

Quizix[®]

PRECISION PUMPS

PERFORMANCE . QUALITY . SAFETY

- Rock Core Analysis
- Special Core Analysis
- EOR / IOR
- PVT
- Rock Mechanics
- Chemical Feedstock Applications

Quizix® PRECISION PUMPS

Chandler Engineering offers three different lines of Quizix pump systems: the QX, 5000 and 6000 series. Each product line includes several different models with various maximum pressure and flow rate specifications.

All Quizix pumps are positive displacement pumps. They operate with PumpWorks Software and have a precise flow rate, volume and pressure control. All models can be operated in single cylinder batch mode.

A wide range of flow rates, pressure configurations and available options allow Quizix pumps to meet virtually any experimental requirement from bench top to pilot scale. Quizix pumps are designed to handle slurries, pastes, liquids or gas flows, providing unique capabilities not found in other positive displacement pumps.

QX SERIES PRECISION PUMPS

THE QUIZIX QX SERIES PUMPS deliver unparalleled accuracy and repeatability with the superior pulseless metering that is critical for so many of today's production and research environments.

This model offers innovative valve technology and two independently controlled motor-driven pistons, setting a new standard in continuous, pulse-free operation. All six models in the QX Series can pump continuously for any length of time, from seconds to months. The QX will pump fluid at either a constant flow rate or a constant pressure, specifying the precise flow rate or pressure to be maintained. A ramping feature enables the pumps to provide a smooth transition between two rates or pressure settings. QX pumps can operate in either direction, letting you easily deliver or withdraw fluid to or from an application.

- Small footprint with dual cylinders in a compact design
- Pulse-free flow at all rates and pressures
- Deliver or receive in flow or pressure modes
- Control pump based on time, pressure, rate, fluid volume or events



| PUMP TYPE | MAX PRESSURE | MAX FLOW RATE* | CYLINDER STROKE VOLUME | MIN FLOW RATE | OPTIONS |
|-----------|------------------------|-------------------------|------------------------|---------------|-------------|
| QX-500 | 500 psi 3.4 MPa | 500 mL/min 30 L/hr | 116 mL | 0.100 mL/min | SS or HC AT |
| QX-1500 | 1,500 psi 10 MPa | 200 mL/min 12 L/hr | 49 mL | 0.050 mL/min | SS or HC AT |
| QX-3000 | 3,000 psi 20.6 MPa | 100 mL/min 6.0 L/hr | 24 mL | 0.025 mL/min | SS or HC AT |
| QX-6000 | 6,000 psi 41 MPa | 50 mL/min 3.0 L/hr | 12.3 mL | 0.001 mL/min | SS or HC AT |
| QX-10K | 10,000 psi 68.9 MPa | 30 mL/min 1.8 mL/hr | 7.5 mL | 0.0005 mL/min | SS or HC AT |
| QX-20K | 20,000 psi 138 MPa | 7.5 mL/min 450 mL/hr | 3.5 mL | 0.0001 mL/min | SS or HC AT |

SS: wetted parts in 316SST
I725: Inconel 725

HC: wetted parts in HASTELLOY® C-276
AT: ambient temperature 0-50°C

17-4: wetted parts in 17-4 PH SST
HT: high temperature 50-165°C

A286: wetted parts in A286 SST
EHT: extra high temperature 50-285°C

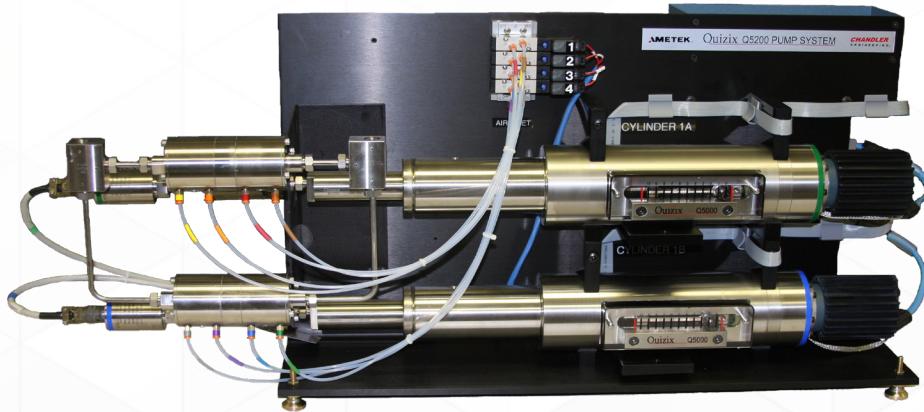
Custom pumps are available. Contact your Quizix Representative for details.

Q5000 SERIES PRECISION PUMPS

THE QUIZIX Q5000 PRECISION METERING PUMP is a high-pressure syringe pump that provides truly pulse-free pumping with unmatched precision and accuracy. These positive displacement metering pumps are ideal for handling aqueous solutions, brines, hydrocarbons, refined oils and gases such as CO₂.

A pair of Q5000 cylinders can work together to pump continuously for any length of time, from seconds to months. It can pump fluid at either a constant flow rate or a constant pressure, specifying the precise flow rate or pressure to be maintained. A ramping feature enables the pumps to provide a smooth transition between multiple rate, pressure, or volumetric settings.

