



Taha Kimia Tajhiz Co.



Quizix™ Q5000

Datasheet

Pumps



Quizix™ Q5000

PRECISION METERING PUMPS

Pulse-free Pumps For Critical Applications

Quizix Q5000 Precision Metering Pumps are manufactured by Chandler Engineering and designed for applications that require pulse-free fluid delivery or receiving. These robust pumps are capable of being heated and are ideal for pumping at a constant rate or 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 production environments where precision pulse-free flow or volume measurements are critical.

The four different models of the Q5000 cover a wide range of pressure capabilities and flow rates. These pumps are supplied as either a single pump cylinder or as systems 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 pumps are very easy to operate. PumpWorks™ is a user-friendly software package that provides complete control over any Quizix pump. 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 flow at all rates and pressures*
- ✓ *Deliver, receive or recirculate fluids*
- ✓ *Control pump based upon time, pressure, rate, fluid volume or sequenced events*
- ✓ *Operational simplicity via PumpWorks™ software*
- ✓ *Systems can control up to eight pump cylinders*
- ✓ *High temperature option to 320°F / 160°C*
- ✓ *Stainless steel or HASTELLOY® wetted parts*



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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 Quizix 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 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 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 Flow Rate	Cylinder Stroke Volume	Minimum Flow Rate	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
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 to run 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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