



# MUSASINO Valve Remote Control System



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Distributor:

MUSASINO CO., LTD.

# Valve Monitoring and Control

Musasino has long supported ship operations and cargo handling through our level gauging and software systems. With our valve control and monitoring systems, we have expanded our assistance to ship crews, adding efficiencies and simplification to cargo and ballast operations.



## 1 Automates Tasks

The valve control system helps to automate work in tanks or other hard-to-access places. It also eliminates the need to have personnel on deck at night or during stormy weather, making operations more efficient and safer.

## 3 In-house Development, Flexible Solutions

Everything from system proposals to design is carried out inhouse, allowing us to tailor systems to all types of valve control systems and ships.

## 2 Time and Labor Efficient

The software automates the opening and closing of valves, and provides a centralized point of information, allowing crews to quickly visualize the overall operational status.

## 4 Retrofit Proposals

Musasino is able to offer retrofit solutions, even for ships currently using manual valve controls, and deliver systems in a short timeframe.

## Operational Assistance Software

Solutions for valve control and operational assistance.

Remote Control MIMIC (Cargo, Ballast, Bilge)	Automatic Temperature Cargo Temperature Control	Cargo Control
Automatic Ballast Control	Automatic Trim / Heel	Cleaning Water Discharge Control

## Valve Control Systems

Musasino offers systems and products that meet the needs of your ship, whether you need hydraulic, electro-hydraulic, pneumatic, or electric actuators, explosion-proof specifications, or submerged installations, for nearly any type of valve or pipe size.

### Electro-Hydraulic



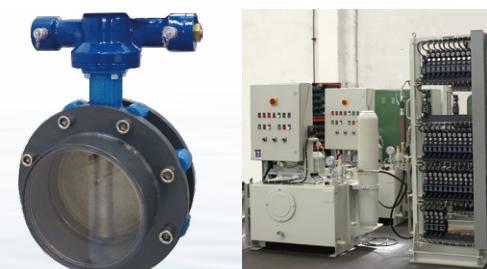
Mini Hydraulic Power Pack (MHPP)



In-tank Actuator

- Minimal hydraulic piping and cabling
- Compact, integrated hydraulic and solenoid valve units
- Can be used with various types of valves, in explosion-proof or submerged areas
- Maintenance-free
- When retrofitting from electric actuators, the existing cables can be used

### Hydraulic



- Applicable to hazardous areas
- Higher operating force than electric or pneumatic types
- Can be used with various types of valves, in explosion-proof or submerged areas

### Electric



- Light, compact, low-cost, and high accuracy control
- Requires only cable connections

### Pneumatic



- Easy adjustment with pressure controls
- Requires only air-piping in hazardous areas
- Japanese-made components for high quality and cost performance