

NAKAKITA Seisakusho

Message from the President

進取発展FRONTIER SPIRIT

I would like to express my sincerest gratitude to our customers, shareholders, business partners, and the regional society, with whom we work every day, and without whom our company could not exist. Since our founding in 1930, we have striven, under the corporate motto of "Frontier Spirit," to provide a one-stop reply to all of our customers' needs, from development, to manufacture, to maintenance, when it comes to fluid control systems, centered on valves.

However, as the world is constantly changing, we have adopted the new theme of "challenge" with regard to taking on new opportunities while also clinging on to the "now." Our goal is to continue to refine our product development that has up until now put our customers' requests into a concrete shape, while taking up new technology development and providing our customers with new value and convenience. We at Nakakita Seisakusho Co., Ltd. will take our spirit of enterprise into new arenas, and we hope that we can rely on your unchanging understanding and support going forward.

Teruhisa Mivata, President



Corporate History

- 193() Commenced production of automatic control valves at Matsugae-cho, Kita-ku, Osaka, under a private enterprise owned by Mr. Benzo Nakakita, the first president of Nakakita Seisakusho Co., Ltd.
- 1937 Moved to Imai-cho, Kita-ku, Osaka, and incorporated.
- 1950 Reopened Tokyo office and opened Kyushu office.
- 1960 Completed first-phase construction of the Daito Plant and transferred the machining shop to this location
- 1961 Completed second-phase construction of the Daito Plant and used the new plant as an assembly shop. 1965 Mr. Hiroshi Nakakita was inaugurated as the new
- president 1968 Obtained High-Pressure Gas Class 2 certification.
- 1970 Completed construction of the Daito Plant and
- consolidated all relevant divisions into the new nlant
- 1971 Increased capital to ¥370,000,000 and listed shares on the Osaka Securities Exchange
- 1972 Completed a new office building at the Daito Plant to integrate company operations and relocated head office operations.
- 1975 Increased capital to ¥1,150.000.000.
- 1976 Expanded the scope of high-pressure gas and Ministerial Certification (Ministry of International Trade and Industry).
- 1979 Obtained American Society of Mechanical Engineers (ASME) Certificates of Authorization to use safety valve V and UV stamps.
- 1988 Expanded the scope of high-pressure gas and Ministerial Certification (Ministry of International Trade and Industry).

- 1994 Obtained certification for the "Quality System" for product design and manufacturing based on International Standards (ISO 9001), (Certifying body: LRQA)
- 1997 Mr. Hiroshi Nakakita was inaugurated as the chairman and Mr. Osamu Nakakita as president.
- 2003 Obtained CE marking certification for Pressure Equipment Directive (PED) products. (Certifying body: LR)
- 2004 Mr. Kenichi was inaugurated Nakakita as president
- 2005 Collaborated with Sasakura Co., Ltd. for the manufacture and sales of cryogenic butterfly valves for LNG ships.
- 2009 Completed the Nuclear Valve Assembly Shop. 2011 Obtained certification from Korea Gas Safety (KGS)
- Corporation for safety valve
- Obtained environmental management system (EcoAction 21) certification for the head office plant 2013 Obtained KCs mark certification for safety valves. (Certifying body:KOSHA)
 - Listed shares on the Tokyo Stock Exchange in conjunction with the merging of the Tokyo Stock Exchange and Osaka Securities Exchange.
 - Obtained environmental management system (EcoAction 21) certification for the Tokyo and Kitakvushu offices.
- 2014 Obtained MED mark Certification from DNV GL for cargo Hold Water Ingress Alarm Systems.
- 2015 Obtained IECEx Certification for intrinsically safe explosion-proof solenoid valves. 2019 Mr. Kenichi Nakakita was inaugurated as the chairman and Mr. Teruhisa Miyata as president.
- 2020 Recognized by Japan New Energy and Industrial Technology Development Organization (NEDO) for participation in the Development of Technologies for Realizing the Hydrogen Society project.

