

VERDERFLEX FLEXIBLE AND RELIABLE

VERDERFLEX®



## VERDER OEM PUMP PROGRAM

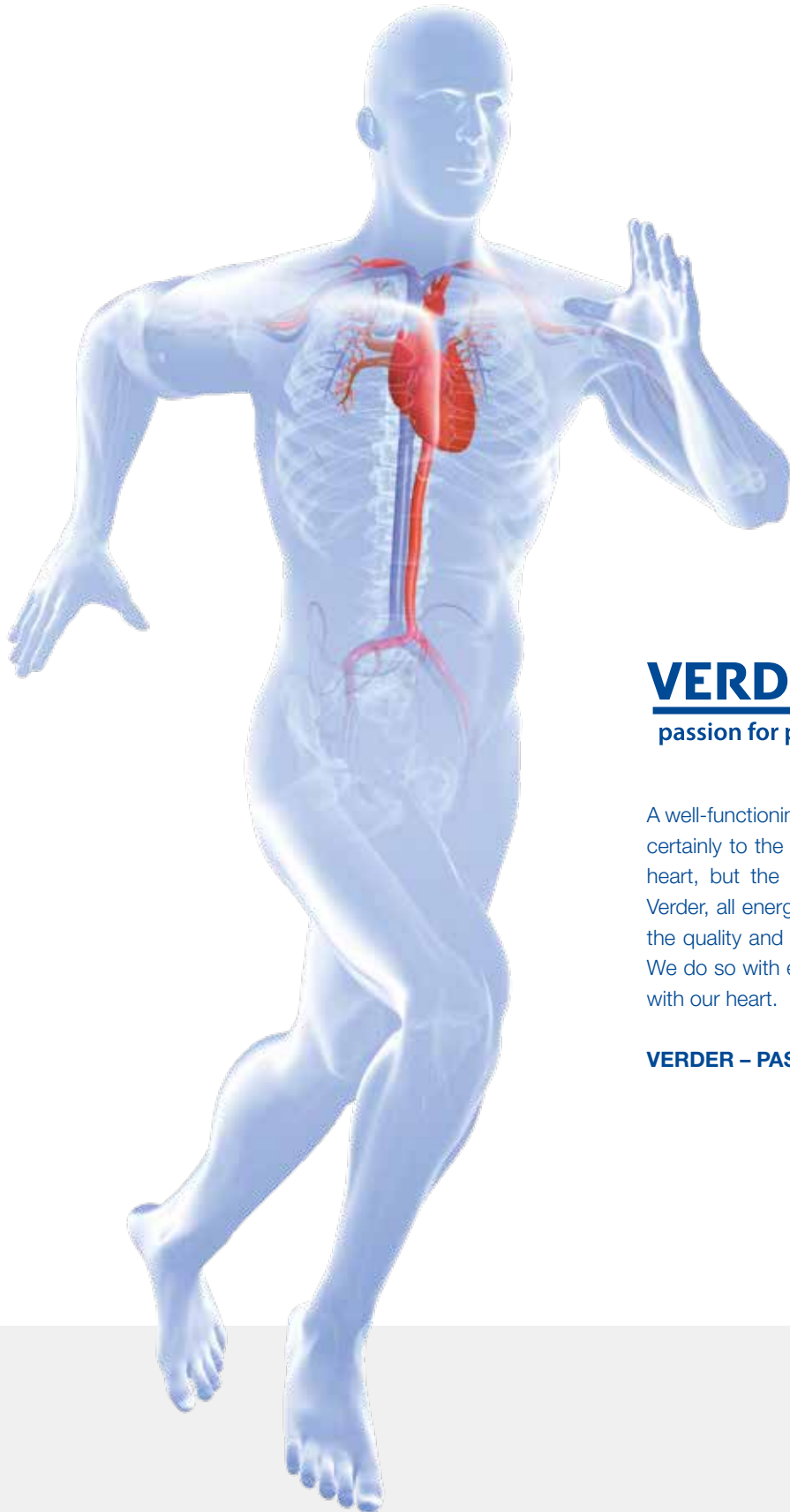
Peristaltic OEM tube pumps



### Benefits

- Large range in capacities, motors and materials
- Easy tube change
- Fully adaptable to customers' specifications

**VERDER**  
passion for pumps



## **VERDER**

passion for pumps

A well-functioning pump helps you succeed. That applies certainly to the most important pump in life, the human heart, but the same goes for pumps in business. At Verder, all energy and attention is focused on improving the quality and performance of our pumps and service. We do so with energy, dedication and most importantly, with our heart.

