



VERDERFLEX

Delivery Program Peristaltic Pumps

**Any questions?** You may still have questions and/or comments after reading this brochure. Please feel free to contact us on +44 (0)113 222 0281. You can also respond via email to [info@verderflex.com](mailto:info@verderflex.com). For more information about Verderflex please visit our website [www.verderflex.com](http://www.verderflex.com)





## Verderflex Peristaltic Pumps



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*Verderflex is an important product for the Verder group and is active in many industries: chemicals, food, environment, water, mining and general industry, we also offer excellent OEM solutions. Within these industries pump requirements vary enormously and applications and needs change frequently. In order to ensure we provide the best solutions we analyse and monitor industrial trends as well as maintaining close relationships with our customers.*



### The advantages of working with Verderflex

#### ■ **Single source solutions**

a wide and complementary range of pumps allows you to source your pumping needs from one company, reducing your costs

■ **Expertise** years of experience providing pumping solutions have given us valuable expertise and knowledge which we are able to use to supply the most appropriate and reliable pumps

#### ■ **Confidence**

International affiliated company gives you the confidence with a substantial pump company and if your project involves overseas work then you can benefit from our international network of over 40 external and group distributors on all five continents.

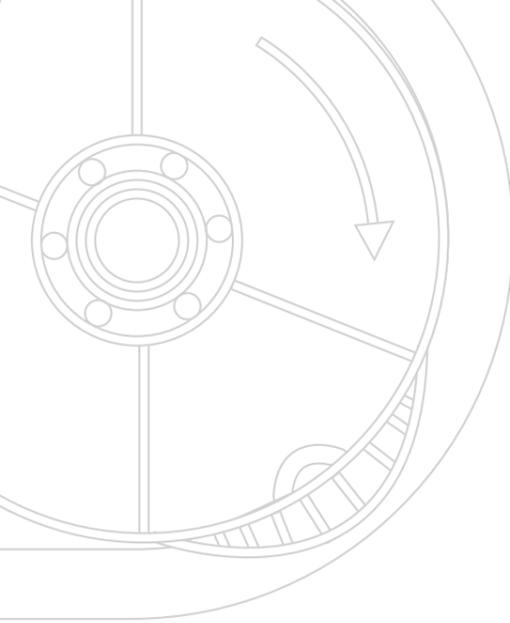
Verderflex® peristaltic hose pumps and tube pumps are the ideal solution for pumping liquids. Ranging from smaller pumps for use in Original Equipment Manufacture (OEM) such as vending machines, benchtop and industrial tube pumps, up to the world's largest hose pumps for use in very heavy industrial applications.

### Why choose a Verderflex Peristaltic Pump

Peristaltic pumps provide excellent problem solving pumping solutions especially when the product being pumped is particularly abrasive, corrosive or viscous. Their lack of valves, seals and glands makes them inexpensive to maintain,

the only maintenance item is the hose or tube. Peristaltic pumps also have a gentle pumping action, ideal for shear sensitive polymers and fragile cell cultures. Lastly, the only part of the pump in contact with the fluid being

pumped is the interior of the tube or hose, making it easy to sterilise and clean the inside surfaces of the pump.



**Seal-less design**

Peristaltic pumps have no seals avoiding issues such as leaks of corrosive chemicals and ongoing maintenance.

**Low maintenance costs**

The only replacement part is the hose or tube a relatively low cost item that can be easily changed in a short time.

**Dry running and self priming**

Peristaltic pumps do not require pumped fluid to be continually present pumps can run dry, without costly downtime or repairs. The recovery of the hose or tube creates a powerful self-priming action and allows the pumps to move liquids containing entrapped air or that can offgas.

**Gentle pumping action**

Peristaltic pumps have a gentle, low shear pumping action, ideal for shear sensitive products including flocculants and broths.

**High suction lift**

The powerful suction provided by the recovery of a re- enforced hose gives hose pumps suction lift capabilities up to 9.5m of water.

**Abrasion resistant**

Hose life is not related to a product's abrasive qualities. The hose only fails due to fatigue or chemical action.

**Solids handling**

Verderflex hose pumps can pump slurries containing up to 80% inorganic solids or 15% organic sludge.

**Reversible**

Peristaltic pumps are reversible and can be used to empty lines or clear blockages.

**No slip**

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

**Accurate dosing**

The pumps are accurate in dosing, they have a repeatability of ±1% and metering capabilities of ±5%.

**Hygienic**

Certified to EHEDG standards for use in the food and drinks industry, pharmaceutical industry and other sanitary related applications.



# Hose pumps

Verderflex hose pumps provide the solution to the most demanding jobs. The VF range includes the world's largest hose pump and is capable of flow rates up to 90m<sup>3</sup>/hr or 390 US GPM. These pumps can handle highly viscous and abrasive fluids.



