

Product Showcase

For

Robust and Sustainable Water Supply Network



MAEZAWA Industries, Inc.

International Business Development

January 5th, 2026

Maezawa Industries, Inc.

MAEZAWA has been engaged in the design, manufacturing and sales of valve and equipment for waterworks, sewerage, water resource, irrigation ranging from the installation and maintenance of infrastructure to the industrial effluent purification for 88 years since its foundation. MAEZAWA valves and sluice gates are made by the consistently integrated production system from designing , manufacturing to the assembly, coating and testing in the manufacturing facility located in Satte City. We have been leading the waterworks market with unique products. We will continue to take on challenges to solve water and environmental problems , which is the common theme for us living in 21st century, to improve our life and to meet expectations of the people.

Company Perspective



Head Office	Saitama, JAPAN
Established	July 15,1937
Incorporated	September 26,1947
President	Kazumasa Miyagawa
Paid-in Capital	USD 35.2 M (as of May 31,25)
Revenue	USD 180 M (as of May 31,2025) (fiscal year begins on June 1st)
Employees	745 (as of May 31,2025)
Business scope	Manufacture, sales and installation of equipment and apparatus for water supply and sewage systems

Business Lines



Head Office



Saitama Plant



Water Analysis Center



Valve Business



Environment Business



Industrial Environment Business



Biomass (gas) Business

Public sector

- Purified Water supply
- Sewage Treatment
- Industrial Water supply

Private sector

- Industrial Wastewater
- Soil and Ground water remediation
- Recycle

■ Valve Business - - - The manufacture and sales of cast-iron valve for water purification plant, sewage treatment plant and piping.

■ Environment Business - - - The planning, manufacture and installation of mechanical equipment for water purification plant, sewage treatment plant and pumping station.

■ Industrial Environment Business - - - The planning and installation of industrial wastewater treatment plant and recycling plant.

Valve Business

- Top Share in Water Supply Market with Creative products
- Expert in Hydraulic Calculation, Creative in Valve Design and Craftsmanship in Quality iron castings
- Consistent QC from casting to testing(certificated by JWWA)
- All valves and gates pass strict leach tests for drinking water application



High frequency electric melting furnace



Machining facility

Manufacturing Facility

Site Area **92,011m² (990,398ft²)**

Building Area **30,945m² (333,089 ft²)**

Workers **370** (280 employees + 90 subcontractors)

As of May 2025



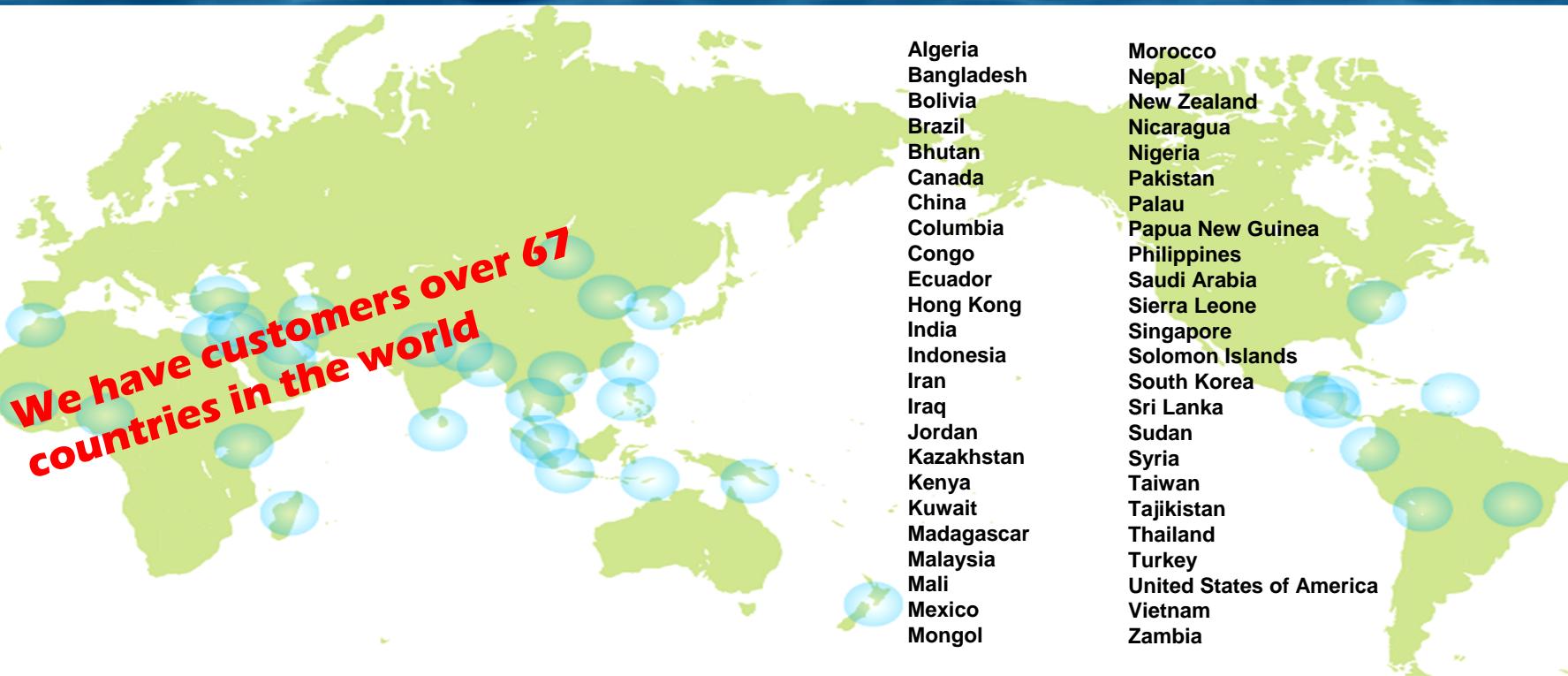
Saitama Plant



Water Analysis Center

ISO9001(July 1996) and ISO14001(April, 2005) certified

Global Sales Coverage



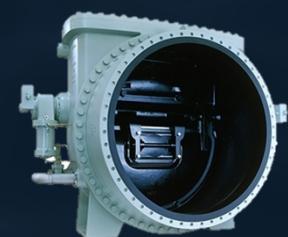
The Role of Valves



The primary role of valve is to stop the water. It is the simplest thing, but it is very important to stop the water when necessary.