**VERDER – PASSION FOR PUMPS**



## THE VERDER GROUP

- 1 Company
- 28 Countries
- 60 Years of expertise
- Global network
- Local distributors
- In-house service & maintenance
- A solution for every application

*The Verder group is a family owned business established 60 years ago in the Netherlands; the group consists of a worldwide network of production and distribution companies. Group companies are involved in the development and distribution of industrial pumps, pumping systems, high-tech equipment for quality control, research and development into solid material (solids sample preparation and analytical technologies). The Verder Group employs over 1600 people and has an annual turnover close to 400 million Euros.*

## Verderflex OEM peristaltic tube pumps

Verderflex OEM peristaltic tube pumps are ideal for a wide range of applications. The sealless and self-priming design make the pump very easy to service and very reliable.

A wide choice of motors on different speeds makes the pumps adaptable to any system. Built-in sizes are small. However, we realise that a standard pump sometimes is not the best solution for your case; Verder Liquids is more than happy to develop a tailor made pump with you.





## AT A **GLANCE**

*When a standard pump doesn't do the job in your application, e.g. the built-in size is limited or the pumped liquid is delicate, there always is the possibility to adapt the pump to your specifications.*

### **Housing**

*Customized colour schemes  
Various materials for adaption to specification  
Small build-in sizes  
Cartridge pump head on M60 for easy replacement  
Stackable heads on EZ and Mini-Load*

