

# Condensed Catalog

- Control Valves
- SVI Smart Valve Interface
- Liquid Level Controllers
- Control Equipment & Accessories

Masonneijan<sup>®</sup>

DRESSER<sup>®</sup>

# Masoneilan®

## Field Proven Reliability

Masoneilan has provided world-class automated process control solutions for over one hundred years, such as the highly-reliable Masoneilan 41005 Series Cage-Guided Globe Valve.



## Advanced Digital Technology

The Masoneilan SVI and FVP provide high performance digital process control with value-added benefits, such as compatibility with existing analog systems, on-board diagnostics, and improved process yield.

## Global Customer Service

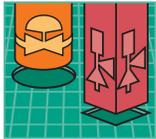
Masoneilan provides a network of service and repair facilities around the world to support your every need. Services are available day or night covering on-site support, spare parts, and equipment maintenance programs.



# Masoneilan Capabilities

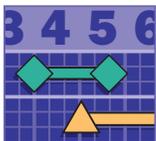
## Product Specification & Support

Masoneilan offers a true integrated support and service program starting with involvement early in the design process, using innovative tools and programs to help customers select and implement the right solutions for every application.



### Automated Sizing & Selection

Masoneilan has developed user-friendly software programs for sizing and selecting valve solutions. These programs use current industry standards and calculation methods, providing specific recommendations and automated error checking. These tools significantly reduce the time required to accurately specify and configure products.



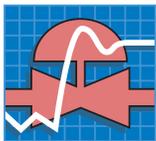
### Project Administration

Masoneilan offers project management support to help you easily implement products and services in a timely and cost effective manner. This service is offered with the unique capability to provide a wide range of integrated products and solutions.



### Resident Engineering

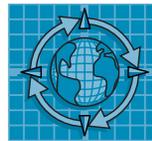
Masoneilan has implemented the Resident Engineer Program in order to facilitate effective up front design support. This program is focused on providing on-site technical assistance early in the design process, resulting in the reduction or elimination of costly design changes later in the project cycle. Our technical experts physically “reside” with your engineers to ensure design optimization and define requirements right from the start.



### Smart Technology

Masoneilan provides microprocessor-based field instrumentation that can help you realize tangible cost savings from initial installation and set-up, through on-going maintenance and support. The Smart Valve Interface (SVI®) and Fieldbus Valve Positioner (FVP™) digital valve positioners and controllers can help you drastically improve performance and maintenance management.

# Customer Benefits



## Global Capabilities

Masoneilan’s efforts are focused to provide support to our worldwide customers throughout a product’s life-cycle. The backbone of this support system is a global infrastructure of sales offices, manufacturing operations, and technical resources. These services include product maintenance, and loop and process optimization services.



## Local Support

Masoneilan provides factory certified support for all products through a customer focused program of establishing local service centers. This global support network consists of Masoneilan Authorized Repair Centers (MARC®) and field service technicians. All of these factory-authorized resources provide OEM components, experience, knowledge and technology to support all of your MRO needs worldwide, including hands-on training and on-site support.



## Maintenance Management Services

Masoneilan also provides integrated programs, such as ValvKeep™II, to help manage the support of your installed equipment. These programs are location specific and include plant surveys, data management, scheduling and planning of maintenance, repairs, and overhauls. Historical data and trends can be managed using an asset management system to maximize efficiency of overall equipment support.



## OEM Parts

Masoneilan fully understands that quick response in obtaining replacement parts and overhaul services is a critical factor in maintaining a smoothly operating plant. As a result, Masoneilan has placed extremely high importance on this customer need within our global aftermarket program.



## Field Support Services

Masoneilan’s comprehensive product documentation is designed to address questions regarding installation, start-up and troubleshooting. Masoneilan also provides highly proficient technical field support whenever necessary to keep your processes tuned to perfection. This includes up front design engineering support, product application assistance, and post installation analysis to ensure maximum performance efficiencies.



## Diagnostic Services

Masoneilan has developed advanced diagnostic tools and services designed to optimize process loops. In addition, the tools assist in the prevention of unexpected or unnecessary maintenance, repair, or overhaul. Available diagnostic tools include the ValScope™ for control valves, and the Smart Valve Interface (SVI®) digital positioner and controller with ValVue® software. Diagnostic services include the on-site application of these highly advanced tools by fully trained technicians.

# Control Valve Application

## General Service Applications

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### Rotary Products

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Over one million Masoneilan 35002 Series Camflex® valves have been successfully installed in a variety of process industries and applications. Today's Camflex II continues to provide legendary dependability through a field-proven concept that remains the standard of excellence for all eccentric plug rotary control valves. The standard version includes the EF Seal (Emission Free packing) with emissions rated at less than 500 ppm up to 750,000 cycles.



