



# CHANDLER ENGINEERING

## Quizix® Q6000

### **HIGH FLOWRATE PRECISION PUMPING SYSTEMS**

#### **The Largest Pumps For Pulse-free Applications**

Quizix Q6000 Precision Pumping Systems are designed and manufactured for applications that require higher rates of high pressure pulse-free fluid pumping. These pumps are used in larger scale flow applications and can pump at a constant rate or maintaining a constant pressure. The Q6000 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 pumping systems have satisfied the requirements of many other laboratory and science applications. These pumps are also used in PVT applications where precision pulse-free flow or volume measurements are critical.

The different models of the Q6000 cover a wide range of pressure capabilities and flow rates. These pumping systems are supplied as either a single pump cylinder or 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 Q6000 pumps are very easy to operate. PumpWorks™ is a user-friendly software package that provides complete control over up to eight Quizix pump cylinders. 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.

Pumps can be programmed to deliver a specified amount of fluid or operate

#### **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



# Quizix® Q6000

for a specified period of time and then repeat the cycle as many times as desired. The programming allows for unattended operation of the pump systems with automatic shutdown. All measured information on the pump can be logged and easily exported for graphing and analysis.

One of the unique features of the Q6000 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 pump. The unique design and technology built into each pump eliminates maintenance issues. 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

Q6000 Precision Metering Pumps					
Model	Maximum Pressure	Maximum Flowrate	Cylinder Stroke Volume	Minimum Flowrate	Options
Q6000-5K	5,000 psi 34 MPa	400 mL/min 24,000 mL/hr	550 mL	0.001 mL/min 0.06 mL/hr	SS or HC, HT
Q6000-10K	10,000 psi 70 MPa	200 mL/min 12,000 mL/hr	275 mL	0.0005 mL/min 0.03 mL/hr	SS or HC, HT
Q6000-20K	20,000 psi 138 MPa	80 mL/min 4,800 mL/hr	125 mL	0.00025 mL/min 0.015 mL/hr	HC only

**Notes:**  
**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*

This publication contains the following trademarks and/or registered trademarks: AMETEK, CHANDLER ENGINEERING, and QUIZIX. These trademarks, registered trademarks and stylized logos are all owned by AMETEK, Inc. All other company, product and service names and logos are trademarks or service marks of their respective owners.



**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