



AUTOMATED ONLINE VALVE MONITORING

VIB multiplex valve island



ANDRITZ

Automated online valve monitoring

Steam applications in paper machines are typically located in sensitive areas or places with very limited access. For this reason, pneumatic actuators are still the first choice for controlled fluid applications in these areas.

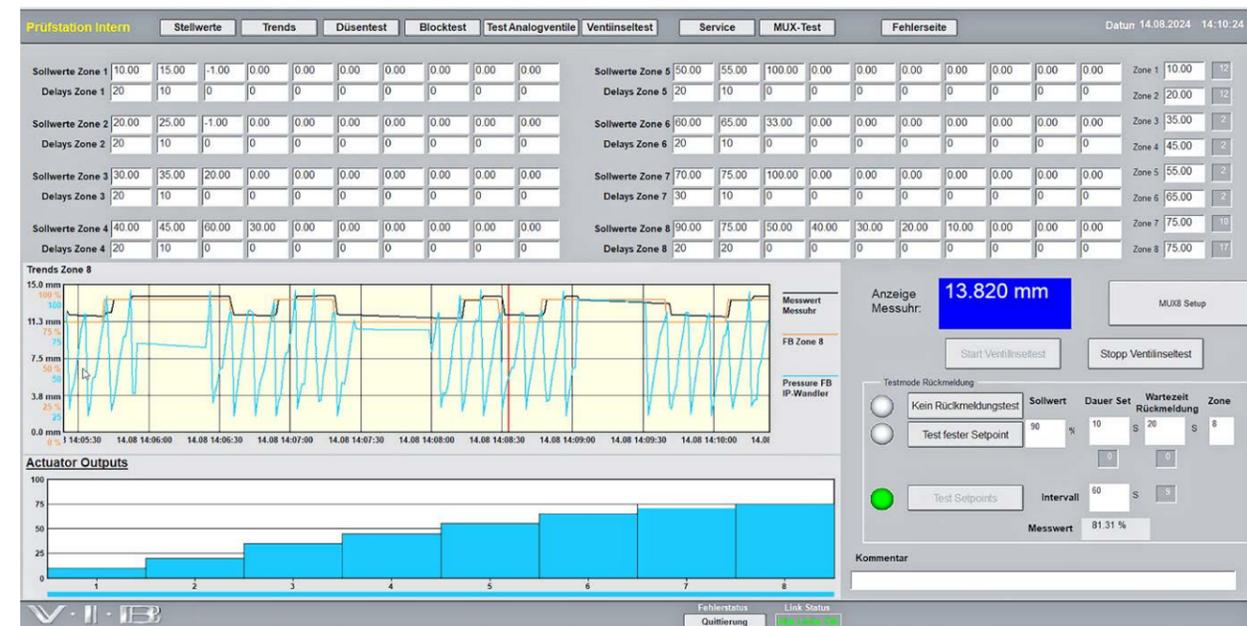
The VIB automated online valve monitoring feature ensures maximum equipment uptime with minimal maintenance. Online monitoring of state-of-the-art pneumatic controlled valves allows professional service and troubleshooting. Failures on single valve control lines as well as on the individual valves themselves are detected during normal machine operations with the CD control actuators activated. Results of this online diagnostics are available to decide whether immediate actions are required, or whether certain, precisely-detailed activities should be planned in the next regular maintenance cycle. Automated online valve monitoring significantly reduces



regular maintenance efforts while securing maximum equipment uptime. The self-explanatory, easy to use interface allows maintenance personnel to take full advantage of this online tool, with ANDRITZ also offering optional remote support on demand or on a regular basis depending on the user's requirements.

BENEFITS

- Online test performed during machine operation
- Maintenance done without the need to enter unsafe machine areas
- Every individual control zone tested
- Robust pneumatic control with online diagnostic feature, ideally suited for the very challenging environment
- Compact interface cabinet design
- Option of upgrading existing ANDRITZ VIB as well as competitor systems



VIB Multiplex valve island design upgrade for fluid-driven devices

Continuous product development is VIB's top priority. To meet today's customer needs, the VIB Multiplex valve island has undergone a major design upgrade. The new island system offers numerous advantages, particularly in leakage detection.

Valve islands with embedded control allow a compact cabinet arrangement with far less wiring and space requirements. The ANDRITZ design offers maximum flexibility to meet customer requirements. All new components run for more than 12 months under harsh test conditions in the ANDRITZ R&D facility. Three operation/service modes are available.

