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STONE™

GLOBE
AIR MOTORS

 **GLOBE** AIR MOTORS s.v.

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POWER TEAM®



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GLOBE AIR MOTORS GET THE JOB DONE...AGAIN!

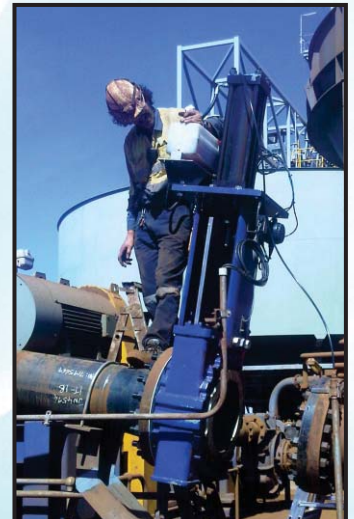


Over the last few months we have been working to develop an Air Operated Hydraulic Power Unit used to open and close large (18" dia to 36" dia) Gate Valves on Mine Site pipe lines.

The unit is designed with a Vane Air Motor to drive the Hydraulic Gear Pump. This unit develops 14 l/m Flow at up to 2000 psi. It has one 4 way 3 position Solenoid DCV, with 24v DC Coils. There are also proximity switches mounted to the Gate Valve, which detects the open and closed position of the Valve. The unit is controlled remotely, using a 24v DC Control circuit, which provides both operation and monitoring of the

Gate Valve.

When activated, the Air Power Units starts, energises the coil on the DCV, and opens the Gate Valve until the proximity switch detects that the Valve is fully open. The Air Power Unit is then stopped, and the valve is held open by pilot operated check valves attached to the Hydraulic Cylinder. This prevents the Valve from being pushed open or closed, by the force of the fluid in the pipe, or by the weight of the gate. To close the Valve, the Air Power Unit starts again, and the retract 24v DC Solenoid coil on the DCV is energized, closing the Gate Valve until the close proximity sensor is activated, stopping the Air Power Unit.



Air Hydraulic Power units have the unique ability to stall, if the pressure in the system is too great for the Air Motor. This does not damage the Air Motor in any way and prevents damage to the system and increases operator safety.

The air motors utilised in these power packs are the tough and ever reliable GLOBE vane air motor, model number VS8CXXX00. GLOBE vane air motors have no pins or springs due to their GLOBE blade ejection system design. This system consists of an ejection ring which maintains a constant positive blade contact with the motor body. This guarantees the blade position on start up, preventing free air flow from port to port and ensuring the motor produces its rated starting torque. The ejection ring design removes the requirement for pins or springs, the result being low vane wear and a high motor reliability.

Contact us for more information on our impressive range of GLOBE Vane Air Motors and accessories.



handy hydraulic hint

Due to GLOBE Vane Air Motors cool running temperature, caused by the expanding air, GLOBE air motors can be used in ambient temperatures up to 80°C.