Linear position sensors for hydraulic cylinders

Turck Banner promises optimised position detection in hydraulic cylinders with its new LTX-linear position sensors in rod design. Level detection can be realised with optionally available float magnets. Due to their high shock and vibration resistance the sensors can also be used in construction machines and other rough fields of application. The LTX-series meets the protection category IP68 and is resistant against many chemicals and oils. Providing precise measuring signals with a high linearity and repeatability. They are available with analogue output or with a high resolution digital SSI-output.

www.turckbanner.com

High pressure transducers

Burst pressure testing to the point of destruction to determine the design limits of components used in many situations is a common application for RDP pressure transducers.

Certain components may be critical to the performance of equipment used in industries including aerospace, nuclear, chemical and oil and gas industries where failure can be catastrophic. But components subjected to burst testing regimes can include anything from very high pressure hydraulic hoses through to contraceptive devices, all of which need to be tested using applied pressures to ensure that they meet specification and do not leak.

Burst pressure testing is typically performed to determine how much overload a part or system can endure before failure and to determine component design limits. RDP pressure transducers can be combined with E725 digital indicator units to form a system which will allow monitoring of pressure testing to destruction.

www.rdp.com

Alternative to conventional variable area flowmeters

Variable-area flow meters have generally been specified in process applications where cost is a major consideration and high accuracy is not always required. However, the nature of modern processes with their demands for low maintenance and reduced downtime to optimise production, means that another more accurate flow meter is required. Burkert is meeting this requirement, providing a modern competitively priced alternative to conventional rotameters with its Type 8032 inline paddlewheel flow indicator/transmitter/switch.

Industry approved, the Type 8032 integrates the functions of monitoring, transmitting and on/off control into one intelligent device with the added benefit of easy-to-read digital indication. In addition, the Type 8032 also offers users the time saving feature of automatic calibration, via a teach-in function and also selectable outputs: transistor, relay or 4-20mA.

The simplicity of the paddlewheel design means that the 8032 can be mounted vertically or horizontally, to simplify piping and installation generally. Moreover, the choice of materials for wetted parts of the flowmeter, including brass, stainless steel, PVC, PP or PVDF/FKM (EPDM option), and PVDF/ceramics for the paddlewheel, allow the unit to be used with a wider range of fluids.

The type 8032 is a low maintenance unit that reduces process downtime. The unit is designed so that no interruption of flow is required for maintenance, or for future product updates.

www.burkert.co.uk

Fork sensors for fluid detection

Balluff has extended its existing range of BGL fork sensors by offering a fluid detection sensor. This infrared fork sensor is suitable for detecting the level of clear, coloured or turbid fluids with a water content greater than 15% through transparent walls. Fluids such as milk, household cleaners, viscous detergents and ketchup cause no problem for this compact sensor.

Available with fork openings of 30mm and 80mm, these compact sensors are housed in a rugged IP67 rated metal enclosure. The sensors have a switching frequency of 2kHz and are available with NPN or PNP output. The BGL fork sensor has 3-pin M8 connection and standard through-holes for mounting. Custom made bracketry solutions are no longer required, with a sensor holder available from the new Balluff BMS universal mounting system.

www.balluff.co.uk