



## **INSTALLATION INSTRUCTIONS**

### **CUSTOM INDUSTRIAL PITLESS UNITS FOR SUBMERSIBLE PUMPS 10" through 36" WELL SIZES**

**NOTE:** Pitless Units are attached to the well casing by welding.

1. All pitless unit cases are joined by welding or threading the unit to the well casing, or kwikonect style by slipping the unit onto the top of the well casing and tightening the bolts.
2. Establish ground level at the well location. It is desirable to have the ground slope away, from pitless unit case, in all directions.
3. The pitless unit upper casing should extend above the ground level according to state well code. To accomplish this the well casing must be cut off at a distance below the ground level equal to the overall pitless unit length, less the length the pitless unit upper casing is to extend above the ground.
4. In order to do work, excavate around the well casing according to government regulations where well casing is to be cut off.
5. Cut off the well casing PERPENDICULAR to the well casing center line.
6. Remove the pitless unit cap, loosen the hold-down hooks or spider, and remove spool assembly.  
**NOTE:** (the spool assembly includes a spool with two or no silent check valves; two o-ring seals, lift-out pipe and bail, or hold down spider.
7. Lower the pitless unit into place and rotate the discharge outlet to the desired location and weld the pitless unit to the well casing. **THIS JOINT MUST BE WATERTIGHT AND IT IS ESSENTIAL THAT THE CENTER LINE OF THE PITLESS CASE AND WELL CASING BE THE SAME.**
8. The submersible motor, pump and cable are attached to the drop pipe and then lowered into the well. When the top of the last section of the drop pipe is one foot or more above the pitless case screw the spool assembly onto the drop pipe.
9. Wipe the rubber o-ring seals with a clean cloth and then coat with a heavy layer of petroleum jelly (vaseline) for proper seating of rings. Lower the spool assembly, drop pipe with motor, pump and cable into place.
10. Install and tighten hold-down hooks/hold down spider.
11. Complete electrical service and install pitless cap.
12. Connect discharge outlet to distribution line and complete all wiring.
13. The unit is now ready to operate under power and should be run a sufficiently long time to see that there are no leaks present.
14. The hole should not be filled in until the unit is running satisfactorily. Care should be exercised to fill under discharge line properly before back filling.

**NOTE:** Dissimilar metals should be avoided.

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