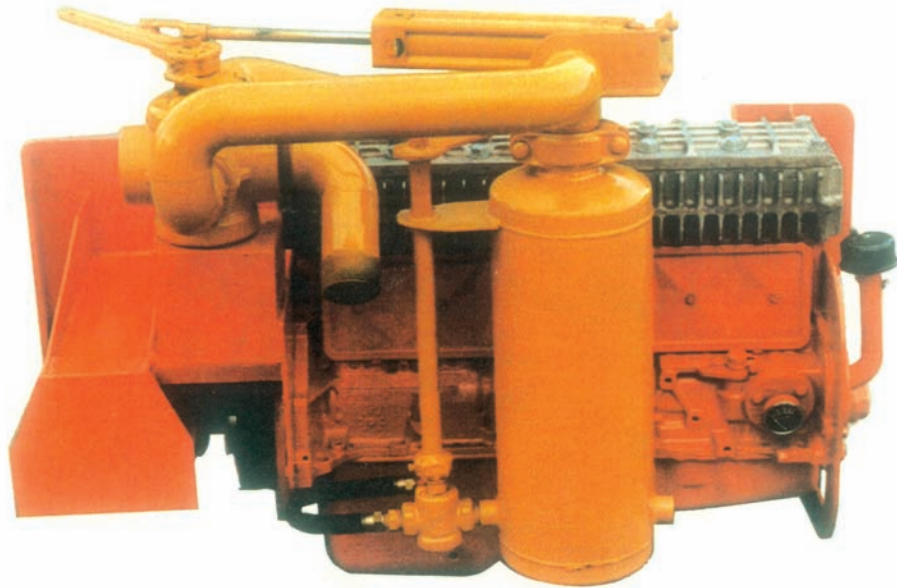




THOMPSON VACUUM-PRESSURE UNITS

THOMPSON MODEL "J" SIDE MOUNTED VACUUM-PRESSURE PUMP



MAINTENANCE INSTRUCTIONS — THOMPSON VACUUM-PRESSURE PUMPS

- Recommended operational R.P.M. 850 to 950.
- Check pump oil pressure and crank case level during operation daily. If oil pressure drops below 20 p.s.i., check the following:

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|---|--|
| A. Oil level. | E. Oil pressure gauge. |
| B. Oil viscosity and proper SAE weight. | F. V-belt tension ($\frac{3}{8}$ " deflection). |
| C. Oil contamination. | G. Lower end-rings, bearings and seals. |
| D. Oil pump intake screen. | H. Oil recirculator return line. |
- Change oil when contaminated, or as recommended, using the following procedure:
 - Drain oil and contaminants from crankcase and 1129 oil recirculator.
 - Fill crank case to within one (1) quart of capacity with diesel oil.
 - Run pump at slow R.P.M. for three (3) minutes, pouring one (1) quart of diesel oil through pump head(s) by removing non-rigid coupling with four-way valve in the vacuum position.
 - Drain diesel oil and contaminants from crank case and 1129 oil recirculator. NOTE: Repeat procedure if required.
 - Replace oil filter, and fill pump and 1129 oil recirculator with oil as recommended.
- Remove pump head cover plate(s) every six (6) months.

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| A. Remove valves, disassemble and clean. | 3. Check 8-C valve springs and replace 15-C gaskets. |
| 1. Replace all broken or worn parts. | 4. Check valve seats in pump head(s). |
| 2. Check 7-C disc. | |

NOTE: Follow this procedure after excessive pullover as hydraulic action will blow out 15-C gaskets on suction valves. Check Air System Maintenance Instructions.

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THOMPSON VACUUM-PRESSURE UNITS

NO. 1129 OIL RECIRCULATOR

- Drain off accumulated condensate and contaminants, particularly in the morning before starting operations and at the close of each shift. Use drain valve on bottom of recirculator.
- Oil recirculator return valve must be in the closed position when the pump is operating under pressure. If not, the crank case will be pressurized and the oil will be forced out the breather and up into the head(s). This will also occur if return valve is defective.

NOTE: The oil recirculator return valve control mechanism may be disconnected and the valve left in the closed position on both pressure and vacuum when handling material that will immediately contaminate the oil. This will prevent the contaminated oil from being returned to the crank case. Oil recirculator must be drained after each operation.

PUMP DRIVE ASSEMBLY

- A new installment must be checked after four (4) hours and again after twelve (12) hours of operation. After initial service check, every forty (40) hours as follows:
 - Driveline companion flange keys and set screws.
 - Bearing set screws and mounting bolts.
 - Sheave bushings, keys and set screws.
 - Sheave alignment.
 - V-belt tension ($\frac{3}{8}$ " deflection) and wear.

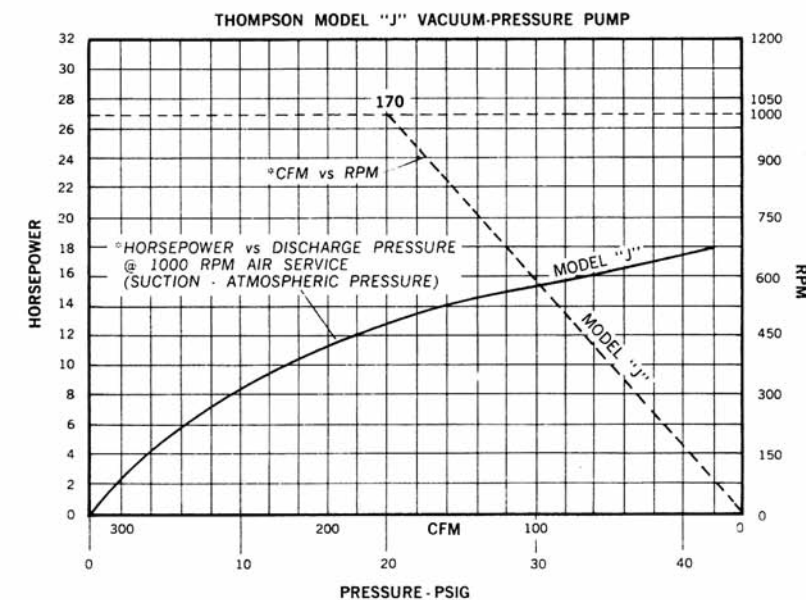
NOTE: It is recommended that if replacement is necessary, replace all belts using a matched set.

 - Flexible coupling as per manufacturer's recommendations.
 - Pump mounting and manifold bolts.

TORQUE SPECIFICATIONS FOR PUMP DRIVE ASSEMBLY

Set screws — 120 ft. lb.

Drive line nuts and bolts — 80 ft. lb.



* Values given are derived through calculation, and may differ with actual values.