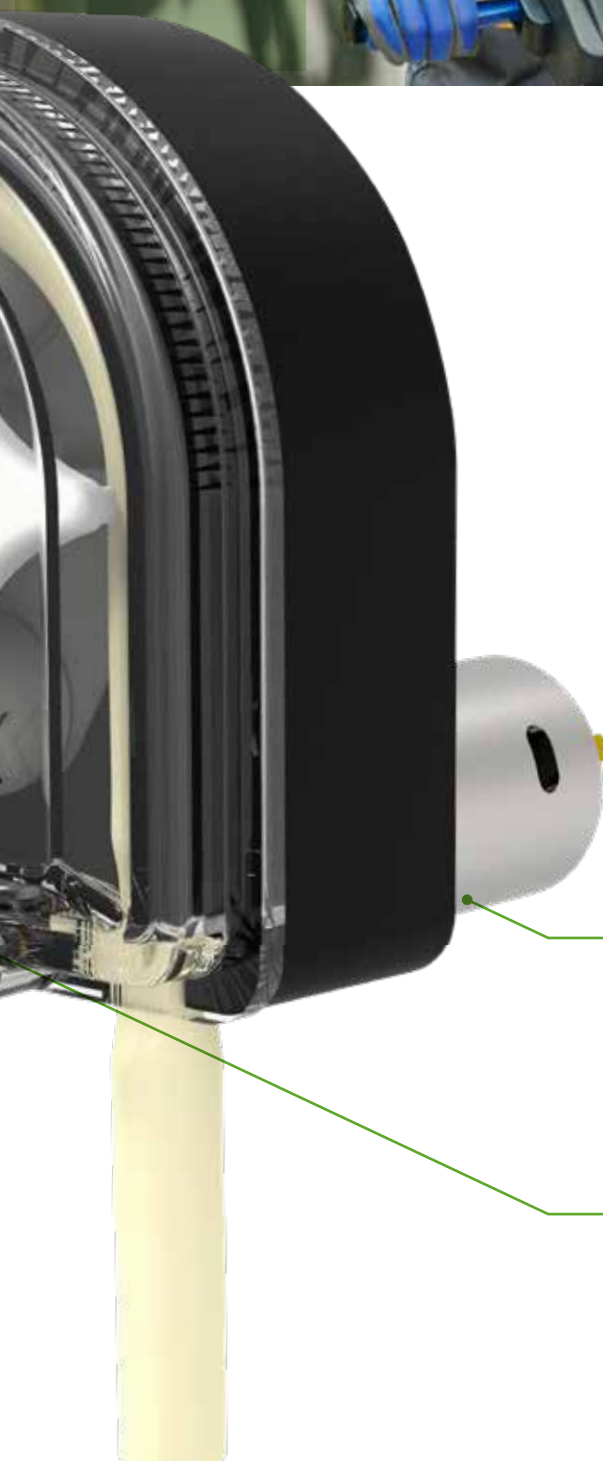
### **Roller & Roller Holder**

*2 Rollers standard  
Various materials  
More rollers for more accurate and less pulsating dosing*

### **Tubing**

*Flow rates from a few millilitres to 3.4 litres per minute  
Various inner and outer diameters  
Materials: Verderprene, Silicone, Viton® or Tygon®  
Seven tube sizes: from 0.8 mm to 8.0 mm inside diameter*





## Pump applications

*OEM peristaltic dosing pumps are applied in a large range of industries. Some typical applications are:*

- Dish- and warewashing
- Vending machines
- Dairy processing
- Air conditioning
- Refrigeration
- Chemical dosing
- Pharmaceutical dispensing
- (Medical) sampling
- Pool & spa
- Condensate removal
- Water treatment
- Fertilizing
- Printing
- Bottle filling

### **Motors & Gearboxes**

*Various voltages*

*Application of gearboxes to adapt to customer requirements*

*Brushless for continuous duties*

### **Connections**

*Standard connections for economical tube changes*

*Hygienic connections for food industry*

*Continuous tubing without connections for less contamination*



## VERDERFLEX **TUBE PUMPS**

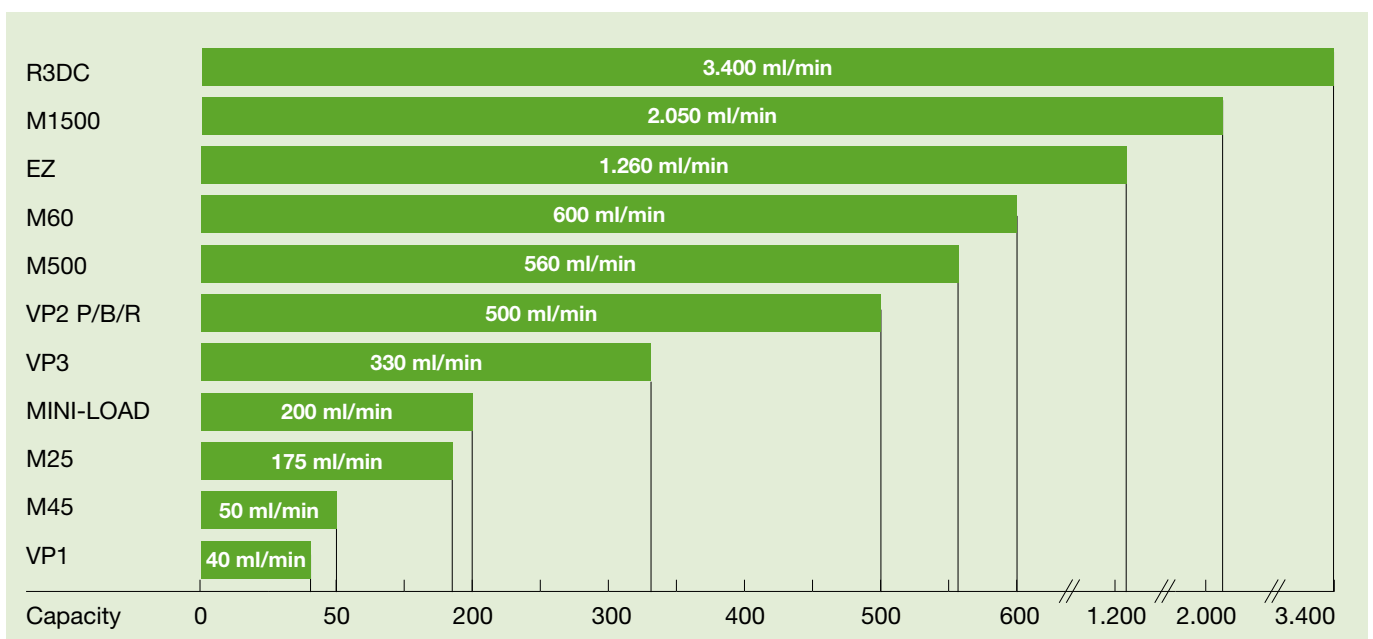
### How does a **peristaltic pump** work?



