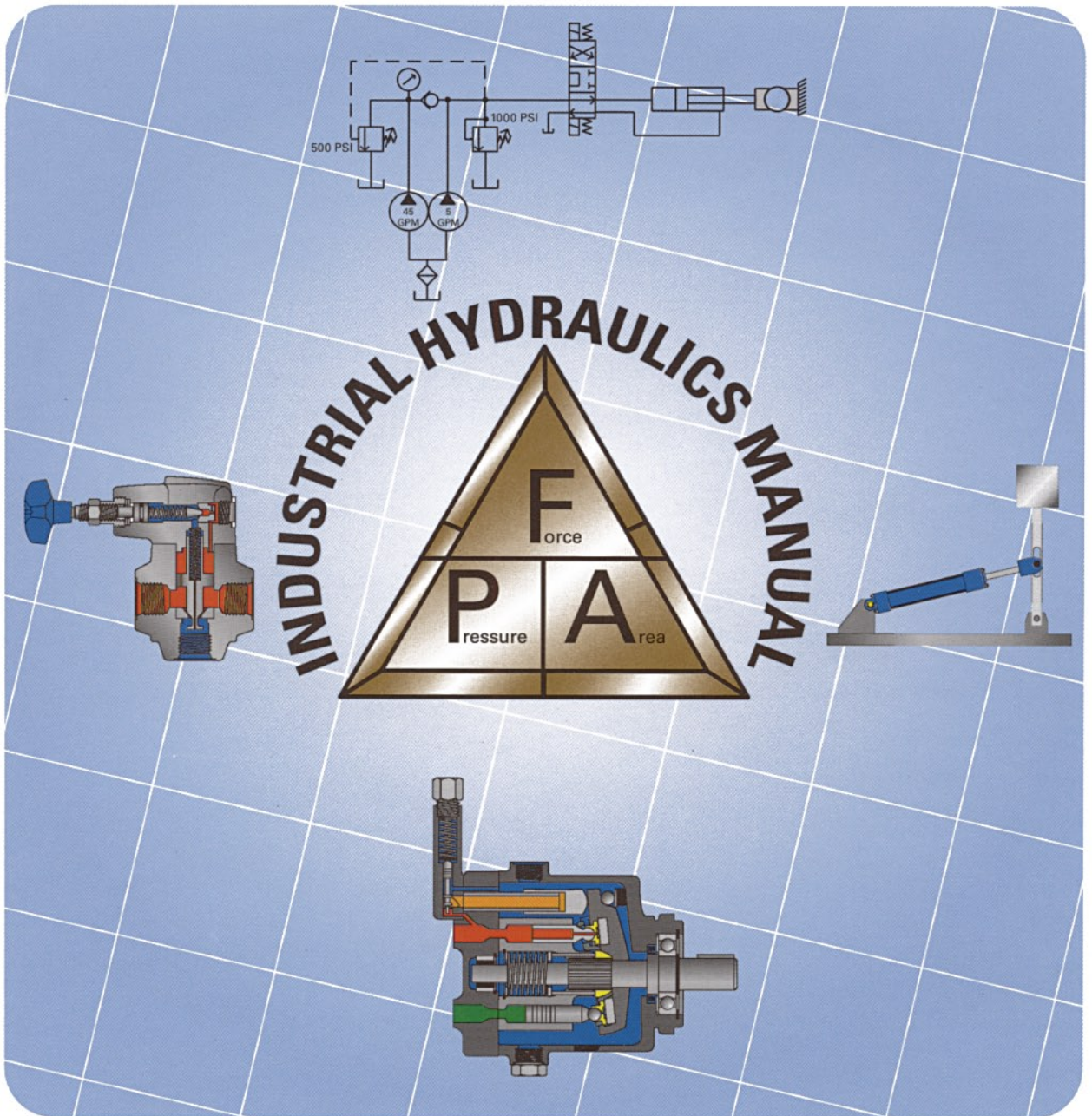




Fluid Power

Industrial Hydraulics Manual



VICKERS

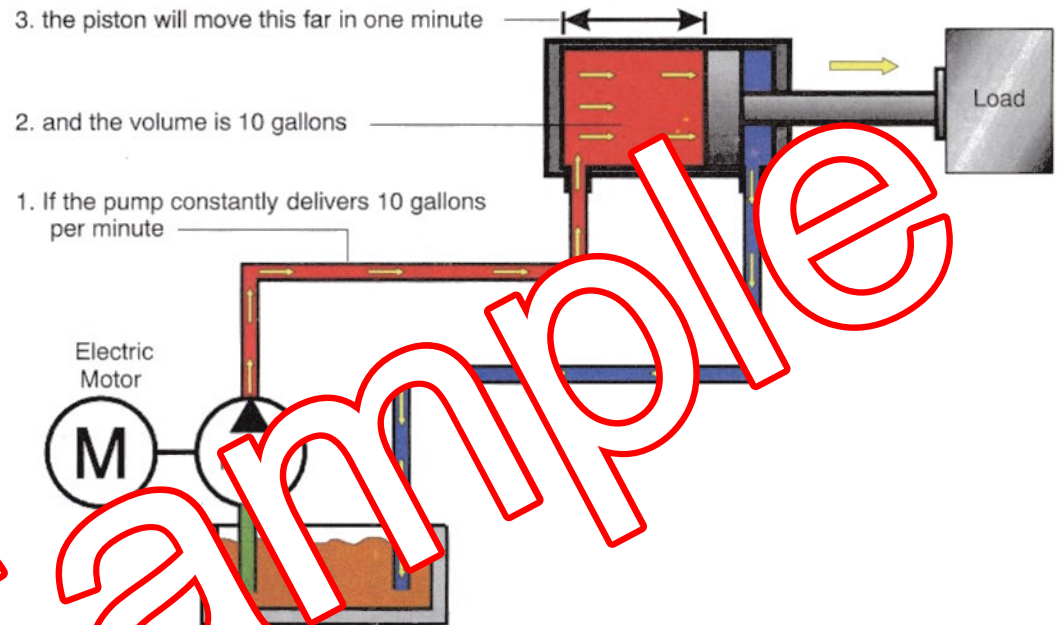
Advantages of Hydraulics

As described below, there are several important advantages of hydraulic systems.

Variable Speed

Most electric motors run at a constant speed. It is also desirable to operate an engine at a constant speed. The actuator (linear or