

Merry Christmas from

**VERDERFLEX**<sup>®</sup>

Newsletter  
Winter 2008

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Dura pumping Silicon Carbide in a Semiconductor Plant



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## Achema

May 2009 may seem a long time in the future but the Verder group's planning for the triennial Achema exhibition in Frankfurt is now well advanced.

ACHEMA 2009

We expect the exhibition to be very busy, as usual, reflecting it's prominence as the world's major pump exhibition. The Verder booth will be in hall 8, stand U34 to U37 and will be exhibiting the NEW VERDERFLEX DURA 35, 45, 55 & the VERDERFLEX SCIENTIFIC TUBE PUMPS plus we expect to have the prototype of the replacement for the VF100 on the stand.

The Verderflex commercial team will be at the exhibition from Monday to Friday and to maximise both your time and ours we would like to suggest that distributors pre-book meetings with members of staff by e-mailing us in advance.

Whilst Verderflex staff will be on the exhibition stand, the Verder group has organized a separate meeting room, IMPULS in Hall 9.1, which will be used for all of these meetings as it enhances privacy and avoids distributors having to wait for such meetings.

## PRODUCT NEWS

### Dura

The Dura pump range continues to go from strength to strength and we shall shortly ship the 1000th Dura (D10, D15 or D25).

### NEW LOW FLOW OPTIONS FOR THE Dura 10: 5 & 7mm Natural Rubber Hoses

In the last 4 years we have seen a steady demand for the 5mm hose option for the VF10 pump, with many pumps now installed providing low maintenance, high reliability, low flow dosing systems. On the basis that these sales are evidence of a continuing demand for the low flow pump option, we have been developing 2 low flow options for the Dura 10 pump so that they are better positioned to compete with traditional low flow, high pressure metering pumps. Indeed we are pleased to report that our Australian distributor, All Pump Supplies, recently delivered an order for Dura 10s with the 5mm hoses as a direct replacement for Prominent metering pumps.

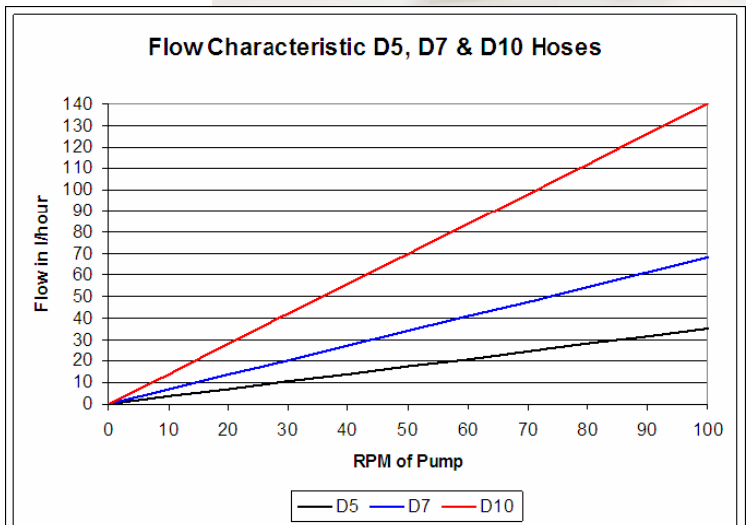
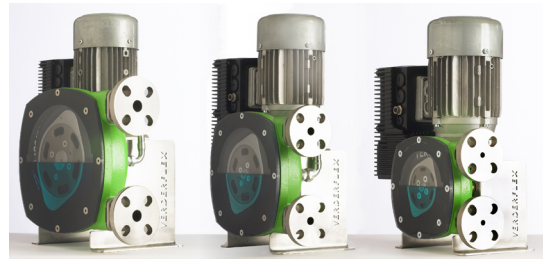
The Dura 10 can now be supplied with 1 of 2 lower flow Natural Rubber hoses that will reduce the flow rate by factors of 2 and 4, with both hose diameters pumps use standard pressure rotors.

Other materials such as EPDM & Hypalon<sup>®</sup> are in development and will be released on conclusion of satisfactory testing in 2009.

### Verderprene Tube for Dura Pumps

One advantage of the Dura over its predecessor, the Verderflex hose pump, is its gentler interaction with the hose: the Dura's rotor has a much more gradual increase in compression of the hose's re-enforcing fibres leading to less fibre stress and consequently better hose life.

