



Masoneilan

Putting You In Control

AFTERMARKET Support and Services



Putting Integrity into Asset Management

AFTERMARKET SUPPORT & SERVICES



Putting Integrity
into Asset Management.



Life Cycle Services

AIM ASSET INTEGRITY MANAGEMENT For Success



COMMISSIONING ASSISTANCE

- Engineering and Technical Service
- Configuration Services
- Valve Survey Inspection
- Control System Integration
- Set-up, Calibration and Start-up Service
- Valve Automation Services



OPERATIONS SUPPORT

- OEM Parts - Rapid Parts
- ValvFAST™
- Instrumentation Cut-over - Hot Swap Program
- Inventory Management
- Safety Assurance - ESD Solutions



MANAGED MAINTENANCE

- Certified Valve Repair (MARC®)
- Mobile Onsite Valve Servicing
- Valve Technician Training
- Asset Management:
 - ValvKeep® / ValVue® / AMS™
- Turnaround Management



PREEMPTIVE MAINTENANCE

- Remote Monitoring
- Off-Line Diagnostics - ValScope®-PRO
- On-Line Diagnostics - ValVue®



PERFORMANCE OPTIMIZATION

- Loop Tuning / Optimization
- Diagnostics
 - Off-Line
 - On-Line



LIFE EXTENSION

- Trim Retrofit
- Refurbished Valves
- Smart Instruments Refurbishment
- Re-Instrumentation / Performance Optimization



Asset Integrity Management

Maximize Your Investment with Fast, Expert Implementation

- Valve Sizing & Selection
- Valve Survey Inspection
- Resident Engineer and Technical Service
- Project Management
- Set-up, Calibration and Start-up assistance
- Configuration Services
- Systems Integration
- Factory Technical Support
- Valve Automation Services

Procurement & Installation Commissioning Services

Faster Time-to-Revenue and Optimized Performance

From the time equipment arrives at the receiving dock, Dresser Masoneilan stands ready to support installation, set-up and commissioning. Dresser Masoneilan's expertise helps integrate and optimize equipment performance so you get the most from your investments. Dresser Masoneilan can also shorten time-to-revenue for additional cost-saving benefits. Trained factory technicians perform reliable, expert control valve installation, actuator adjustment and instrumentation calibration. Plus, FieldBus configuration and control integration services ensure interoperability between the final control element and the distributed control system (DCS). Product features such as universal mounting and auto-calibration combined with control technician expertise and real world experience result in fast, quality commissioning.

Operations Support

Maximize Control Valve Asset Availability, Minimize Downtime

To ensure efficient, uninterrupted operation, Dresser Masoneilan offers a variety of value-added services. From OEM parts to inventory management, Dresser Masoneilan can help process plant operators maximize control valve asset availability. Dresser Masoneilan enables product technology upgrades while operations remain up and running by offering analog to digital instrumentation cut-over (Hot-Swap). Remote or hazardous areas operations can also be monitored on-line, in real time using this same technology.

With Dresser Masoneilan Rapid Parts valves in critical need of replacement parts can be retrofitted expeditiously. Dresser Masoneilan's ValvFAST program can deliver the right valve in as little as 24 hours. And comprehensive on-site repair or depot refurbishment services round out Dresser Masoneilan's valve mechanical servicing offerings.

Utilizing the latest digital instrument technology, Dresser Masoneilan offers data acquisition and diagnostics with the SVI® and FVP family of digital instruments with on-board sensors in addition to the ValVue® companion software. By remote connection to a factory technician's computer, ValVue® software continuously monitors control valves in hazardous or remote locations. Furthermore, advanced software tools now allow Dresser Masoneilan to conduct diagnostics on-line without interrupting process. Additionally, Dresser Masoneilan's Hot Swap services allow older technology analog positioners to be switched over to state-of-the-art digital positioners without discontinuing operations.

Enhanced Revenue Generation Through Improved Control Performance

- Large Annual Savings in Fuel Costs
 - OEM Parts
 - Rapid Parts® Program
- ValvFAST™ Program
- Performance Optimization
 - SVI® II AP / Masoneilan FVP® Diagnostics Hot-Swap Program
- Inventory Management
 - Valve Survey / Assessment
- Safety Assurance
 - Emergency Shutdown Device (ESD) Products

Integrated Data for Improved Profitability, Productivity and Safety

By offering systems integration with control partners Honeywell® and Yokogawa®, Dresser Masoneilan draws upon the expertise required to ensure that final control elements are working in concert with the distributive control system. Through these partnerships, Dresser Masoneilan offers integrated information management from digital field devices to the DCS for improved productivity, safety and profitability. Dresser Masoneilan's control valve expertise coupled with global connectivity digital instrument architecture deliver reliable control and information integration.

