

VERDERFLEX[®]
OEM

Verderflex[®] OEM[®]
Panel mounted peristaltic pumps



VEDDER
VERDER ▶
Solutions in Pumping Technology

Peristaltic Pumps

Peristaltic pumps provide excellent problem solving pumping solutions especially when the product is particularly abrasive, corrosive, shear sensitive or viscous.

With the following features and benefits it's no wonder that peristaltic hose and tube pumps are one of the fastest growing pump types in the world.

Seal-less design

Only the tube comes into contact with the fluid.

Low maintenance costs

Minimal costs incurred to replace pump tubing.

Dry running

Can run dry without any additional lubrication.

Self priming

The pumps are capable of self-priming and can handle products that are likely to "air" or "gas".

Gentle pumping action

The gentle pumping action means that peristaltic pumps are ideal for shear sensitive products such as cells.

Suction lift

The pumps also have high suction capabilities of up to 8m of water.

No slip

The pumps have no internal backflow giving accurate dosing without slip.

Accurate dosing

The pumps are accurate in dosing, they generally have a repeatability of $\pm 0.2\%$ and metering capabilities of $\pm 2\%$ (dependant upon the size of dose).

Verderflex[®] OEM range

Intended for panel mounting by Original Equipment Manufacturers (OEMs) in their own equipment. This range of peristaltic pumps available in A.C. and D.C. versions from small to large and robust, offers from minimum to maximum flow rates of 1.6 ml/min up to 2.2 L/min and all variations in between.

EZ



Featuring easy tube change system and stackable heads providing up to 3 channel pumping.

- Flow rates up to 1260 ml/min
- Permanent and brushless D.C. motor option provides speed/flow rate variations
- Typically used in air conditioning and refrigeration applications

M025



2 roller design for low flow dosing applications and intermittent duty. A low cost option for light duty operation.

- Flow rates up to 260 ml/min
- D.C. motor option provides speed/flow rate variations
- Typically used in air conditioning and refrigeration applications

M045



Proven 2 roller design for low flow A.C. or D.C. applications.

- Flow rates up to 60 ml/min
- D.C. motor option provides speed/flow rate variations
- Typically used in chemical dosing, sampling and analysis applications

M500



Used extensively in OEM applications with many options.

- Flow rates up to 730 ml/min
- 3 roller option
- D.C. motor option provides speed/flow rate variations
- Typically used in aquariums, chemical dosing and condensate removal applications

M1000



Patented cartridge design for dosing and flow control with quick tube change and autoclavable cartridges.

- Flow rates up to 768 ml/min
- D.C. motor option provides speed/flow rate variations
- Typically used in dairy processing, water treatment and dosing applications

M1500



Robust polycarbonate and polyimide casing.

- Flow rates up to 2240 ml/min
- D.C. motor option provides speed/flow rate variations
- Typically used in vending, chemical dosing and crop spraying applications

M2000



Higher flow rate version of patented cartridge pump for easy tube with autoclavable cartridges.

- Flow rates up to 1940 ml/min
- D.C. motor option provides speed/flow rate variations
- Typically used in effluent treatment, laundry equipment, chemical dosing

M3000



Robust design with thick wall tube for suction and pressure handling.

- Flow rates up to 4800 ml/min
- Fitted with a D.C. motor for speed/flow rate variations
- Typically used in printing, production dispensing and industrial detergent applications

Tube Selection

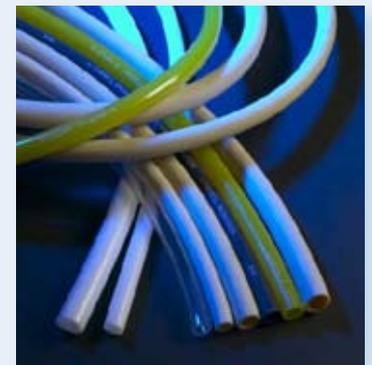
VERDER has a wide variety of purpose designed tubes which offer the ideal choice for every application. In our range we offer several standard materials with various diameters and thicknesses. Special tubes are available on request.

The following criteria are important when selecting a tube:

- Chemical resistance
- Food grade quality
- Tube life
- Physical compatibility
- Sterilisation methods

The following tube materials are available:

- **Verderprene** - FDA Food Grade Approval
USP Class VI bio-compatibility
Enhanced Tube Life
- **Prothane** - Process fluids
- **Silicone** - High temperature fluids
- **Tygon** - Aggressive chemicals
- **Viton** - High temperature
Aggressive chemicals



Max - Flow Rates ml/min (US GPH)

Motor Choice	EZ	M025	M045	M500	M1000	M1500	M2000	M3000
Shaded Pole A.C.	1260 (20)	250 (4)	40 (0.6)	731 (11.6)	768 (12.2)	1642 (26)	1425 (22.6)	
Synchronous A.C.				90 (1.4)				
IP20 Induction A.C.						1679 (26.6)		4799 (76)
IP55 Induction A.C.								3834 (60)
Fixed Speed D.C.	840 (13)		60 (0.95)					
Permanent Magnet D.C.		120 (2)		675 (10.7)	768 (12.2)	1642 (26)	1425 (22.6)	
High Flow D.C.		260 (4)						
Brushless D.C.				303 (4.8)		1259 (20)		
Permanent Magnet D.C. Worm drive					768 (12.2)	2239 (35.5)	1944 (30.8)	3408 (54)

The Verderflex® Series

Verderflex®

- Operating pressures to 16 Bar/230 PSI and flow rates to 90m³/hour (390 US GPM)
- Simplified hose connection for easy maintenance
- Specially designed hose construction for longer hose service life
- Supplied in close coupled or long coupled (bare shaft) styles
- DIN, ANSI and JIS flanges or hygienic compliant connections
- Certified to EHEDG standards for use in the food and drinks industry
- Can be supplied with pulsation dampers
- Supplied with a 2 year warranty covering any defects in workmanship and material under normal use



Verderflex® Dura

- Flow rates from 14 l/h (0.06 US GPM) to 1700 l/h (0.75 US GPM)
- Maximum discharge pressures up to 12 bar (174 PSI)
- Longer hose life †
- Quick & easy maintenance †
- Close coupled pump with long coupled advantages
- 70% smaller footprint †
- Up to 25% reduction in operational noise †

† compared with comparable products



Verderflex® Smart Tube Pump

- Flow rates from 0.25ml/min (0.004 US GPH) to 27 l/min (428 US GPH)
- Maximum discharge pressures up to 4 bar (60 PSI)
- Four sizes of IP 55 digitally controlled programmable multi channel tube pumps
- Industrial style F series design using standard gear motor unit & optional inverter for process plants
- Wide range of tube materials including Verderprene and Silicone
- Easy-fit self adjusting tube saddle
- External interfaces : 0-10V, 4-20 mA, RS 232



Verderflex® Scientific Tube Pumps

The Verderflex® Scientific range of cased pumps are ideally suited to benchtop pumping applications for the accurate dosing of abrasive, corrosive, shear sensitive and viscous fluids. Providing flow rates from a few ml/min up to 3.2 l/min.

- Providing exceptional dosing accuracy
- Can pump abrasive, viscous, shear sensitive and harsh fluids
- With tubes to suit food, chemical, and industrial applications
- Total product containment within leak free, hygienic tubing
- Quick & reliable tube change
- Easy to operate and maintain



OEM pump applications

Applications examples

- Crop spraying
- Condensate removal
- Detergent dosing
- Vial & bottle filling
- Chemical dosing
- Effluent treatment
- Dosing enzymes, preservatives
- Control sampling
- Colour dosing
- Dosing medicines

