

37. Tubing to pipe adapter, 1/2 NPT to 1/2 - 37°, straight through, Parker no. 8-8-0103-1, 8 ea.
38. Gauge; Heise, 12 in., 12,000 psi max., with automatic thermal compensator and slotted link, port opening in back of case to $\frac{1}{4}$ " N.P.T. female. connect to Autoclave Engineers 5/16 - 9/16 in. "Slimline" tubing for 15,000 psi use. Gage divisions 0-12,000 in steps of 10 psi.
39. Press stand: 1 ea., consists of steel cylinder 20 in. O. D. x 19 in. I. D. x 30 in. long. A ring 18 in. I. D. x 19 in. O. D. x $\frac{1}{2}$ in. wide is welded into one end of the steel cylinder 3 in. from one end. The upright ram base is inserted into the 19 in. I. D. cylinder to a depth of 3 in. and rests on this $\frac{1}{2}$ in. wide ring. The other end of the cylinder is welded to a 1" thick circular steel plate $24\frac{30}{4}$ in. in diameter. This forms the base that rests on the floor. Two equispaced oval holes about 12 in. wide x 24 in. long are flame cut into the sides of the 20 in. diameter cylinder to provide access to the bottom side of the ram base.
40. Control console: Standard Electronics rack.
41. Insulating disks: plastic, fiber reinforced, hard, electrical, 5 in. O. D. x .025 in. thick, 4 ea. (for use beneath positioning ring and back-up block).
42. Fiber washers: # 10 screw size, flat, electrical insulating (for use with positioning ring). 1 box.
43. Washers: nickel or cadmium plated, # 10 screw size (for use in mounting positioning ring). 1 box.
44. Tie bars: 6 ea., stress proof (LaSalle Steel Co.), 100,000 psi minimum yield, to finish 4 in. diameter x 37 in. long.
45. Tie bar set screws: 12 ea., 1/2" - 20 x 1/2" long, oval point.
46. Hydraulic oil: 10 gals, Enerpac premium (Wichita Hydraulic Equipment Co., 314 No. Water St.)
47. Electrical insulating sleeves, 20 ea., .248" \pm .002 O. D. x .025" \pm .002 thick wall x 1" \pm .015 long, for placement within 1/4" holes in positioner.
48. Cooling water inlet and outlet pipes, 8 ea., stainless steel, .250" \pm .001 O. D. x about .156 I. D. x 3-1/2" long. Threaded one end 1/4 - 28 thd. for 1/2" length.

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