

# MAINTENANCE & REPAIR

## Manual for the Mustang Model 20/25 Hand Pump

### Background Information

The Mustang Model 20/25 two-stage pump share a common main pump body unit with the Model 25 using a larger capacity reservoir. The pump body, directional control valve body and pressure relief valve block are precision machined from hi-strength aluminum using steel piston barrels for wear points. An aluminum-mounting base attaches to the pump body and provides a pumping load carrying function as well as a means of securing the pump during operation.



Model 20A Hand Pump



Super Pump- Model 25 Hand Pump

Hand pumps are notorious for check valve problems. Ball seat areas corrode or become pitted from dirt and fail to check reverse flow. To re-finish the seats involves returning the pump to the manufacturer or replacing the expensive unit to the manufacturer or replacing the expensive unit with new.

The piston size (diameter) has been designed to provide proper pressure versus hand-lever load and a flow rate that assures the correct squeeze and release time. Two stage pumps use a large diameter piston for rapid travel

Until a pressure of 500-1000 psig is achieved. The handle is switched over to the low flow, hi-pressure piston to complete the squeeze.

On pumps after Serial Number 98J011-11 (Sept. 1998) an automatic venting and pressure release cap has been designed to eliminate the need of loosening the plug for breathing. Also, the knurled filler plug has an oil level gauge that should indicate an oil level between the index grooves. The red knurled plug should be replaced finger-tight.



1998- To Present Design

**DO NOT USE A WRENCH!**