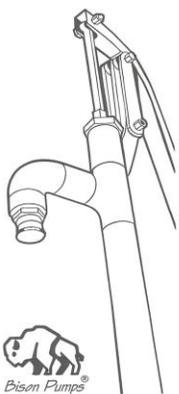


## BISON SHALLOW WELL HAND PUMP QUICK DISCONNECT INSTALLATION MANUAL



[www.bisonpumps.com](http://www.bisonpumps.com)

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**WARNING:** All pumps are shipped with a stainless steel male pipe thread hose adaptor. You may want to check local codes to see if a hose Bibb backflow preventer should be used when connecting a hose to the hose adaptor on the pump. **CONSULT YOUR LOCAL PLUMBING CODE!!**

**STEP #1** - Inspect the contents of the box to be sure everything you ordered has been received. Be sure to check the serial number on the well head assembly #SW1-WO to be sure it matches your invoiced/packing list.

**READ ALL INSTRUCTIONS COMPLETELY BEFORE INSTALLING THE PUMP.**

**STEP #2** - Begin the installation of your **Bison Shallow Well Pump**. If you are installing the pump on a counter top, refer to "Detail A"

*Note: Before you drill any holes in the counter top, be sure to carefully inspect the underside of your counter to be sure there are no obstructions with the installation of the (4) anchor bolts. Use the enclosed template to locate the base flange on the countertop.*

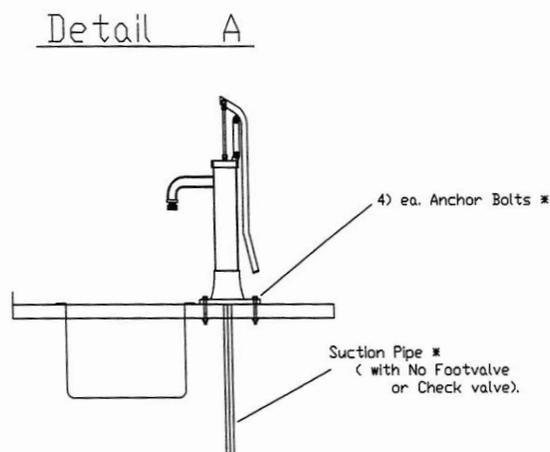
*Note: The Bison Shallow Well Pump has (4) stainless steel screws in the top of the pump head. These screws can be removed to allow you to rotate the top plate and handle assembly so that you end up with either a left hand pump, a right hand pump, or a straight in-line pump. These screws are also used to remove the entire pump mechanism from the pump body.*

**STEP #3** - Once you have determined the location of your hand pump, line the flat edge of the pump base with the edge of the sink. With a pencil, use the template provided to align the base flange with the edge of the sink. The flat edge of the template shall line up with the edge of the sink. Mark the (5) holes in the base of the hand pump on the counter top. Set the pump aside and drill (4) 3/8" holes and the 2 1/4" center hole in the counter top to allow installation of the hand pump.

*Note: Bolts are not provided. Purchase (4) 3/8" 304 stainless steel bolts the proper length that you need along with (8) 3/8" 304 stainless steel flat washers and (4) 3/8" 316 stainless steel nylock nuts. BE SURE TO PURCHASE STAINLESS STEEL HARDWARE.*

**STEP #4** - Place the hand pump in position lining up the (4) holes in the counter top with the (4) holes in the pump base flange. Install the stainless steel nuts and bolts and tighten securely.

