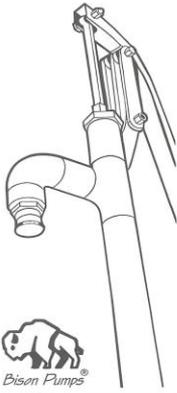


BISON SHALLOW WELL HAND PUMP INSTALLATION MANUAL



www.bisonpumps.com

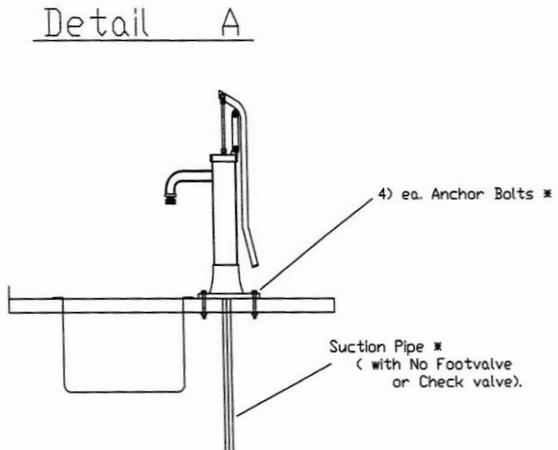
BISON PUMPS
98 BANGOR STREET
PO BOX 977
HOULTON, ME 04730
1-800-339-2601
INFO@BISONPUMPS.COM

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!!**

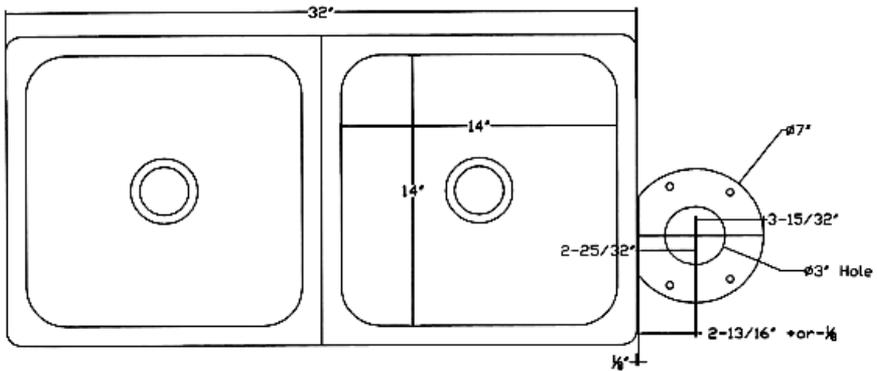
STEP #1 - Inspect the contents of the box to be sure everything you ordered has been received. Be sure to check the serial number on the well head assembly #SW1-WO to be sure it matches your invoice/packing list.

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.



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 tape measure, determine the center of the 2 3/4" hole that will be drilled through the countertop. After the hole is drilled, set the pump on the countertop and trace the four bolt holes and drill the holes with a 3/8" drill bit.

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 #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.

Note: Four 3/8" x 2 1/2" carriage head bolts, washers and nuts are provided to anchor the pump to the countertop.

STEP #5 - Connect the water suction line to the base of the hand pump under the kitchen counter. The 2" female pipe thread at the base of the pump can be reduced to fit any size pipe 2" and smaller.

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.

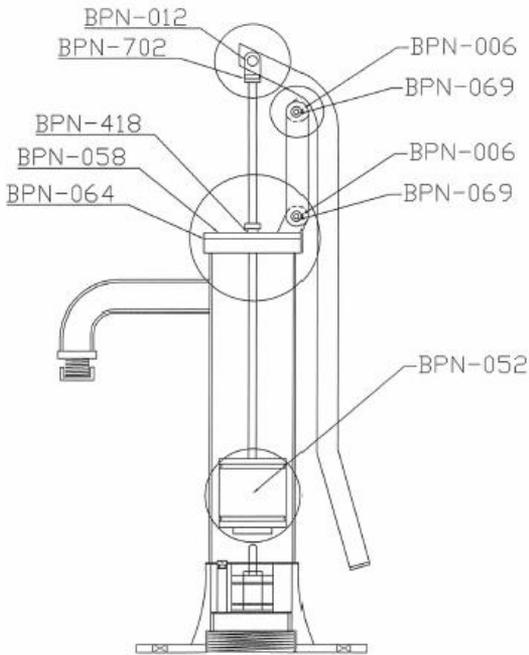
Note: To drain the hand pump and suction piping to eliminate freezing, simply raise the handle all the way up. (see diagram above). This will allow the hand pump and piping to drain back to the water source.

***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 PUMP PARTS BREAKDOWN



BPN-RPK-SW1 Shallow Well Repair Kit

BPN-006	Wash Flat Nylon 3/8" x1-1/16
BPN-018	scr Cup P.Set 316 1/4"x1/4"
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
BP-PGW	Packing Gland Washer
BPN-418	½ x 1" cup seals
BPN-061	O-Ring D Pin Buna 2-3/4" cyl
BPN-562	O-Ring Drain Pin Seat
BP-BBush	Bushing Bottom for Packing Gland

Part Number Optional Accessories

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