As the water networks become complicated, valves are required not only to on and off water flow, but also to regulate water pressure and flow.

Maezawa Industries manufactures and provides variety of valves to stop and controls water based on abundant experience.



Products at a glance

Our Signature Products



For Waterworks

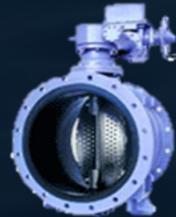
Cavitation Suppression



Doubleway Butterfly Valve



LO-TM



Jetport

Anti-seismic Valves & Gates



E.S.O.V



Quick Closing Gate



Air Valves



Easy Maintenance Valve&Gates



A/F Gate Valve



A/F Butterfly Valve



PTC B22 Gate Valve with PE ends



Resilient seated gate valve

For Sewage



Installation work 1



Installation work 2



Measures for Prevention of Damage

Prevention of Damages

One of the effective measures to increase the redundancy of water supply network is the duplication of pipelines, but even if the duplication has not been established, the protection of primary pipelines are required to keep the water supply system up and running.

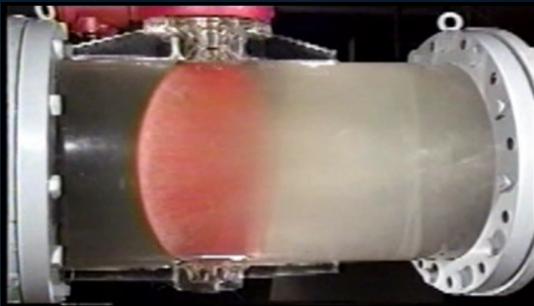
Major cause of pipeline damages are Water Hammer, Cavitation, Erosion, External Physical Impact, and Rusting.

Maezawa Industries has been focusing on the suppression of Cavitation and prevention of Water Hammer with its uniquely designed valves.

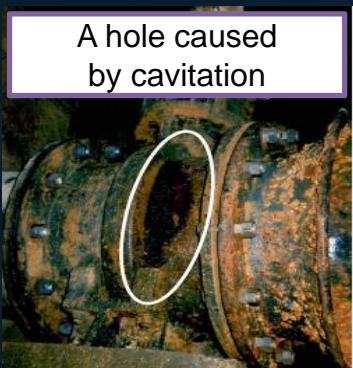
Valves will get damaged by water flow



Cavitation Damage in Waterworks



A hole caused
by cavitation



Damaged in
3.5years



Our Control Valves with Cavitation Suppression Features



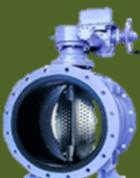
Doubleway Butterfly Valve

- Flow Control in Both Direction
- DN100 – DN1200
- Optimized Flow Rate for Water Filling



LO-TM: Control butterfly valve Disc with toothed vane

- Wide control range of flow
- DN100 – DN2400
- High durable simple structure



Jetport: Control butterfly valve Disc with multi-port vane

- Wide control range of flow
- DN100 – DN1200
- High durable simple structure



Uniport

- Multi-port Control Valve -
- Distributed Jet Flow Control & Rectification
- DN100 – DN600
- Stabilized Flow Control for all stroke
- Light weight and Compact design



Caviless Valve

- Multi-jet Sleeve Valve -
- Low cavitation coefficient for all opening
- DN150 – DN1000
- Wide control range
- Backwash feature

Doubleway BV, LO-TM® and JETPORT®

Doubleway BV and LO-TM®



Control butterfly valve Disc with toothed vane

- Wide control range of flow
- DN100 – DN1200
- High durable simple structure

Rubber lining

Toothed Vane

JETPORT®



Control butterfly valve Disc with multi-port vane

- Wide control range of flow
- DN100 – DN1200
- High durable simple structure

Port & groove

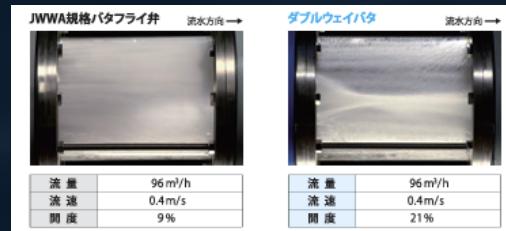


The Doubleway Butterfly Valve ,LO-TM® and Jetport® can suppress the cavitation damage with it's optimized design and control features. The best product for water flow control