The Masoneilan 30000 Series Varimax control valve provides globe valve type capabilities within a compact rotary style package. Varimax offers a unique flow capacity adjustment feature, which can be externally adjusted in the field to compensate for valve oversizing. This feature can be used to effectively minimize instability in the control loop due to oversizing. Lo-dB trim is available for noise attenuation with higher capacities than equal size globe valves.



### Reciprocating Products

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The Masoneilan® 21000 Series is a single ported, heavy top-guided globe valve designed to handle a wide variety of process control applications. The 21000 Series can be provided with many optional packages, including Bellows Seals and Angle Body Designs. Trim options include low noise, anti-cavitation and soft seat trims to meet various application requirements.



Masoneilan's versatile cage-guided 41005 Series control valve provides solutions for applications such as high pressure drop steam. This includes highly reliable, balanced trim designs for reducing noise and vibration and for containing cavitation. Various balanced seal options are available to meet a wide range of temperature and seat leakage requirements. Lo-dB cartridges or plates can also be provided to maintain low outlet velocities and minimize downstream noise.

## Corrosive Service Applications

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### 700 Series

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The Masoneilan 700 Series is a PTFE lined globe-style control valve used for corrosive services. It includes a standard bellows seal design which insures packing box tightness, and a safety seal ring with a leak detector to monitor the condition of the bellows.



### 31000 Series

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The Masoneilan 31000 Series is a PFA lined control valve with an eccentric rotary plug, which provides tight shut off, low dynamic forces, and excellent control. This valve provides an excellent solution for aggressive acids that tend to cause bellows permeation problems in reciprocating designs.

# Control Valve Application

## Severe Service Applications

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### 72000 Series

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Masoneilan designed the 72000 Series family of energy management and low noise products for use in compressor anti-surge, gas-to-flare and other venting applications where high noise attenuation and high flow capacity are required. Angle, globe, and fixed restrictor configurations are available to create effective solutions for customers' specific process needs. For addressing your most severe, high expansion ratio applications, custom V-Log trim options are readily available.



### 73000 Series

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The 73000 Series valve is a sweep angle configuration for reliably throttling the most erosive process media. Available with a wide variety of engineered trim and body materials including all available high nickel, duplex, titanium, ceramic and tungsten carbide alloys.



### 77000 Series

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The Masoneilan 77000 Series multi-stage control valve is designed primarily for high-pressure compressible fluid applications. It effectively controls erosion, vibration, and high noise conditions, making it an ideal solution for high-pressure, high temperature, flashing hydrocarbon liquid services. One of the typical applications for this design is as a choke valve.



### 78200/18200 Series

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Axial flow LincolnLog® design utilizes a tortuous path to distribute pressure drop along the axis of the plug. The axial stages throttle in unison as the plug strokes, maintaining staging ratios at all lift points. Velocity and pressure drop are controlled, thus eliminating cavitation and the resulting trim damage. This valve is highly effective in pump recirculation and high-pressure liquid letdown applications.

# Technology Solutions

## Fugitive Emissions Control

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Masoneilan solutions for reduction of Volatile Organic Chemicals (VOCs) and Hazardous Air Pollutants (HAPs)



### **EF (Emission Free) Seal**

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The EF Seal is an emission containment feature that is standard on all Masoneilan rotary products. This seal design can be easily field-retrofitted on any existing valve in the field. It is a simple dual O-ring design that has undergone extensive FM testing, including successful completion of 750,000 full stroke cycles without failure. This design offers an extremely cost-effective solution for upgrading processes under the guidelines of the Clean Air Act.



### **LE<sup>®</sup> (Low Emission) Packing**

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Masoneilan reciprocating control valves can be equipped with the LE Packing System option for economic reduction of fugitive emissions to less than 500 ppm. The LE packing system is designed to maintain a constant sealing force within the packing box.



### **Bellows Seal**

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Bellows seals are offered for applications as a hermetic metallic seal for valve stem interfaces. Typical applications include handling of flammable, toxic, or explosive fluids, where leakage may cause environmentally unsafe conditions.

## Smart Technology

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### **SVI<sup>®</sup> - Smart Valve Positioner - HART**

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Masoneilan's SVI and SVI II offer high performance digital process with valuable benefits such as onboard diagnostics, auto-tuning, auto-calibration and a built-in controller. The SVI always provides the option for local or remote communication, even in hazardous environments. Masoneilan ValVue<sup>®</sup> software provides a user friendly PC-based communication tool for those digital instruments.



