The network of sales representatives around the world was established in 1933 and began designing steam traps for industrial use. In 1949, after extensive experiments and tests, MIYAWAKI developed an entirely double-ported valve operating by the pressure differential. In the following years, the design was further refined and sales soared to the point where, by 1953, MIYAWAKI Steam Traps were responsible for the energy-saving and environmental protection of the steam and condensate systems.

MIYAWAKI’s Sales Network

Welcome to Cooperation!

Products

Steam Traps
Pressure Reducing Valves
Air Traps and Air Vents
Ancillary Equipment

Services

Diagnostic, Inspection, Check
Assistance in steam trap selection
Technical support and maintenance
Training and technical seminars

Japanese efficiency and reliability!

www.miyawaki.net

Certifications

ISO 9001
ISO 10001
ISO 14001
ISO 45001

Key Focus Areas

Engineered manufacturing and distribution of steam traps, pressure reducing valves, air traps, air vents, and ancillary equipment for steam and condensate systems.

MIYAWAKI’s Mission

MIYAWAKI – one of the leading Japanese manufacturers of equipment for steam and condensate lines

MIYAWAKI’s Mission

"MIYAWAKI’s mission is to promote the ideas of energy saving and environmental protection, to fulfill the demand of energy saving and environmental protection, to fulfill the demands of each country and region. Miwakawa’s mission is to promote the ideas of energy saving and environmental protection, to fulfill the demands of each country and region. MIYAWAKI’s mission is to promote the ideas of energy saving and environmental protection, to fulfill the demands of each country and region. MIYAWAKI’s mission is to promote the ideas of energy saving and environmental protection, to fulfill the demands of each country and region. MIYAWAKI’s mission is to promote the ideas of energy saving and environmental protection, to fulfill the demands of each country and region."
The history of MIYAWAKI is a story of success

MIYAWAKI opened its doors in 1933 and began designing and producing steam traps. In 1935, MIYAWAKI decided to develop a new type of steam traps, with a ‘Duplex’ type valve, a double-ported valve operating by the pressure difference. In the following years, the design was further refined and tested across the world. MIYAWAKI then focused on reducing its environmental impact and developed steam pressure reducing valves, air traps, air vents and ancillary equipment. MIYAWAKI’s mission is to promote Japanese efficiency and reliability!

In 1985, MIYAWAKI Inc., the subsidiary company MIYAWAKI GmbH, was incorporated. MIYAWAKI expanded its operations to other countries as well, including Russia and China. The network of sales representatives around the world was able to incorporate these changes. Alongside this, MIYAWAKI’s Certification and technical know-how was established in 1999. MIYAWAKI’s equipment increases the efficiency of the steam and condensate handling processes.

The history of MIYAWAKI is a story of success.
The network of sales representatives around the world was To emphasize the growing international activities of Trap Manufacturing Co., Ltd. was able to incorporate. Along venture in Russia and an office in China had been opened. was established in Germany in June 1991. Later a joint with the development and sales of products other than steam was increased considerably. In the following years, the design was further refined and experiments and tests, MIYAWAKI developed an entirely double-ported valve operating by the pressure differential steam traps for industrial use. In 1949, after extensive modernization of steam tracing and steam main lines.

Our principles of work:

- Product evaluation and conclusion concerning modernization of steam tracing and clean steam traps.
- In accordance with the results of O&G reports about the results of the survey;
- Selection of optimum equipment for each technological position;
- Assistance in installation of MIYAWAKI’s delivered equipment;
- Prompt maintenance and post-acceptance services;
- Training and technical seminars.

In 1933 and began designing MIYAWAKI is operating today on a worldwide scale with cus- also in Asia, Europe and America. MIYAWAKI’s mission is to promote the ideas of energy saving and envi- ronmental protection, to fulfill the de- mand for technical support and necessary for steam and condensate systems. We have every confidence that the high quality of MIYAWAKI products, as well as conditions in price and service, will result in mutually beneficial cooperation. MIYAWAKI’s quality and faithfulness are the basis for the satisfaction of the customer. The history of MIYAWAKI is a story of success. MIYAWAKI Steam Trap Manufacturing Co., Ltd. is a Japanese manufacturer of steam traps and condensate handling equipment. Since its establishment in 1933, MIYAWAKI has been engaged in the development and production of steam traps. MIYAWAKI is one of the leading Japanese manufacturers of equipment for steam and condensate lines. MIYAWAKI offers through its official representatives the following services:

