

In partnership with Vernay

Single-Use Precision Pumps

Revolutionising the Medical & Pharmaceutical Markets

- Quantex medical pumps provide precision dosing even when dispensing through narrow cannula needles and with high viscosity fluids. The single-use pump can be integrated into the fluid pack or the delivery line. Quantex delivers consistent pump performance throughout the operating life. Single-use with zero maintenance and no calibration requirements, Quantex is the new standard for medical and pharmaceutical dispensing.
- The single-use pump can be incorporated into **disposable pharmaceutical manufacturing lines**, eliminating the risk of cross-contamination as the pharmaceutical line is disposed of at the end of each manufacturing batch.
- The disposable pump is also used in the **biopharma market**. The gentle nature of the pump action reduces damage to cells during the pumping process (compared to conventional pumps that squeeze tubes and generate shear forces).
- The Quantex pump features of zero free-flow, reverse cycling, high vacuum and high pressure which facilitates greater innovation in system design and pharmaceutical packaging.
- Pumps are fully scalable and available in a wide range of flowrates.



Procision Dumping

- ✓ Accurate dosing over wide range of flowrates, temperatures and viscosities
- ✓ 100% dose efficiency until pack empty
- ✓ No software compensation required to preserve accuracy!

WHY USE QUANTEX?

✓ Pressure & Aerosol

- ✓ 90psig output pressure capability
- ✓ Ability to spray liquids
- ✓ Replacement for aerosol propellants
- Pump against high back-pressure valves

✓ Reverse Cycling

- ✓ Bi-directional capability
- ✓ Reverse cycle eliminates drips
- ✓ Reverse cycle can actuate one-way valves
- ✓ Flexible system design

✓ Vacuum

- ✓ 13psig vacuum capability
- \checkmark Self-priming removes air from pack
- ✓ Ability to collapse semi-rigid packaging
- ✓ Liquid pack can be placed above or below the pump

✓ Low Power Consumption

- ✓ Facilitates compact dispenser design
- ✓ Suitable for battery operation
- Low power compared with peristaltic equivalent
- ✓ Allows cost effective systems

✓ In-Pump Dilution

- ✓ Dilutes high viscosity fluids in any ratio
- ✓ Liquid contacting parts are formed in the disposable pump
- ✓ Eliminates cleaning regime between pack and point of dispense
- ✓ Eliminates risk of cross contamination

MEDICAL PUMP APPLICATION EXAMPLES

- Wound cleaning
- IV drug dispensing
- Subcutaneous drug dispensing
- · Spraying or aerosol drug delivery
- Disposable pharmaceutical production lines
- Disposable pharmaceutical giving sets
- Enteral feeding

dexterous users

- Nebulisers
- Ambulatory dispensersSimple dispense systems for non-
- Self-priming medical devices pumps air from system prior to dispensing liquid
- · Bio-pharmaceutical dispensing
- Laboratory testing equipment
- Assay equipment
- Single-use fluid path assemblies

Precision micro-dosing with Quantex single-use pumps

Quantex pumps are ideal for precise micro-dosing with **very low power consumption**. The micro rotor carries 3 cavities, each with a minute volume. This in-line pump has **barbed inlet and outlet connectors** for easy fitting to tubing. The connectors may be customised for specific applications e.g. **male/female luers**, **slips for adhesives**, **airless fluid packs** etc. The fluid

contacting materials are all **medical grades of silicone**, **polypropylene** and **HDPE**. Alternative materials can be used if necessary. A **micro-evaluation kit** is available to allow the pump to be evaluated in-house. This consists of a motor, controller, power supply, chassis to hold the pump to the motor and tablet with pre-loaded software.



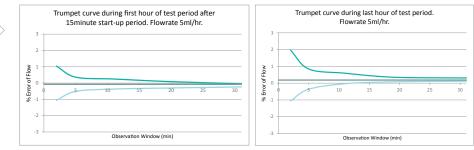
Trumpet curves for the **CS-3** pump >

PRODUCT EXAMPLES

CS-3: micro-dosing single-use precision pump

Features:

- Flowrate: 0 200 ml/hr
- Resolution: 1.3 µl
- Pressure: 1 Bar
- Viscosity: <1,400 cP
- Torque: <8mNm
- · Inlet and outlet connection: Barbed connection to 1.6mm ID tubing



Download full data sheets at www.quantex-arc.com/products



CS-6: micro-dosing single-use pump

Features:

- Flowrate: 0 2400ml/hr
- Resolution: 22µl
- Pressure: 2 bar
- Fluid Viscosity: <1,400cP
- Torque: <25mNm
- Inlet/outlet: barbed connection to 2.5mm ID tubing

CONTACT

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