Determining the Right Pump for You?

The two most common pumps offered by Bison Pumps are the Deep Well Hand Pump and a Shallow Well Hand Pump; both made of 304 stainless steel. The Bison Shallow Well Hand Pump is a suction lift hand pump.

- The Bison Shallow Well Hand Pump is used when the static water level is 25 vertical feet or less. *(Static water level is equal to the vertical distance from the top of the ground down to the top of the water in the well).*
- A Bison Shallow Well Hand Pump is typically installed in the basement of the home or at the kitchen sink.
- The one-piece shallow well pump can be drained by simply lifting the handle as high as it will go to trip the drain valve in the cylinder.
- Bison Pumps also offers a 2-piece shallow well hand pump for the same price as the one-piece shallow well hand pump.

The options available for the Shallow Well Pump include:

- An “S” handle which is longer to provide for more leverage
- Powder coat ed finish - green or red are our basic colors; other colors available upon request. Please call for a quote.

The Bison Deep Well Hand Pump is a lift pump. The pump cylinder is installed typically 20’ below the static water level in the well. The Deep Well Pump is installed outside on top of the well casing. The pump cylinder is connected to the pump head on top of the casing with 8’ sections of 1 ¼” sch. 120 PVC pipe and 3/8” stainless steel lift rod. The size of the cylinder is based on the available space beside the existing electric submersible pump and the depth of the static water level in the well. *(See resource page for suggestions and performance of each cylinder).* Deep well cylinders are available in 1 ½", 2", 2 ½", and 3" sizes. If the casing is only 4" and also has an electric submersible pump in the well, then the Bison Inline pump and cylinder may be an option. The inline cylinders are available in 2" and 2 ½" sizes. Please call for more information and pricing.

Prior to ordering a Bison Deep Well Hand Pump, please review the “How to Order Your Bison Pump” section of our brochure (available on the Resources page) or watch the video of “How to Measure a Well Casing” (available on the Videos page).

The options available with the Bison Deep Well Hand Pumps include:

- Conduit ell fitting; if the electric wires for the submersible pump exit the top of the casing, the conduit ell will divert the wires out the side of the casing.
- Adjustable Rod and Lifting Tool; if more than 14 lengths of pipe and rod are purchased for your installation, the adjustable rod and lifting tool will be needed.
- Powder coated finish - green or red are our basic colors; others colors available upon request. Please call for a quote.

Bison Pumps does extensive design and production of custom hand pumps. Please call with your specific needs.