### **FVP - Fieldbus Valve Positioner - Foundation Fieldbus**

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Dresser Flow Control, a leader in the automated process control industry, introduces the Masoneilan FVP - Fieldbus Valve Positioner, a Digital Valve Positioner and PID process controller. The FVP offers highly advanced control technology for pneumatically actuated valves, providing higher precision and greater flexibility. A Foundation Fieldbus version of ValVue<sup>®</sup>FF software is available, for local or remote communication.



### **12300 - DLT Smart Level Transmitter - HART**

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The Masoneilan 12300 Series Digital Level Transmitter (DLT) is a Smart instrument with HART communication protocol utilizing the fully proven liquid displacement and torque tube technology. LevelVue<sup>™</sup> software is available for the DLT. A Foundation Fieldbus version of the DLT and LevelVue<sup>™</sup> software will be available in the near future.

# Technology Solutions

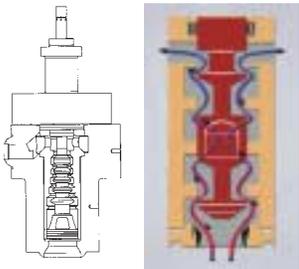
## Energy Management Trim

Masoneilan provides a wide range of solutions to handle fluid energy problems.



### Drilled-Hole Technology

Masoneilan offers a wide selection of single and multiple stage trims with both balanced and unbalanced globe and angle valve configurations. These designs, based on drilled-hole technology are only recommended for clean service applications. Balanced and unbalanced anti-cavitation options are also available with metal-to-metal seating meeting ANSI Class V shut-off performance. Masoneilan also offers Lo-dB® noise attenuation options utilizing drilled-hole technology in rotary control valves such as the Varimax Lo-dB and T-Ball T3 trim.



### Axial Flow Technology

Axial Flow trims offer multi-stage designs for the control of high-pressure liquids without the damaging effects of cavitation, erosion and vibration. The unique flow design of the LincolnLog develops the required resistance for throttling but also affords ample clearance for the passage of large particulate. The optional soft seat was designed specifically for boiler feedwater applications and provides long term Class VI shut-off at the most demanding pressures. The 77000 Series is multi-stage trim designed with expanding areas for high-pressure gaseous applications.



### Stacked Plate Technology

VRT®, Variable Resistance Trim, consists of a brazed stack of drilled plates which efficiently channel the flow through multiple turns in a tortuous path configuration. The design is primarily used in high-pressure drop liquid applications, and remains the standard in the power industry for feedwater regulator service. VRT is typically packaged within standard Masoneilan globe and angle valve bodies. A further development in stacked plate technology, V-Log® trim provides control of high pressure compressible fluids without erosion, vibration, or high noise levels. This design combines right angle turns with intermediate expansions and contractions to achieve efficient pressure reduction within a very compact design. V-Log trim is the most effective energy management trim available in the market today.

# Masoneilan Products

## Control Valves - Rotary

 <p><b>30000 Series Varimax</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 3" through 16" (80 through 400 mm)</li> </ul>	 <p><b>31000 Series lined rotary</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" through 3" (25 through 80 mm)</li> </ul>	 <p><b>34005 Series T-Ball</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 2" through 36" (50 through 900 mm)</li> </ul>	 <p><b>35002 Series Camflex II</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" through 16" (25 through 400 mm)</li> </ul>
<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600 UNI-DIN 10 - 64</li> <li>• wafer for mounting between flanges ANSI 150 - 600 UNI-DIN 10 - 64</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 UNI-DIN 10 - 16</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 1500</li> <li>• welded BW or SW</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150, 300, 600</li> <li>• flangeless for mounting between flanges ANSI 150 - 600 UNI-DIN 10 - 100</li> <li>• screwed NPT (1" through 2")</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• cast iron PFA lined</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• high nickel alloy</li> </ul>
<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 30 adjustable torque, spring-opposed rolling diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 35 spring-opposed rolling diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Spring opposed scotch yoke</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 35 spring diaphragm</li> <li>• 70 Series cylinder</li> </ul>
<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• eccentric rotary plug with adjustable <math>C_v</math>. Lo-dB trim available</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• eccentric rotary plug</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• T0: monitoring to mild service, no noise attenuation</li> <li>• T1: General use, minimal noise attenuation</li> <li>• T2: Moderate to severe service, medium noise attenuation</li> <li>• T3: Severe service, maximum noise attenuation</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• eccentric rotary plug</li> </ul>
<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• modified equal percent</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>
<p><i>The Varimax offers new standards of control while retaining the compactness and stem seal advantages of a rotary globe valve.</i></p> <p><i>An adjustable torque actuator provides flexibility and prevents oversizing.</i></p> <p><i>Actuator <math>C_v</math> adjustment eliminates the need to replace trim parts when process conditions change.</i></p>	<p><i>The 31000 Series is a PFA lined control valve with an eccentric rotary plug, which provides tight shut off, low dynamic forces, and excellent control.</i></p> <p><i>This valve is an excellent solution for hydrofluoric and sulfuric acid applications.</i></p>	<p><i>The 34005 Series T-Ball Rotary Control Valve is a patented low noise and anti-cavitation rotary control valve designed for both gas and liquid service. T-Ball features a full trunnion mounted ball with integral diffusers. The T-Ball is typically applied in fuel gas control and process applications requiring high capacity/high turndown, non-clogging operation.</i></p>	<p><i>As the original eccentric plug rotary valve, the Camflex combines top performance and features with an extremely economical design.</i></p> <p><i>The Camflex offers enormous versatility and broad application, and remains the most widely used eccentric plug control valve in the world. Now supplied with the EF seal solution to reduce fugitive emissions.</i></p>

