

Instrument & Valve Services

Asset Optimization Consulting

- **Reliability-Based Maintenance**
 - Assessment and benchmarking
 - Program design and improvement
 - Program implementation

Equipment Startup

- **Project management**
- **Installation**
- **Loop validation**
- **Startup/commissioning**
- **Onsite consigned inventory**
- **Certified calibrations**
- **Configuration**
- **Valve signature tests**
- **Mobile onsite service centers**

Application of Technology

- **Predictive maintenance applications**
- **Implementation of intelligent field devices**
- **475 and 375 Field Communicator upgrades**

Education and Certification

- **Onsite and classroom courses**
- **Computer-based and self-paced learning**
- **Certification to recognized industry standards**

Life Cycle Management Services

- **Turnaround / Outage services**
 - Pre-outage, predictive diagnostic services
 - AMS® Suite: Intelligent Device Manager
 - Valve diagnostic services
 - FlowScanner™
 - AMS ValveLink®
 - Valve Diagnostic Report
 - Outage Management
 - Mobile onsite service centers
 - Inline machining
 - Remote seal repair/replacement
 - Onsite outage inventory
- **Periodic services**
 - Certified calibrations
 - Critical support routine services
 - Valve signature testing
 - Checks/maintenance
 - Calibrations
 - Preventive maintenance
 - Predictive maintenance
- **Emergency Response Services**
- **Inventory programs**
 - Analysis
 - Standardization
 - Optimization
- **Local service centers**
 - Diagnostics
 - Repair
 - Remote seals repair/replacement
 - Valve signature testing
 - Valve remanufacture and recertification (Encore®)
 - Replacement units

Assets Served

- **Valves**
 - Butterfly
 - Ball
 - Instrumentation
 - Severe service
 - Safety
 - Safety relief
 - Gate
 - Globe
 - Check
- **Regulators**
- **Analyzers: Gas and Process**
 - Thermal conductivity analyzers
 - Process gas chromatographs
 - NO/NOx analyzers
 - Oxygen analyzers
 - Photometers
 - TOC analyzers
 - Total hydrocarbon analyzers
 - Trace moisture analyzers
- **Analyzers: Liquid**
 - pH
 - Conductivity
- **Environmental solutions**
 - Continuous emissions monitoring (CEMS)
 - Internal combustion engine emissions (ICEE)
- **Instrumentation**
 - Pressure
 - Temperature
 - Flow
 - Magnetic flow
 - Mass flow
 - Coriolis
 - Vortex flow
 - Level
 - Remote seals
- **Field Communicator Services**
- **Intelligent device networks**
 - HART®
 - FOUNDATION™ fieldbus
 - WirelessHART™

