

example of the creative design services, and first-rate technical abilities on offer from OSIL," he said.

▶▶ [www.osil.co.uk](http://www.osil.co.uk)

## Valve pack updated

**Hydro-Lek**, UK, reports it has updated the design of its seven-way valve pack to ensure ease of use and maintenance and greater flexibility, with a significant saving in weight. The company's valve packs are used widely within the subsea industry for controlling the operation of tooling skids on a variety of ROVs worldwide.

"A major new feature of the HLK-73300 is the replacement of O-rings and taper-threaded fittings with parallel-threaded fittings and Dowty seals, enabling a fast, easy and oil-tight connection to a wide range of fitting types including quick disconnects," said the company. "In addition, new captive flow adjusters allow easier fine tuning of valve flow settings – and full control of manipulator movement – without the risk of fully removing and losing the adjustment screw."

Hydro-Lek said that a wide number of variations of the valve pack are available and customers can select from numerous system options including polarity, output function fittings, supply input fittings and coil voltage. Two additional ports allow a second HLK valve pack to be connected as a slave where more than seven bi-directional valves are required, the firm added.

The HLK-73300 is also available as a five-way valve pack and as a four- and six-way with bi-pass valve.

▶▶ [www.hydro-lek.com](http://www.hydro-lek.com)

## JAMSTEC system commissioned

UK-based **WFS Technologies** and **NuStar Technologies** and **Precision Technologies** of Singapore have successfully completed the commissioning of a new subsea system, the Submarine Mineral Genesis Monitoring System, for the **Japanese Agency for Marine-Earth Science and Technology** (JAMSTEC).

"For scientific purposes, JAMSTEC is planning to study the genesis of submarine resources at the hydrothermal vents area in Japanese waters," explained a spokesman for WFS. "Some of the challenges faced during this operation are the streamlining of subsea data logging operations, working



*Submarine Mineral Genesis Monitoring System testing in Singapore. Sea trials are set for early 2016*

at depths of up to 2000 metres, managing the signal conversion electronics at water temperatures of near boiling point and reducing power consumption for longer duration subsea application."

The spokesman said that in February 2014, working with its partner in Singapore, Precision Technologies, WFS met with Nustar Technologies to discuss the application of subsea wireless data logging capabilities to support flow metering in NuStar equipment designed for JAMSTEC's submarine resources research.

"WFS collaborated with NuStar and Precision Technologies to develop and deliver a lightweight and power efficient subsea solution that combined the data logger and controller. To achieve this innovative solution WFS utilised patented Seatooth technology. The system was successfully commissioned in Japan in April/May 2015," he said.

WFS's Seatooth S100 is a compact, low-power, wireless modem, data logger, multiplexer and controller. "It supports a variety of underwater applications, providing a robust wireless communications link of up to 15 feet (five metres) in the most challenging environmental conditions," the spokesman said.

"We are pleased to have chosen to work with WFS Technologies," said Teo Sim Guan, engineering director of Nustar Technologies. "The team helped simplify JAMSTEC's requirement on mineral flow rate data harvesting, through direct flowmeter magnetic frequency data logging, effectively eliminating the need of additional signal conversion electronics and substantially reducing overall logging system power consumption, weight and size."

JAMSTEC's Submarine Mineral Genesis Monitoring System will be deployed for sea trials in early 2016.

▶▶ [www.wfs-tech.com](http://www.wfs-tech.com) ■