Accurate, versatile chemical pumps

Expanded range! Now includes qdos 120
• Cut chemical cost through higher accuracy metering
• Simple drop-in installation eliminates ancillary equipment
• Reduced maintenance with single, no-tools, component replacement
• Range expanded to include Qdos 120. Flow rates from 0.001 to 32 USGPH (0.1 to 2,000 ml/min) at up to 100 psi (7 bar)

**Total cost of ownership is less than a diaphragm pump**

Typical installation comparing a diaphragm metering pump with the Qdos peristaltic metering pump

*Not required for Qdos system*

Diaphragm metering pumps require high maintenance ancillaries to function. The Qdos range eliminates this equipment while maintaining accurate, linear and repeatable metering for all process conditions.

• No backpressure valves
• No pulsation dampener
• No degassing valves
• No foot valves and strainers
• No float switches
Revolutionary pumphead technology

The unique design of the patented ReNu™ pumphead enables accurate and repeatable flow for fluids of wide ranging viscosities.

No-tools maintenance means quick, safe and easy pumphead replacement with no specialist training or maintenance technicians.

Easy access high-visibility interface
Keypad and 3.5" TFT color display provide easy access and high-visibility status indication. Configurable in 7 languages

Three models in the range
Qdos 30, Qdos 60 and Qdos 120

Reduce your chemical costs
Accurate, linear and repeatable flow, with varying process conditions. Keeps pumping even when gassing-off occurs or when the chemical contains solids. No need to over-meter chemicals

Simplify your system design
High suction lift and viscous handling eliminates the need for flooded suction, day tanks and specialist piping systems

Safe maintenance
The sealed ReNu pumphead with integral leak detection eliminates operator exposure to chemicals. No chemicals on the floor, no parts to clean and rebuild

Replace your pump in seconds
Process uptime is maximized with no-tools maintenance quick and easy pumphead replacement

Low maintenance
No valves or seals to clog, leak or corrode, giving minimal maintenance. Drop-in replacement for diaphragm metering pumps

Optional HMI protective screen

Rugged NEMA 4X pump drive, designed for industrial environments

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qdospumps.com
Features of the Qdos range

Simplicity in installation, operation and maintenance were key considerations when designing the Qdos range of pumps.

An intuitive menu offers advanced control features including:

- Fluid level monitoring
- Line priming
- Flow calibration

The 3.5” TFT color display provides instant pump status, and can be configured to display in 7 different languages.

Qdos pumps can be ordered with the ReNu pumphead mounted on the left or right of the pump. The keypad, display and input/output connections are readily accessible for easy operation and maintenance. All models are NEMA 4X rated for use in washdown environments.

### Qdos pump model range functionality

<table>
<thead>
<tr>
<th>Universal+</th>
<th>Universal</th>
<th>Manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexibility for automatic and manual control together with configurable 4-20mA input and output</td>
<td>Automatic and manual control</td>
<td>Manual speed control</td>
</tr>
</tbody>
</table>

### Features overview

**Operational modes**
- Manual
- Contact
- 4-20mA
- Fluid recovery
- Fault reporting
- PROFIBUS control and diagnostics

**Manual control**
- Numerical flow display
- Numerical speed display
- Numerical percentage of max speed display
- Fluid level monitor
- Max pump
- Auto restart
- Pumphead failure alarm

**Remote control**
- 4-20mA input
- 4-20mA input two point calibration
- 4-20mA output
- Contact input (pulse/batch)
- Run stop input
- Run status output
- Alarm output
- Remote fluid recovery
- Optional 24V or 110V industrial logic*

**LED status icons**
- Pump status
- 4-20mA status
- Fault

### Security
- Keypad lock
- PIN lock
- Keyless lock

### Control options - Universal and Universal+ models*

**Variant**
- Standard pump (L)
- Relay module (H)
- Relay module (R)

<table>
<thead>
<tr>
<th>Variant</th>
<th>Standard pump (L)</th>
<th>Relay module (H)</th>
<th>Relay module (R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>5-24V DC</td>
<td>Contact rating</td>
<td>5-24V DC</td>
</tr>
<tr>
<td>Output</td>
<td>Open collector</td>
<td>110V AC, 5A, 30V DC, 5A</td>
<td>110V AC, 5A</td>
</tr>
</tbody>
</table>