- ### BENEFITS
- Reduced maintenance costs
 - Maximum equipment availability
 - Compact design
 - Upgrade options for existing installations
 - Remote expert services

NORMAL OPERATION:

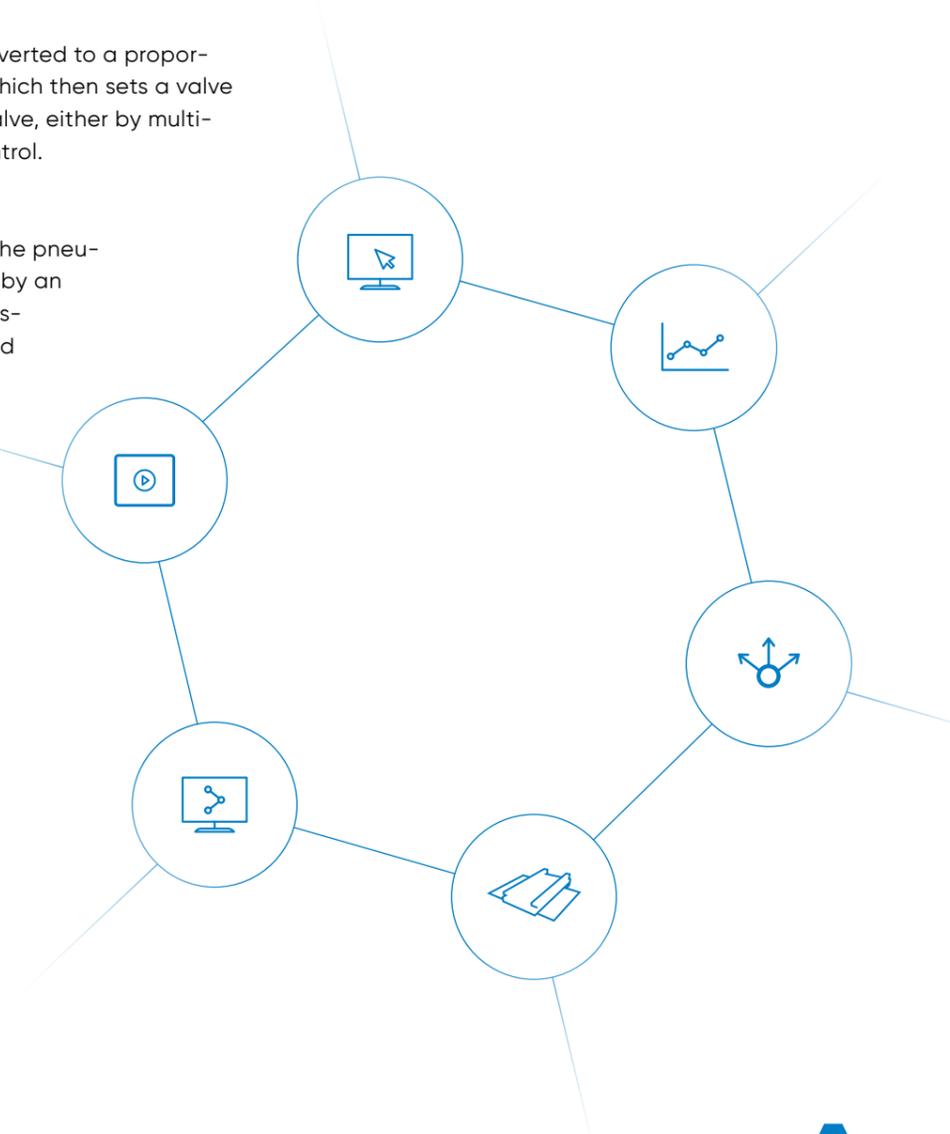
Current signal is permanently converted to a proportional pneumatic output signal, which then sets a valve position in a pneumatic control valve, either by multiplexing the signal or by direct control.

SERVICE MODE:

The pneumatic value is set, then the pneumatic output signal is interrupted by an internal valve, and the current pressure reading is read and compared to the previous set pressure value.

CONTROL MODE:

The controller compares the set pressure with the pressure reading after a selected time span. This comparison is used to determine the health of the pneumatic controlled zone, eliminating the use of any other equipment and without the need of entering any hazardous areas during production in an industrial environment.





PrimeService FOR TISSUE, PAPER AND BOARD: IMPROVE YOUR MACHINE PERFORMANCE

ANDRITZ supplies spare parts and engineered wear products and provides customer-specific maintenance and upgrade services for your paper mill – from stock preparation to the winder, including automation solutions, and pumps.

Our service specialists are skilled and experienced at raising the production efficiency of a machine, process step, or production line. Their knowledge helps protect and extend the life of your equipment and lower your overall operating costs. The huge variety of ANDRITZ upgrade products provides performance improvements, energy and cost savings as well as return on investment (ROI) within shortest time. We work closely with you to monitor, maintain, repair, and upgrade your assets. Full support – technically, mechanically, and personally – is provided to you regardless of who originally manufactured your equipment.

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