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## Oil Measuring System With Bar Code Reader



A surgical table uses an assortment of hydraulic cylinders for the many critical table motions necessary to properly position the patient for surgery.

Because the surgical table must perform consistently with extreme accuracy, its manufacturer chose G. P. Reeves to design and build the oil dispensing system to accurately fill the many different hydraulic cylinders.



### HOW IT WORKS (short version)

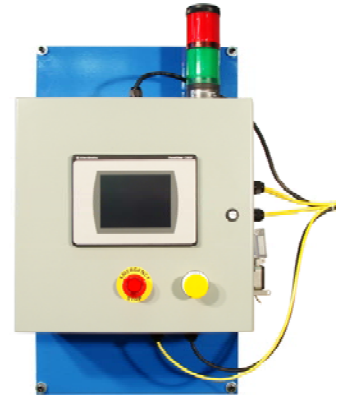
#### Step 1



The bar code reader recognizes the cylinder part number and sends information to the PLC

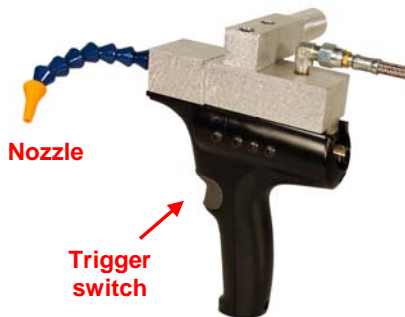
#### Step 2

The PLC looks up an internal table to know exactly how much oil is required to fill the cylinder



#### Step 3

Operator places nozzle tip in the fill opening of the cylinder and actuates the trigger switch



#### Step 4

Volumetric piston dispenser fills the hydraulic cylinder with the programmed amount of oil. The oil flow rate is also controlled by the PLC.



#### ADDITIONAL FEATURES

The specified amount of oil will be dispensed whether the trigger switch is held or released.

Timers are used in the PLC to generate a fault and an alarm after detecting that a fill or dispense cycle has taken an unreasonable amount of time.

#### MORE INFORMATION

A similar oil dispensing system can be purchased for less than \$15,000.

G. P. Reeves also makes grease dispensing systems.