- Training and technical seminars
- Technical support and maintenance
- Assistance in steam trap selection
- Technical support and maintenance
- Training and technical seminars

30 years of experience and technical know-how

Basis for success:
- Advanced manufacturing technology
- Sophisticated engineering solutions
- High-grade materials
- Consistently excellent quality of the products
- MIYAWAKI’s equipment increases the efficiency of the utilization of existing processes not only
- Build-up of reliability and durability of steam tracing and steam systems
- Maintenance and regular maintenance of the internal conditions
- Stabilization and maintenance of the external conditions
- Prevention and elimination of process losses of steam and condensate systems.
- MIYAWAKI products contribute to save energy due to:
- Elimination of steam loss
- Elimination of air losses
- Improvement of the management of steam and condensate handling

Return on Investment:

According to our experiences the pay-off period lasts from 2 months to one year depending on the local circumstances. Our Company has been able to maintain its high standards and provide a high level of technical support for each transaction. MIYAWAKI’s steam trap checking and compilation of detailed technological position

Products

Steam Traps
Pressure Reducing Valves
Air Traps and Air Vents
Ancillary Equipment

Services

Diagnostic, Inspection, Check
Assistance in steam trap selection
Technical support and maintenance
Training and technical seminars

Japanese efficiency and reliability! www.miyawaki.net

Miyawaki’s Sales Network

Welcome to Cooperation!

Local offices and chemical plants all over the world have been equipped with MIYAWAKI’s traps. Some of these have been in operation for more than 30 years. Over the years, MIYAWAKI has expanded its sales and service network to include Asia, Europe and America. MIYAWAKI offers through its official representatives the following services:

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Japanese efficiency and reliability! www.miyawaki.net
**Thermostatic Steam Traps**

Thermostatic Radiator Steam Traps, Series W, ½˝-¾˝

The opening temperature of the available models and types of steam traps: from traditional thermostatic, thermostatic and float (inverted bucket and ball float) steam traps to advanced in technical design, compact, easy adjustment and accurate operation. Body material: brass or stainless steel.

MIYAWAKI produces all models and types of steam traps: from traditional thermostatic, thermostatic and float (inverted bucket and ball float) steam traps to advanced in technical design, compact, easy adjustment and accurate operation. Body material: brass or stainless steel.

MIYAWAKI – in a class of its own.

In matters of energy saving it's in a class of its own.

**Steam Trap Management System**

MIYAWAKI-Technology:

- SCCV®-System

**Main Advantages of MIYAWAKI’s Technology**

- Only MIYAWAKI's steam trap systems are equipped with the internationally patented SCCV®-System. Its high reliability and effectiveness not only for bimetal steam traps, but also for inverted bucket and float type steam traps.

**Unique characteristics**

- Transfer of survey lists between the computer and the processor
- Comprehensive analysis software for both tools
- Computer-based advanced steam trap management system
- Results of 1,000 steam trap checks can be stored in the processor's memory
- Transfer of survey lists between the computer and the processor
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Self Closing and Centering Valve: The Key to MIYAWAKI’s success

The MIYAWAKI self closing and centering valve is a unique technology developed by our engineers. Due to the dynamic reaction of the SCCV®-System, the valve shaft will be moved back to the center of the seat, ensuring MIYAWAKI’s technological lead over competitors.

**Air Traps**


**Ball Float Steam Traps**


Dr. Trap® Jr. PM51

- Transmits survey lists between the processor and the computer
- Comprehensive analysis software for both tools
- Computer-based advanced steam trap management system
- Results of 1,000 steam trap checks can be stored in the processor's memory

Dr. Trap® PM301

- Transmits survey lists between the processor and the computer
- Comprehensive analysis software for both tools
- Computer-based advanced steam trap management system
- Results of 1,000 steam trap checks can be stored in the processor's memory

Steam Trap Management System


Temperature Probe

- Ultrasonic Checker

- SURVEYPRO Light 2.0 SurveyPro 3.1

Survey Pro Light 2.0

- Comprehensive analysis software for both tools
- Computer-based advanced steam trap management system
- Results of 1,000 steam trap checks can be stored in the processor's memory

MIYAWAKI's high quality, wide product range

4

In a single steam trap:

- Reduces consumption of steam
- In case of steam tracing up to 50% of the steam cost
- No steam loss

In a steam system:

- 50% reduction of fuel steam loss section & system
- Easy and quick replacement of internal parts
- Very long service life compliant with other traps

High Efficiency

Reduction of steam consumption

Cost-saving

Reduction of financial losses

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>1/4˝</th>
<th>3/8˝</th>
<th>1˝</th>
<th>DN8</th>
<th>DN10</th>
<th>DN15</th>
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<tbody>
<tr>
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<td>Thermostatic</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
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Temperature Probes

- MIYAWAKI's high quality, wide product range

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Temperature Probes

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High Efficiency

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</table>
**Steam Trap Management System**

**Thermostatic Steam Traps**
- ¼˝-1˝ (DN8-DN25). Discharge hot condensate at 5°C or 15°C
- No steam loss
- Very long service life compared with other traps

**Thermostatic Radiator Steam Traps, Series W, ½˝-¾˝**
- Temperature control
- High flow capacity

**Temperature Control Steam Traps, Series TB, ½˝-1˝ (DN8-DN25)**
- Discharge condensate with constant temperature
- Low pressure drop

**Balanced Pressure Thermostatic Steam Traps, Series D, ½˝-2½˝ (DN15-DN20)**
- Discharge condensate with constant temperature
- No steam loss

**Ball Float Steam Traps**
- Series O, ¼˝-1˝ (DN8-DN25)
- Float valve is preset.

**Thermodynamic Steam Traps**
- Series E, ½˝-2½˝ (DN15-DN20)
- Discharge condensate with constant temperature

**Ball Float Steam Traps**
- Series Q, ½˝-4˝ (DN15-DN100)
- Preventing air locking.

**Ball Float Steam Traps**
- Series G, ½˝-4˝ (DN15-DN100)
- Compact, easy adjustment and accurate operation.

**Air Traps**
- Air-Traps, Series A, ½˝-1˝ (DN15-DN25)
- Air release at the temperature of the steam and air.

**Pressure Reducing Valves**
- Series RE, ½˝-2˝ (DN15-DN50)
- No steam loss

**Air Traps**
- Series RE3, RE10N, ½˝-2˝ (DN15-DN50)
- Air vents, sight glasses, strainers, separators, check valves.

**Ancillary Equipment**
- SurveyPro Light 2.0
- SurveyPro 3.1
- Steam Trap Management System

**Steam Trap Management System**
- MIYAWAKI produces all models and types of steam traps: from traditional thermodynamic and float (inverted bucket) steam traps to modern thermostatic, thermostatic and ball float types.

**Main Advantages of MIYAWAKI’s Technology**
- Reduced maintenance costs compared with other manufacturers.
- Significantly reduced wear of internal parts due to the reduction of the closing forces.

**Self Closing and Centering Valve:**
- The key to the uniqueness of the SCCV®-System is a “Free Floating” valve inside the valve holder – essentially a self-centering valve.

**The Self Closing and Centering Valve SCCV®-System is a unique technology developed by specialists of MIYAWAKI.**

**The Key to MIYAWAKI’s Success**
- MIYAWAKI’s high quality wide product range.
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- MIYAWAKI’s high quality wide product range.

**Thermodynamic Steam Traps**
- MIYAWAKIs high quality wide product range.

**Typical Use:**
- Steam tracing and steam mains in matters of energy saving it’s in a class of its own.
### Steam Trap Management System

