

New water-hydraulic valve actuator replaces compressed air in the processing industry

On the 10th November KM Rustfri A/S will launch HYDRACT – a new water-hydraulic actuator for operation of process valves – at the BrauBeviale 2015 trade fair in Nuremberg.

HYDRACT is a newly developed and patented actuator from **KM Rustfri A/S** that, using a water pressure of 50 bars, can open, close and regulate process valves with unprecedented precision and reliability. This leads to greater food safety, reduced material waste, lower maintenance costs and reduced investments. HYDRACT also reduces the energy consumption and CO₂ emissions associated with operating process valves by more than 65%, compared with conventional compressed air, which has for decades been the dominant technology on the market.

Conventional actuators are not always able to keep 100% closed, because air and springs can be compressed. Pressure surges in the process line can for example result in unintentional mixing of product and cleaning fluid. Conventional actuators can therefore not be used for regulation and only allow closure against the process flow direction.

The HYDRACT actuator removes these limitations because the water in the actuator cannot be compressed. Existing process valves fitted with HYDRACT actuators can therefore be used as both open/close valves and regulating valves. Furthermore, it is possible to close both with and against the direction of the process flow. The HYDRACT actuator is universal, one-size and can be fitted to all makes of process valves currently on the market.

Carlsberg has tested the HYDRACT technology is installing the first plant with HYDRACT actuators

Carlsberg has been involved in the development of HYDRACT in a consultative capacity since 2008 and has made its facilities available for testing. As a result, the first permanent facility will be operational at Carlsberg's brewery in Fredericia in early November 2015. **Michael Jakob** VP Group Manufacturing & Technology – Carlsberg Supply Company says:

"HYDRACT is an exciting new technology that sets new standards for reduced energy consumption and CO₂ emissions. The actuator's precision and reliability are remarkable and open the way for a completely new approach to process facilities in the brewing industry, leading to lower production costs, greater food safety and reduced investment in brewing facilities".

Launch on 10th November 2015

HYDRACT will be launched at the Brau Beviale 2015 trade fair in Nuremberg, where there will be an opportunity to test the actuator's unique regulatory functions.

For further information please contact

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FACTS**Developed with support from the EU and the Danish Market Development Fund**

The development of HYDRACT began in 2008 and has received support from the EU for development and demonstration of the technology for open/close valves.

Since 2014, with support from the Danish Market Development Fund (MarkedsModningsFonden), the HYDRACT technology has been further developed and demonstrated as a regulating technology with convincing results.



KM Rustfri A/S has roots extending back to 1974 and specialises in the manufacturing of stainless steel pipe fittings and pump and valve components for the sanitary processing industry – particularly the food and pharmaceutical industries. KM Rustfri A/S has 60 employees and exports, primarily within the EU, constitute 85% of its turnover.