

New pressure switches from Tecsis

Tecsis has introduced two new mechanical pressure switches in membrane or piston versions. The new series the S4150 and S4250 offer a high level of precision and robustness. The switches can be used to monitor or control either pneumatic or hydraulic pressure.

The new switches can be quickly and easily mounted in most applications. An adjusting screw is fitted to make the in-situ adjustment of a set point a simple matter. The selected set-point setting will then remain stable for many years. The series S4250 switches also have freely adjustable hysteresis, making them attractive for a wide variety of applications.



Off highway latches

Southco has introduced a new and extensive range of rotary action latches and actuators for direct, remote or multi-point actuation. The new range includes in cab latches that Southco has not previously offered, and it says completes its product line up.

By integrating electronic control systems with basic latches, the company says that it can provide solutions for differing levels of security which don't compromise end-user convenience and flexibility. The latches are conceived to be intuitive to use and to exert the ideal forces for the application. It adds that the new products have been designed and built to last as long if not longer than the vehicle.

High efficiency hydraulic motors

Sauer-Danfoss has launched its new H1 60cm³ bent axis hydraulic motors, designed to complement its range of H1 axial piston pumps. The new motor allows the company to offer a complete H1 transmission system which is fully PLUS 1 compliant, enabling seamless integration with its electronic machine control architecture. The electrical controls are also designed with an

The new Sauer Danfoss H1 motor.



IP67 and IP69K rating to cope with the harshest of environments. Sauer Danfoss says that an extensive simulation and testing programme for the new motors has resulted in significant improvements in overall efficiency and an extremely low pressure drop within the fluid galleries of the motor. The efficiency gains are claimed to give the motors an advantage of at least six percent at maximum displacement over the nearest competitor. A key feature is the motor's zero degree capability, allowing seamless

'on the go' shifting from 32 to zero degrees, providing a smooth transition with little or no torque interruptions or sudden speed changes. The H1 motor will also shift seamlessly between two speed ranges, for example, work mode and travel mode, regardless of displacement settings.

The company says that the new motor has been designed with applications such as telehandlers in mind and will significantly reduce fuel consumption while improving the service life of the pump and motor.

In addition to their efficiency, the H1 motors are claimed to have the shortest overall length of any

comparable motor with at least one "clean side", increasing vehicle design, flexibility and facilitating installation.

Sauer Danfoss claims a six percent advantage over competitors.

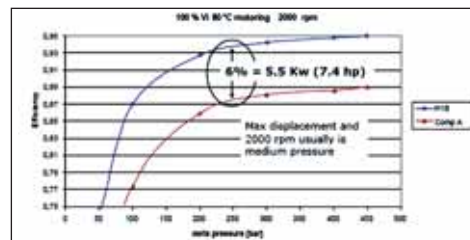


Figure 1: H1 Bent Axis Motor Performance Compared to Competitor A

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