Reduced Downtimes Save Time and Money

A New Generation of High-Pressure Diaphragm Pumps

A new range of modern high-pressure diaphragm pumps allows for significant savings in time and money in the field of material supply. Despite their compact design, the pumps operate at high pressure and with low pulsation levels and are highly resistant to aggressive media.

Graco has developed a new generation of high-pressure diaphragm pumps for general industrial and automotive industry use. The company's aim was to design a compact pump which offered considerable time and cost savings together with reduced downtimes.

The AODD 4:1 4D150 and 4D350 models that make up the new Endura-Flo pump range offer a high pump pressure and flow rate despite their small size. They can easily be integrated into existing systems and are designed for low pulsation output and smooth, fast paint changes. In addition, at 4:1 their pressure ratio is the highest in the industry.

Focus on durability

During the development process, the emphasis was also on a long service life. The pumps are highly resistant to aggressive materials and can be used in extreme working conditions. The newly designed diaphragm also gives the pumps a longer service life. In addition, the pumps produce low shear forces, which is an advantage in particular in the case of shear-sensitive materials.

There is no risk of unscheduled downtimes caused by pump failure because the simple design ensures that the pumps have a long working life and can withstand dry running without problems.

Automated reporting

As environmental legislation becomes increasingly strict, it is important to be sure that the legislative requirements can be met as easily as possible. This is made possible by an automated documentation system which dispenses with

Possible applications for the new generation of high-pressure diaphragm pumps include paint circulation, fluid transfer and piggable paint systems.

the need for time-consuming manual reports. The DataTrak function automatically records the pump data and provides an easily adjustable system to protect against dry running and a fault diagnostics function for maintenance.

A resettable counter monitors material consumption and maintenance intervals. The special pump design also allows easy access to critical components for rapid repairs while the pumps are online.

Versatile in practice

The new generation of pumps with ATEX approval are the ideal solution for multiple paint changes and piggable systems. They are designed for use in paint circulation, fluid transfer and piggable paint systems. The fluid section of the pump can be cleaned with air or sol-

vents, but only very small amounts of solvent are needed for cleaning purposes. At the same time, the pumps are designed to provide a constant start-up pressure and an efficient cleaning process. The pumps are typically used to process aqueous or solvent-based media or materials that are sensitive to moisture or UV-cured. Elbows, Brackets and cartridges are mounted as standard on every pump. This is what makes it easy to install in existing systems, and gives it the possibility to mount 360°. These are standard and available as spares. Spring-loaded check cartridges allow for direct online maintenance. ■

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