*Control options - Universal and Universal+ models*

- Remote control for absolute process security
- Manual and PROFIBUS control

qdospumps.com
Sodium hypochlorite metering with no vapor locking
Qdos pumps replaced magnetic membrane and progressive cavity pumps in chemical metering applications at Huhtamaki Moulded Fiber Technology BV.
In a 2 bar (30 psi) counter-pressure application metering sodium hypochlorite to cooling water, the Qdos pumps provide smooth, accurate and linear flows without downtime or vapor locking issues.

Maintenance downtime cut from 1.5 hours to just five minutes
An important stage of wastewater purification at Selters, Germany, is the elimination of phosphates with the addition of precipitants, including ferric chloride.
Ferric chloride is both chemically aggressive and abrasive and attacked the diaphragms of the pumps previously used at the sites’ metering station. Technicians were replacing pump diaphragms every 3 to 4 months, and each one took at least one hour to change, plus clean up time for leaked chemical.
Qdos pumps were installed in the precipitant metering station and immediately reduced maintenance time to five minutes.

Precise delivery of electroplating chemicals
BIA Kunstoff- und Galvanotechnik is involved in electroplating plastic components with metallic surfaces for the automotive industry.
The Qdos pumps employed by BIA precisely dose the chemical additives to the electroplating machines with minimal pulsation, and avoid them being “shattered”.
In addition to low pulse dosing, virtually no pump downtime and no additional accessories such as check valves, makes Qdos pumps the best choice for electroplating duties.

Rare mineral recovery process
In vital floatation duties at British Fluorspar, twelve Qdos pumps meter reagents from mixer tanks to header tanks.
Acid grade fluorspar (fluorite) is a relatively rare industrial mineral and its extraction involves precise metering of reagents such as methyl isobutyl carbinol, sodium isopropyl xanthate, caustic soda pearl and other chemicals. Overdosing of these chemicals is a costly business which must be avoided.

Sodium hypochlorite metering with no vapor locking
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Ensuring the supply of safe drinking water

High concentrations of iron and manganese in the Canadian Barrie region mean that a sequestering agent is required for potable water. The City of Barrie Water Operations Branch uses sodium silicate (Na₂SiO₃) to bind the Fe/Mn and prevent it from oxidising. The effect is aesthetic to avoid staining sanitary ware.

Diaphragm metering pumps had been chosen to meter between 4-6 parts sodium silicate, until sticking ball valves and clogging caused serious maintenance issues at the unmanned site.

Investing in Qdos pumps was easy for the Water Operations Department to justify on the costs of downtime and spare parts alone.

**Weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>kg</th>
<th>lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qdos 30</td>
<td>5.0</td>
<td>11 lb 2 oz</td>
</tr>
<tr>
<td>Qdos 60</td>
<td>5.7</td>
<td>12 lb 9 oz</td>
</tr>
<tr>
<td>Qdos 120</td>
<td>5.7</td>
<td>12 lb 9 oz</td>
</tr>
</tbody>
</table>

**Important note** - The ReNu Pumphead contains lubricant. It is the user’s responsibility to comply with local health and safety regulations, including ensuring chemical compatibility between the tubing, lubricant and the duty fluid before use. For guidance refer to www.wmftg.com/chemical

**Dimensions**

**Performance data**

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed (rpm)</th>
<th>Flow (ml/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal+, Universal, Manual, PROFIBUS</td>
<td>0.004 - 125</td>
<td>0.1 – 500</td>
</tr>
<tr>
<td>Remote</td>
<td>0.078 - 125</td>
<td>0.5 – 500</td>
</tr>
</tbody>
</table>

**Performance curves**

* Optional relay module
Watson-Marlow online

Our engineers around the world can help you choose the perfect pump and tubing for your needs.

More information? Our brochures are on our website: www.wmftg.com

For more information on Qdos peristaltic metering pumps visit: www.qdospumps.com