

VITAPUMP SYSTEM

Automated vitamin fortification for high-precision metering and documentation control

The VitaPump System is an automated vitamin fortification system designed for high-precision metering and documentation of vitamin usage.

The VitaPump printer, and controller/scale combination provides high accuracy metering enabling the user to avoid over fortification or under fortification and sends documentation used for QC, compliance and inventory purposes.

The VitaPump System can be remotely controlled using an external relay. Alternatively, all vitamin metering data can be displayed and archived on your PC or the printer that plugs directly into the VitaPump.



Features & Benefits

- Mobile design/small footprint
- Self-calibration
- Safe/ walk-away
- Operator friendly design
- Easily integrates with existing systems
- User-definable alarms
- Typical precision and long-term accuracy >0.5%
- Pre-tested for out-of-the-box use
- Capable of metering liquids with a maximum viscosity of 2000cP

Quality by Design

The VitaPump System was specifically designed to meet the vitamin fortification requirements set forth in the PMO Appendix 'O' recommendations of the milk processing industry. The continuously self-calibrating system has been used for metering of vitamins D, A & D, A & E in batch, as well as continuous milk processing applications. The amount of dispensed vitamin, as well as the long-term usage rate are displayed and printed out (Table 1).

Where the vitamin is injected into processing lines that have pressures up to 100 psi, the rotary piston model is recommended. The piston configuration has wetted parts of stainless-steel and ceramic. It is able to pump against a back pressure up to 100 psi and meets FDA 3A standards.



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Representative Sample Data

Vitamin D - 6.00g/m: Alarms: BW=2; PR=3; Limit: BW=0.000kg

Time	Total Weight - TW (kg)	Batch Weight - BW (kg)	Pump Rate - PR (g/min)	Status
T= 16:30	TW=0.000kg	BW=0.000kg	PR=6.00g/min	ST=Start
T= 16:35	TW=0.030kg	BW=0.030kg	PR=6.00g/min	ST=Run
T= 16:40	TW=0.060kg	BW=0.060kg	PR=6.00g/min	ST=Run
T= 16:45	TW=0.090kg	BW=0.090kg	PR=6.00g/min	ST=Run
T= 16:50	TW=0.120kg	BW=0.120kg	PR=6.00g/min	ST=Stop AL=PR
T= 16:51	TW=0.120kg	BW=0.120kg	PR=6.00g/min	Exit

Vitamin D - Several different labels available
 T - Real time counter: 24-hour format
 TW - Long term cumulative total weight value
 BW - Cumulative batch weight that resets at beginning of batch metering.
 PR - Gravimetric pump rate expressed in grams / minutes
 ST - Pump status
 AL - Alarm conditions

Options and Accessories

Piston Pump Heads

Pressure: 100 psi continuous
 100 psi max.
 Q1SAN Flow Rate: 0.54 - 42.7 ml/min

Tandem Pump Heads

Pressure: 25 psi continuous
 45 psi max.
 1081 Flow Rate: 0.5 - 554 ml/min

Accessories (if included)

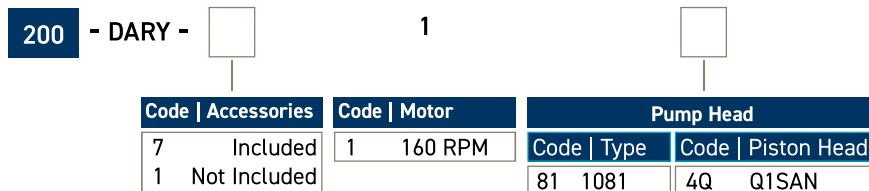
Mettler Toledo Viper 6: 6000g
 0.1g resolution

Fittings & tubing kit:

Food-grade Tygon®
 (tubing only rated to 35 PSI)

Printer

Ordering Information



Example: 200-DARY-714Q - VitaPump System - 120 VAC with scale, 160 RPM motor and piston head.

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