

MAREX VCS

THE PNEUMATIC VALVE CONTROL AND TANK SOUNDING SYSTEM





Marex VCS – A proven technology for seagoing vessels

Aventics products combine 70 years of experience and state-of-the-art technology made in Germany. Customers worldwide value our knowhow in pneumatic and electronic ship control solutions and rely on our expertise and consultancy.

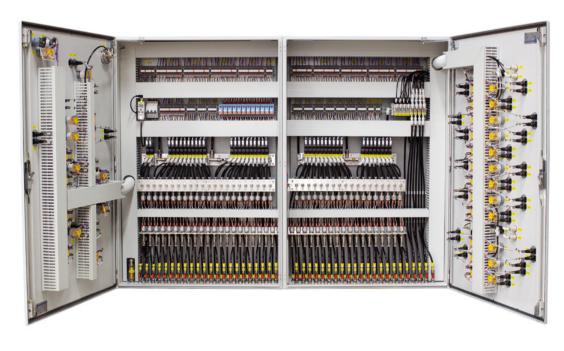
Using pneumatics for the control of ballast tanks and tank level gauging is a proven concept.

In fact Aventics has been equipping ships with pneumatic valve control and tank sounding systems for more than 30 years. Our customers are convinced of the technology for numerous reasons.

Especially in hardworking vessels which undergo a lot of wear and tear pneumatic systems have proven. The rugged techno-

logy of Marex VCS is easy to install and requires low maintenance. It can be used for tanks of all sizes and for a wide range of materials such as

- fresh water / potable water
- seawater / bilge water
- black/grey sewage
- diesel oil, petroleum, gas oil, dirty oil, sludge
- liquid heavy fuel oil



Marex VCS – At a glance

Features:

- System layout by experienced specialists
- High-quality, long-life components
- Submersible components
- Custom-designed control cabinets
- Pneumatic feedback signal, accurate and reliable
- Classification compliant
- Temperature range -40 to +80°C
- For new builts and refits
- Manual emergency operation
- No electrical components installed in tanks

Your benefits:



- Optimized for a long lifetime
- Environmental-friendly medium
- Supports Clean Ship and Green Passport

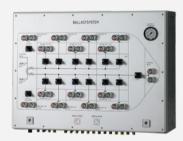
- High system reliability
- Active feedback of the valves' position
- Manual emergency operation
- Classification compliant
- Low working pressure

Pneumatic valve control and tank sounding systems – A smart solution

Based on our expertise, Marex VCS is designed to our customers' wishes and requirements, for new built or refits. The scope is wide and ranges from a simple system to a full package with extensive functionality. It includes visualization, valves, actuators, control cabinets and tubing.

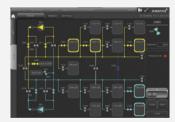
1 Valve Control System – fully pneumatic

Filling and emptying of tanks by means of butterfly valves and actuators which are opened and closed via switches on a custom-designed control cabinet. With active pneumatic feedback signal.



2 Touch-screen operated control and monitoring system:

Valve control, pump operation, tank sounding, alarm indication, monitoring and much more.



3 Tank Sounding System

Based on the bubble-type principle, the pressure is continuously measured and the resulting value is used to calculate the tank's filling level. Fluid level indication on gauges or screens.



Pneumatics at best use – The advantages are clear

Cost-effectiveness

Compared to other technologies, the Valve Control System Marex VCS will cost you less. The purchase costs for pneumatic components are considerably lower. In most areas, plastic piping may be used. Once in operation, the system is handled easily with low maintenance effort. Service can be done by crew members without requiring special training or tools.

Safety

All system components inside or in proximity of the tanks are operated by compressed air. There is no risk of pollution or short-circuits. The system with a nominal pressure of 7 bar remains operational in temperatures from -40 to 80°C and can be operated manually by a pump in case of emergency. A pneumatic feedback signal makes sure the operator knows the actual position of the butterfly valve at any time.

Reliability and wide range of application

The pneumatic valve control and tank sounding systems are a rugged and proven technology. The piping is relatively easy to install and does not wear out. The system remains operational even in extreme temperatures and can be used with nearly all tank types and applications.

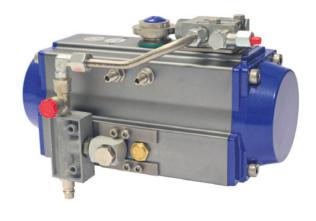
Worldwide service

Aventics provides an international network of partners which ensures a maximum of support for our customers and the availability of components and spare parts.

Environmental compatibility

The Marex VCS contributes to Clean Ship and Green Passport. It is optimized for a long operation life and only compressed air is used – a clean medium.





submerged butterfly valve and actuator

▲ Marex VCS actuator with active feedback

AVENTICS

www.marex-shipcontrols.com marinesales@aventics.com





Germany

AVENTICS GmbH
Marine
Ulmer Straße 4
30880 Laatzen, Germany
Tel +49 511 2136-251
Fax +49 511 2136-165
www.marex-shipcontrols.com
marinesales@aventics.com

Your contact:

Netherlands

AVENTICS B.V.
Mijlstraat 22
5281 LL Boxtel
Netherlands
Tel. +31 88 099 8000
info.nl@aventics.com

USA

AVENTICS Corporation PO Box 13597 1953 Mercer Road (40511) Lexington, KY 40512 Tel +1 859 254-8031 marine.us@aventics.com

China

AVENTICS Group 2002 Unit, Asdendas Plaza, No 333 Tianyaoqiao Road, Xuhui district Shanghai, China, 200030 Tel +86 21 2426 9666 www.aventics.cn

Further contacts

www.aventics.com/contact info@aventics.com

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