The innovative Dura hose pump has a smaller footprint and a design that gives you the best possible performance from a peristaltic hose pump. Both are

suited for heavy duty applications such as water and wastewater slurry, mining applications where there is often a high solid content and for accurate dosing. The

enhanced hose design ensures that any Verderflex hose pump handles the toughest jobs with the minimum downtime.

**Verderflex VF**

The original Verderflex peristaltic hose pump with 12 models available.

Flow rates	up to 90m <sup>3</sup> /hr or 390 US GPM
Pressures	up to 16 Bar or 230 PSI
Hoses	EPDM, NR, NBR, NBRF and CSM hoses
Additional	largest high pressure hose pump in the world



**Benefits**

- **Abrasion resistant** VF pumps are naturally rubber lined and hose life is independent of a product's abrasiveness such as lime or Silicon Carbide pastes
- **Dry running** VF pumps are operator proof, eliminating costly downtime such as the burnt stators of progressing cavity pumps
- **Self priming** the powerful suction of VF pumps allows the pump to self prime
- **Can pump liquids that off-gas** – peristaltic pumps have none of the vapour lock problems associated with dosing pumps
- **Accurate and repeatable dosing performance** processes run as designed
- **Can pump high SGs liquids** ideal for mining slurries and similar high solid content liquids
- **Low maintenance costs** only the hose and lubricant are service items and the Verderflex hose gives the longest hose life in the industry
- **Gentle pumping action** ideal for shear sensitive flocculants and bacterial cultures
- **Disaster proof hose connection** that totally contains product inside the pump after a hose burst

**Applications**

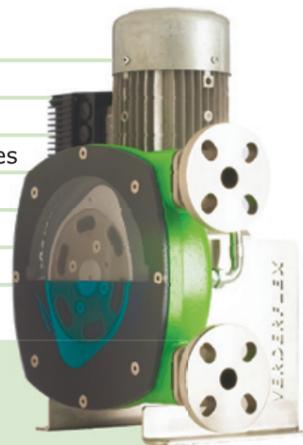
- Brewing
- Chemical Processing
- Mining
- Water and wastewater



### Verderflex Dura

The Verderflex Dura is the first real advance in hose pump technology since the high pressure hose, combining the compactness of a close coupled pump with all the benefits of the traditional long coupled pump.

Flow rates	from 3 l/hour or 0.8 US GPH up to 5,488 l/hour or 24.16 US GPM
Discharge press.	up to 16 Bar / 230 PSI
Hoses	EPDM, NR, NBR, NBRF and CSM hoses
Feature	Air gap between pump casing and gearbox for zero risk of cross contamination

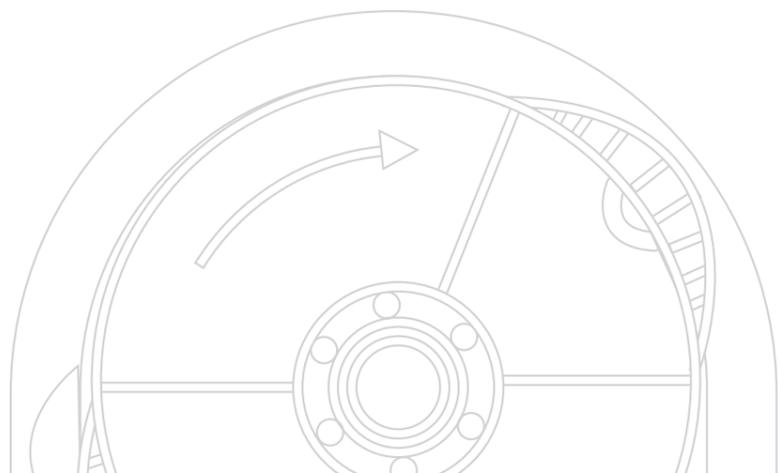


### Benefits

- Air gap between pump casing and gearbox for zero risk of cross contamination
- Typically 40% longer hose life, increasing maintenance intervals with only the hose & lube as a service items
- Innovative hose & rotor designs reduce running torque lowering power requirements
- Driveshaft and rotor automatically centred on dual bearing hub removing radial load from gearbox and giving quieter operation
- Revolutionary disaster proof, one piece flange connection speeds up hose changeovers reduces downtime
- Long coupled gearbox independently slides onto keyed shaft maximising serviceability and giving user choice of gearbox brand
- Ultra compact design – the Dura has a 70% smaller footprint than other hose pumps with a similar flow rate
- Low parts count for ease of maintenance