CRITICAL VALVE START-UP

Whether you have a SteamForm® valve for steam conditioning, a boiler feedwater recirculation valve or a special NASA cryogenic valve, Dresser Masoneilan consults on process start-up. Dresser Masoneilan can help ensure that control equipment assets are functioning properly. What's more, factory trained technicians can make certain the valve, actuator, positioner and control valve assembly accessory components work effectively together.

DELIVERING OPERATION IMPROVEMENT

Dresser Masoneilan played an instrumental role in a recent Ethylene Product Optimization project. Dresser Masoneilan's services supported the facility's operations by dramatically improving valve positioning accuracy. Fuel gas valves retrofitted with Masoneilan SVI II positioners reduced the control set point deviation prior to loop tuning by 50 percent. When the install characteristics were linearized, the SVI units' custom flow characterization feature was leveraged to full benefit further improving process control performance.



Asset Integrity Management

Significant Reduction in Life-Cycle Costs

- Factory Certified Repair - MARC®
- Turnaround Management
- Valve Technician Training
- Mobile On-Site Valve Servicing
- Asset Management
 - ValvKeep® software
 - ValVue® Suite
 - ValScope®-PRO Tool
 - AMS asset management snap-on application

Managed Maintenance

Life-Cycle Cost Reduction

When it comes to life cycle cost reduction or downtime minimization, Dresser Masoneilan gets the job done. Dresser Direct and MARC (Masoneilan Authorized Repair Center) organizations stand ready to provide valve technicians and the tools to respond to maintenance needs. Additionally, ValvKeep maintenance data management software offers an integrated database for valve testing, repair and identification. ValvKeep software delivers quick access to specific equipment data, like bills of material, making data collection and retention easy throughout the asset's life cycle. Plus, Dresser Masoneilan SMART instruments and ValVue software with the AMS asset management snap-on application expand the capabilities of facility management equipment. To support plant turnarounds or routine preventative maintenance activities, Dresser Masoneilan offers ValScope-PRO microprocessor-based data acquisition and diagnostic tool. The ValScope-PRO tool can be used to run diagnostic checks on valves from any manufacturer. It easily troubleshoots problems and identifies opportunities to improve valve performance.

Preemptive Maintenance

Proactive Asset Maintenance

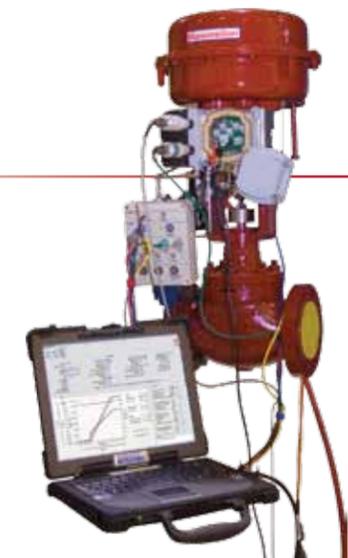
Dresser Masoneilan offers the tools and expertise to help prevent unexpected or unnecessary maintenance, repair or overhaul. The ValScope®-PRO control valve diagnostic system is a microprocessor based data acquisition system used to monitor the health of a control valve. By comparing current and historical valve signatures, the ValScope-PRO system can help identify problems such as improper plug travel adjustment, excess friction and trim wear. Similarly, Dresser Masoneilan digital positioners with on-board pressure sensors can be used to assess valve condition. Successful applications include the SVI® II AP series positioners equipped to record bellows seal stroke counts and to alert the operator when the bellows risk is high. Add the ValVue® OVD (On-Line Valve Diagnostics) option and each valve can be monitored remotely. Dresser Masoneilan has the tools to provide true "Preemptive Maintenance" measures by alerting operators to issues before they become critical and potentially costly. With around-the-clock field support, Dresser Masoneilan provides proactive process management and helps keep customers' processes optimally tuned. Dresser Masoneilan offers tools that not only monitor the health of equipment, but also provide the intelligence necessary to predict future non-conformance issues. Consequently, Dresser Masoneilan serves as an integral part of preventative maintenance initiatives. From OVD capable of triggering warnings or alerts, to enabled data management capabilities that can catalog entire maintenance histories, Dresser Masoneilan can facilitate an "If it's not broken...then fix it so it doesn't break" approach.

