



BELLOWS SEALED

For the precise control of liquids and gases in the most challenging applications and demanding environments, **Pump Engineering** offers the extensive

range of Badger Meter control valves.

For example the Type 808 bellows sealed globe valve is suitable for critical, zero-fugitive emission, high-purity or high-vacuum applications where the potential for hazardous emissions has to be eliminated.

The bellows form a flexible static seal that is leak-free, as long as the integrity of the bellows remains intact. However, should the valve fail, a set of back-up packing allows the valve to continue to operate safely until repairs can be made.

Tel: 01903 730900

FLOW METERS & CONTROLLERS

The latest generation El-Flow Prestige thermal mass flow meters and controllers from **Bronkhorst** offers a highly stable flow control regime that is virtually impervious to process fluctuations and significantly reduced power consumption.

Units feature advanced flow-signal processing and advanced control valve design. Each device is user configurable with a multitude of additional features and benefits.

The sensor benefits from the enhancement of the differential temperature balancing technique, whereby the two sensor windings are power regulated to the same temperature above the gas stream ambient.

Tel: 01223 833222



SENSOR FLIES CONSERVATION INTO NEW LEVELS OF CONTROL

An innovative device that simultaneously senses a helicopter's position and weighs the load it is carrying is being used as part of a programme that brings together the expertise of the National Parks, the National Trust, Natural England to restore the UK's upland peat moors to their natural state and protect their vital ecosystems.

The HeliNav TrackMaster is a simple and accurate system that simultaneously monitors underslung loads and logs actual flight paths while also providing navigational guidance. Over the last few years Heli-Lift Services has

worked closely with **Sensor Technology** to develop, test and prove the HeliNav TrackMaster. The concept behind HeliNav TrackMaster is based on incorporating a strain gauge into the cargo hook that carries a helicopter's underslung load.

The wireless Load Sensor is a strain gauge-based stainless steel tension type sensor. It has the capability of wirelessly transmitting its data to a readout where it both displays live readings and records them to build up an exact profile of each operation.

Tel: 01869 238400



FAILSAFE ACTUATORS

Rotork CVA failsafe electric process valve actuators have been selected for a critical flow control application in the Australian coal mining industry.

Salcan Process Technology manufactures wellhead skids designed for coal mine degassing duties. The remotely sited skids are used in conjunction with Salcan's control and telemetry systems to enable methane and other flammable

gases to be extracted from underground coal seams prior to the commencement of mining operations.

"The Rotork actuated control valve allows us to control the flow of gas while maintaining back pressure in the coal seam," says Salcan director, Vincent Cantwell.

"Bluetooth technology embedded in a failsafe electric positioner package eliminates the need to enter the hazardous area surrounding the valve for set up and diagnostic functions."

Tel: 01225 733200



AUTOMATION PLATFORM EXPANDED

Omron has enhanced the scalability of the Sysmac range with the introduction of the NJ1 Machine Automation Controller, which is fully compatible with the existing Sysmac range.

Units share a common concept, dimensions, general specifications, and functionality. The NJ1 is ideal for machines with a low number of motion axes, with 2 processors offering 2 physical axes + 4 virtual axes, or none at all.

Programming is based on global standards and open networks allowing the construction of standardised systems. These



controllers offer synchronous control of all machine devices and advanced functionality such as motion, safety and vision.

Tel: 0870 752 0861

STAINLESS STEEL LINEAR ACTUATORS

Motion Control Products recently introduced the new ERD22 electric rod linear actuator from Tolomatic – a low-cost, versatile replacement for pneumatic cylinders and an alternative to manual processes.

With force capabilities up to 7000N, the all-300 series stainless-steel ERD22 is a standard catalogue item featuring hygienic design and IP69k rating. Suitable for medium-force washdown applications, the ERD22 linear actuator is USDA-approved for meat, poultry and dairy applications such as pumping, fluid dispensing, volumetric filling, slicing, cutting and chopping.

ERD22 is the smallest of the hygienic group and a more suitable performance and cost option for smaller-force requirements than the larger ERD25 and ERD30 actuators. As an economical electric actuator platform, the ERD linear actuator provides excellent efficiency and operating flexibility over its pneumatic counterparts.

Tel: 01202 599922



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