



# Quantex pump applications

## Domestic appliance dispensing and self-cleaning

Detergent and other reagent dispensing for washing machines, dishwashers and related applications will need to be automated as manufacturers are looking at more concentrated detergents to reduce transport costs.

An accurate dispenser is required so that the optimum dose is used. By building the Quantex pump into the retail package, accuracy can be easily maintained without cleaning procedures, and feedback can be given to the consumer on the number of washes left in the packaging.

### Quantex features & benefits:

- Less transport costs
- Convenient to consumer
- No waste- every dose is correct

### Designed for very low cost / single use

- Replaces screw cap closure (comprises 2 PP mouldings (of which one rotates)
- Design life exceeds pack size
- All wearing parts are disposed of with the empty pack
- Wide range of flow rates from 0.1ml/hr – 10ml/s.

### Gas Tight

- Pump will self-prime if empty on starting
- Pump can also be the primary seal
- Fully reversible
- Can pump in either direction (eliminates drips)

### High accuracy

- Better than  $\pm 3\%$  over entire range without software compensation
- Operates over a wide range of pressures



- Static seal from inlet to outlet > 3 bar
- Outlet pressure > 3 bar
- Inlet vacuum > -0.5 bar

### Compatible with a wide range of fluid viscosities

- Lotions, soaps, detergents, softeners

### Simple design integration

- Direct drive from stepper motor or
- Encoded DC motor and gearbox

".....Wal-Mart Stores, Inc. has announced plans to sell only concentrated liquid laundry detergents in all of its U.S.-based Wal-Mart and Sam's Club stores by May 2008.. The vow was made by LeeScott, president and CEO of Wal-Mart Stores, Inc., ... Says Scott, "What we have done is work with suppliers to take water... out of the liquid laundry detergent on our shelves."

The Company's goal is to be the catalyst for the transformation of the entire liquid laundry detergent category and save vast amounts of natural resources – approximately 400 million gallons of water, 95 million pounds of plastic and 125 million pounds of corrugated card over 3 years.

(Packaging World Magazine, December 2007, p.14. Written by Judy Rice)

For more information email [info@quantexpumps.com](mailto:info@quantexpumps.com) or visit our website

[www.quantexpumps.com](http://www.quantexpumps.com)

**quantex**