# Masoneilan Products

## Control Valves - Rotary

 <p><b>36004 Series Paramax</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 2" through 12" (50 through 300 mm)</li> </ul>	 <p><b>37002 Series swing-through butterfly</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 2" through 24" (50 through 600 mm)</li> </ul>	 <p><b>39003 Series high-performance butterfly</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 3" through 36" (80 through 900 mm)</li> </ul>
<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 300</li> <li>• flangeless for mounting between flanges ANSI 150 - 300 UNI-DIN 10 - 40</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• wafer for mounting between flanges ANSI 150 - 300 UNI-DIN 10 - 40</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• wafer and lug for mounting between flanges ANSI 150 - 600</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• Liners in Buna-N, Viton and Nordel</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> </ul>
<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 33 spring diaphragm</li> <li>• Scotch yoke cylinder</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 33 spring diaphragm</li> <li>• Model 37 spring diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 33 spring diaphragm</li> <li>• Model 70 double acting cylinder</li> </ul>
<p><b>Trim:</b></p> <p>parabolic segmented ball</p>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• low torque butterfly</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• eccentric butterfly</li> </ul>
<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• modified equal percentage</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• equal percentage</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• equal percentage</li> </ul>
<p><i>The 36004 is a control ball valve with a parabolic segmented ball design.</i></p> <p><i>It is an excellent solution for high viscosity fluid applications (i.e. pulp and paper industry).</i></p> <p><i>Standard features also include the environmental packing (EF seal).</i></p>	<p><i>The 37002 Series is a control valve used on very large flow rates with low pressure drop. It is available with complete PTFE lining (38002 Series) for corrosive fluids applications.</i></p>	<p><i>The 39003 Series is a heavy-duty automatic throttling butterfly control valve with an eccentric disc, ideal for large flow rates and moderate pressure applications.</i></p>

# Masoneilan Products

## Control Valves - Reciprocating

 <p><b>10000 Series</b> double seated globe valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 2" through 24" (50 through 600 mm)</li> </ul>	 <p><b>21000 Series</b> globe &amp; angle top-guided valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 3/4" through 6" (20 through 150 mm)</li> </ul>	 <p><b>28000 Series Varipak</b> micro-trim globe valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" (25 mm) standard</li> <li>• 1/2" through 3/4" (15 through 20 mm) available on request</li> </ul>	 <p><b>41005 Series</b> globe &amp; angle cage-guided valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 2" through 16" (50 through 400 mm)</li> </ul>
<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 1500 UNI-DIN 10 - 250</li> <li>• welded BW or SW</li> <li>• screwed NPT 3/4" through 2" (20 through 50 mm)</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 2500 UNI-DIN 10 - 400</li> <li>• welded BW or SW</li> <li>• screwed NPT 3/4" through 2" (20 through 50 mm)</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600</li> <li>• flangeless for mounting between flanges ANSI 150 - 2500 UNI-DIN 10 - 400</li> <li>• screwed NPT 1/2" through 1" (15 through 25 mm)</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 2500 UNI-DIN 10 - 400</li> <li>• welded BW or SW</li> <li>• screwed NPT 2" (50 mm)</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• stainless steel</li> <li>• monel</li> <li>• hastelloy c</li> <li>• alloy 20</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>
<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring diaphragm</li> <li>• Model 84/85/86 cylinder</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• integral spring diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring diaphragm</li> <li>• Model 37/38 spring diaphragm</li> <li>• Model 84/85/86 cylinder</li> </ul>
<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• V-port or contoured plug</li> <li>• top and bottom guided</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• single seat plug top guided.</li> <li>• Lo-dB and anti-cavitation trims, single or double stage are available</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• full stellite needle plug. Multistep trim available</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• balanced cage-guided trim. Lo-dB, anti-cavitation and VRT (Variable Resistance Trim), single and multiple cages are available</li> </ul>
<p><b>Inherent Characteristics:</b></p> <ul style="list-style-type: none"> <li>• linear, quick opening or equal percentage</li> </ul>	<p><b>Inherent Characteristics:</b></p> <ul style="list-style-type: none"> <li>• linear or equal percentage</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>	<p><b>Inherent Characteristics:</b></p> <ul style="list-style-type: none"> <li>• linear or equal percentage</li> </ul>
<p><i>The 10000 Series is a double ported valve with top and bottom stem guiding.</i></p> <p><i>This design is ideal for high-pressure drop applications, where dirty fluid conditions exist.</i></p> <p><i>The 10000 Series is widely used on hydrocarbon processing applications.</i></p>	<p><i>The 21000 Series control valve is a heavy top-guided unbalanced design with noise attenuation and anti-cavitation trim options.</i></p> <p><i>It is well suited to handle a variety of process applications ranging from standard service conditions to more severe applications. Also includes standard bellows seal and soft seat configurations.</i></p>	<p><i>The Varipak is a compact globe style valve designed specifically for microflow control.</i></p> <p><i>The Varipak includes an adjustable C<sub>v</sub> feature - between 100% and 40% - to meet applications requiring finer control. Available with bellows seal and anti-cavitation trim option.</i></p>	<p><i>The 41005 Series is a heavy-duty valve design with balanced trim configurations.</i></p> <p><i>It offers cage guiding for added stability and the versatility to provide effective noise attenuation and anti-cavitation solutions.</i></p> <p><i>Available with various balancing seal options including auxiliary pilot design for unmatched high temperature performance.</i></p>

