

block forming a protective barrier against moisture, dirt, and UV light. The PE layer also prevents the paper from flex cracking during production, ensuring less machine stops. Both products

are said to keep foaming lines clean and to bring stable production quality and good chemical hold out, which leads to cost savings and higher profits.

Multiple diaphragm pumps for polyols and isocyanates

Wanner International, a manufacturer of sealless, high-pressure diaphragm pumps, has introduced a range of **Hydra-Cell** multiple diaphragm pumps to meet the specific needs of PU production. The new pump has no dynamic seals and consequently handles abrasive particles with ease, reducing maintenance costs. Now with new PTFE diaphragms, chemical compatibility and service life are no longer concerns. Hydra-Cell pumps with these new diaphragms have been tested and shown to be able to operate reliably at full flow

under flooded suction conditions, says Wanner. Meeting the performance standards of API 675, the pumps are said to be highly accurate and repeatable, ideal for dosing and injection duties. Being completely contained, they provide no leak paths for potentially harmful chemicals and their multi-diaphragm design ensures low shear, low pulsation delivery. The new PTFE diaphragms have a service life of up to 240 million cycles; 4,000 h @ 1,000 rpm, says the company.



Hydra-Cell multiple diaphragm pump (left) and PTFE diaphragm (right)

Oerlikon Barmag introduces self-sufficient metering unit

With its newly-developed **GM Control** system, **Oerlikon Barmag's** portfolio now includes a self-sufficient metering unit. With this development, the gear pump producer has responded to demand for an easy-to-operate plug-

and-play version of its proven series of **GM** metering pumps. The unit can be directly controlled, but can also be retrofitted to existing process control units. Whether for casting PU moulded parts, laminating composite com-

ponents, metering additives into a running extrusion process, applying cold adhesives or for flexible deployment in production

GM control system from Oerlikon Barmag



systems with changing requirements – the compact, mobile GM Control unit can now support all these tasks with the accustomed metering accuracy even more

simply than in the past. The user-friendly touch-screen-operated control unit permits the definition of metering volumes – even variably depending on the main production process. In addition to this, all other required parameters can be easily defined, while all important process data is clearly displayed on the touch-screen. Furthermore, pressure and tank fill level monitoring are possible. Communication with other metering or mixing systems is achieved using CAN bus interfaces or network connections. Quick couplings at the inlets and outlets permit clean, leakage-free connections to the supply tanks and to the product lines. Smooth running rollers ensure the entire unit can be flexibly deployed in different places. The core of the GM Control metering unit, the GM pump, is available for numerous different conveying capacities.

Kral launches new sensor system for Volumeter

Kral has developed a new sensor for its **Volumeter OMG, OMH** and **OME** series. The new sensor system increases the maximum temperature for OMG and OMH from 150 °C to 180 °C and provides better resolution. Thanks to miniaturisation and system integration, a single sensor is now sufficient where three sensors used to be required. The sensor is an all-in-one solution which measures flow amount, flow direction and temperature. It is located in a connection box, and the easily-accessible terminal strip makes con-

necting the Volumeter easier. The connection box is standardised for all models, types and sizes. The new connection box enables cable entries of up to 13 mm diameter via the M20x1.5 thread while providing the alternative of using a connector.



Kral Volumeter from the OMG 32 series with new sensor technology