However, this advantage also means that the Dura can use extruded tubing with the same dimensions as a conventional Dura hose. In particular, we have been investigating the use of a Verderprene tube as an alternative to the conventional NBRF food grade hose. Testing of a number of Verderprene tubes has shown tube lives in excess of 1,000 hours with discharge pressures around 3 Bar and at pump speeds of 50 rpm or higher.



- The dimensions of the Verderprene tubes for Dura are the same size as Dura NR hoses & can be fitted to the standard Dura with existing 316 Universal Port Flanges, however, on all tube sizes the Dura

High Pressure rotors should be used as the internal diameter has to be extruded slightly over-sized to maintain the correct hose external diameter and allow the standard port flanges to be used.

- The maximum discharge pressure for the tube is 3 Bar (45PSI)
- Food grade components are used to compound the Verderprene & the tube can be sterilised by steam, irradiation and chemical solutions
- The tube has much lower spallation than the equivalent NBRF hose, making the tube ideal for many food industry transfer applications – Spallation is the loss of particles over time usually from the innermost surface of the hose or tube
- In addition to its food friendly qualities, the tube has better chemical resistance compared to traditional hoses on some liquids : the tube rates as good for Linseed, Mineral & Vegetable Oils, Formic & Stearic Acid, HCN, MEK & Turpentine the tube provides satisfactory performance.
- Tubes for the D10 & D25 are now available from stock in bundles of 3, part nos 139.2031.3 (D10) & 139.2033.3 (D25). The D15 tube (139.2032.3) will be released in Q1, 2009

### Verderflex Autoclude OEM

The Verderflex Autoclude OEM range are dedicated tube pump heads for integration into 3rd party machinery.

To support this pump family we have introduced a range summary brochure.

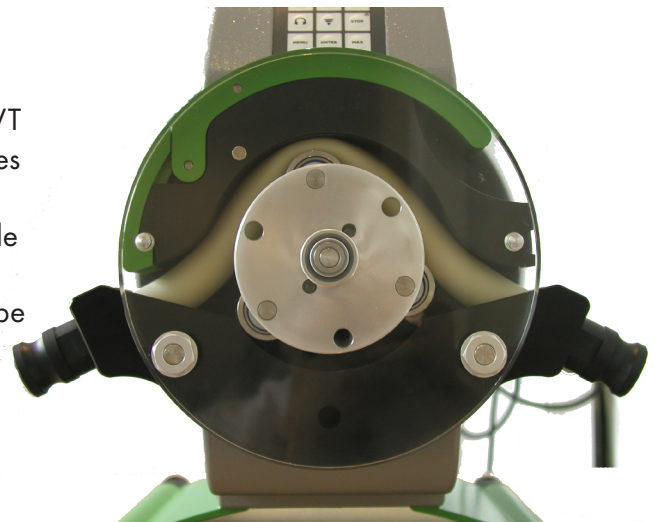
[Download the AutocludeOEM brochure](#)



### Verderflex Smart S40 heads now with Cam & Groove Locking Tubes

Smart S40s can now be supplied with cut to length tubing fitted with cam & groove locking fittings. The new 4.8mm WT elements are now available in 15.9mm and 19.0mm ID sizes of Verderprene and platinum cured silicone tubes, currently rated to 2 Bar / 30 PSI. The locking tube assemblies provide simple, error free tube changeovers that maintain optimum tube tension and correct in-head positioning to maximise tube life and pump performance.

The specially designed pump lower sections eliminate the need for trained maintenance staff and can be retrofitted to existing pumps, offering superior hygienic capabilities via the factory fitted polypropylene cam & groove locking assemblies.



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**ShinEtsu**

## Verderflex Dura Solves Pumping Problem for ShinEtsu

This leading silicon wafer producer located in Livingston, Scotland had always experienced reliability problems in pumping the silicon waste from the cutting of the wafers. Such was the difficulty being experienced in transferring this heavy and extremely abrasive product, the installation of a Verderflex VF series unit which performed for 8 weeks before failure was considered a success. The simple process of changing the hose was established at 6 week intervals thus ensuring the unit never failed in service and production continued uninterrupted.

On the launch of the new Verderflex Dura series of peristaltic pumps, Verder approached ShinEtsu as a testing and proving place on this extremely difficult application. After several failures and hose changes Verder engineers established beyond doubt that the new Dura pump increased hose life by 100%. ShinEtsu purchased the trial unit and have now replaced the VF unit that had given many years of service.