<table>
<thead>
<tr>
<th>Model</th>
<th>Series</th>
<th>Description</th>
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<tbody>
<tr>
<td>DC1</td>
<td>Series D</td>
<td>Direct Acting PRV for steam, air, gases and liquids, bodies material: brass or ductile cast iron.</td>
</tr>
<tr>
<td>RE1, RE2, REC1</td>
<td>Series RE</td>
<td>Pilot Operated PRV, material: brass or ductile cast iron.</td>
</tr>
<tr>
<td>RE3, RE10N</td>
<td>Series RE</td>
<td>High efficiency, wide product range.</td>
</tr>
<tr>
<td>GH2</td>
<td>Series G</td>
<td>Ultrasonic Checker, displays the steam loss and related financial loss resulting from faulty steam traps.</td>
</tr>
<tr>
<td>TB1N, TB15</td>
<td>Series TB</td>
<td>The key to the uniqueness of the SCCV®-System is a “Two Phase” valve inside the valve body - either exhaust of steam or compressed air.</td>
</tr>
<tr>
<td>PM15</td>
<td>Dr. Trap®JR. PM15</td>
<td>Dr. Trap®Jr. PM15, in case of steam mains.</td>
</tr>
<tr>
<td>PM301</td>
<td>Dr. Trap® PM301</td>
<td>Dr. Trap® PM301, in case of steam mains.</td>
</tr>
<tr>
<td>PMO: 2,1 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMO: 350°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMO: 6,4 MPa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMO: 350°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TB9N</td>
<td>Series TB</td>
<td>Self Closing and Centering Valve SCCV®-System is a unique technology developed by specialists of MIYAWAKI.</td>
</tr>
<tr>
<td>1/2˝ – 1˝</td>
<td>Series S</td>
<td>Balanced Pressure Thermostatic Steam Traps, bodies material: Ductile cast iron, Cast steel and Stainless steel.</td>
</tr>
<tr>
<td>Models SV1, SU2N and SC31</td>
<td>Series S</td>
<td>Blow-down valves, anti-freezing valves, steam-water mixing valves and air traps, bodies material: Ductile cast iron, Cast steel and Stainless steel.</td>
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</tr>
</tbody>
</table>

### Steam Traps

- **Series TB**: ¼˝-1˝ (DN8-DN25). Discharge condensate with constant temperature (depending on the capsule) below the saturation temperature of a special liquid in a capsule. Very high flow capacity shaft connected with the bimetals, the discharge temperature can be adjusted manually (optional under cooling).
- **Series E**: ½˝-2½˝ (DN15-DN50). Inverted Bucket Steam Traps, the valve holder and the valve will close precisely in the center of the seat. Intensive research and development activities not only for bimetal steam traps, but also for inverted bucket and float-type traps.

### Air Traps

- **Series A**: ½˝-2˝ (DN15-DN50). Air Traps for quick discharge of air and cold condensate from air and gas piping.
- **Series T**: ¼˝-2˝ (DN8-DN50). Balanced Pressure Thermostatic Steam Traps, bodies material: Ductile cast iron, Cast steel and Stainless steel.
- **Series E**: ½˝-2½˝ (DN15-DN50). Balanced Pressure Thermostatic Steam Traps, bodies material: Ductile cast iron, Cast steel and Stainless steel.

### Cost-cutting

- Transfer of survey lists between the computer and the processor is substantially reduced and the total work time is reduced.
- Results of 1,000 steam trap checks can be stored in the processor's memory.
- The key to the uniqueness of the SCCV®-System is a “Two Phase” valve inside the valve body - either exhaust of steam or compressed air.

### MIYAWAKI’s high quality, wide product range

- MIYAWAKI produces all models and types of steam traps: from traditional thermodynamic and thermostatic and float (inverted bucket and ball float) steam traps to advanced in a technical sense temperature control thermostatic and economical sense temperature control thermostatic steam traps. The wide range of steam traps produced helps to ensure MIYAWAKI's technological lead compared to other manufacturers.
- MIYAWAKI’s high quality, compact, easy adjustment and accurate operation. Body material: brass or ductile cast iron.
- MIYAWAKI-Technology: SCCV®-System

### Self Closing and Centering Valve: The Key to MIYAWAKI’s success

- The Self Closing and Centering Valve SCCV®-System is a unique technology developed by specialists of MIYAWAKI. Most of MIYAWAKI’s products are equipped with the internationally patented SCCV®-System. Its high reliability and effectiveness is proven over more than three decades. The constant improvement and integration of the SCCV®-System into new products is a substantial advantage for MIYAWAKI. MIYAWAKI’s technology is unparalleled.
- The Self Closing and Centering Valve SCCV®-System is a unique technology developed by specialists of MIYAWAKI. Most of MIYAWAKI’s products are equipped with the internationally patented SCCV®-System. Its high reliability and effectiveness is proven over more than three decades. The constant improvement and integration of the SCCV®-System into new products is a substantial advantage for MIYAWAKI. MIYAWAKI’s technology is unparalleled.
- Unique characteristics

#### Operating principle

1. The steam, the condensed steam, the air and the carbon dioxide are discharged in the valve body. This reduces the total work time and the total number of steam traps.
2. The operation of the Self Closing and Centering Valve ensures that the valve body is closed off and that the cold condensate being discharged is reduced quickly. This prolongs the life of the valve body. MIYAWAKI’s technology is unparalleled.
3. MIYAWAKI’s technology is unparalleled.
4. MIYAWAWI’s technology is unparalleled.
Steam Trap Management System

Dr. Trap Jr. PM51

- Continuous monitoring of steam traps
- Configurable at the customer’s request
- Ensures the precise closing of the valve in the center of the seat.
- Ensures MIYAWAKI's technological lead over competitors.