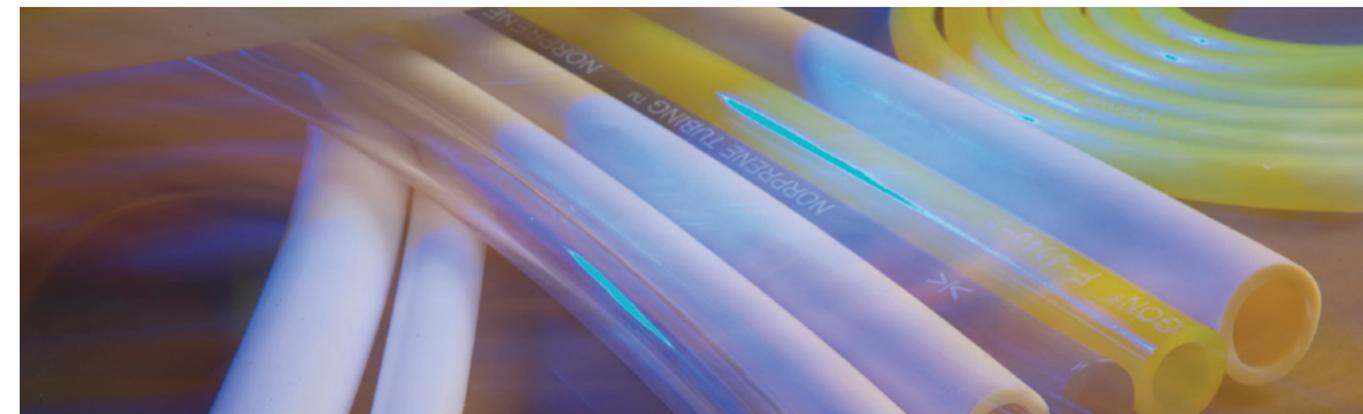
### Applications

- Brewing
- Chemical Processing
- Mining
- Water and wastewater



## Tube pumps

Tube pumps are perfect when you require a lower flow rate. The Smart and Scientific range are both fully programmable with the option for multiple heads. These tube pumps provide accurate dosing and repeatability. Capable of handling viscous and chemically aggressive liquids as well as shear sensitive products, tube pumps are a hygienic pumping solution for dosing chemicals, inks, food and drinks.



### Smart Tube Pumps

The easy to use Verderflex Smart tube pump is capable of pumping viscous, abrasive and chemically aggressive liquids. Ergonomically designed, the Verderflex Smart can be operated whilst wearing gloves and has a unique tube fastener design. A wide selection of tube options are available.

Flow rates	from 0.25 ml/min or 0.24 US GPH up to 27 l/min or 428 US GPH per head
Pressure range	0-4 bar or 58 PSI
Options	remote control & dispensing options
Tubing	selection of tubing options
Features	tube changeover in seconds



### Benefits

- High repeatability programmable dosing tube pump
- Easy fit tube saddle for rapid tube changes
- Expandable to a maximum of 4 pump heads
- 3 Roller or optional low pulsation 6 Roller heads
- Safety interlock stops the drive whenever saddle is removed
- In-line tube arrangement, providing a kink free pumping solution
- Manual, remote and programmable versions available
- Robust powder coated aluminum housing (IP55)
- Ergonomic design – can be operated whilst wearing gloves
- Clear, easily read illuminated display

### Applications

- Chemical
- Food and Beverage
- Pharmaceutical
- Printing and Packaging
- Water and Wastewater

### Scientific Tube Pumps

The programmable pump can dose single or repeat volumes, with a user defined time interval between jobs. Total pumping accuracy can be achieved using the calibration mode with a run back option to prevent spillages of hazardous liquids. Wide selection of tube options available.

Flow rates	from 0.8 ml/min up to 1.3 l/min or 20.6 US GPH
Available	programmable & remote control versions, Multiple head versions
Optional	IP66 protected enclosure
Features	quick and easy tube change



#### Benefits

- Zero contamination – the fluid is hygienically contained within the pump tubing
- Gentle self priming pumping action, ideal for pumping shear sensitive cultures and broths
- Simple and quick tube change over
- Stackable heads with simple lock feature
- High repeatability – accuracy typically is  $\pm 2\%$  but can be as good as  $\pm 0.5\%$ , with no product slip
- Manual, analog and digital control options
- Brushless D.C. motor for 24 hour low noise use
- Washdown IP66 enclosure option available for the harshest of environments
- Heavy duty versions with robust pump heads available
- Sterilization is usually by gamma irradiation, autoclaving or ethylene oxide.