Certifications

Nakakita has acquired number of certifications in line with global requirements.

To meet the needs of customers around the world, Nakakita has obtained various certifications, including ISO 9001- the international standard for Quality Management Systems (QMS)

ISO9001 Certification	1
ISO9001 certification obtained from	
the Errar teerthying body.	1

Ministry of Economy, Trade and Industry-approved Testing Body of High-Pressure Gas Equipment

R

E

Ships Classification-oriented Approval Certification (LR, BV, ABS, DNV/GL, NK, CCS, CR, KR)

Safety Valves V/UV Certification Stamp Obtained ASME approval to use Safety Valve V and UV stamps.

CE Marking Certification Obtained CE marking Certification from LR for Pressure Equipment Directive (PED) products.

Obtained registration Certification C from Korea Gas Safety Corporation (KGS) for manufacturing safety valves.

KCs Mark Certification for Safety Valves Čs Obtained KCs mark Certification from the Korea Occupational Safety and Health Agency (KOSHA) for safety valves

Quality Policy

Nakakita Quality Policy (SQCD)

Nakakita is dedicated to supply products that meet the requirements of our customers. In other words, our quality policy (SQCD) is to satisfy customers by supplying products as ordered in a safe environment (Safety), at a reasonable cost (Cost), free of defects (Quality), and on time (Delivery).



Quality Control Activities

In accordance with our quality policy, Nakakita has formed QC Circles to conduct quality control activities with the goal of improving quality in each department. We are committed to improve the quality according to our official basic policy of "Incorporating Quality into Each Process." from Manufacturing to Accounting.

Each QC Circle presents its efforts to improve quality at Nakakita's Annual Quality Control Meeting, Many employees have also passed a guality control test sponsored by the Japanese Standards Association. We are proud of those who have passed this test, and we encourage others to obtain certification.



Factory Layout

2F: Sales Division

Fitness Club

Main Building	15. Automated Storage		
Hydraulics Warehouse	16. Information Systems Bl		
Hydraulics Assembly Shop	17. Automated Storage		
Hydraulics Inspection Shop	18. Nuclear Valve Assembly S		
Large Valve Assembly/ Inspection Shop	19. General Offices Bldg. 1F: Production Dept. Procurement Dept. General Affairs Dept. 2F: Engineering Dep.		
Hydraulics Equipment Warehouse			
Hydraulics Painting Shop	20. Butterfly Valve Assembly		
Safety Valve Assembly Shop	21. Butterfly Valve Inspection		
Safety Valve Inspection Shop	22. General Valve Assembly S		
). Cryogenic Valve LNG Butterfly Valve Assembly Shop	23. Electric Motor Valve Inspection Shop		
Cleaning Shop	24. Shot/Grinder Shop		
. Main Plant	25. Testing Shop		
Control Valve Shop	26. Machine Shop No. 2		
Cylinder Valve Shop Self-Regulating Valve Shop	27. Casting/Parts Warehous		
Quality Assurance Dept. Paint Shop 2F: Instrumentation Shop Level Switch Shop	28. Shipping Section Warehouse		
	29. Parking		
Multi-Story Parking Garage	30. Butterfly Valve Paint Sh		
LEast Plant	31. Parts Warehouse		
Materials Warehouse	00 Objector Ocation		

32. Shipping Section Packaging/Shipping Shore





Control Consol Viscosity Transmitters Pressure Transmitters Controllers (capillary type)

(vibration type)

Viscosity Transmitters Rotary Control Valves Rotary Control Valves (electric type)

Diaphragm-type (pneumatic type) Control Valves

Astern Guardian

Valves

Cryogenic Control Valves

Pilot Check LNG Butterfly Valves for ESDS

Valves

Accumulator Stands

ESDS Control Panels



Fluid Control Valves for Onshore Use

Nakakita's valves and remote control devices are used in various industrial fields. We take pride in the high quality of our products, highlighted by our strong track record. Each product is specially designed, so we can provide a wide range of services to ensure customer satisfaction, including design, manufacturing, and aftersales services that fulfill any type of needs.