# Masoneilan Products

## Control Valves - Reciprocating

 <p><b>80000 Series</b> 3-way diverting or combining valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" through 10" (25 through 250 mm)</li> </ul>	 <p><b>700 Series</b> teflon lined split-body valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" through 6" (25 through 150 mm)</li> </ul>	 <p><b>2600 Series</b> split-body valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1/2" through 10" (15 through 250 mm)</li> </ul>
<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600 UNI-DIN 10 - 100</li> <li>• threaded NPT 3/4" through 2" (20 through 50 mm)</li> <li>• welded BW or SW</li> <li>• ANSI 900 - 2500 on request</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 UNI-DIN 16</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600 UNI-DIN 10 - 100 (integral or separable)</li> <li>• threaded NPT 1/2" through 2" (15 through 50 mm)</li> <li>• welded BW or SW</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• cast iron or carbon steel teflon lined</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> <li>• exotic alloys</li> </ul>
<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring diaphragm</li> <li>• Model 37/38 spring diaphragm</li> <li>• Model 84/85/86 cylinder</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring diaphragm</li> <li>• Model 37/38 spring diaphragm</li> <li>• Model 84/85/86 cylinder</li> <li>• 71 domotor piston</li> </ul>
<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• V-port plug</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• single seat top guided with teflon bellows seal (contoured plug)</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• single seat top guided (contoured plug)</li> </ul>
<p><b>Inherent Characteristic:</b> linear</p>	<p><b>Inherent Characteristics:</b> linear or equal percentage</p>	<p><b>Inherent Characteristics:</b> linear or equal percentage</p>
<p><i>The 80000 Series is a line of three-way control valves designed for either combining or diverting applications.</i></p> <p><i>Key features include high flow capacities and low pressure recoveries, resulting in a highly efficient flow control performance.</i></p>	<p><i>The 700 Series control valve is a split body design with PTFE internal lining for use in highly corrosive services.</i></p> <p><i>This valve includes a standard PTFE bellows seal design and optional trim configurations.</i></p>	<p><i>Split-body control valves are widely used in corrosive services, where trim checks and replacements are frequently needed.</i></p> <p><i>The 2600 split-body serves as a building block design offering many body configurations including globe, angle, and three-way valve bodies.</i></p>