Peristaltic pumps work by alternating compression and relaxation of a tube, drawing fluid in and propelling it away from the pump. A rotating shoe or roller passes along the length of the hose or tube creating a seal between the suction and discharge sides of the pump. As the pump's rotor turns this sealing point moves along the tube displacing product into the discharge line.

The tube recovers after the pressure has been released, creating a vacuum. This is the priming mechanism, which draws the product into the suction side of the pump. Combining these suction and discharge principles results in a powerful self-priming positive displacement action.

### Verderflex **Performance Overview**



## THE PERISTALTIC **PUMP PROGRAM**

### VP1

Peristaltic pump with fixed flow rate and has a very small footprint.

<i>Max. flow</i>	40 ml/min
<i>Options</i>	3 or 4 rollers
<i>Max. pressure</i>	2 bar
<i>Rotor</i>	2 Delrin rollers
<i>Voltage</i>	12/24Vdc, 110V 60Hz, 230V 50Hz
<i>Tube materials</i>	Santoprene, Silicone or Viton®
<i>Tube dimensions [mm]</i>	Santoprene, Silicone: 4 x 7 Viton®: 3.2 x 6.4



### M045

The M45 is a proven two-roller, low flow rate pump with a range of AC and DC motor powers and speed options, making it the ideal choice for applications with speed and flow rate variations.

<i>Max. flow</i>	50 ml/min
<i>Options</i>	3 rollers, encoder
<i>Max. pressure</i>	2 bar
<i>Rotor</i>	2 Nylatron rollers
<i>Voltage</i>	12/24Vdc, 110V 60Hz, 230V 50Hz
<i>Tube materials</i>	Santoprene, Silicone, Viton® or Tygon®
<i>Tube dimensions [mm]</i>	1.6 x 4.8 / 3.2 x 6.4 / 4.0 x 7.2







## M025

The M25 has a small foot print and a flip top front cover. No tools are needed to change a tube.



<i>Max. flow</i>	175 ml/min
<i>Options</i>	3 rollers, encoder
<i>Max. pressure</i>	2 bar
<i>Rotor</i>	2 Nylon rollers
<i>Voltage</i>	12/24Vdc, 230V 50Hz
<i>Tube materials</i>	Santoprene, Silicone, Viton® or Tygon®
<i>Tube dimensions [mm]</i>	1.6 x 4.8 / 3.2 x 6.4 / 4.0 x 7.2 / 4.8 x 8.0

## Mini-Load

The flip top Mini-Load pump uses the patented snap-in tube clamp technology to match assembly requirements and eliminate user confusion. Available in standard and double head option. Due to the four roller design, dosing is accurate and relatively pulse-free.



<i>Max. flow</i>	200 ml/min
<i>Options</i>	Brushless (24Vdc), encoder, open door detection
<i>Max. pressure</i>	2 bar
<i>Rotor</i>	4 PTFE rollers
<i>Voltage</i>	12/24Vdc, 230V 50 Hz
<i>Tube materials</i>	Verderprene, Silicone or Viton®
<i>Tube dimensions [mm]</i>	0.8 x 4.0 / 1.6 x 4.8 / 3.2 x 6.4 / 4.8 x 8.0





### VP3

Peristaltic pump with fixed flow rate. Innovative mechanism centred on tubing for longer life time and more accurate dosing. A mounting bracket allows for easy installation into existing systems.