Control Valves

Control Valves which receive signals from Controllers, and actuate using auxiliary power (pneumatic, hydraulic, electric, etc.).









Rotary Plug Type Control Valves Automatic Control Valves 3-way Control Valves

Fuel Control Valves

Regulating Valves

Regulating Valves which control parts receive the fluids pressure, and actuate.



Butterfly Valves

Butterfly Valves open and close through the rotation of a Valve Disk.



Cylinder Valves / Gate Valves

Cylinder Valves/Gate Valves which receive ON-OFF signals, and operate using auxiliary power (pneumatic, hydraulic, electric, etc.).







Safety Valves / Relief Valves

Safety Valves/Relief Valves automatically activate when the

pressure in a pressurized vessel or piping reaches the preset

Safety Valves (open bonnet type)

Relief Valves (closed bonnet type)



Nakakita Manufacturing

~ Creating Fluid Control Equipment to Support Global Infrastructure~



Customer-oriented Manufacturing



For roughly 90 years since the company's founding, Nakakita has been deeply intertwined with various industries, including the shipping industry. Our Sales staff apply this established network to fulfill customers' requirements. Paying careful attention to details by our Sales personnel, is another aspect of Nakakita's greatest strengths.



Custom-made Manufacturing that meets the customers' needs



Each of Nakakita's products is unique. Engineers design each product based on specifications provided by the Sales staff. This is the cornerstone of all of our manufacturing efforts.



Machining

Advanced Manufacturing for high variety and small quantity production



Fluid control equipments include valves, indicators, and control panels, while with each equipment type requiring diverse manufacturing processes. Nakakita utilizes stateof-the-art processing equipment to meet complex high variety and small quantity manufacturing needs, and we actively challenge our employees in acquiring various skills through testing to further develop our human resources.



Assembly

Manufacturing with an eve on ultimate efficiency



Assembling a wide variety of small-lot products-each of different shapescan be extremely difficult. As such. we are constantly looking for ways to improve assembly efficiency. As a result, the outcome of above eventually appears in form of our finished products.



Inspection

Manufacturing that enhances the Nakakita brand



At Nakakita, our motto is "Incorporating Quality into Each Process." therefore the inspection process by itself, is the final step to ensure superb manufacturing quality. Our Inspections involve state-of-theart equipment and facilities developed in-house for their exclusive use with our products.



100%

After-sales Services

Manufacturing the Nakakita Way



At Nakakita, "Manufacturing" doesn't end with finished product's shipment. We are also dedicated to providing After-sales Services for the shipped products until the end of their service life. We also value feedback from customers as a means of ensuring the continued advancements of manufacturing at Nakakita.

Major Equipment

Manufacturing equipment

machines

machines and belt sanders

 NC lathes ·Vertical machining centers High-precision 5-axis Slotters vertical machining centers Horizontal machining
centers NC boring machines NC drilling machines NC milling machines Semi-NC lathes Regular lathes Carbide tool grinding machines Face lathes ·Valve seat wrapping Turret lathes Tabletop lathes Tabletop grinding Radial drilling machines •Upright drilling machines Automatic sewing machines ·Horizontal boring machines Face milling machines ·Horizontal milling machines ·Universal milling machines

Turning lathes

 Surface grinding machines Cylindrical grinding machines Broaching machines ·Vertical milling machines Threading machines Corner cutting machines ·Keyway processing machines Valve seat tightening machines (Developed by Nakakita)



machines plating machines

welding machines

Spot welding machines

Heat treatment / welding machines



·Powder plasma automatic cladding Air plasma cutting machines Robotic automatic valve disc SUS Automatic TIG welding machines Shot blasting machines

