Press Release

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Compact manifold for cooling and lubrication of the shaft seal on centrifugal pumps

Centrifugal pumps depend on cooling and lubrication to operate efficiently, reliably and with a long service life. The solutions commonly used for this purpose in the industry are mostly constructions made of a lot of different components. These are often not exactly matched to each other and also require a lot of space and installation effort.

Schubert & Salzer Control Systems has now developed an out-of-the-box solution for this specific application. In this case, the cooling and lubrication of the shaft seals in centrifugal pumps with the operating fluid is controlled via a compact manifold. The adjustable 7010 angle-seat shut-off valve integrated into the block allows a flow rate of 10 to 50 l / h to be set.

When the pump is started, the pneumatic valve opens simultaneously, so that cooling and lubrication are ensured immediately. The liquid sensor integrated in the manifold permanetly checks that coolant always flows when the pump is running. If there is no cooling the pump is switched off to prevent damage to the shaft seal and to prevent it from getting stuck. The switch-off and switch-on functions can be carried out via the pump control or can be taken over by a PLC.

Schubert & Salzer Control Systems thus offers an efficient out-of-the-box solution for the cooling and lubrication of shaft seals in centrifugal pumps. As a complete solution, the new system is not only more compact than the solutions commonly used in industry, but also significantly reduces installation and maintenance costs.

The manifold is suitable for all centrifugal pumps within the specified performance range. In addition, it can be extended with e.g. manometer connections, pressure and temperature sensors. Further options and intelligent, specific, modular solutions are also possible.

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