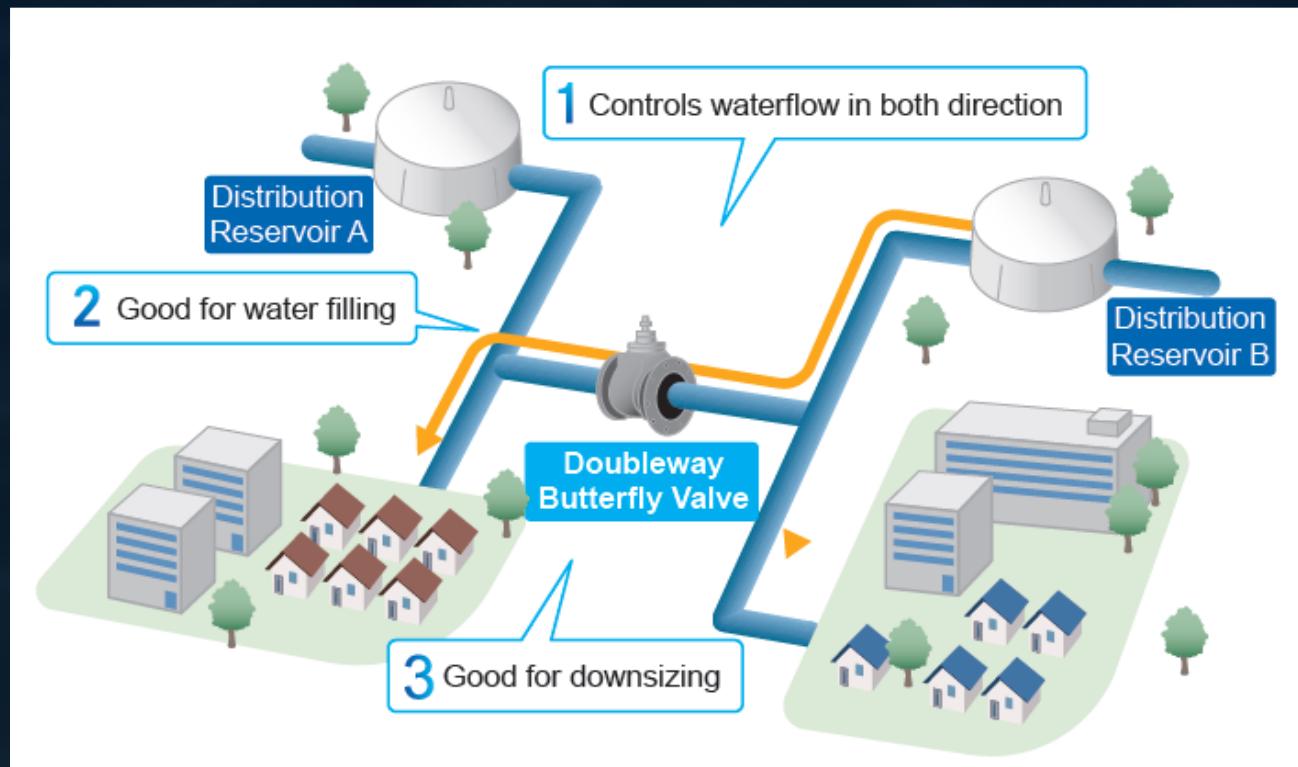


Doubleway Butterfly Valve 1

- Remarkable Flow Control Characteristics in Both Directions
- Linear Flow Characteristics suitable for Initial Filling
- Unique Disc Design for Low Resistance



Doubleway Butterfly Valve 2



Uniport

- Multiport-Control Valve -



- Jet flow control and rectification effect
- Stable controllability without rapid changes in loss coefficient over the entire stroke.
- Excellent cavitation characteristics

Caviless Valve®

- Multi-jet Sleeve Valve -

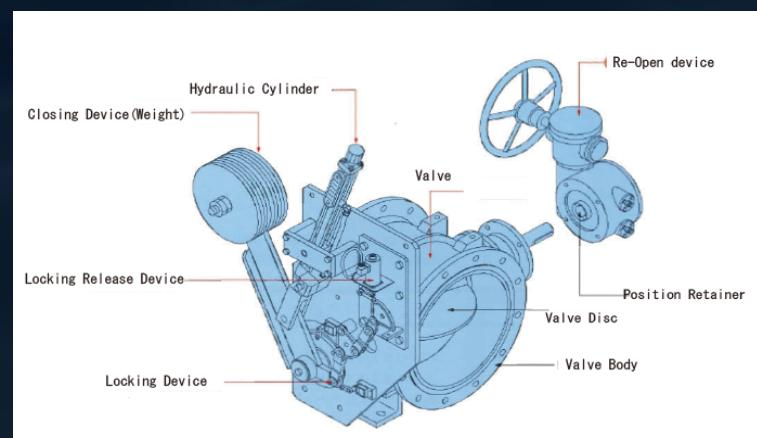


- Wide range of control
- Excellent flow characteristics
- Controllability for multiple butterfly valves

Adjustable Flanged Emergency Shut Off Valve

Adjustable Flanged Automatic **shut-off** feature triggered by earthquake ,electrical signal and water flow. The best solution for aseismic flow control in the water distribution system.

Adjustable Flange will make the removal/installation quick and easy for maintenance



The Role of E.S.O.V (1)

Located in the reservoir where potable water produced in the WPP is stored for use



The Role of E.S.O.V (2)

Outlet pipe from the reservoir
buried underground



The Role of E.S.O.V (3)



Earthquake may cause damages by;

- Strong bounce and roll
- Landslide
- Collapse and fall
- Uplift and swell of land



The Role of E.S.O.V (4)



Air-Valve broken by
water hammer

Water main break & come off



The Role of E.S.O.V (5)