### Industrial Tube Pumps

The Industrial series has been developed to offer simple, reliable and cost effective pumping solutions for industrial applications. Range includes the Verderflex Smart and Smart F series as well as the Verderflex Industrial range

Flow rates	0.25 ml/min to 27 l/min or 0.24 US GPH to 428 US GPH
Pressure range	0-4 bar or 58 PSI
Options	Wide range of motor power



#### Benefits

- Compact and easy to use
- Can be integrated into third party equipment such as printing presses
- Designed for industrial environments
- Optional for high precision / low pulsation 6 roller heads
- Some versions allow up to 4 stackable heads with rapid tube changing
- ATEX versions to special order
- Smart Industrial range can be used with variable frequency drives(VFDs) or inverters
- Optional DC powered, UL and CSA approved and hazardous area duty motors

#### Applications

- Chemical
- Pharmaceutical
- Benchtop laboratory processing



#### Applications

- Chemical processing
- General Manufacturing
- Printing and Packaging
- Original Equipment Manufacture
- Process Control Systems

## Peristaltic OEM Pumps

A selection of tube and hose pumps intended for use in Original Equipment Manufacture (OEM). The OEM panel mounted tube pumps can fit almost any application and are found dosing detergents, chemicals and medicines, accurately filling bottles or in drinks vending machines.



### Peristaltic OEM Pumps

A selection of custom pump designs, motor options and tubing, the Verderflex OEM range can be configured into an optimal solution for any high volume OEM pump requirement. Options available include:

Flow rates	vary from 1.6 ml/min to up to 2.2 l/min
Motors	A.C. and D.C.
Channels	Multiple

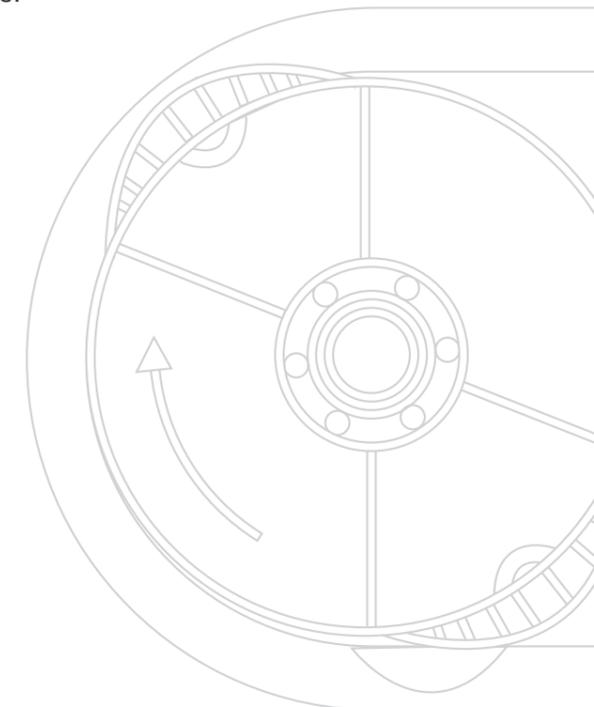


#### Benefits

- Various roller designs
- Wide selection of tubing materials
- Light and heavy duty designs
- A pump type to fit almost every application

#### Applications

- Printing
- Packaging
- Chemical Dosing
- Washing machines
- Vending machines
- Air conditioning units
- Water treatment systems





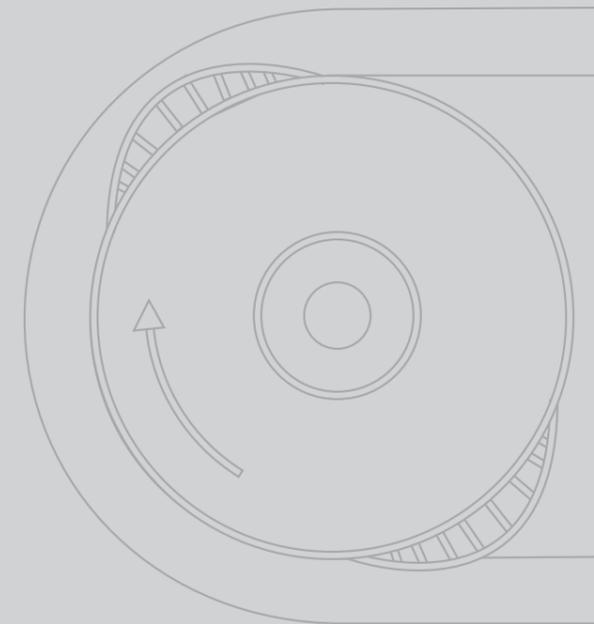
## Contact Verderflex

*If you would like to know more about Verderflex peristaltic pumps then please visit our website [www.verderflex.com](http://www.verderflex.com). You will find the full breakdown of our pump range as well as application stories, latest news and technical datasheets.*

Verder Ltd  
Whitehouse Street  
Leeds  
LS10 1AD  
+44 (0)113 222 0281  
[info@verderflex.com](mailto:info@verderflex.com)

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You can find your local distributor on our website at <http://www.verderflex.com/Contact>.



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