

MGR Fluid Power

June 2010

Hydraulic Systems *from Hydraulics Engineers*



Hydraulic Systems

- . **Design**
- . **Build**
- . **Install**
- . **Maintain**
- . **On site services**

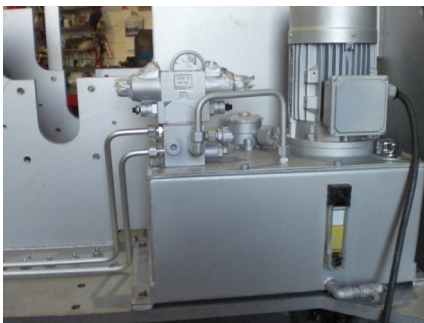
Hydraulic Systems

We design our hydraulic systems to be;

- **Reliable**—so if you're an end user then you maximise your machinery availability and reduce breakdown costs. If you are a supplier to an end user your reputation will be enhanced with the reliability of our systems.
- **Efficient**— if you're an end user then your running costs will be lower than other hydraulic systems.
- **Cost effective**— we will select the best components to suite your application so that the system performs to your expectations at a reasonable price.

Power Packs

Power packs are simply a motor or diesel driven pump without remote control valves and cylinders etc. MGR supply a range of power packs that have a modular basis so that lead time are short and the price is reasonable.



This is a modular power unit, built by MGR Fluid Power and installed on a lift system for window cleaners on high buildings. The power units produced ranged from 5 l/min to 11 l/min and included the control and check valves. The pipework being external was supplied by Parker who have a good track record of rust free operation.



A special power pack for the Nuclear industry operating on water glycol. The pump was required to be robust to withstand the lack of lubrication and the reservoir was made from stainless steel.

Hydraulic Systems

Hydraulic systems are the complete system, including the power pack, control valves, cylinders, motors etc. We take the utmost care when designing a system, using calculations and where applicable simulation to size the components correctly so that loads can be lifted and speeds achieved without excessive pressure and high pressure drops.

We have experience of most types of systems; including systems for testing, systems for lifting, hydrostatic transmissions and vehicle systems, electrohydraulic systems and systems operating on non standard oils such as Skydrol.

Hydraulic Systems

Design through to commissioning , a complete and reliable service from and experienced hydraulic engineering company.



We installed this system on a cement hopper, to replace the electric motors which were jamming because of their low starting torque. We supplied a low speed high torques radial piston motor from Calzoni and a load sense power pack. The system operates with high efficiency and constant speed, deliver a reliable service in the production operation.



This manifold was part of a larger system for a wave energy, which also included piston accumulators, hydraulic cylinders and pipework. This system had no pump so it was required to be self sustaining. We utilised all our knowledge and used simulation to prove the system before building.

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