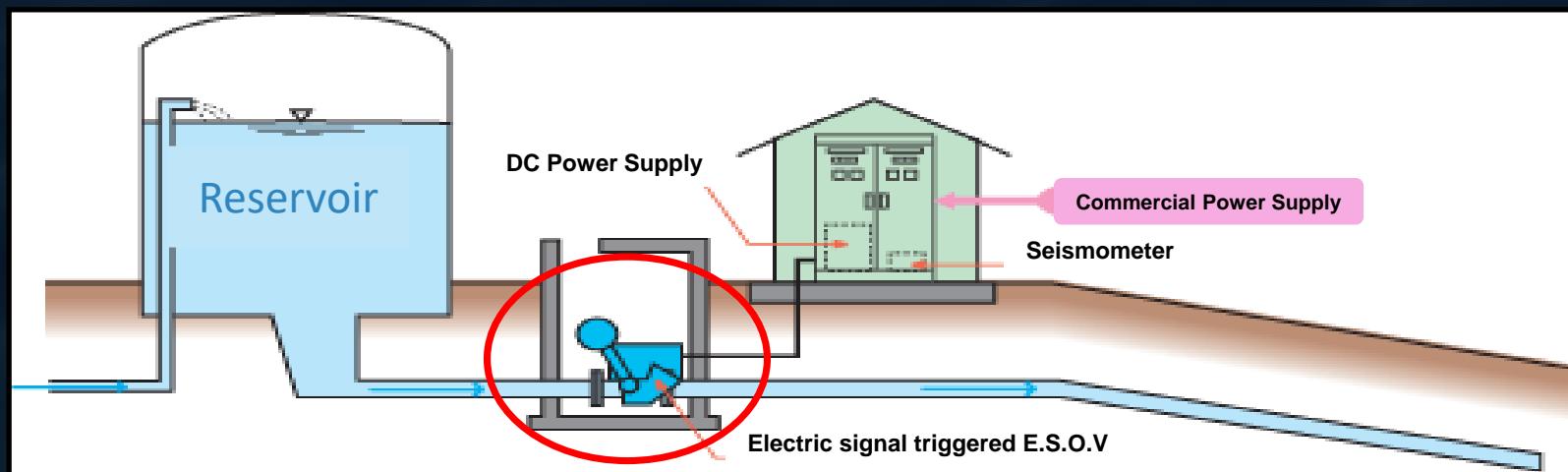


**Water main break
causes road closure by
flooding and leakage of
potable water**



The Role of E.S.O.V (6)

E.S.O.V can be located right after reservoir in order to retain potable water and to prevent lifeline systems from the outbreak of second disaster



Quick Closing Gate

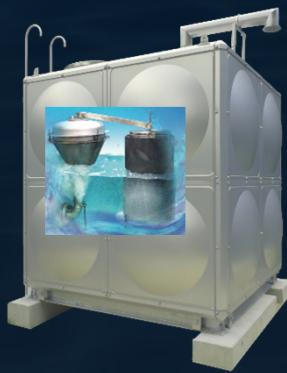
- Automatic quick closing feature will shut off the waterway in case of emergency by its own weight.
- Adjustable shut down speed with excellent speed reduction system and reliable brake
- Reliable self-weight closing with wet multi-plate electro magnetic clutch



FC-Sluice GATE

- Simple structure with low flow resistance
- Maintains watertightness for a long time using the metal seal plate
- The wedge will ensure the tight shut-off to withstand the age-related friction
- The unseating head model has guide plates for smooth operation and enforced by wedges for tight shut-off feature
- The stopper bolts placed under the slide door will prevent from over tightening

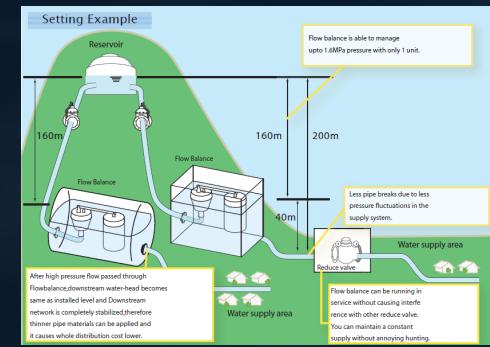




Flow Balance

Flow Balance is a pressure reducing tank unit that makes possible to reduce high pressure up to 1.6MPa in one go

- High performance pressure reduction features up to 1.6MPa in one go
- No occurrence of cavitation or water hammer
- Low noise and vibration operation that can be installed in residential areas
- No power source is required to operate



Quick Air Valve



MSA Quick Air-Valve

- JWWA B 137 compliant
- DN75 – DN150
- for 7.5k and 10k pressure.

MRA-M Quick Air-Valve-Mini

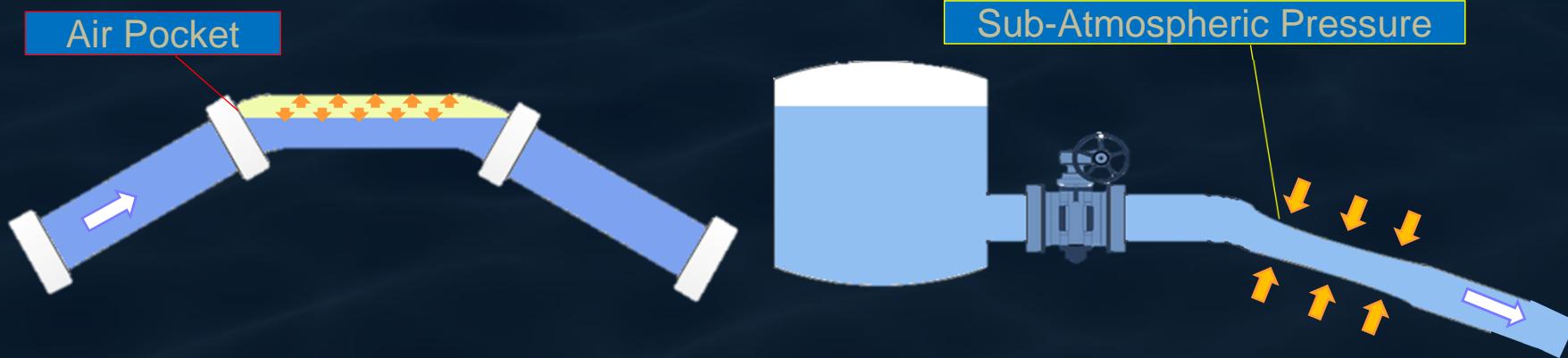


- JWWA B 137 compliant
- DN25
- for 7.5k and 10k pressure.