- Pressure up to 20,000 psi
- Flow rate up to 60 mL/min
- High temperature option up to 545°F (285°C)
- Configurable cylinder combinations provide flexibility to meet application specifications



| PUMP TYPE | MAX PRESSURE | MAX FLOW RATE* | CYLINDER STROKE VOLUME | MIN FLOW RATE | OPTIONS |
|------------|-------------------------|--------------------------|------------------------|-----------------|---------------------------|
| Q5000-2.5K | 2,500 psi 17.2 MPa | 60 mL/min 3,600 mL/hr | 37 mL | 0.000125 mL/min | SS or HC, AT or HT or EHT |
| Q5000-5K | 5,000 psi 34.5 MPa | 30 mL/min 1,800 mL/hr | 21 mL | 0.000070 mL/min | SS or HC, AT or HT or EHT |
| Q5000-10K | 10,000 psi 68.9 MPa | 15 mL/min 900 mL/hr | 9.3 mL | 0.000031 mL/min | SS or HC, AT or HT or EHT |
| Q5000-20K | 20,000 psi 137.9 MPa | 7.5 mL/min 450 mL/hr | 5.2 mL | 0.000018 mL/min | HC AT or HT |

SS: wetted parts in 316SST
I725: Inconel 725

HC: wetted parts in HASTELLOY® C-276
AT: ambient temperature 0-50°C

17-4: wetted parts in 17-4 PH SST
HT: high temperature 50-165°C

A286: wetted parts in A286 SST
EHT: extra high temperature 50-285°C

Q5000 models are available in ultra-low-flow configurations for tight rock and sub-microliter flow rate applications.
Custom pumps are available. Contact your Quizix Representative for details.

Q6000 SERIES PRECISION PUMPS

THE QUIZIX Q6000 SERIES POSITIVE DISPLACEMENT METERING PUMPS are ideal for handling aqueous solutions, brines, hydrocarbons, refined oils, and gases such as CO₂. A pair of Q6000 cylinders can work together to pump continuously for any length of time, from seconds to months. It can pump fluid at either a constant flow rate or a constant pressure, specifying the precise flow rate or pressure to be maintained. A ramping feature enables the pumps to provide a smooth transition between multiple rate, pressure, or volumetric settings. The Q6000 Series pumps can also operate in either direction, letting you easily deliver or withdraw fluid to or from an application. The pumps can be configured for single cylinder, batch flow operations.

- Pressure to 30,000 psi
- Flow rate to 400 mL/min
- Temperature capability from ambient to 545°F (285°C)
- Multiple cylinder configurations provide flexibility to meet your application requirements



| PUMP TYPE | MAX PRESSURE | MAX FLOW RATE* | CYLINDER STROKE VOLUME | MIN FLOW RATE | OPTIONS |
|-----------|-------------------------|----------------------------|------------------------|---------------|---------------------------|
| Q6000-5K | 5,000 psi 34 MPa | 400 mL/min 24,000 mL/hr | 530 mL | 0.002 mL/min | SS or HC, AT or HT or EHT |
| Q6000-10K | 10,000 psi 70 MPa | 200 mL/min 12,000 mL/hr | 267 mL | 0.001 mL/min | SS or HC, AT or HT or EHT |
| Q6000-20K | 20,000 psi 138 MPa | 100 mL/min 6,000 mL/hr | 134 mL | 0.0006 mL/min | 17-4 or HC, AT or HT |
| Q6000-30K | 30,000 psi 206.8 MPa | 75 mL/min 4,500 mL/hr | 88 mL | 0.0002 mL/min | A286 or I-725, AT |

SS: wetted parts in 316SST
I725: Inconel 725

HC: wetted parts in HASTELLOY® C-276
AT: ambient temperature 0-50°C

17-4: wetted parts in 17-4 PH SST
HT: high temperature 50-165°C

A286: wetted parts in A286 SST
EHT: extra high temperature 50-285°C

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HISTORY

Since 1949, Chandler Engineering has been a trusted leader in delivering high-quality measurement instruments for the Oil & Gas industry. As the industry's largest instrument supplier, Chandler Engineering continues to drive innovation, helping customers enhance the efficiency and productivity of their drilling and production operations.

PUMPWORKS CONTROL SOFTWARE

PumpWorks software operates under Win10/Win11 operating systems. Software is easy to use, intuitive and offers powerful features to operate your pump the way you require.

- 14 Standard Modes of Operation - Several options for constant flow, constant pressure, or control from external signals
- Clear, Comprehensive Data Display - Main window displays from all pumps in a clear and informative format
- Operate Multiple Pumps - Up to 8 dual cylinder pump systems can be controlled from PumpWorks software
- Data Logging - Record all operating data (flow rate, pressure, volumes, valve operations, etc.) directly to your computer
- Programmable Operation - Ramping options to set up time or volume delivery, multi-step flow or pressure ramps



At Chandler Engineering, we are united by our commitment to each other and the shared values that define our work. We promote unity, honor, and belonging within our company and extend that care to the communities we serve. Our dedication to innovation and excellence in energy solutions is driven by our desire to leave the world a better place for our families and future generations.



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