# Masoneilan Products

## Control Valves - Engineered Products

 <p><b>72000 Series</b> angle valve with Lo-dB trim</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 6" x 8" through 24" x 36" (150 x 200 through 600 x 900 mm)</li> </ul>	 <p><b>77000 Series</b> multistep angle valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 2" x 3" through 6" x 8" (50 x 80 through 150 x 200 mm)</li> </ul>	 <p><b>78200 Series LincolnLog®</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" through 6" (25 through 150 mm)</li> </ul>	 <p><b>73000 Series</b> sweep angle valve</p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1" through 8" (25 through 200 mm)</li> </ul>
<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600 UNI-DIN 10 - 100 up to 600 mm</li> <li>• welded BW or SW 900 mm available BW only</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged inlet ANSI 2500 outlet ANSI 150 - 2500 UNI-DIN 10 - 400</li> <li>• welded BW or SW</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 600 - 2500 UNI-DIN 100 - 400</li> <li>• welded BW or SW</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 2500</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• titanium</li> <li>• Hastelloy</li> <li>• others</li> </ul>
<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 84/85/86 spring cylinder (spring return or double acting)</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 37/38 spring-opposed diaphragm</li> <li>• Model 84/85/86 spring cylinder (spring return or double acting)</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring-opposed diaphragm</li> <li>• Model 84/85/86 spring cylinder (spring return or double acting)</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 87/88 multi-spring-opposed diaphragm</li> <li>• Model 84/85/86 spring cylinder (spring return or double acting)</li> </ul>
<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• balanced cage guided trim (single or double cage)</li> <li>• Lo-dB and V-Log trims available</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• multistep trim (expanding labyrinth type)</li> <li>• anti-cavitation</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• multistep trim cage guided anti-cavitation</li> <li>• Class VI available on request</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• high capacity single stage</li> <li>• reduced port Venturi outlet</li> <li>• ceramic and tungsten carbide optional</li> </ul>
<p><b>Inherent Characteristics:</b></p> <ul style="list-style-type: none"> <li>• linear or equal percentage</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>	<p><b>Inherent Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear</li> </ul>
<p><i>The 72000 Series is designed for precise capacity control, while efficiently minimizing noise and outlet velocities using single or multiple cages or the new V-Log trim.</i></p> <p><i>Specific applications:</i></p> <ul style="list-style-type: none"> <li>• compressor antisurge</li> <li>• flare to atmosphere</li> </ul>	<p><i>The 77000 Series Lo-dB multistep control valve is designed primarily for high-pressure compressible fluid applications.</i></p> <p><i>It effectively controls erosion, vibrations and high noise conditions.</i></p> <p><i>Specific applications:</i></p> <ul style="list-style-type: none"> <li>• turbine bypass</li> <li>• hot separator letdown</li> </ul>	<p><i>The 78200 valve is used on liquid services to eliminate cavitation.</i></p> <p><i>Specific applications:</i></p> <ul style="list-style-type: none"> <li>• boiler feed water recirculation</li> <li>• desuperheater spray water</li> </ul>	<p><i>The 73000 Series control valve is especially suited to throttle highly erosive, flashing, and 2 phase flows.</i></p> <p><i>Specific applications:</i></p> <ul style="list-style-type: none"> <li>• mining</li> <li>• coal slurry</li> <li>• ash handling</li> <li>• hydrocarbon bottoms</li> </ul>

# Masoneilan Products

## Regulators

 <p><b>40-42C Series regulator</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1/2" through 2" (15 through 50 mm)</li> </ul>	 <p><b>525-526 Series regulator</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1/2" through 4" (15 through 100 mm)</li> </ul>	 <p><b>535-535H Series regulator</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 3/4" through 2" (15 through 50 mm)</li> </ul>	 <p><b>17 Series regulator</b></p> <p><b>Sizes:</b></p> <ul style="list-style-type: none"> <li>• 1/2" through 2" (15 through 50 mm)</li> </ul>
<p><b>Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600</li> <li>• screwed FNPT</li> </ul> <p><b>Ratings:</b></p> <ul style="list-style-type: none"> <li>• Model 40 C: 4000 psi @ 150°F (276 bar @ 65°C)</li> <li>• Model 42 C: 650 psi @ 150°F (45 bar @ 65°C)</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600 UNI-DIN 10 -100</li> <li>• screwed NPT 15 - 50 mm</li> <li>• welded BW or SW</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600 UNI-DIN 10 - 100</li> <li>• screwed NPT</li> <li>• welded SW</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 600</li> <li>• screwed NPT-F</li> <li>• welded SW</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• cast iron</li> </ul>
<p><b>Internal Regulation:</b></p> <ul style="list-style-type: none"> <li>• with spring diaphragm (neoprene, monel or stainless steel)</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 10900 with spring-opposed diaphragm</li> </ul>	<p><b>Actuator:</b></p> <ul style="list-style-type: none"> <li>• Model 10900 with spring-opposed diaphragm</li> </ul>	<p><b>Internal Regulation:</b></p> <ul style="list-style-type: none"> <li>• with neoprene or stainless steel diaphragm</li> </ul>
<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• needle plug</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• disc plug, double seat</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• single seat, disc plug (535 Series)</li> <li>• single seat, needle plug (559 Series)</li> </ul>	<p><b>Trim:</b></p> <ul style="list-style-type: none"> <li>• contoured plug, single seat</li> </ul>
<p><b>Working Range:</b></p> <ul style="list-style-type: none"> <li>• 2 to 600 psi (0.14 to 44.8 bar)</li> </ul>	<p><b>Working Range:</b></p> <ul style="list-style-type: none"> <li>• 0.5 to 330 psi (0.034 to 22.7 bar)</li> </ul>	<p><b>Working Range:</b></p> <ul style="list-style-type: none"> <li>• 0.5 to 330 psi (0.034 to 22.7 bar)</li> </ul>	<p><b>Working Range:</b></p> <ul style="list-style-type: none"> <li>• 2 to 200 psi (0.14 to 14.9 bar)</li> </ul>
<p><i>Pressure reduction (40C Series) and back pressure (42C Series) regulators are used on high pressure applications.</i></p>	<p><i>The 525 Series regulators are designed for pressure reduction, and the 526 Series for back pressure applications.</i></p> <p><i>Also available for differential pressure applications in multiple configurations to meet various combinations of capacity, pressure, and temperature requirements.</i></p>	<p><i>The 535 and 535H Series are designed in multiple configurations for pressure reduction and differential pressure applications.</i></p>	<p><i>The 17 Series regulators are designed for pressure reduction, back pressure, and differential pressure applications.</i></p> <p><i>The stainless steel version is suggested for high temperature and corrosive applications.</i></p>

