



## Quizix® Q5000

### **STANDARD PRECISION PUMPING SYSTEMS**

#### **Pulse-free Pumps For Critical Applications**

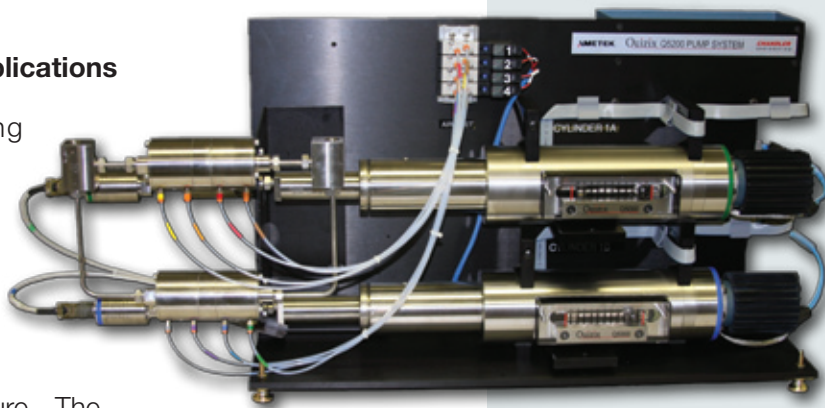
Quizix Q5000 Precision Pumping Systems are manufactured by Chandler Engineering and designed for applications that require pulse-free fluid pumping. These robust pumps are capable of being heated and are ideal for delivering fluid at a constant rate or maintaining a constant pressure. The Q5000 can also be used to provide a constant differential pressure by using inputs from remote pressure transducers.

These pumps were developed specifically for fluid delivery and fluid pressure control applications in core flow analysis. However, Quizix pumps have satisfied the requirements of many other laboratory and science applications. These pumps are also used in production environments where precision pulse-free flow or volume measurements are critical under high pressure.

The different models of the Q5000 cover a wide range of pressure capabilities and flow rates. These pumping systems are supplied as either a single pump cylinder or in combinations containing up to eight pump cylinders. Single cylinders deliver or receive a fluid for pressure control or in intermittent flow applications. A dual cylinder pump provides continuous pulse-free pumping.

#### **Operational Simplicity**

The Q5000 pumping systems are very easy to operate. PumpWorks™ is a user-friendly software package that provides complete control over any Quizix system. This easy-to-use interface indicates the detailed status of each pump cylinder including its piston positions and direction, valve positions, flow rate, pressure, cylinder volume and cumulative volume pumped.



#### **FEATURES**

- ✓ Pulse-free precision flow
- ✓ Pressures up to 20,000 psi / 138 MPa
- ✓ High temperature option to 320°F / 160°C
- ✓ Stainless steel or HASTELLOY® wetted parts
- ✓ Delivers or receives fluids in constant flow or constant pressure mode
- ✓ Operational control via PumpWorks™ software
- ✓ Control up to eight pump cylinders with virtually any parameter





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Pumps can be programmed to deliver a specified amount of fluid or operate for a specified period of time and then repeat the cycle as many times as desired. The programming allows for unattended operation of the pumps. All measured information on the pump can be logged and easily exported for graphing and analysis.

One of the unique features of the Q5000 series is the ability to keep the fluid heated when circulating fluids. This high temperature option allows the entire pump barrel to be inserted into an oven assembly where its temperature can be maintained up to 320°F / 160°C.

## Engineering Excellence for Long-Term Performance

Chandler Engineering builds durability and reliability into every Quizix pumping system. The unique design and technology built into each pump eliminates the need for constant maintenance. The long-wearing piston seals are readily accessible and easy to replace if needed. Chandler Engineering also provides worldwide service for maintaining pump performance.

## Specifications

Q5000 Precision Metering Pumps					
Model	Maximum Pressure	Maximum Flowrate	Cylinder Stroke Volume	Minimum Flowrate	Options
Q5000-2.5K	2,500 psi 17.2 MPa	60 mL/min 3,600 mL/hr	37 mL	186 nL/min 11,200 nL/hr	SS or HC, HT
Q5000-5K	5,000 psi 34.5 MPa	30 mL/min 1,800 mL/hr	21 mL	105 nL/min 6,300 nL/hr	SS or HC, HT
Q5000-10K	10,000 psi 68.9 MPa	15 mL/min 900 mL/hr	9.3 mL	18 nL/min 1,080 nL/hr	SS or HC, HT
Q5000-20K	20,000 psi 137.9 MPa	7.5 mL/min 450 mL/hr	5.2 mL	10 nL/min 600 nL/hr	HC only
<b>Notes:</b> SS: Wetted components may be ordered in stainless steel 316 HC: Wetted parts may be ordered in HASTELLOY® C-276 HT: Available with high temperature option for heating fluid ends up to 320°F / 160°C					

Computer required for PumpWorks™ pump control software.

## Utilities

### Air

65 - 100 psi / 450 - 690 kPa, clean and dry

### Power

120/240 VAC, 50/60 Hz

*Manufacturer's specifications subject to change without notice*

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## CHANDLER ENGINEERING

2001 North Indianwood Avenue, Broken Arrow, OK 74012

Tel: +1 918-250-7200 • Fax: +1 918-459-0165

e-mail: [chandler.sales@ametek.com](mailto:chandler.sales@ametek.com) • [www.chandlereng.com](http://www.chandlereng.com)

## Houston Sales and Services

4903 W. Sam Houston Parkway, N., Suite A-400, Houston, TX 77041

Tel: +1 713-466-4900 • Fax: +1 713-849-1924