



# INTELLIGENT VALVE MANAGEMENT

A suite of Score developed systems that enable significant benefits to be gained in the life cycle management of large valve population

## Critical Stock

Score Group plc has the world's largest independent stock of valves and actuators. With a valve inventory in excess of £280,000,000 a necessary foundation is now in place to support our customers and provide integrated valve solutions.

The holding of key insurance spares is one of the most important aspects of Valve Management.

A balance must be found between providing the minimum number of spares and providing sufficient spares to keep the facility operating safely and with maximum availability. This balance is achieved using a cost analysis of the supply chain for the delivery, stocking levels and refurbishment of valves and their spares compared to the risk of plant unavailability.

## Valve Strategy

The Valve Strategy provides a framework for plant maintenance, which ensures compliance with the applicable safety and statutory requirements and ensures best long term value and plant operability. The key is the identification of a valve's function and hence its criticality.

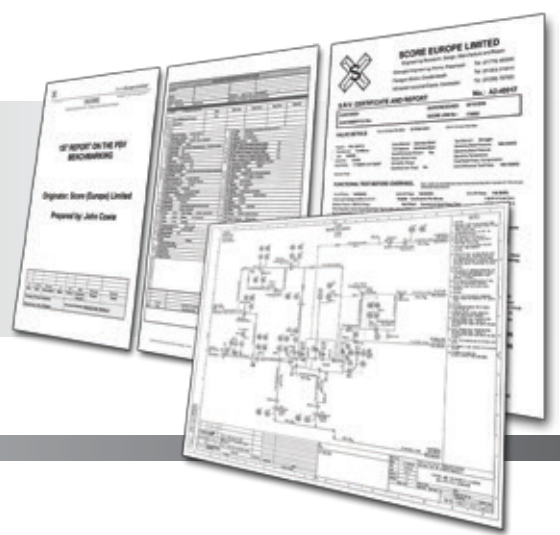
## Valve Criticality

By identifying a valve's criticality, in terms of its importance to platform safety and plant operability, the valve can be assigned the following:-

- The Optimum Insurance Spares Holding
- Maintenance Routine covering :-
  - Inspection Frequency
  - Test Frequency
  - Preventative Maintenance Schedule



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## Preventative Maintenance Routines

The Maintenance Routine is a means of providing written Maintenance Work Instructions and monitoring mechanisms to optimise valve, operator and instrumentation performance, increase safety and minimise the risk of production losses by reducing the risk of potential failures.

These routines include the use of condition monitoring and analysis systems, such as those developed by Score below:-

- Midas Meter® - Valve Leak Detection and Quantification
- V-Scan™ - Control Valve Benchmarking and Performance Analysis
- V-MAP™ - In-Line Continuous Valve Condition Monitoring
- PSV In-Line Testing
- PSV Benchmarking



## Pressure Safety Valve (PSV) Benchmarking

It has been recognised by the industry that an improved method is required that takes into account the PSV's previous performance, the service conditions and the consequence of failure to lift or to hold pressure.

Score's PSV Benchmarking system determines the optimum recertification period for a PSV, commensurate with its service, performance and the consequences of failure to lift or hold pressure. The system is based on RBI (Risky Based Inspection) principles and is an advance on the many prescriptive regimes currently prevalent in industry.

- Optimises Recertification, Often Leading to Reduced Cost
- Identifies Poor Performing PSVs and Required Remedial Action
- Identifies Service or Operator Problems

## Benefits of Intelligent Valve Management include:

Increased Plant Availability, Establish Maintenance Routines for Critical Valves, Focused Valve Condition Monitoring, Maximise 'Up Time', Optimum Valve Spares Holding, Agreed and Implemented Stock Profile, Fully Auditable Process, Increased Plant Safety, Identifies High Risk and Problem Valves, Cost Savings.

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