



Valves and Pumps for Extreme Environments

FOR IMMEDIATE RELEASE

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First of its kind, Doering introduces new hydraulic hand pump that delivers more pressure and requires less force

CLEAR LAKE, Minn.—Doering Company announces the introduction of the DCHP163 cartridge-style hydraulic hand pump, which provides high-pressure output with the same lever force on both up and down strokes. This innovative cartridge high-pressure hand pump displaces large amounts of hydraulic, water glycol or other fluids faster, with fewer strokes than competitive products. Requiring less handle force, the DCHP163 is ideal for emergency, primary, backup and hydrostatic testing applications.



“Most industrial hand pumps are single-action, only pressurizing on the downward stroke of the pump’s lever,” explains Marty Dombroske, vice president at Doering Company. “The new DCHP163 is engineered for double action. Hydraulic or other fluid is pressurized during the downward and upward strokes, making it much quicker to operate.”

Providing over twice the performance of comparable hand pumps, DCHP163 has a handle force of 70 lbs. (32 kg). It has an operating pressure of 6,500 psi (450 bar) and displaces 0.54 cu. in. (8.86 cu. cm) of fluid per cycle. Doering’s DCHP163’s lever rotates 360 degrees. This hydraulic manual pump has a compact design and can be installed in a manifold and in any orientation.

“We required a hand pump to displace a large volume of hydraulic fluid faster with fewer strokes,” says Kevin Orida, C.T.E. at Lynch Fluid Controls. “Doering’s stainless-steel DCHP163 was able to build pressure quickly and could be operated by virtually anyone. Verified in an emergency



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military application, the hand pump needed to perform in harsh environments with high pressure in a short period of time. The first of its kind, the DCHP163 meets our specifications. We ruled out most of the other hand pumps on the market.”

“Our testing equipment replicates oil and gas industry conditions to qualify chemicals. We were using a hand pump designed for hydraulic fluids to pump clean water,” said Stephen Keir, engineering team lead at Scaled Solutions, Ltd. “The two brands we tried had issues with corrosion. Additionally, high-low stroke switches made these options quite cumbersome and large. To improve speed, we developed a two-pump solution and found that it didn’t perform as expected. We needed a high stroke rate with 6000 psi (414 bar) of pressure. Everything we looked at had a high stroke rate with low pressure or low stroke rate with high pressure until Doering recommended the DCHP163. A compact stainless-steel hand pump, Doering’s DCHP163 has the better flow needed for our application.”

Doering’s DCHP163 hand pump is offered in stainless-steel versions. The operating temperature with standard seals is -40°F to 212°F (-40° to 100°C) and up to 400°F (204°C) with fluorocarbon seals.

As a result of the company’s success with lean manufacturing, Doering maintains its high quality and fast deliveries—less than 10 days for standard products.

For additional information or a quote, visit www.doering.com/more, call +1 320.743.2276 or CustomerService@doering.com.

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Lynch Fluid Controls

Headquartered in Mississauga, Ontario, Canada, Lynch Group of companies is certified to the highest industrial standards, dedicated to designing and manufacturing hydraulic motion control manifolds and integrated hydraulic systems. From concept or circuit drawing, our engineering team ensures that your hydraulics are optimized for maximum performance and cost reduction. Complete support includes conceptualization, engineering, component selection, 3D modeling/design, machining, assembly, documentation and validation. www.lynch.ca

Scaled Solutions

Scaled Solutions Ltd., in Livingston, UK, is an independent laboratory testing facility that serves the oil and gas production industry. With worldwide laboratories, the company specializes in flow assurance, production chemistry and formation damage issues with emphasis on near-wellbore treatments, scale and corrosion control, in addition to reservoir simulation and modeling studies. All laboratory testing equipment is designed and manufactured in-house and used by operators and service companies around the world. www.scaledsolutions.co.uk

Doering Company

Founded in 1969, Doering Company has built a worldwide reputation for precision-designed, quality-constructed valves, pumps and manifolds. Doering products are offered through a network of fluid-power distributor representatives. www.doering.com