Max. flow	330 ml/min
Options	Food connection, integrated non-return valve
Max. pressure	3 bar
Rotor	2 Delrin rollers
Voltage	12/24Vdc, 110V/230V 50/60Hz
Tube materials	Santoprene, Silicone or Viton®
Tube dimensions [mm]	Santoprene and Silicone: 5 x 10 / 5.8 x 9.4 / 6.4 x 9.6, Viton®: 4.8 x 8.0



### VP2

Peristaltic pump with fixed flow rate. The VP2 R is adjustable from 0 to 100% by a trimmer.

Max. flow	500 ml/min
Options	Food connection, cased version (B) and speed adjustable version (R), 3 rollers.
Max. pressure	3 bar
Rotor	2 Delrin rollers
Voltage	12/24Vdc, 110V/230V 50/60Hz, 20-260V
Tube materials	Santoprene, Silicone, Viton® or Tygon®
Tube dimensions [mm]	4.8 x 9.6 / 5.8 x 9.4 / 6.4 x 9.6 / 5 x 10





## M500

The M500 is a widely used pump with a robust design.



<i>Max. flow</i>	560 ml/min
<i>Options</i>	3 rollers, forced fan (110/230V)
<i>Max. pressure</i>	2 bar
<i>Rotor</i>	2 Nylatron rollers
<i>Voltage</i>	12/24Vdc, 110V/230V 50/60Hz
<i>Tube materials</i>	Verderprene, Silicone, Viton® or Tygon®
<i>Tube dimensions [mm]</i>	1.6 x 4.8 / 3.2 x 6.4 / 4.8 x 8.0

## M60

The M60 is a pump with snap on tube cartridge designed for high volume requirements.



<i>Max. flow</i>	600 ml/min
<i>Options</i>	3 or 4 rollers, Nylatron or Delrin
<i>Max. pressure</i>	2 bar
<i>Rotor</i>	2 Delrin rollers
<i>Voltage</i>	12/24Vdc, 230V 50/60Hz
<i>Tube materials</i>	Verderprene or Silicone
<i>Tube dimensions [mm]</i>	1.6 x 4.8 / 3.2 x 6.4 / 4.8 x 8.0 / 4.0 x 7.2





## EZ

The EZ is a high flow flip top pump with an easy tube change system. The pump heads are stackable. A brushless motor is available for continuous duty.

Max. flow	1.260 ml/min
Options	Brushless (24 Vdc)
Max. pressure	2 bar
Rotor	3 Nylatron rollers
Voltage	12/24Vdc, 110/230V 50/60Hz
Tube materials	Verderprene, Silicone, Viton® and Tygon®
Tube dimensions [mm]	1.6 x 4.8 / 3.2 x 6.4 / 4.8 x 8.0 / 6.4 x 9.6 / 8.0 x 11.2



## M1500

The M1500 is a high flow pump with a robust polycarbonate ABS blend casing.

Max. flow	2.050 ml/min
Options	Forced fan (only 110/230V, 50/60Hz)
Max. pressure	2 bar
Rotor	2 Pom rollers
Voltage	12/24Vdc, 110/230V 50/60Hz
Tube materials	Verderprene, Silicone, Viton® or Tygon®
Tube dimensions [mm]	6.4 x 11.2 / 8.0 x 12.8

