Syringe pumps

Extremely accurate flow and pressure control

Features:
- Wide range of flow rate
- Touch screen panel enables stand-alone operation
- Control networking interface enables remote-control operation from a PC
- High temperature operation available (up to 150°C)
- Wetted parts in Stainless Steel, Hastelloy
- Pump mixer (optional)

Benefits:
- Outstanding performance
- Excellent mechanics
- Pulse free flow
- Modular design
- Extreme long life

Applications:
- High pressure experiments requiring precision control
- Rock core analysis for fluid displacement in porous media
- Reactant feed in chemical process development, catalyst evaluation, plastic – formation

The pumps can handle all types of fluids including:
- Aqueous and organic fluids
- Corrosive solutions
- Liquefied gases
- Slurries and pastes
- Heated fluids
- Viscous fluids
Multi-configuration

- **Bench floor and bench top single syringe Pump** – Operate in single pump independent mode and provide constant flow rate from µl/minute to over 200 ml/minute, at pressure from atmospheric to very high pressure.

- **Bench floor and bench top double Syringe Pump** – Operate in either individual or synchronized dual pump mode for continuous, pulse-free flow. Provide uninterrupted constant flow rate from µl/minute to over 200 ml/minute, at pressure from atmospheric to very high pressure.

Operating modes

- Constant flow with single or dual pump
- Constant pressure with single or dual pump
- Pump Dispensing
- Pump refill

Fast refill and dispensing

The pump can refill and dispense in a very short time in less than 2 minutes. The operation can be programmed at maximum or at set speed.

High pressure valve

The dual-pump configuration uses two air actuated Vindum Engineering Constant volume 3-way, 4-position high pressure valves which guarantees extremely accurate flow from as low as 1 µl/minute to a high flowrate.

External control interface

The TPC/IP modbus interface implemented into the pump program provides a client server communication between the pump and the server through an Ethernet TPC/IP network. The architecture allows for connecting an unlimited number of pumps to a computer in a central or remote location. Thanks to this TPC/IP interface the pump software can be easily integrated to any data acquisition and supervision software developed by the end-user.

Pressure transducers

Pressure transducers are properly calibrated assuring excellent stability with excellent repeatability at each measurement.