



ROUTINE JACK MAINTENANCE BULLETIN

RJM 117

1 OF 2

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

PROCEDURE FOR ADJUSTING 915-16A CARTRIDGE STYLE RELIEF VALVES

It is imperative that safety relief valves on all jacks always be set between rated capacity, and rated capacity plus 10% maximum. The following procedure describes how to adjust 915-16A cartridge style relief valves.

- 1) Refer to individual jack maintenance manual and determine part number of valves incorporated in jack to be tested. Valves will be either a 915-16A-3 or 915-16A-6.
- 2) Position jack under jack tester.
- 3) Fully close release valve.
- 4) 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.

- 5) Extend cylinder ram(s):
 - 5.1 On single stage jacks, extend the ram approximately half way.
 - 5.2 On multiple stage jacks, extend all rams until the smallest ram is extended approximately half way.
- 6) To set 915-16A-6 Valves:
 - 6.1 Using smooth, uniform pump handle strokes, manually pressurize the cylinder while monitoring either jack load gauge or load gauge on tester.
 - 6.2 Pump handle shall "drop" or "go soft" at an indicated load between rated load and rated load plus 10% (ex: 50 ton jack should be between 50 and 55 tons).
 - 6.3 If safety relief valve is set too high, release pressure and rotate adjusting screw counterclockwise. Repeat above steps until valve is adjusted in range.
 - 6.4 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



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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.

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

7) To set 915-16A-3 Valves:

7.1 Set as defined in 6.1 thru 6.4, except valve shall be adjusted at an indicated load of one half jack rated capacity or at a maximum jack cylinder pressure of 2800 psi.

8) After testing is complete, fully collapse ram(s). Partially remove allen wrench by pulling it straight out, then remove valve adjusting tool. Install access screw and seal. Jack is now ready for service.

ACTUAL PUMP CONFIGURATION
VARIES WITH JACK MODEL