# Masoneilan Products

## Level Transmitters

 <p><b>12800 Series</b> pneumatic level transmitter/controller</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li>• 14" through 120" (355 through 3048 mm)</li> </ul>	 <p><b>12300 Series</b> digital level transmitter/controller</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li>• 14" through 120" (355 through 3048 mm)</li> </ul>
<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 2500 UNI-DIN 10 - 100</li> <li>• screwed NPT-F (1 1/2", 2")</li> <li>• welded</li> </ul>	<p><b>Ratings and Connections:</b></p> <ul style="list-style-type: none"> <li>• flanged ANSI 150 - 2500 UNI-DIN 10 - 100</li> <li>• screwed NPT-F (1 1/2", 2")</li> <li>• welded</li> </ul>
<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>	<p><b>Body Materials:</b></p> <ul style="list-style-type: none"> <li>• carbon steel</li> <li>• stainless steel</li> <li>• chrome-moly</li> </ul>
<p><b>Displacer Materials:</b></p> <ul style="list-style-type: none"> <li>• stainless steel</li> <li>• other materials on request</li> </ul>	<p><b>Displacer Materials:</b></p> <ul style="list-style-type: none"> <li>• stainless steel</li> <li>• other materials on request</li> </ul>
<p><b>Torque Tube Materials:</b></p> <ul style="list-style-type: none"> <li>• Inconel</li> <li>• stainless steel</li> <li>• other materials on request</li> </ul>	<p><b>Torque Tube Materials:</b></p> <ul style="list-style-type: none"> <li>• Inconel</li> <li>• stainless steel</li> <li>• other materials on request</li> </ul>
<p><b>Action:</b></p> <ul style="list-style-type: none"> <li>• proportional</li> <li>• proportional + reset</li> <li>• transmitter</li> <li>• on-off</li> <li>• duplex</li> </ul>	<p><b>Electronic Instrument:</b></p> <ul style="list-style-type: none"> <li>• HART protocol</li> <li>• 4 - 20 mA signal</li> <li>• Cenelec, FM, and CSA agency approvals</li> </ul>
<p>The 12800 pneumatic level controllers are used to control and/or transmit the level in a tank with one or two fluids (interface service).</p> <p>The 12800 Series operates according to the fully proven liquid displacement and torque tube principle.</p>	<p>The Masoneilan 12300 Series Instrument is a 2-wire loop powered digital displacement type level Transmitter or Controller* with HART Communication. This high performance instrument is easily set-up and calibrated by use of either a hand-held communicator or local pushbuttons and digital display. This versatility allows the operator to configure, calibrate, and perform other functions either at the instrument or from the control room.</p> <p>*LevelVue configuration software available.</p>

