Offshore Surveys

Inventory Control

Diagnostic Testing

Incorporating Valve Management with CVS Manager™
Control Valve Solutions (CVS) offers tailor made solutions for all control valves and related products specifically used in the oil and gas industry around the UK and overseas.

With ISO9001:2008 and ISO14001 accreditations CVS’ processes are robust. The 2,000m² facilities are technically advanced which means every valve is tested to its limits to optimise performance before it is re-commissioned. CVS is dedicated to Integrated Valve Management using CVS Manager™ for improved valve reliability and performance.

Planned Valve Maintenance

Reducing Downtime
Planning ahead is a critical element in anticipating potential risks to ensure downtime is as short and runs as smoothly as possible.

CVS works closely with clients to identify all factors and ways to continuously improve production.

Typically, CVS’ most comprehensive planned valve maintenance service encompasses the following:

Stage One: Identifying all valves on a platform and categorising each valve using the traffic light system:
- **Red** – Critical
- **Amber** – Important but not critical
- **Green** – Non Critical

Stage Two: Conducting a thorough offshore site survey of all the specified valves and produce a document giving full valve details including a valve condition report

Stage Three: Conducting a detailed survey of clients stores and identifying all parts in line with the offshore survey

Stage Four: Identifying vulnerable valves that require immediate attention and tag each valve with a criticality score using the same traffic light system as detailed above

Stage Five: Logging all valves within CVS Manager™ and issuing a maintenance schedule for client discussion and final approval

Stage Six: Conducting repairs or making replacements and updating CVS Manager™ with all changes.

Lower maintenance costs

Service Level Options

Optimising Valve Performance

There are three main levels of service:

- **Full Valve Management** - covering all valves on a platform with full inventory control
- **Critical Valve Management** - for critical valves only
- **Specific Valve Management** - specified by the client

Each one of these service levels has various modules available for contract inclusion that can cover:

- Offshore Surveying; Onshore Store Surveying;
- Valve Maintenance Scheduling; Inventory Control;
- Preventative Maintenance Scheduling; Outage Planning & Workshop Repairs; Detailed Valve Listing, Tagging & Documentation.

Irrespective of the level of service required by the client, the CVS team is thorough about the detail of the information recorded and produces an extremely detailed Inspection Report.

A robust platform survey allows the CVS team to categorise valves according to a traffic light system for a criticality status. **Red** indicates that a valve needs to undergo immediate maintenance to reduce risk of failure and downtime. **Amber** status means that maintenance is important and requires future planned maintenance. **Green** indicates that maintenance is not so critical. This criticality analysis gives both the client and CVS a complete understanding of the condition of each valve and a comparison with the last TAR. Along with feedback from production on planned maintenance activities the best time to repair, overhaul or modernise a valve is then decided.

Well targeted maintenance
Each major North Sea platform has in the region of 4000 valves.

A problem with just one of these valves may render the whole platform a safety risk or threaten production but effective and efficient tracking of all the valves is an ongoing challenge for most operators.

With a proactive approach to valve maintenance and upgrades, CVS are able to make a considerable, positive impact on platform safety, costs and performance.

**Integrated Valve Management**

**Improving Valve Reliability**

CVS’ range of Valve Management services are designed to focus maintenance and spare parts planning on critical valves. This improves the long term reliability of valves reducing unplanned shutdowns and making planned shutdowns more efficient. A comprehensive portfolio of services encompasses:

1. Full offshore valve engineering support – Surveying, Installation, Repair, Commissioning, Testing, Fault Finding including diagnostics, Electronic Valve Tagging and Identification
2. Full onshore valve engineering support – Overhauls, Repairs, Modifications, Upgrades, Simulated Valve Testing, Pressure Testing and Project Management
3. Training – CVS Manager™, Smart Positioners and Field Communication, Valve Re-Packing, Valve Preventative Maintenance, Basic Valve Introductory and Advanced Valve Maintenance
4. Inventory Control – Offshore & Onshore Stockholding of Valves and Components
5. Documentation & Maintaining Records – full in-depth data holding of all valves included in the appropriate valve management contract level and fully accessible to clients

The critical data on valve condition and verification of TAG-specific information allows CVS to draw up the most efficient Maintenance Schedule for critical valve work to be carried out during the subsequent TAR to ensure peak performance and avoid unnecessary shutdowns.

**Reduce unplanned shutdowns**

**CVS Manager™**

**Increasing valve life expectancy**

CVS Manager™ is bespoke software designed in-house that allows clients to track the progress of every valve being repaired or overhauled and receive automatic notifications of forthcoming maintenance requirements.

The main features of CVS Manager™ incorporate:

- Enquiry Logging & Client Interface
- Quotations, Technical Data Sheets, Specification Sheets and Sizing Software
- Work Order Processing, Routings, Work Instructions & Test Certification
- Full Quality & Environmental System, Procedures & Operational Processes
- Client & Supplier Financial Data
- Technical Information & Technical Library
- Full Client Interactive Valve Management Software

All the data stored in CVS Manager™ is accessible to clients who are registered CVS Manager™ users and are fully trained on data retrieval which is a very simple process.

This level of client interaction relies on the quality of the data retrieved from the initial survey, inspection and the subsequent criticality analysis as well as the comprehensive technical, project management and financial documentation stored.

CVS’ team of control valve engineers are dedicated to full life valve management and this is where CVS Manager™ gives clients the utmost confidence in future valve reliability and performance.

**Improve return on investment**
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