



SciLog VitaPump™ System

- automated vitamin fortification system

The VitaPump™ system provides automatic high precision metering and documentation of vitamin usage for QC, compliance and inventory.

The SciLog VitaPump™ system consists of a SciLog Smart VitaPump™, scale and printer. The VitaPump™ controller / scale combination provides high accuracy metering enabling the user to avoid over fortification or under fortification and send documentation to the printer or PC.

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 and 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



Note: VitaPump™ is a registered trademark of Parker Hannifin Ltd.

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.

Representative Data Sample

date of run

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

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

Table 1 - Sample of Documentation

Options and Accessories

Pump Heads: Piston

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

Pump Heads: SciLog Tandem

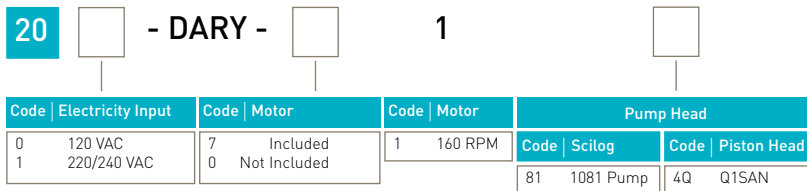
- Pressure: 25 psi continuous
45 psi max.
- 1081 Flow Rate: 0.5 - 554 ml/min

Accessories (included)

- Mettler Toledo Viper 6: 6000g
0.1g resolution
- Fittings & Tubing Kit: Food-grade Tygon®*
- Printer

*Tygon® tubing is only rated to 35 PSI

Ordering Information



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