## Instrumentation

 <p><b>SVI®</b> digital positioner and PID controller</p> <p><b>Communication Platform:</b></p> <ul style="list-style-type: none"> <li>• HART</li> </ul>	 <p><b>FVP™</b> digital positioner and PID controller</p> <p><b>Communication Platform:</b></p> <ul style="list-style-type: none"> <li>• Foundation Fieldbus</li> </ul>
<p><b>Signal - Supply:</b></p> <ul style="list-style-type: none"> <li>• 4-20 mA control signal</li> <li>• no external power required</li> <li>• supply pressure: 20 - 100 psi (1.4 - 7 bar)</li> </ul>	<p><b>Input Signal:</b></p> <ul style="list-style-type: none"> <li>• Foundation Fieldbus</li> <li>• no external power required</li> <li>• supply pressure: 20 - 100 psi (1.4 - 7 bar)</li> </ul>
<p><b>Communication Software Interface:</b></p> <ul style="list-style-type: none"> <li>• ValVue® - HART</li> </ul>	<p><b>Communication Software Interface:</b></p> <ul style="list-style-type: none"> <li>• ValVue®FF - Foundation Fieldbus</li> </ul>
<p><b>Hazardous Area Certifications:</b></p> <ul style="list-style-type: none"> <li>• Cenelec, FM, and CSA agency approvals</li> </ul>	<p><b>Hazardous Area Certifications:</b></p> <ul style="list-style-type: none"> <li>• Cenelec, FM, and CSA agency approvals</li> </ul>
<p>Masoneilan's Smart Valve Interface (SVI) is an intelligent digital valve positioner and PID (Proportional Integral Derivative) process control technology for pneumatically actuated valves, providing higher precision, greater flexibility and ease of use. ValVue is a communication software tool used to configure, calibrate and perform valve diagnostics with the SVI utilizing HART communications protocol.</p>	<p>Masoneilan, a leader in the automated process control industry, introduces the FVP - Fieldbus Valve Positioner, a digital valve positioner and PID process controller. The FVP offers highly advanced control technology for pneumatically actuated valves, providing higher precision and greater flexibility. A Fieldbus version of ValVue software is available.</p>

# Masoneilan Products

## Instrumentation

 <p><b>4700 P Series pneumatic positioner</b></p> <p><b>Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear or equal percentage obtained through the cam setting.</li> <li>• Options: bypass customized characteristic</li> </ul>	 <p><b>4700 E Series electro-pneumatic positioner</b></p> <p><b>Characteristic:</b></p> <ul style="list-style-type: none"> <li>• linear or equal percentage obtained through the relevant cam setting.</li> <li>• Options: bypass customized characteristic</li> </ul>	 <p><b>7000 Series electro-pneumatic transducer</b></p> <p><b>Signals:</b></p> <ul style="list-style-type: none"> <li>• input: 4 - 20 mA (100 mA max)</li> <li>• output: 3 - 15 psig, 6 - 30 psig</li> </ul>	 <p><b>496 Series rotary limit switch</b></p> <p><b>Rating:</b></p> <ul style="list-style-type: none"> <li>• 10 amps @ 300 Volts A.C.</li> <li>• 0.6 amps @ 24/30 Volts D.C.</li> </ul>
<p><b>Certifications:</b></p> <ul style="list-style-type: none"> <li>• explosion proof and intrinsically safe enclosure rating per IP 66</li> </ul>		<p><b>Certifications:</b></p> <ul style="list-style-type: none"> <li>• explosion proof and intrinsically safe</li> <li>• enclosure rating NEMA 4x, IP 66</li> </ul> <p><b>Number of Contacts:</b></p> <ul style="list-style-type: none"> <li>• 496-1: 1-SPDT</li> <li>• 496-2: two contacts 2-SPDT (Both are explosion proof type)</li> <li>• 496-4 &amp; 496-5 are supplied with inductive proximity sensor</li> </ul>	
<p><b>Action:</b></p> <ul style="list-style-type: none"> <li>• Direct and reverse action (reverse action available on pneumatic version only)</li> </ul>		<p><i>The 7000 I/P is manufactured with Reedex™ digital-micro valve technology, which provides fast responses and is not sensitive to vibration.</i></p> <ul style="list-style-type: none"> <li>• Low air consumption</li> <li>• Adjustable tight shut-off feature</li> </ul> <p><i>The 496 Series allows for remote reception of one or two predetermined valve positions (generally open and/or close positions).</i></p>	
<p><b>Signals:</b></p> <ul style="list-style-type: none"> <li>• 3 - 15 psig, 6 - 30 psig, 3 - 9 psig, 9 - 15 psig</li> </ul>	<p><b>Signals:</b></p> <ul style="list-style-type: none"> <li>• 4 - 20 mA</li> </ul>		
<p><i>The Model 4700 P and 4700 E are field proven positioners utilizing a precision feedback cam to provide accurate positioning, very fast response, and customized control characteristics for control valves. These positioners can be used with either rotary or reciprocating actuators. When mounting on reciprocating actuators, a simple, rugged turnbuckle and lever assembly couples stem motion to the cam. On rotary actuators, the cam is mounted directly to the shaft.</i></p> <p><i>The main features of the 4700 E/P Series are:</i></p> <ul style="list-style-type: none"> <li>• multi-lobe cam</li> <li>• simple zero and span adjustments</li> <li>• corrosion resistant materials</li> <li>• fully enclosed</li> <li>• FM, CSA, Cenelec approved</li> <li>• simple design</li> <li>• easy to maintain</li> <li>• optional bypass on pneumatic version</li> <li>• dampening adjustment</li> </ul>			

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