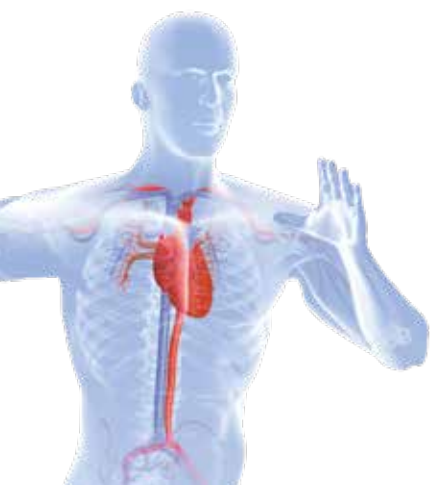
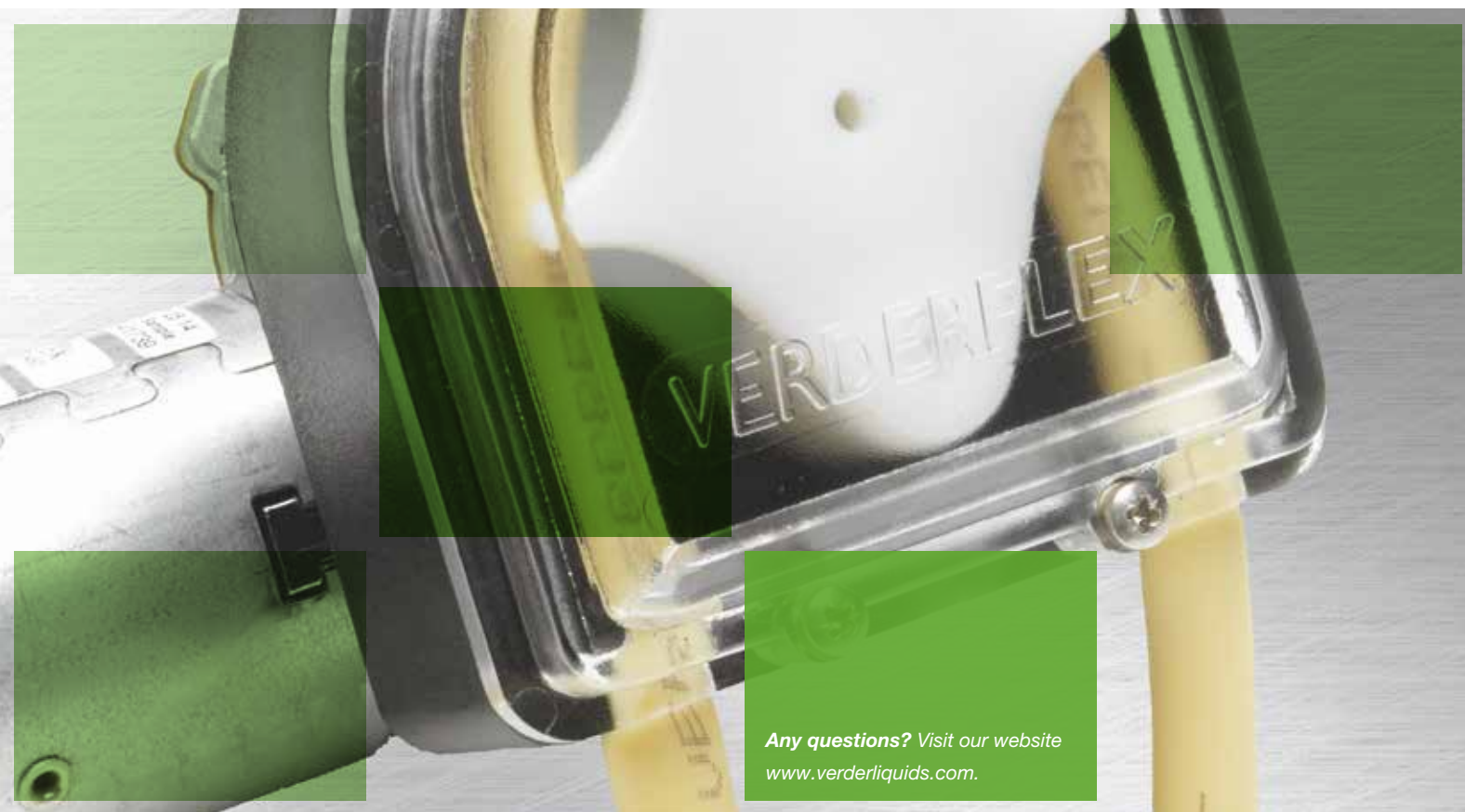


## R3DC

The R3DC is a large capacity OEM pump. The heavy duty aluminium housing makes the pump extremely durable.

Max. flow	3.400 ml/min
Max. pressure	2 bar
Rotor	2 Nylatron® rollers
Voltage	12/24 Vdc
Tube materials	Verderprene or Silicone
Tube dimensions [mm]	6.4 x 3.2 / 8.0 x 3.2 / 9.6 x 3.2





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