Smaller footprints. Robust structure for longer life cycle. More types are available for both potable and sewage water

The Function of Air Valve

Air in pipelines may be compressed and push water in both directions. It can accumulate at high spots forming air pockets, creating a major hassle. It can also trigger pressure instability and water-hammer to break pipelines. While sub-atmospheric pressure causes pipe collapse.

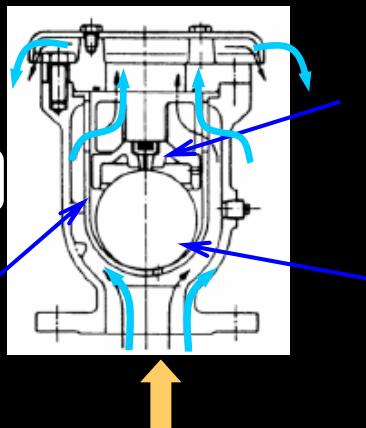


Air valves will release free air in the pipelines and admit air into the system when internal pressure of pipelines drops below atmospheric pressures.

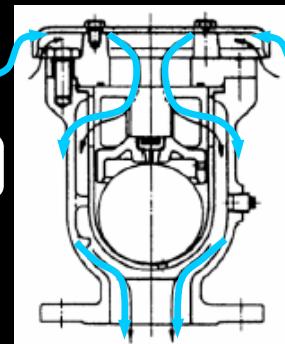
How does Quick Air Valve work



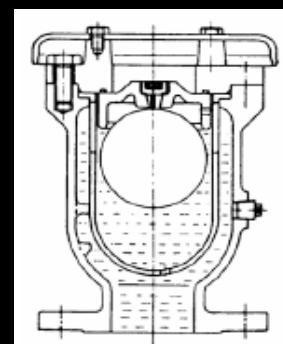
Full-Exhaust



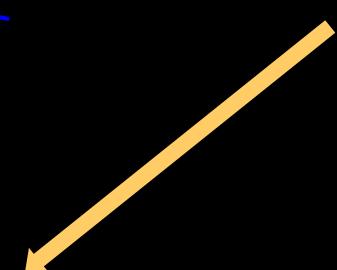
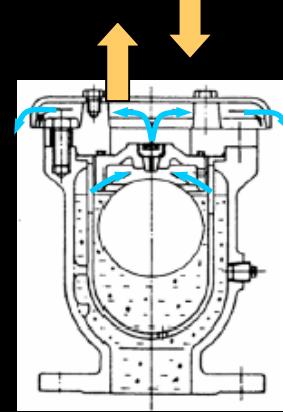
Admitting Air



Full Line



Low-Exhaust

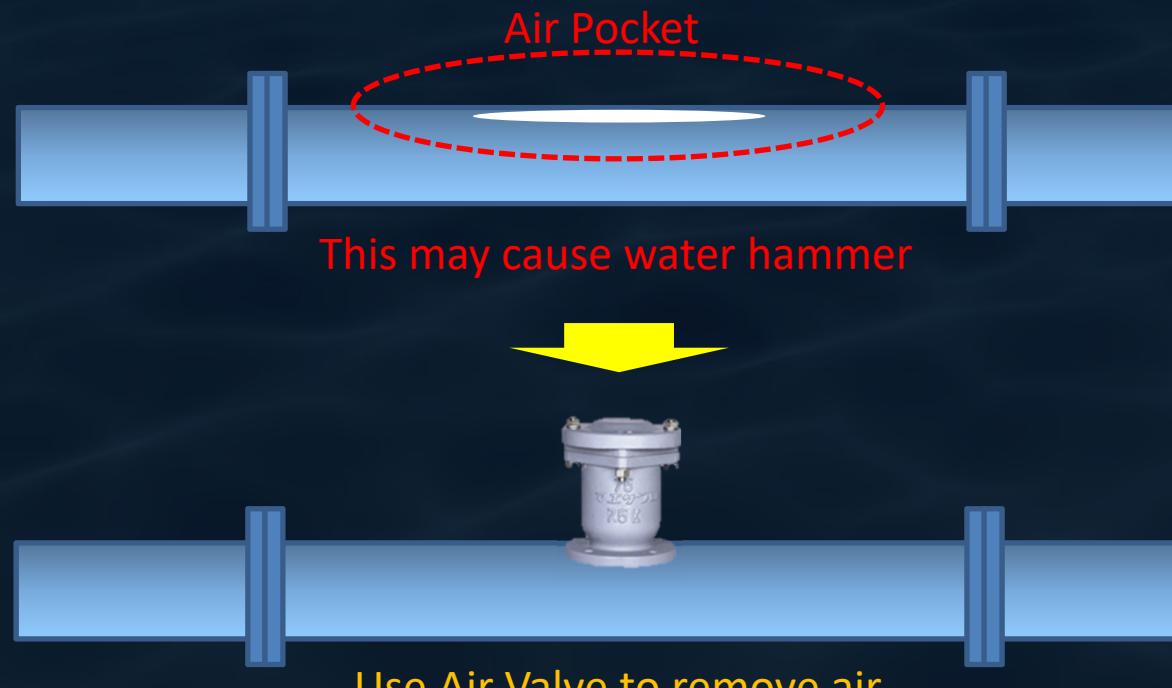


Reminder to prevent damages

- Remove air pocket from the pipeline to prevent water hammer
- Always fully fill the supply pipeline with water
- Do not use the gate valve at intermediate opening position
- Consider to use control valve
- Conduct periodic inspection to maintain the facility at best condition