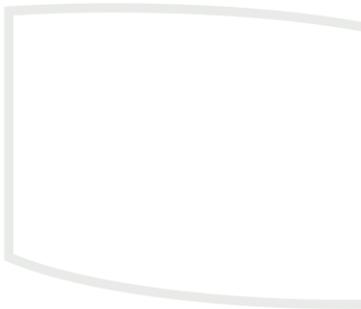
Risk Avoidance Through Diagnostics

- Asset Data Management
 - AMS asset management snap-on application
 - ValvKeep software
- Predictive / Preventative Maintenance - ValScope-PRO diagnostics
- On-Line Diagnostics
 - ValVue OVD (On-Line Valve Diagnostics)
- Remote Monitoring

RELIABLE PERFORMANCE IN TOUGH CONDITIONS

The functionality of large high performance butterfly valves required optimization in gas reinjection units in the middle of the Algerian Sahara desert. Supplied by another valve manufacturer, the two valves with Scotch yoke actuators were not performing well when controlling to small changes in input. The ValScope-PRO data analysis revealed that the installed positioners were not able to move the valves with sufficient speed and accuracy for step input changes less than seven percent. After retrofitting the valves with SVI positioners and Dresser Masoneilan boosters, the valve and actuator combination demonstrated a drastic performance improvement. Not only did ValScope-PRO help diagnose the problem, but the device also captured and reported the extent of the improvement.





Asset Integrity Management

Improved Final Product Quality

- Process Yield Optimization
- Loop Tuning / Optimization
- Diagnostics
- Remote Monitoring
- Technical Leadership

Life Extension

Optimize Total Asset Value

Control valves with older analog positioner technology can be re-instrumented with new Dresser Masoneilan SVI® II AP digital positioners. The positioner retrofit provides the following benefits:

- Significantly improves final control element speed and accuracy
- Diagnostic capability enabling preemptive maintenance

Performance Optimization

Reliable Technology, Expertise and Results

On-line diagnostic software tools from Dresser Masoneilan enable real-time control valve performance assessment. During normal plant operation, Dresser Masoneilan's digital positioners and online diagnostic software support the continuous acquisition and analysis of control valve data. What's more, performance improvement corrective action can be recommended by trained Dresser Masoneilan technicians on-site or remotely connected via a secure web connection.

Increased Asset Longevity for Higher ROI

- Re-Instrumentation
- Valve Refurbishment
- Trim Retrofit
- Smart Instrument Refurbishment

OEM Certified Parts & Service

Protect Your Valve Investment

All Parts Are Not Created Equal

Only genuine Dresser Masoneilan parts are manufactured to the exacting requirements of the original valve. That means only genuine Dresser Masoneilan parts deliver the most reliable and safest long-term performance, prevent unscheduled downtime, and minimize the need for costly, time-consuming repairs. Dresser Masoneilan parts ensure that your valve warranty remains intact.

Protect your valve investment. Look for the Dresser or Dresser Masoneilan name on the part or packaging. Demand nothing less.

Customer For Life

To provide comprehensive local support, Dresser Masoneilan has established a global network of fully authorized repair and service centers, Masoneilan Authorized Repair Centers (MARC®). Dresser Masoneilan and its MARCs are driven by a "Customer for Life" philosophy expressed through a comprehensive suite of aftermarket services including OEM Rapid Parts, on-site diagnostics, service and repair. Dresser Masoneilan's service offerings span all phases of the equipment life cycle from engineering and start-up to operation and maintenance:

- Technical support from custom design to applications engineering
- Support of installation, set-up and commissioning
- Products with best-in-class control performance
- Diagnostic tools that can support process control optimization objectives
- Tools providing the intelligence necessary for preventative maintenance



Global Service Network

Industry-Leading Knowledge & Technology

Through a Global Service Network, Dresser Masoneilan provides Factory Certified Field Support. Dresser Masoneilan's service capitalizes on industry-leading knowledge and technology. As a result, Dresser Masoneilan is locally responsive. On-site support, hands-on-training and depot repair offer timely solutions where ever they are needed.

Mobile valve servicing and resident asset management services bring Dresser Masoneilan expertise and know-how to industry's backdoor.

To find the MARC for your area, or to learn more about Dresser Masoneilan's Aftermarket Support and Services, please visit our website at www.dresser.com/masoneilan.

About Dresser, Inc.

Dresser Inc. is a global leader in providing highly-engineered infrastructure products for the global energy industry. Leading brand names within the Dresser portfolio include Dresser Wayne® retail fueling systems, Waukesha® natural gas-fired engines, Masoneilan® control valves, Consolidated® pressure relief valves, and ROOTS® blowers and rotary gas meters. The company has manufacturing and customer service facilities strategically located worldwide and a sales presence in more than 150 countries. www.dresser.com.

About Dresser Masoneilan

Dresser Masoneilan, headquartered in Houston, Texas, has been the leading global partner in process control valves and solutions for more than 100 years. A business segment of Dresser, Inc., the company delivers customized products, services and diagnostic solutions for oil and gas, process and power generation applications. www.dresser.com

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