



New valve design will save space, time and complexity

A new range of screw-in, multi-function, cartridge valves from Integrated Hydraulics Ltd of Warwick. Promises to help simplify hydraulic circuit design and improve reliability.

Hydraulic screw-in cartridge valves offer machine designers the opportunity to condense the majority of a machine's

hydraulic controls into a single manifold block or incorporate them into components such as cylinders. Thus reducing installation time and space requirements.

However, when used to the full, this can lead to highly complex and intricate manifold blocks with design and quality ramifications. The new multi-function valves are part of a range developed to fulfill the roles of two or more cartridges, thus simplifying circuits.

Designated the 4CKKT50, The new dual pilot operated check valves will, according to Integrated, reduce the number of cartridges in a circuit, simplify machining of components, further reduce space demands, cut assembly time and minimise the number of potential leak paths.

Typically dual pilot check valves are built into cylinders and, require three cavities and a series of cross-holes. The new cartridges will greatly simplify cylinder design. They hold the stabiliser legs in both extended and retracted positions, with the relief element preventing over pressurisation of the cylinder due to thermal expansion of the oil.

The new cartridges fit into the same cavity as the Integrated series 5 solenoid valves and so require no additional tooling. They are rated to 300 bar with a flow rate of 25 L/min, making it ideal for small to medium cylinder applications.

Integrated's new valves will save space, reduce the chance of leaks and simplify circuits.



The Police Eye portable unit can be switched between vehicles and drivers.

Portable Vehicle Monitoring

Logistic companies are already using vehicle and driver tracking and monitoring systems to improve their efficiency and cut costs. To date only a few Crane or Access rental companies have employed this technology, Police5 Technologies has now launched an Eye-TraX portable unit. The Eye-TraX Portable provides high accuracy location and reliable 'on-demand' GPRS communications via the Web in a light weight, compact, transferable unit that does not need hard wiring into a vehicle.

The unit is fully self-contained with a back-up power supply, GPS and GPRS antennae, a driver operated on-off switch and alert button. The device is normally powered by the vehicle's cigarette lighter socket but can be adapted to sit in a dashboard mounted cradle.

The portable units is ideal where drivers

regularly swap between vehicles. It enables a company to maintain effective telematic coverage of its fleet, its activity and its Health and Safety record.

Once a Police5 Eye-TraX Portable unit is placed in a vehicle, its information can be viewed from any internet enabled PC, laptop or PDA after entering a password and user identity.

This allows the fleet operator not only to see real-time information but every two minute updates an update is sent out by the Eye-TraX, which is stored to allow in-depth analysis of a vehicle and drivers' activity over any given time scale. Such reports give fleet owners hard evidence of where improvements and efficiencies can be made thus improving productivity and reducing unnecessary expenditure.

The new JC2000 X/XY compact joysticks from Penny + Giles.



Joysticks offer new possibilities

A development by Penny + Giles of its JC2000 joystick adding new output voltage ranges, will offer designers of both cranes and access equipment, greater flexibility, especially for remote control applications, while giving users greater sensitivity. The JC2000X and XY can now be supplied with 0.5 to 4.5Vdc, 1.0 to 4.0Vdc and 1.1 to 3.9Vdc output voltage spans.

The joysticks use Hall-effect technology, with no contacts to wear out and are very compact, requiring only 31mm of depth below the flange, less than half the depth of a traditional joystick. They are ideal for fingertip control applications making them well suited for the radio/infrared remote

control packs that are increasingly used on Lorry loaders, tower and mini cranes.

Given their use on construction sites, the joysticks are also sealed to IP65 and can cope with operating temperatures of -25°C to +70°C, with shock levels of 40g and EMC immunity of 60V/m.

For critical aerial lift applications single and dual-axis versions are available with two independent outputs in each axis that can be monitored and compared for failure detection in safety critical systems.

A choice of three handles and switch options allows some customisation to suit different applications and for product differentiation.

Ready to go Power track

Igus, the power track specialist has a new modular power track system designed with cranes in mind, the LBT Flizz.

The LBT Flizz modular system is designed to carry cables and hoses subject to long travel, high speeds and heavy loadings. It encompasses the cable carrier, guide trough and, if required, fully configured cables, ready for immediate installation on an assembly line or emergency in-field repair.

The system uses the Igus E-Chain cable carrier to support the cables and hoses, the guide trough is a modular kit comprising extruded guide profiles and a supporting frame. The E-Chain and cables are channelled through this trough.

The component parts of the system are corrosion-free and the materials used are resistant to weathering and most

chemicals. An optional, fully closed design offers protection against dirt, foliage, ice and snow for hostile environments.

The company say that the main factors giving this product a competitive edge are its safety, functionality, maintenance-free operation and low cost, compared to conventional energy supply systems.

As the system is fully configured before delivery, it can be assembled quickly and easily integrated into existing installations.

The Igus LBT Flizz is a modular power track and guide trough that can be fully configured prior to delivery

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