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PRESS RELEASE

Poppe + Potthoff develops bursting pressure test system for hydraulic components with Eaton

Poppe + Potthoff Maschinenbau develops and manufactures customer-specified systems for durability and fatigue strength testing. The specialists for high pressure technology have now developed a test stand for Eaton for the testing of tube fittings and hoses for hydraulic applications to bursting point. Eaton uses this machine in its plant in Lohmar, Germany, where these components for fluid engineering are developed and produced.

“We are now able to conduct tests with an accuracy of 100,000 measurement values per second, and thereby continuously improve the parts,” explains Thomas Schmidt, Group Manager for Engineering at Eaton. “The success of this project demonstrates the value of the Eaton Power of One philosophy for our customers. In addition, the investment in this exceptional test stand technology shows that Eaton consistently fulfills the necessary requirements to remain the technological market leader”.

“The simple handling and flexibility of this testing machine is also the result of the close cooperation with Eaton,” elaborates Johannes Montag, from the Design Construction department at Poppe+ Potthoff Maschinenbau in Nordhausen (Germany). “The different material characteristics of the parts to be tested required specialized handling, which is why we developed a new hydraulic aggregate. The components for this, which Eaton delivered, are perfectly harmonized for regulating the test stand. In this way, the test curves for the widest range of applications can be quickly generated.

Pressure or volume can be accurately increased up to 4000 bar, reduced or maintained at a constant level via two pressure regulators. With 120 functional elements, the series of testing steps can be very quickly and flexibly programmed. The pressure is generated via a large pressure

booster for fast pre-filling of the system, as well as via a small pressure booster for precise adjustment. The system is designed for pressures up to 4000 bar. As a specialist for high pressure applications, Poppe + Potthoff also offers other performance classes.



Image: Poppe + Potthoff has developed a burst pressure test stand for hydraulic components for and in cooperation with Eaton. This machine tests tube couplings and hose assemblies in a massive test chamber up to bursting. The hydraulic aggregate is operated from the PC station via Eaton's XC200 controller. The system is connected to the graphic programming environment of National Instruments (LabVIEW) and the local network via an integrated interface.

Source: Poppe + Potthoff Maschinenbau.

Images available for printing at: www.oha-communication.com/poppe-potthoff

Eaton Corporation is a diversified power management company with more than 100 years of experience providing energy-efficient solutions that help our customers effectively manage electrical, hydraulic and mechanical power. With 2011 sales of \$16.0 billion and with around 73,000 employees worldwide, Eaton is a global technology leader in electrical components, systems and services for secure power supply, distribution and control. The range of products on offer also includes hydraulics components, systems and services for industrial and mobile equipment; aerospace fuel, hydraulics and pneumatic systems for commercial and military use; and truck and automotive drivetrain and powertrain systems for performance, fuel economy and safety.

www.eaton.com

Poppe + Potthoff Maschinenbau GmbH designs and manufactures test stands for measuring the strength and durability of components in automotive engineering and shipbuilding as well as other industries. The specialized machines made by the experts for high pressure technology are designed for precision and high-performance and are used in research, development and production. This includes test stands for measuring bursting pressure and tightness, impulse testing, autofrettage as well as automated testing and sorting. The company based in Nordhausen (Germany) is a member of the Poppe + Potthoff Group.

Poppe + Potthoff stands for precision. The group develops and manufactures customer-specific steel tubes, common rail subsystems, high pressure tubes, precision components, line shafts, couplings as well as specialized test stands and other machines. Poppe + Potthoff enables highly sophisticated solutions in automotive engineering and shipbuilding, machine tool building and mechanical engineering as well as other industries. The family-owned enterprise with its headquarters and technology center in Werther (Germany) was founded in 1928 and has more than 1,200 employees. Poppe + Potthoff is active in more than 50 countries with its subsidiaries and long-term partners – always in close contact with its customers. www.poppe-potthoff.com

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