Reminder to prevent damages

- Remove air pocket from the pipeline to prevent water hammer



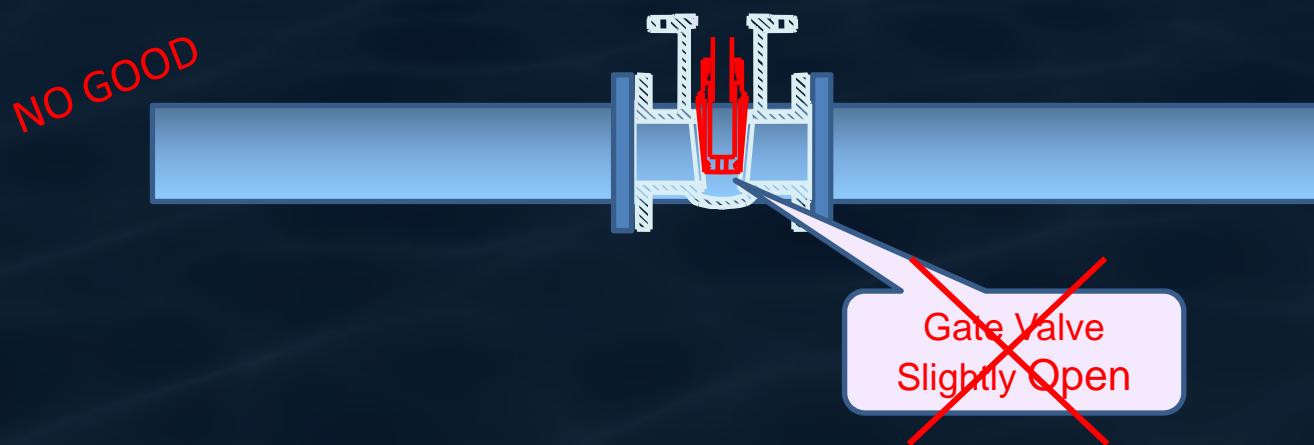
Reminder to prevent damages

- Always fully fill the supply pipeline with water



How to prevent such damages?

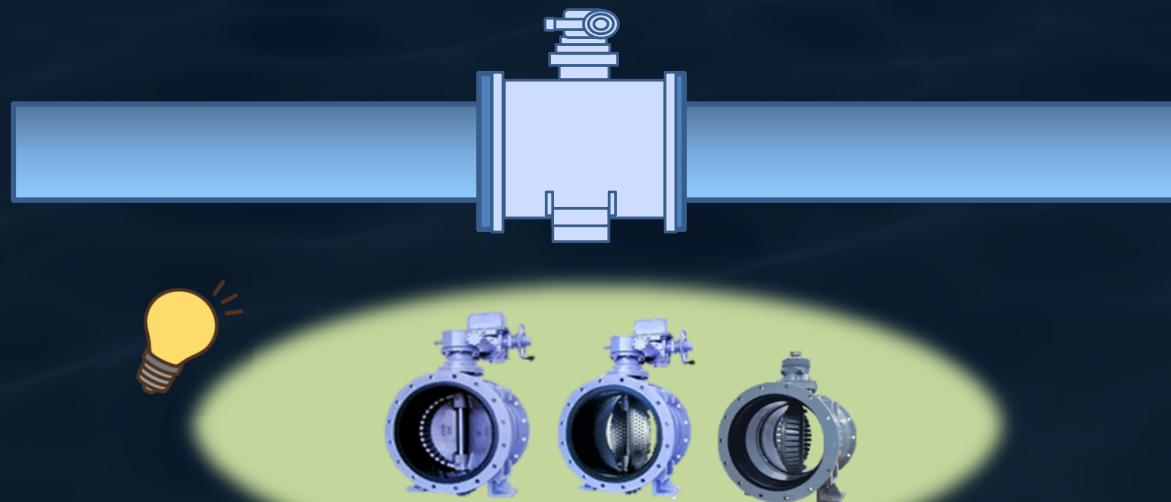
- Do not use the gate valve at intermediate opening position



Gate Valve can not be used as a flow regulation valve.
Keep the gate valve either at full open or full closed position.

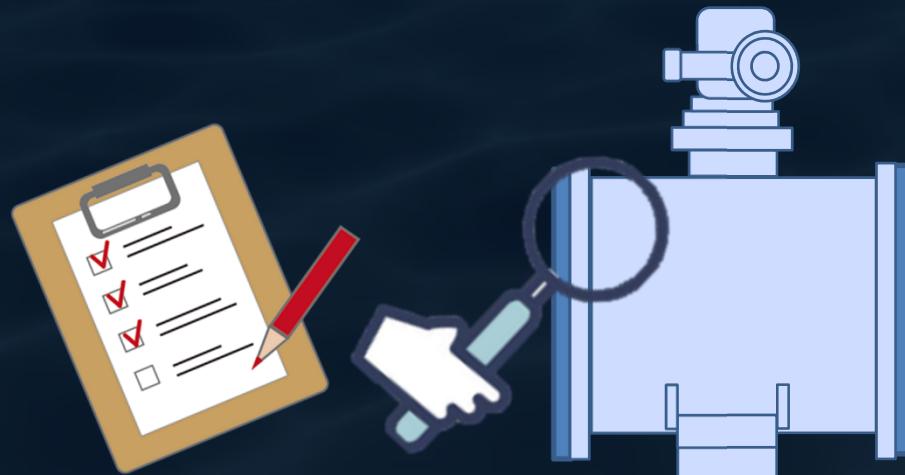
Reminder to prevent damages

- Consider to use control valves



Reminder to prevent damages

- Conduct periodic inspection to maintain the facility at best condition



Measures for Recovery from Damage

Valve Damages



Broken water main and valves



Broken Air-Valve



Soaked and submerged Valves



Damaged valves have to be repaired or replaced immediately in order to resume from water supply outages