Powder plasma automatic cladding machine

•Single-tube through-flow boilers (16.2 MPa, 600°C) ·Boilers (4.9 MPa Sat. 1 t/h) •Steam headers (4.9 MPa, 0.5 to 2m³) Steam headers (16.2 MPa, 0.28 m³) N2 gas, He gas compressors (49.03 MPa) ·Air compressors (29.41 MPa) Air compressors (4.9 MPa) ·Air blowers (0.08 MPa) ·Air reciprocators (4.9 to 0.7 MPa) ·Helium leak detectors LN2/CE Liquid nitrogen storage tanks
(2.9 t)

·Ultra-low constant temperature test controls, stirring, and recording devices) ·Liquid nitrogen test chambers

•3D measuring machines(measurement) range: 905 × 1005 × 805 mm •Electric Cy machines (large) Solenoid valve testing machines

 Oscilloscones Surface roughness measuring machines (surf test)

·Universal testing/hardness testing machines •Water pressure testing pumps (100 MPa or less Water pressure testing pumps (200 MPa,

manual Mobile water purification machines Mobile cartridge-type water purification machines

 Hydraulic inspection pump units Variable piston pumps

Inspection equipment

 Hydraulic solenoid valve testing machine Pump units Hydro testers · Trip pilot valve actuator hydraulic testing machines ·Servo valve testing machines Hydraulic testing machines Instrument testing panels and machines Ultrasonic thickness gauges (12 to 300 mm, for steel





3D measuring maching

chambers (equipped with



Latest Nakakita Developments

The following is a brief introduction to the new technologies and products being developed at Nakakita.

As of 2021

NEDO Development of Technologies for Realizing a Hydrogen Society Project

Technical Development of Large-Diameter Butterfly Valves for Liquified Hydrogen

The upcoming transition into a Hydrogen Society, has increased demands for Hydrogen, prompting Nakakita to develop the technology for liquefied Hydrogen large butterfly valves, alongside the construction of a supply chain for its storage and transportation. In 2020, Japan New Energy and Industrial Technology Development Organization (NEDO), a national research and development corporation, rigorously reviewed the ongoing projects and selected certain ones including grants for subsidizing Nakakita's liquified Hydrogen large butterfly valves.



Development highlights



Recognized by Japan Ministry of Economy, Trade and Industry (METI) as a company taking on the Zero-Emissions Challenge

Nakakita has been recognized as a company taking on the Zero-Emissions Challenge for its undertaking of national projects related to the 39 themes set forth in the Environment Innovation Strategy.



Company Overview and Offices



Company Overview

Trade name	NAKAKITA SEISAKUSHO CO., LTD.	
Established	May 28, 1930	5
Representative	Teruhisa Miyata, President	N N N
Business description	Manufacturing and sales of automatic control valves, butterfly valves, and remote control systems	i la
Number of employees	700 (including on-site subcontractors)	ALC: NO



Sales and Service Offices

[Head Office and Plant]	1-1 Fukonominamicho, Daito, Osaka 574-8691, Japan Te1: +81-72-871-1331 (main) +81-72-871-7871 (sales) +81-72-871-1341 (sales) Fax: +81-72-870-1865 (main)		Osaka Head Office	
[Tokyo Office]	2F, Sanwa Building, 1-27-17 Hamamatsucho, Minato-ku, Tokyo 105-0013, Japan Te1: +81-3-3431-7201 (main) Fax: +81-3-3431-5594	Kitakyushu		Tokyo
[Kitakyushu Office]	No.416, Kokura Kosan KMM Annex, 2-11-15 Asano,Kokurakita-ku, Kitakyushu, Fukuoka 802-0001, Japan Tel: +81-93-531-5481 (main) Fax: +81-93-521-4993			

Overseas Agencies

[Netherlands/Europe]	Ravebo B.V.
[Singapore/Malaysia]	Yokosin Marine Co.,(PTE) Ltd.
[China]	Health Lead Development Ltd



Other

Nakakita has agencies around the world with service staffs. Contact a sales representative for more information.