torque : Valves offering low torques for closing and opening. Plastics liding caps on wedge rails available on Large sizes DN350 & Above for Torque reduction

- **Corrossion Life test certified by UL**
- **Life cycle test & Endurance test certified by UL & BVQI at FCRI**

Kennedy EN Series 21 Resilient Seated Swing Check Valves



Technical Specifications SERIES 21

Type : Resilient Seated Flanged Swing Check Valves

Design & Test standard : IS 5312, EN1074-1 & 3 , EN 12334

Flange Drilling : EN1092-2

Face To Face : ISO5752 & EN558 Series10

Sizes : DN50 to DN300

Pressure Ratings : PN 10 & PN 16

Standard Materials : Body Cover and Disc core made of Ductile Iron EN1563, Disc Vulcanized EPDM, Bolts Stainless Steel A4 , Stem & Pin Stainless Steel 316, Hinge Stainless Steel 316 upto DN300 & Larger sizes with Ductile Iron EN1563 Epoxy coated. Bushing Copper Alloy.

Protective Coating : Fusion Bonded Epoxy (FBE) coating, Non Toxic NSF approved, applied to minimum 300 micron thickness

Standard offer is Free Shaft end. Lever and weight recommended based on type of applications.

Applications : Potable & Treated Sewage Water

For installations within significant risk of water hammer

Special Versions

- Metal seated Design (Series22)
- 300 Microns FBE Coating
- NSF approved materials for potable water
- NBR Wedge for Treated Sewage, TSE applications
- Manual Priming Device
- Drain Plug
- ANSI#150 Drilling

Optional Accessories

- Lever and weight
- Spring Assisted Type
- Pneumatic Cylinder Type
- Protection Cover and Limit Switches

Product Features

Full Bore Design : When the valve is fully open the disc does not offer any kind of obstruction to the flow. This means very low head loss while fully open.

Maintenance free : The disc is fully vulcanized with rubber and as such offers high anti-corrosion features along with tight shutoff and minimum noise.

Easy Inspection : The valve can be opened and maintained without removing from the isolated line. The light weight cover can be easily removed for inspection

Lever and weight option : Lever and weight can be mounted on both sides of the valve. The weight can be adjusted on the lever by which an optimum closing speed or an accurate closing against the seat can be achieved

- **Corrosion Life test certified by UL**
- **Life cycle test & Endurance test certified by UL & BVQI at FCRI**

Kennedy EN Series 11 Double Chamber Triple Function Kinetic Air Release Valve.



Technical Specifications SERIES 11

Type : 11 Double Chamber Kinetic Air Release Valve.

Design & Test standard : IS-14845, EN1074-1 & 4

Flange Drilling : EN109-2

Sizes : DN50 to DN200

Pressure Ratings : PN10, PN16

(Model 111) Standard Materials : Body, Bonnet and Cowl made of Ductile Iron EN1563, Float SS, Float Guides, Float Lever & Seal Support Rings are SS 316, Seals EPDM, Bolts Stainless Steel A4.

(Model 112) Standard Materials : Body, Bonnet and Cowl made of Ductile Iron EN1563, Float, Float guides and Float Lever, Seal Support Rings are ABS, Seals EPDM, Bolts Stainless Steel A4

Protective Coating : Fusion Bonded Epoxy (FBE) coating, Non Toxic NSF approved, applied to minimum 300 micron thickness

Applications : Potable & Treated Sewage Water.

Not suitable for sewage

Not suitable for surge applications.

Special Features

- 300 Microns FBE Coating
- NSF approved materials for potable water
- ANSI#150 Drilling

Optional Accessories

- SS316 Top Mesh
- Isolation Gate Valves
- Isolation Butterfly Valves
- SS316 Drain Plug

Product Features

Double Acting Double orifice Design : The valve is designed to incorporate Kinetic Air Release movement with Large Orifice and Automatic Air Release movement with Small Orifice. The kinetic-air design keeps of the large float completely stable under air discharge and preventing premature closing and slamming. When there is a rise in the water level, then only the float rises and closes the valve.

Triple Function : Air valves designed to (a) discharge air during filling of pipelines, (b) admit air during emptying of pipelines, (c) discharge air accumulated at high points in pipelines during normal operation

Easy Inspection : The valve can be opened and maintained without removing from the line. The light weight cover can be easily removed for inspection

Suitable for Cluster Valve Design : For large size pipes (above DN1200) the discharge capacity required may be more than the capacity of the largest size of the air valves available. For such cases cluster valve designs are available

- **Corrosion Life test certified by UL**
- **Life cycle test & Endurance test certified by UL & BVQI at FCRI**

Kennedy EN Series 61 Double Offset Butterfly Valves



Technical Specifications SERIES 61

Type : Double Offset Eccentric Butterfly Valves
Design & Test standard : IS-13095, EN593, EN1074-1 & 2 / EN12266,
Flange Drilling : EN109-2
Face To Face : ISO5752 & EN558 Series 13 and 14
Sizes : DN200 to DN1200
Pressure Ratings : PN10 & PN16

Standard Materials : Body and Disc made of Ductile Iron EN1563, Shaft Stainless Steel SS316 & 431, Seat Ring EPDM, Seat Retainer Ring SS316, and Bolts Stainless Steel A2 & A4

Protective Coating : Fusion Bonded Epoxy (FBE) coating, Non Toxic NSF approved, applied to minimum 300 micron thickness

Bi-Directional Double offset design with tight shutoff and clockwise closing

Applications : Potable & Treated Water

Special Versions

- 300 Microns FBE Coating
- NSF approved materials for potable water
- ANSI#150 Drilling
- Duplex Shaft and Retaining Ring
- External Shaft Locking Mechanism

Optional Accessories

- Gear Boxes
- Extension Spindles
- Electrical Actuators

Product Features

Double offset sealing technology: the soft sealing high quality EPDM element on the disc is profiled for high sealing performance, reliability and long life time. The seat retaining ring is made in Stainless steel suitable for various operating conditions.

Superior Disk profile: The disc is designed in such away that to provide an one-rubbing effect while closing and this results in a smooth closing.

Bidirectional Service: The disc is designed to withstand the maximum pressure differential across the valve in either direction of flow.

Compact Design: The valve is optimized to the design standards to achieve minimum weight with maximum performance.

- **Corossion Life test certified by UL**
- **Life cycle test & Endurance test certified by UL & BVQI at FCRI**



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