

**VERDERFLEX<sup>®</sup>**  
**DURA**

**Verderflex DURA**  
Peristaltic Hose Pump

**VEDDER**  
**VERDER** 

Solutions in Pumping Technology





# Verderflex DURA

With the introduction of the new Verderflex DURA range of pumps, The Verder Group has moved its range of peristaltic hose pumps to a new level.

The DURA series form a new generation of smaller hose pumps, namely the DURA10, DURA15 and DURA25, based on an innovative, close-coupled design. The features of this pump surpass all other hose pumps giving Verder the world's most reliable, robust pump with exceptional dosing features.

## DURA's Unique Design

Verderflex's contribution to your productivity with its new generation pumps, simply serves to highlight our commitment to solutions in pumping technology.

- The rotor is mounted on a drive shaft, which is located on a dual bearing hub. The bearing construction is 'greased for life' and centrally absorbs the forces released in the pump. This results in quieter operation and a more durable pump and drive. The unique drive shaft has been designed to dramatically reduce the loading on the gearbox and motor.
- The DURA series has an ultra-compact construction, which dramatically reduces required floor space by up to 70% in contrast to other comparable pumps.
- The DURA range of pumps are easy to install, virtually maintenance free and comply with ATEX standards. The hose and lubricant are the only components, which will eventually need to be replaced.
- A significant reduction in operating temperature leads to improved hose life when compared to an equivalent pump type.
- Other features specific to this pump include the improved frame design and a one-size-fits-all slotted flange solution, incorporating ANSI, JIS & DIN to connect the Verderflex DURA pump to the pumping station. The entire range incorporates a rapid change taper-lock flange, which is suitable for pressures of up to 12 bar.

With high corrosion and abrasion resistance and an extended hose life, there can be no question that this pump is a real breakthrough in pumping technology.

## Technical Information

	Max Speed	Max Power		Flow Rates		Max Pressure	
	(RPM)	(kW)	(HP)	Min (l/h)	Max(l/h)	(bar)	(PSI)
<b>DURA10</b>	100	0.15	0.11	13.9	139.2	12	174
<b>DURA15</b>	100	0.39	0.29	45.6	456.0	12	174
<b>DURA25</b>	100	1.15	0.86	170.5	1705.2	12	174



## Why buy a Verderflex DURA Peristaltic Hose Pump?

- A fast and simple drive change ensures maximum 'Up-Time' reducing maintenance costs.
- The quieter action and GMU (Gear Motor Unit) gives improved Health and Safety benefits.
- The unique design has increased the efficiency of the pumping process, reducing the size of the motor and gearbox which takes up 70% less plant real estate than a current equivalent product
- The Dura range of pumps requires less energy to run efficiently and therefore energy costs are reduced
- Other benefits offering increased reliability and in turn reducing overall maintenance costs include a torque-only coupled drive, no overhung load and, finally, the drive shaft bearings are mounted and sealed within the housing.
- A one piece taper-lock flange connection offering a quick and reliable hose change.
- The universal slotted flange gives a one-size-fits-all solution for ANSI, JIS & DIN eliminating the need for multiple stock items.
- Reduced operating temperature leads to improved hose life when compared with an equivalent hose pump.
- No shimming is required.
- The reduced number of parts ensures ease of maintenance and lower product lifetime costs.
- Potential blockages at suction port - pump can run dry and be reversed to unblock the suction line

## Application Areas

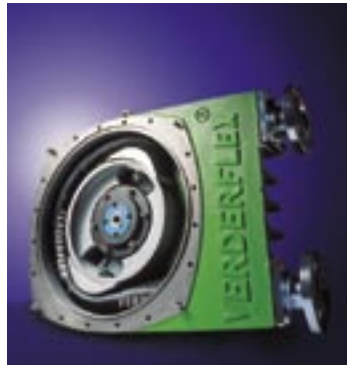
The DURA series is ideally suited to a wide range of application areas where excessive demands are required of the pumping system.

- Ideal for use with abrasive and corrosive media.
- No seals or rotating parts come into contact with the product being pumped
- Shear sensitive applications - the gentle peristaltic action does not damage your product
- Crystallising media - no valves or glands where crystals can build up and block the pump
- Dosing requirements - absence of product slip in the hose gives a 100% volumetric efficiency
- Low maintenance solution - the hose is the only wearing part ensuring minimal downtimes.
- Highly viscous products - exceptionally high suction levels allow transportation of high viscosity liquids.
- Self-priming applications - the pump can be run dry
- Products with high concentration of solids - up to 80% solid content can be handled, e.g. in mining applications
- Explosive environment - no metal to metal contact in the pump

# The Verderflex Range

## The Verderflex Pump Range

- Verderflex pumps have flows from 2 l/hour (0.2 US Gallons per Hour) to 90m<sup>3</sup>/hour (390 US GPM)
- Discharge pressures up to 16 bar or 230 PSI
- Pumps can be supplied in either close coupled or long coupled (bare shaft) styles
- System connections include DIN PN16, ANSI 150lb and JIS
- EHEDG certified hygienic connection options include Tri-Clamp, RJT, ILC, IDF, DIN 11851 and DIN 11864, all with integral 316 Stainless Steel inserts
- Can be supplied with accessories including pulsation dampers, dosing controllers, even as complete dosing or transfer stations
- Clearly defined operating pump operation and cleaning protocols can be provided as part of the system design process



## The Verderflex Hose

- 12 standard hose sizes from 5mm (3/16") to 125mm (5")
- All are designed to maximise hose life by optimising the hose's fatigue strength
- Hoses are available in Natural Rubber, Nitrile Buna Rubber (NBR), Food Grade NBR, EPDM and Hypalon®
- Hoses have colour coded identification tape bonded into the outer cover during manufacture to clearly identify material type



## Verderflex Smart Tube Pump

- Flows from 0.25ml/min (0.0004 US GPH) to 15.5 l/min (161.7 US GPH)
- Maximum discharge pressures up to 2 bar (60 PSI)
- Four sizes of IP 55 protected digitally controlled programmable multi channel tube pumps
- Wide range of tube materials including Verderprene and Platinum Cured Silicon
- Easy-fit self adjusting tube saddle.
- External interfaces : 0-10V, 4-20 mA, RS 232



[www.verderflex.com](http://www.verderflex.com)

### VERDER Ltd

Whitehouse Street, Hunslet, LEEDS, LS10 1AD • Tel: +44 (0)113 222 0250 • Fax: +44 (0)113 222 0291 • info@verderflex.com

Affiliated companies: A Wien • B Aartselaar • CZ Praha • D Haan • F Eragny s/Oise • GB Leeds • H Budapest • JPN Tokyo  
NL Groningen/Vleuten • PL Katowice • RO Bucaresti • SA Kya Sand • USA Newtown