Dr. Trap PM301

- Continuous monitoring of steam traps
- Configurable at the customer’s request
- Ensures the precise closing of the valve in the center of the seat.
- Ensures MIYAWAKI's technological lead over competitors.

The Self-Closing and Centering Valve (SCCV®-System) is a unique technology developed by specialists of MIYAWAKI. The main advantage of SCCV®-System technology is that it provides steam trap self-closing functionality. With SCCV®-System, the valve is able to close at the exact position and moment when steam flow stops. This unique design reduces the return time of the steam trap, ensuring no steam loss in case of steam tracing up to 50%. Additionally, the SCCV®-System technology reduces the risk of steam loss in case of steam mains by over 90%. It also ensures no steam loss in case of steam tracing up to 50%.

High Efficiency

<table>
<thead>
<tr>
<th>Model</th>
<th>Series</th>
<th>Description</th>
<th>Operating Principle</th>
</tr>
</thead>
<tbody>
<tr>
<td>ER105</td>
<td>Series E</td>
<td>Thermostatic Steam Traps, ¼˝-2˝ (DN8-DN50)</td>
<td>Immediate discharge of condensate. Equipped with bimetal disc and ball float.</td>
</tr>
<tr>
<td>GC20</td>
<td>Series G</td>
<td>Inverted Bucket Steam Traps, ½˝-4˝ (DN15-DN100)</td>
<td>Immediate condensate discharge. Withstands high pressure.</td>
</tr>
<tr>
<td>DV1</td>
<td>Series D</td>
<td>Balanced Pressure Steam Traps, Series B</td>
<td>Prevents air locking.</td>
</tr>
<tr>
<td>RE10N</td>
<td>Series RE</td>
<td>Pilot Operated PRV, Series RE10, RE10N, ½˝-2˝ (DN15-DN50)</td>
<td>System leakage comparison by using the self-checking capability of the valve and the valve seat.</td>
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In matters of energy saving it’s in a class of its own.

- The Self-Closing and Centering Valve (SCCV®-System) is a unique technology developed by specialists of MIYAWAKI. The main advantage of SCCV®-System technology is that it provides steam trap self-closing functionality. With SCCV®-System, the valve is able to close at the exact position and moment when steam flow stops. This unique design reduces the return time of the steam trap, ensuring no steam loss in case of steam tracing up to 50%. Additionally, the SCCV®-System technology reduces the risk of steam loss in case of steam mains by over 90%. It also ensures no steam loss in case of steam tracing up to 50%.

- SCCV®-System technology ensures the precise closing of the valve in the center of the seat. This unique design reduces the return time of the steam trap, ensuring no steam loss in case of steam tracing up to 50%. Additionally, the SCCV®-System technology reduces the risk of steam loss in case of steam mains by over 90%. It also ensures no steam loss in case of steam tracing up to 50%.

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To emphasize the growing international activities of Trap Manufacturing Co., Ltd. was able to incorporate. Along-venture in Russia and an office in China had been opened. was established in Germany in June 1991. Later a joint
ventures with the development and sales of products other than steam traps, the name changed to MIYAWAKI Inc. in April 1986. MIYAWAKI is operating today on a worldwide scale with customers and representatives situated not only in Japan, but
also in Asia, Europe and America.

In the following years, the design was further refined and experiments and tests, MIYAWAKI developed an entirely double-ported valve operating by the pressure differential.

In 1933, MIYAWAKI – a leading Japanese manufacturer of equipment for steam and condensate lines – opened its sales division in Osaka, Japan. Since then, MIYAWAKI has continued to develop and produce a wide variety of reliable and necessary steam and condensate equipment for industrial use. In 1949, after extensive development work, steam traps for industrial use were introduced, and the company's products contributed to the realization of energy saving and economic steam systems. In 1953, MIYAWAKI Steam Trap Co., Ltd. was established in Chiba, Japan.

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