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Quizix™ QX Datasheet

Pumps



CHANDLER
ENGINEERING

Quizix™ QX

PRECISION METERING PUMPS

High Precision in a Compact Design

Chandler Engineering manufactures Quizix QX precision metering pumps which are designed for pulse-free fluid delivery or receiving. These pumps are ideal for pumping at a constant rate or constant pressure. Additionally, the QX pump can be used to maintain a constant differential pressure by inputs from remote pressure transducers.

The QX design was specifically created for fluid delivery and fluid pressure control applications in core flow analysis. However, Quizix pumps are used in many other laboratory and science applications including production environments where precision flow rates or volumetric measurements are critical.

There are four pressure ranges available in this bench-top package. The QX pump is a twin cylinder design for continuous pulse-free pumping of fluid but each cylinder can also operate independently for intermittent pumping of two different fluids.

Operational Simplicity

QX pumps are very easy to operate. Complete control of the pump is available with the PumpWorks™ software and your computer or through an optional front panel touch screen display. These interfaces monitor the detailed status of the pump including piston positions and direction, valve positions, flow rate, pressure, cylinder volume and cumulative volume pumped.

The pump 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 required.



FEATURES

- ✓ *Small footprint with dual cylinders in a compact design*
- ✓ *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*
- ✓ *Stainless Steel or HASTELLOY® wetted parts*



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It can also be programmed to complete a series of steps or processes for unattended operation. All measured information on the pump can be logged and easily exported for graphing and analysis.

Engineering Excellence for Long-term Performance

Chandler Engineering builds durability and reliability into every Quizix pump. Our patented valve design provides pulse-free delivery and eliminates the maintenance issues associated with other valves ensuring that they will operate flawlessly for years. The long-wearing piston seals are readily accessible and easy to replace if needed.

QX pumps can be ordered with stainless steel or HASTELLOY® wetted components.

Specifications

Q6000 Precision Metering Pumps				
Model	Maximum Pressure	Maximum Flow Rate	Cylinder Stroke Volume	Minimum Flow Rate
QX-500	500 psi 3.4 MPa	500 mL/min 30 L/hr	137 mL	0.005 mL/min 0.3 mL/hr
QX-1500	1,500 psi 10 MPa	200 mL/min 12 L/hr	49 mL	0.002 mL/min 0.12 mL/hr
QX-6000	6,000 psi 41 MPa	50 mL/min 3.0 L/hr	12.3 mL	0.001 mL/min 0.06 mL/hr
QX-20K	20,000 psi 138 MPa	7.5 mL/min 450 mL/hr	7.0 mL	0.00015 mL/min 0.009 mL/hr

Stainless steel 316 wetted components are standard. HASTELLOY® C-276 is optional.

Utilities

Air

65 - 115 psi / 448 - 793 kPa, clean and dry

Power Supply

85 - 264 VAC, 50/60 Hz, 200 kVA

Physical Dimensions

Dimensions (W x D x H):

7.5 in. x 11.8 in. x 19 in. / 19 cm x 30 cm x 48 cm

Weight:

35 lb / 16 kg

Manufacturer's specifications subject to change without notice

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