

**Maximize reliability
and reduce total cost**

Valve performance
monitoring





Customized services. Maximized benefits.

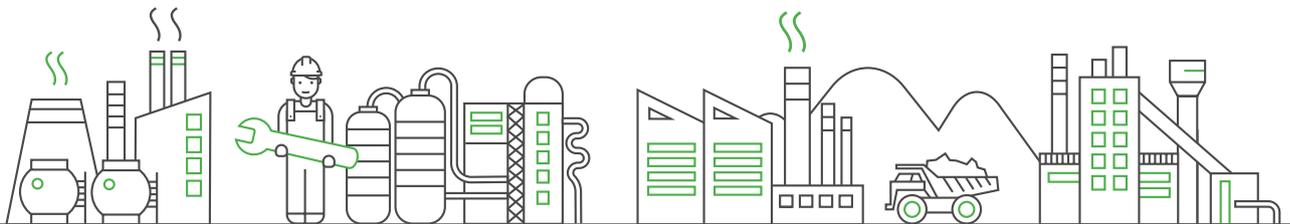
A customized solution for each plant's needs

Evaluate situation and needs

- Maintenance strategy and reliability
- Shutdown planning process
- Automation and data acquisition infrastructure
- Condition monitoring
- Storeroom and spare parts
- Business and technical goals

Lifecycle service agreement

- Onsite and remote services
- Software and tools
- Data analysis and reporting
- Workflows and best practices
- Low monthly fee



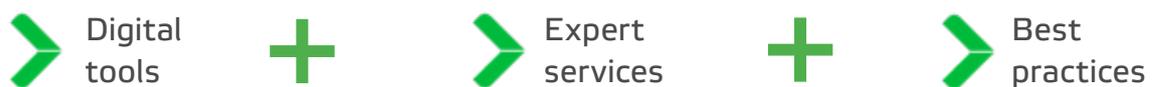
Control valve – Total cost of ownership (TCO)

Purchase price		Operation and maintenance	
9% Engi- neering	12% Valve price	5% Spare parts	74% Operation and maintenance, including installation, removal, re-installation and disposal

Achieve reliability, availability, and performance targets through the full lifecycle.

Valve performance monitoring (VPM)

VPM services apply our expertise to real-world valve data from your plant. Sustained results come from applying best practices and work flows both on-site and remotely.



Results: → Reliability → Efficiency → Safety → Quality → Lower risk

Automated tools detect issues quickly

Unplanned shutdown avoidance

Valve monitoring example

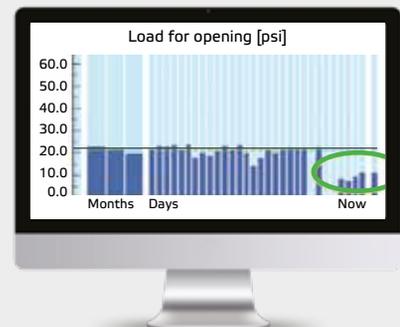
Problem	Solution
Excessive oscillation due to valve	Automated detection, prioritization and notification
Field inspection revealed the actuator bolts had become loose	Replace and ensure all four bolts secure with an addition of an adhesive



Neles™ ND9000™ diagnostics

Neles ND9000 diagnostics

Problem	Solution
Diagnostic load for opening shows a significant drop	Remote detection with routine monitoring. Plant notified via VPM services.
Indicated reduced contact with the valve seat	Unknown valve leakage was detected. Valve repaired ahead of schedule. Leakage eliminated and safe conditions restored.
Field inspection confirmed erosion, leakage, leading to safety and environmental issues	





Maximize reliability

Minimize unplanned downtime, extend valve life and improve valve performance.

Reduce risk

Improves health, safety and environmental outcomes.

Reduce total cost of ownership (TCO)

Low cost OpEx model.
Focus maintenance resources.



Valmet's professionals around the world work close to our customers and are committed to moving our customers' performance forward – every day.

Valmet Flow Control Oy

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