Valve Recovery

Many of valves requires to stop water flow
during maintenance and replacement



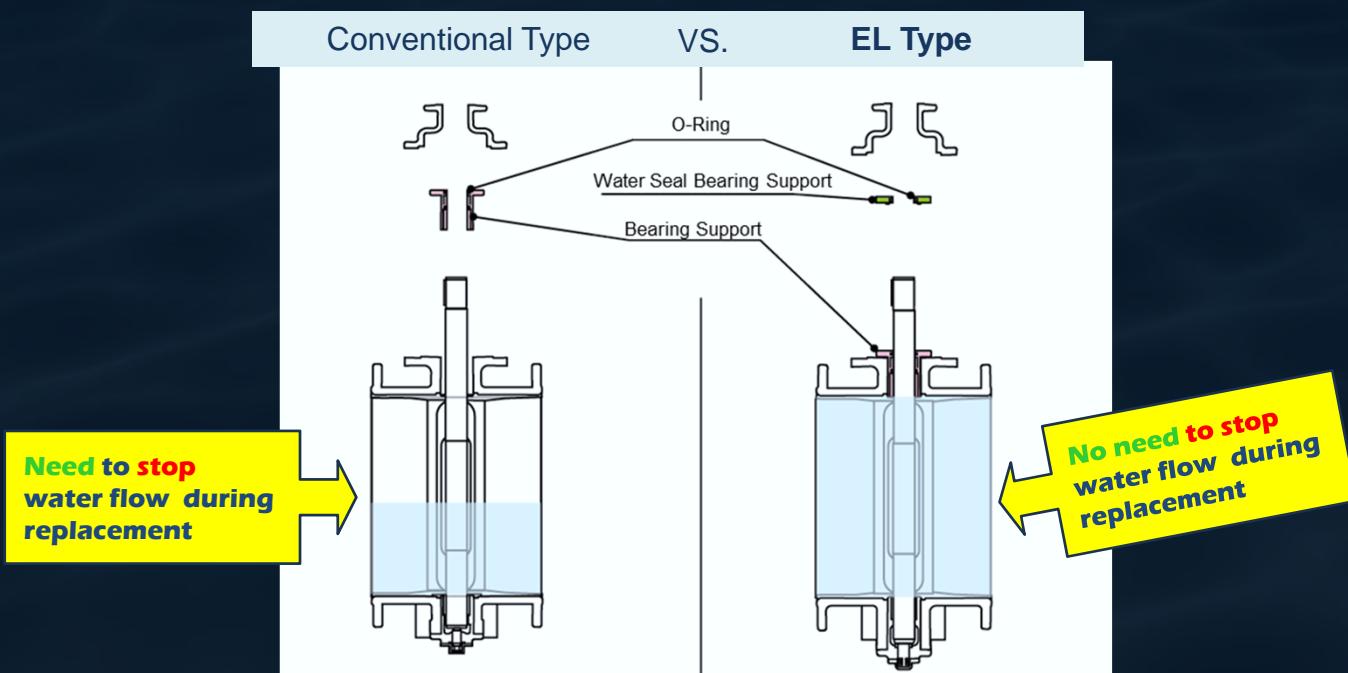
EL Butterfly Valve 1



- The water sealing part can be replaced even after the valve is installed in the pipeline.
- The reducer can be unloaded without stopping the water flow.
- Minimize the number of valve replacement through partial maintenance of parts
- Cost reduction by reducing the number of water outages throughout the facility.

EL Butterfly Valve 2

O-ring replacement of water seal part comparison



EL Butterfly Valve 3



ADJUSTABLE FLANGED VALVES

Maezawa provides adjustable flanged valves for easy installation and removable for cost and construction time efficiency



Adjustable Flanged LO-TM Butterfly Valve



- Adjustable face-to-face dimension between the existing pipelines
- Requires no adjustable joint at replacement and installation
- Enables easy installation and removal
- Cost savings by reducing construction time



Adjustable Flanged Gate Valve



- Adjustable face-to-face dimension between the existing pipelines
- Requires no adjustable joint at replacement and installation
- Enables easy installation and removal
- Easy installation with smaller footprint

Adjustable Flanged Eccentric Valve



- Adjustable face-to-face dimension between the existing pipelines
- Requires no adjustable joint at replacement and installation
Enables easy installation and removal
- The eccentric construction enables the disc to move
out of the flow path.
- Cost savings by reducing construction time





Why Product Lifecycle Matters

Example of Life Cycle Cost

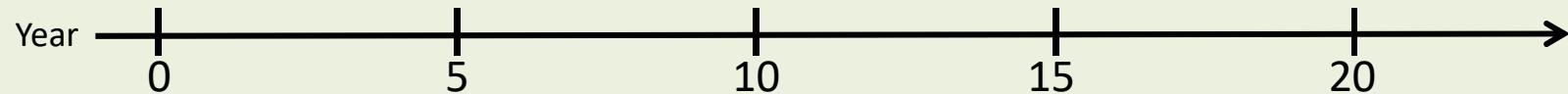
4 replacement in 20 years

Cost : (Valve + installation cost)x 5



1 valve in 20 years

Cost: (Valve + installation cost) x 1 +maintenance fee

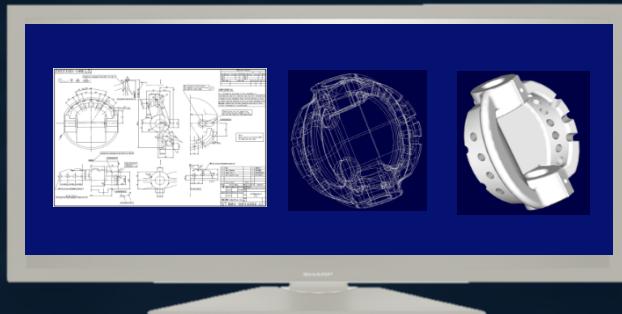


Manufacturing Process



Manufacturing Process (1)