rotary) of a hydraulic system, however, can be driven from maximum speeds (A) to reduced speeds (B) by varying the pump delivery using a flow control valve. A more complete description of various valves mentioned in this introduction section will appear later in this manual.

A. Maximum Speed



B. Reduced Speed

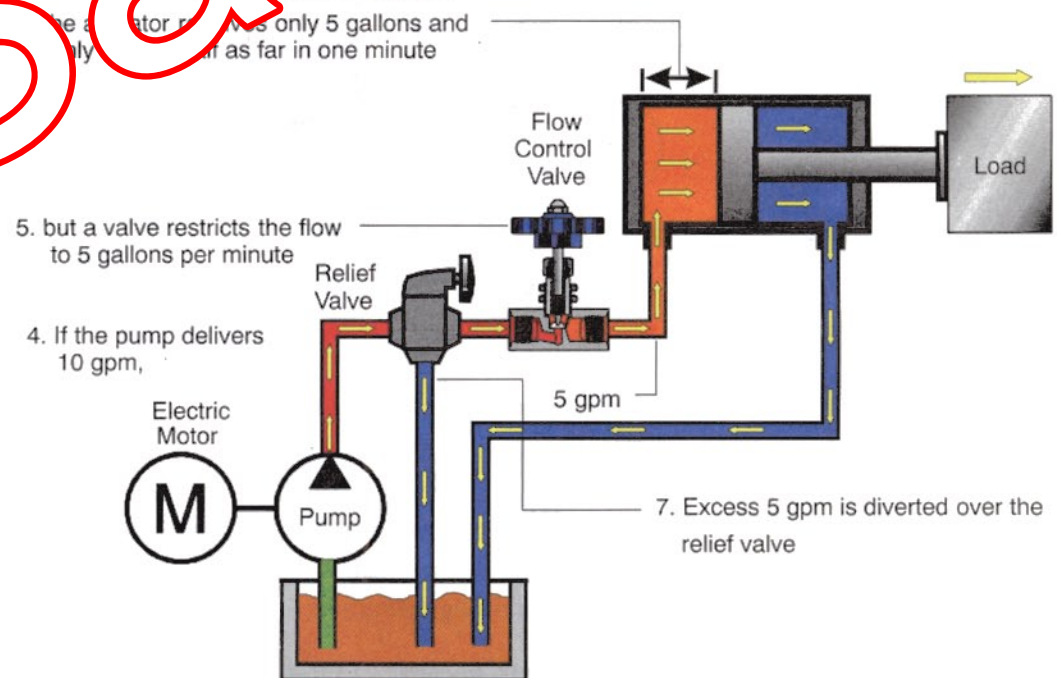


Figure 1-5 Hydraulic speed is variable

