

HAND PUMP INSTALLATION INSTRUCTIONS - 11HDS & 12HDS

With depth of well known, assemble cylinder to equal lengths of drop pipe and pump rod. Insert into well and continue to add drop pipe and pump rod of equal lengths allowing for a minimum of 2 feet between bottom of cylinder and bottom of well.

Assemble pump following the procedure.

1. Slip pipe flange (must be ordered separately) over well casing. Flange not required but may be used if preferred.
2. Screw 7/16 x 7/16 rod coupling (may already be installed) onto pump rod. Assemble pump rod extension (HD90) securely into rod coupling. Assemble rod coupling supplied with pump (7/16x7/16RC) onto top of rod extension followed by piston rod (DP72).

Note: When tightening piston rod into rod coupling, grip piston rod as close to rod coupling as possible to avoid damaging the rod surface that passes through packing assembly.

3. Guide pump base over piston rod and attach base securely to drop pipe. Note: Base is internally tapped 1-1/4" NPT.

4. Position packing washer (O81) onto top of pump base.

5. Guide cap and inner shroud assembly over piston rod until it rests on top of packing washer and pump base. Tighten 3 set screws uniformly and securely to draw cap down tight upon base and washer.

6. Install Teflon packings (DP134), consisting of 3 rings, one ring at a time, into packing housing and around piston rod, being sure each ring is properly seated in bottom of housing. Note: Alternate cuts in ring approximately 90° from each other when installing.

7. Install packing nut (O31) and tighten down onto packing until a slight drag is felt on piston rod when raised. Note: It may be necessary to tighten further if leakage is noted when pump is in operation. Overtightening may make operating pump difficult.

8. Guide outer shroud (DP66P) over inner shroud followed by spacer ring (DP61) and spacer washer (DP62).

9. Install one jam nut (DP22) and tighten, then install other jam nut and tighten followed by top cap (DP60P).

10. Assemble pump handle (HF153) to fulcrum using pin (O54) and cotter pin (HD58). When installing pump handle with pin in position shown on drawing there will be a 10" stroke. Length of stroke may be varied to 7-1/2" or 5" simply by using one of the other holes available in pump handle.

11. Attach pump handle to outer shroud using pin (HF61) and cotter pin (HF57).

12. Lower the pump onto the pipe flange and secure to flange. Note: Be sure that pipe flange is properly secured to the well casing.

13. With pump handle operated in the extreme upper or lower position, the cylinder plunger must not strike the bottom or top of cylinder in these positions respectively. Some adjustment in length of Drop Pipe or Pump Rod may be required to utilize the 10 inch stroke.

14. Attach syphon spout (O9) for 11HDS) or bibb spout (O7 for 12HDS) along with gasket (O80) to base using the 2 carriage bolts and nuts provided.

15. Attach Screen Adapter Assembly (HD189, DP31, HD190) to end of spout, 1/4 turn and tighten set screw to lock to spout.

