

Operating Principles

With Release Valve (H) TIGHTLY CLOSED:

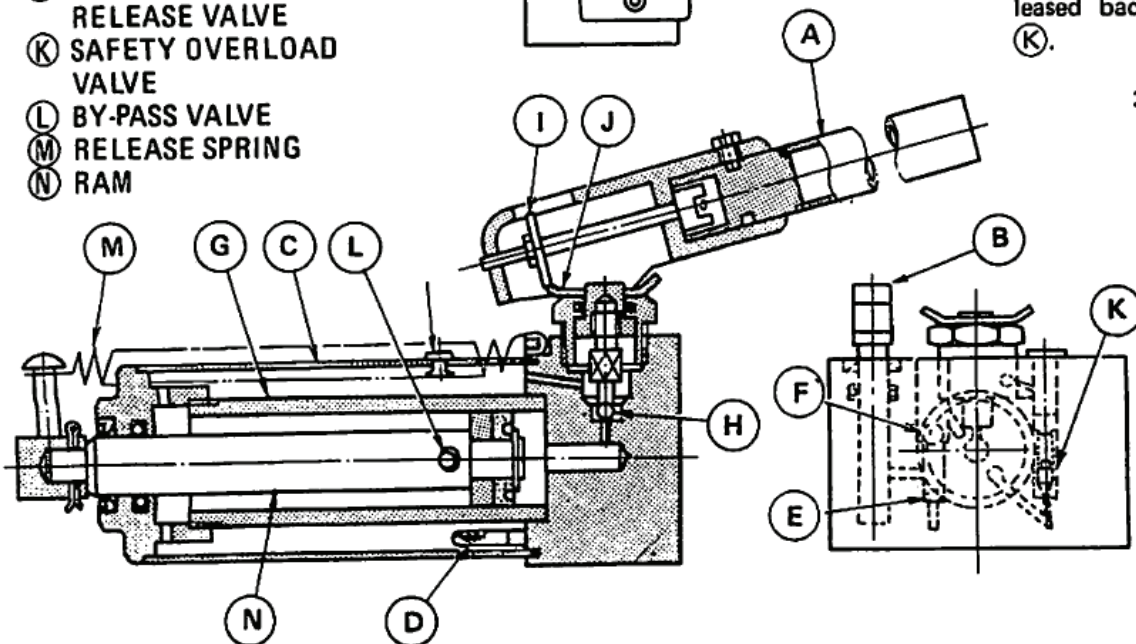
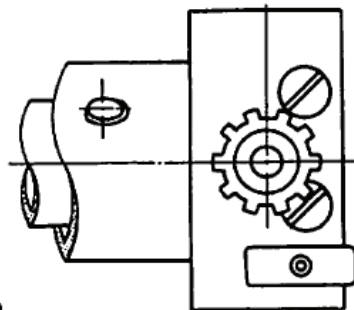
1. Upward stroke draws oil from Reservoir Tank (C) thru Suction Valve Ball (E) into Plunger Cavity. Hydraulic pressure keeps Valve (F) closed, keeping oil in cylinder.

2. Downward stroke of Plunger (B) forces oil into Cylinder thru Delivery Valve Ball (F). Ram (N) is forced out, raising saddle.

If load exceeds rated capacity, oil is automatically released back into Reservoir thru Safety Overload Valve (K).

3. When Ram (N) reaches maximum stroke, oil is by-passed back into Reservoir thru By-Pass Valve (L), thus preventing over-extended Ram Stroke.

- (A) JACK HANDLE
- (B) PLUNGER
- (C) TANK, RESERVOIR
- (D) OIL STRAINER
- (E) SUCTION VALVE
- (F) DELIVERY VALVE
- (G) CYLINDER
- (H) RELEASE VALVE
- (I) GEAR-DRIVE, RELEASE VALVE
- (J) GEAR-DRIVEN, RELEASE VALVE
- (K) SAFETY OVERLOAD VALVE
- (L) BY-PASS VALVE
- (M) RELEASE SPRING
- (N) RAM



When Release Valve (H) is opened, oil is allowed to flow back into Reservoir, releasing hydraulic pressure on Ram and permitting saddle to be lowered.