ROUTINE JACK MAINTENANCE BULLETIN

RJM 117

TO PROVIDE COMPLETE INFORMATION ON SERVICING ColumbusJACK/REGENT QUALITY GROUND HANDLING EQUIPMENT

PROCEDURE FOR ADJUSTING CARTRIDGE STYLE RELIEF VALVES

It is imperative that safety relief valves on all jacks always be set between 105% and 110% rated capacity. The following procedure describes how to adjust cartridge style relief valves.

1) Position jack under jack tester.

2) Fully close release valve.

3) Remove access screw and seal. Install valve adjusting tool, Part No. 915-EB. (See Figure 1)

NOTE: IF TOOL IS NOT AVAILABLE, DISREGARD THIS STEP.

4) Extend cylinder ram(s):

   4.1 On single stage jacks, extend the ram approximately half way.

   4.2 On multiple stage jacks, extend all rams until the smallest ram is extended approximately half way.

5) To set Valves:

   5.1 Using smooth, uniform pump handle strokes, manually pressurize the cylinder while monitoring either jack load gauge or load gauge on tester.

   5.2 Pump handle shall "drop" or "go soft" at an indicated load between 105% and 110% rated load (ex: 50 ton jack should be between 52.5 and 55 tons).

   5.3 If safety relief valve is set too high, release pressure and rotate adjusting screw counterclockwise. Repeat above steps until valve is adjusted in range.

   5.4 If safety relief valve is set too low, release pressure and rotate adjusting screw clockwise. Repeat steps until valve is adjusted in range.

   NOTE: IF ADJUSTING TOOL IS NOT AVAILABLE, IT IS NECESSARY TO RELIEVE PRESSURE COMPLETELY BEFORE REMOVING VALVE ACCESS SCREW AND SEAL. THEN VALVE SET SCREW CAN BE ADJUSTED USING A 1/8 INCH ALLEN WRENCH. VALVE ACCESS SCREW AND SEAL MUST BE RE-INSTALLED BEFORE JACK CAN BE RE-PRESSURIZED.

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6.5 After manual safety relief valve is adjusted, repeat above steps for air of electric pump if applicable.

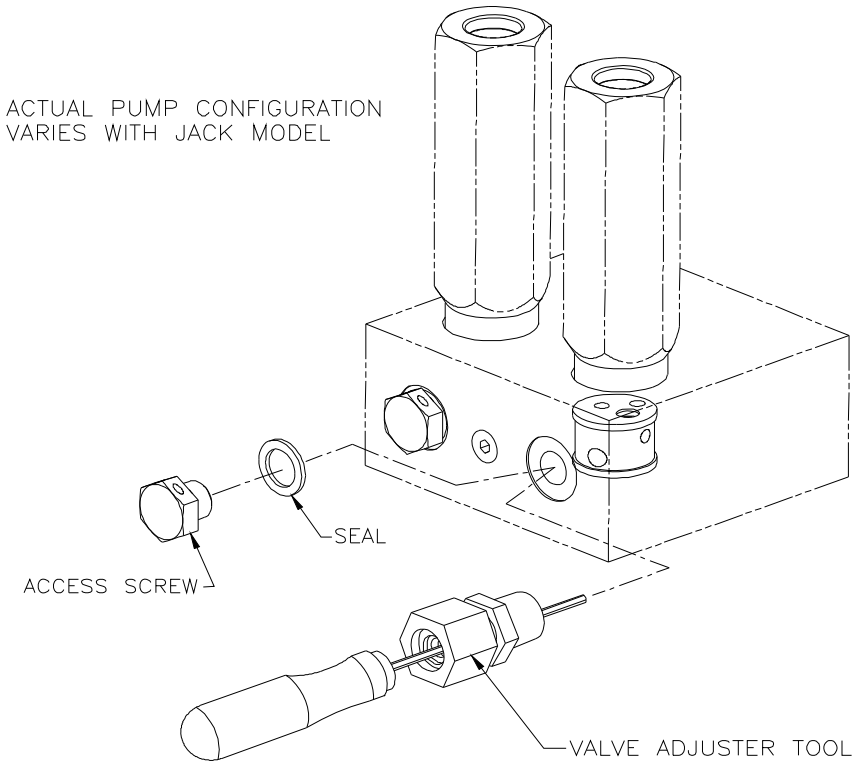

FIGURE 1