Designing



Sand& Resin Molding



Dismantling



Casting



Manufacturing Process (2)

Machining



Assembly



Painting



Testing



Manufacturing Process (3)



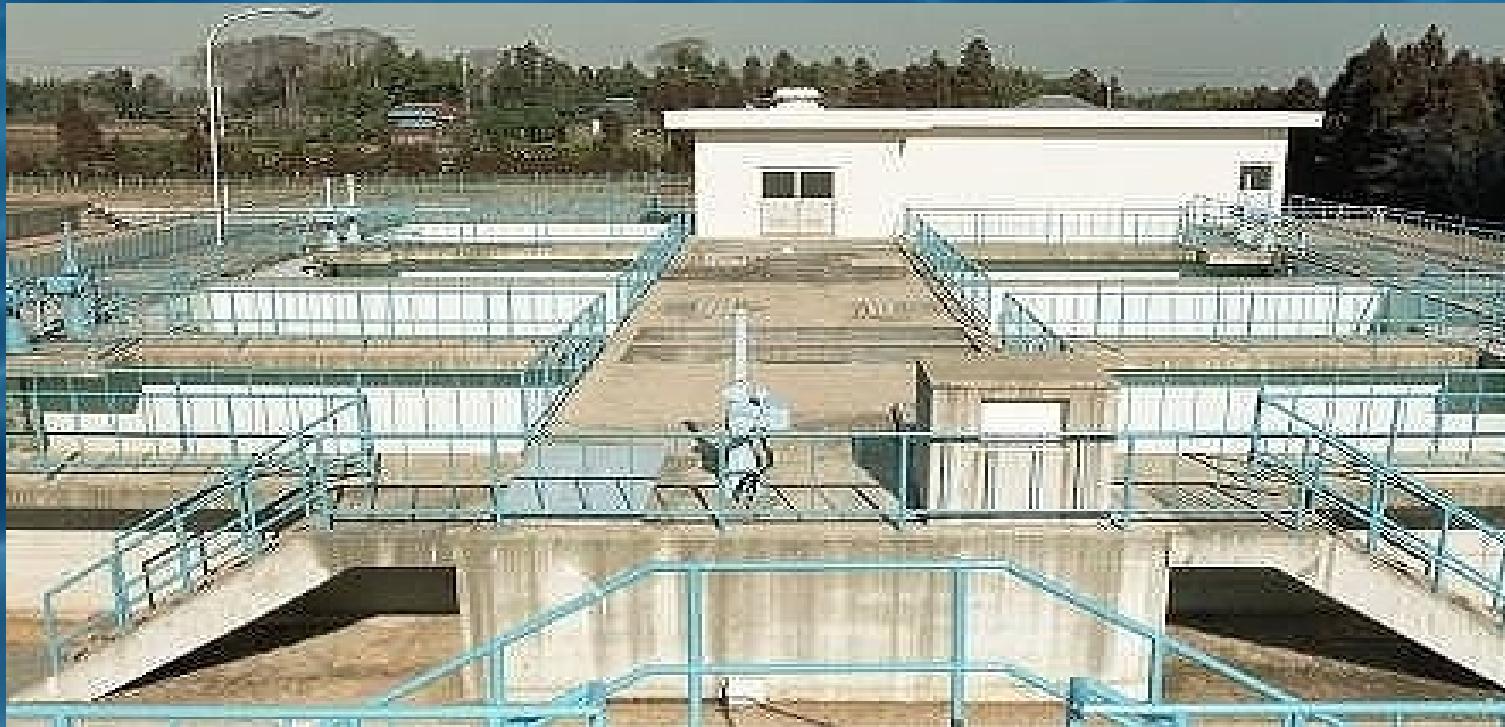
Packing
梱包

Shipping
出荷



Environment Business 1

■ Water purification plant



Environment Business 2

■ Water purification products



Biological activated carbon



Ozone contactor



Membrane system



Compact water purification unit

Environment Business 3

■ Sewage treatment plant



Sewage treatment plant



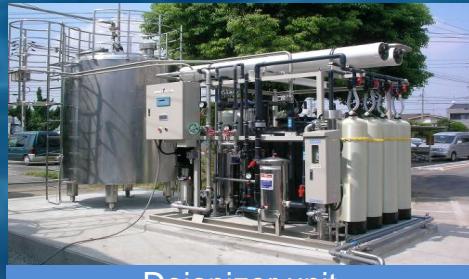
Screening equipment

Private sector Business

■ Industrial Environment Business



Membrane equipment



Deionizer unit



Wastewater treatment plant

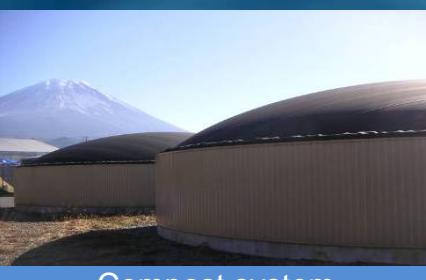


PTFE-MBR system

■ Biomass



Biogas plant



Compost system

For more information, visit our web site

<http://www.maezawa.co.jp/ja/index.html> (日本語)



<http://www.maezawa.co.jp/en/index.html> (English)





Maezawa Industries, Inc.

前澤工業株式会社