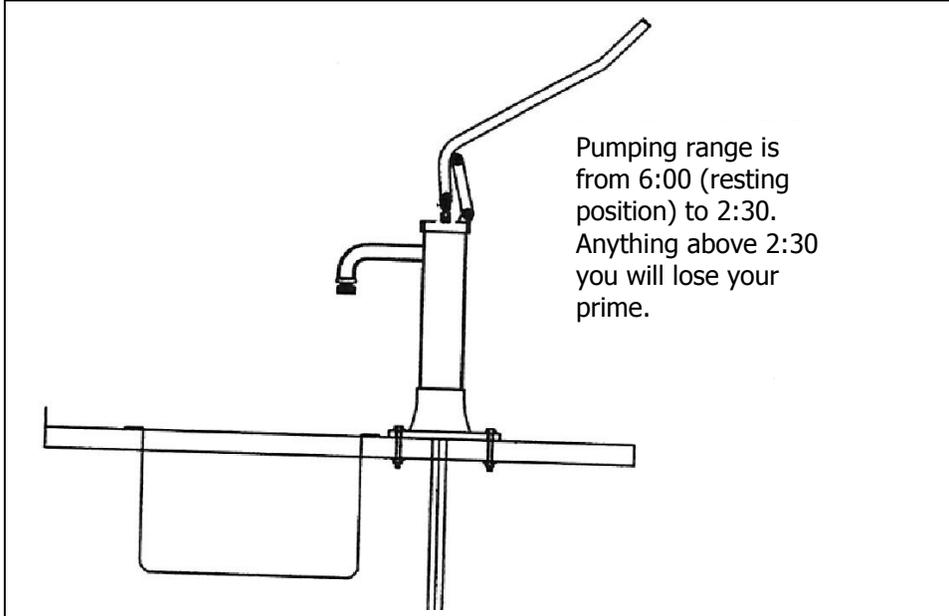
**STEP #5** - Connect the water suction line to the base of the hand pump under the kitchen counter. The 1 1/4" female pipe thread at the base of the pump can be reduced to fit any size pipe 1 1/4" and smaller. With the stainless steel c-clamp and neoprene gasket supplied, connect the pump to the disconnect adapter flange by wrapping the clamp around



the flange and hand tighten until the pump is secure.

**Note:** Do not install a check valve under the hand pump and do not install a foot valve at the end of the suction line. You should, however, install some sort of a screen on the end of the suction pipe that is in the water. One suggestion would be to purchase a typical brass foot valve and remove the internal check valve of the foot valve and use this as the screen. If pulling water from a lake or stream, it is also a good idea to wrap the foot valve (less check) with a fine mesh nylon screen.

**STEP #6** - The installation is now complete. Pump your **Bison Shallow Well Hand Pump** until you get water. No priming of the pump is necessary.



**Note:**

To drain the hand pump and suction piping to eliminate freezing, simply raise the handle all the way up. (see diagram above). This will allow the hand pump and piping to drain back to the water source.

The installation is now complete. Enjoy your **Bison Shallow Well Hand Pump!**

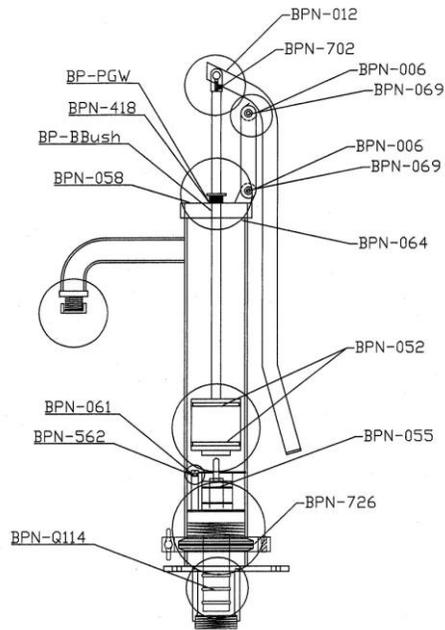
**NOTE:** Each *Bison Shallow Well Hand Pump* is manufactured with a plug in the top cap to fill the pump body with Propylene Glycol (food-grade antifreeze) if you choose. A wrench (BPN-333) is

*included with your order for plug removal and re-installation.*

On the top of the pump body is a gland nut which the lift rod slides through when pumping your hand pump. *This nut should be hand tight.* If there is leaking through this nut when pressurizing a vessel, then tighten this gland nut a quarter turn. **Do not overtighten** as this may cause difficulty in pumping your hand pump or damage to your lift rod.

*Bison Pumps will not be held responsible for defects or damage to this product due to inexperienced or negligent workmanship during installation of the pump and associated parts.*

## **BISON PUMPS SHALLOW WELL QUICK DISCONNECT PUMP PARTS BREAKDOWN**



**BPN-RPK-SW1-QD Shallow Well Repair Kit**

BPN-006	Wash Flat Nylon 3/8" x1-1/16
BPN-702	Roll Pin
BPN-058	Scr Count 304 s/s #12-24x 3/4"
BPN-052	Cup Seals Top Buna 2-3/4" Cyl
BPN-064	O-Ring Buna 3" or 2-3/4" Cyl
BPN-069	Nut Ny-locknut 316 3/8"-16
BPN-418	1/2 x 1" cup seals
BPN-Q114	O-Ring Buna QD
BPN-726	Gasket Buna 3" QD

**Part Number Optional Accessories**

BPN-330C	Valve Check for Pressurizing Tanks
BPN-333	1/4" Hex L Key Ball Point