

SLX-40-S (Standard) & SLX-40-HF (High Flow)

User Guide

This guide explains how to operate the SLX-40. The SLX-40 is designed to give many years of trouble-free service and peace of mind. Impact Pumps will contact you to confirm your 5 year warranty has been activated and to check that you are fully satisfied with the installation, we will do this within 48 hours of your certified installer submitting your 'Site Installation Report'.

The SLX-40-S can lift water from up to 50m depth and can deliver up to 3,000 L/h The SLX-40-HF can lift water from up to 50m depth and can deliver up to 6,000 L/h

If you have a basic set-up for the Standard SLX-40 (without an Impact Pumps well head), please also refer to the separate sheet "SLX-40 Basic Set-Up Installation and User Guide"

To access further support, including in other languages such as:

- Français,
- Español,
- Português,

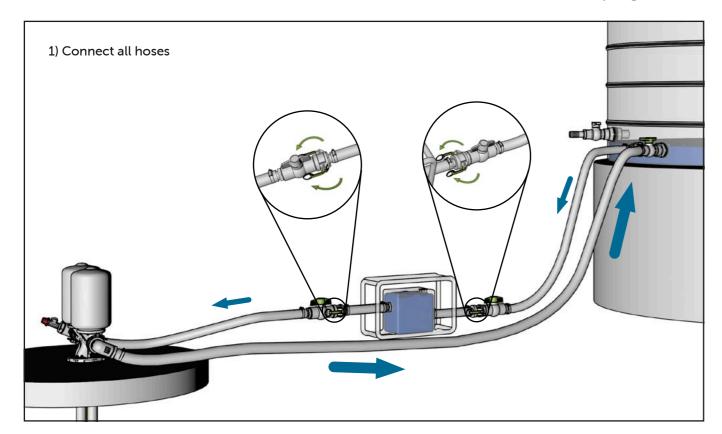
Visit www.impactpumps.com/support or scan this code:

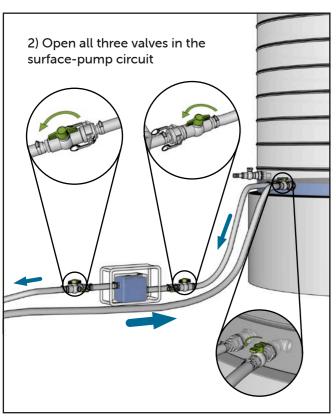


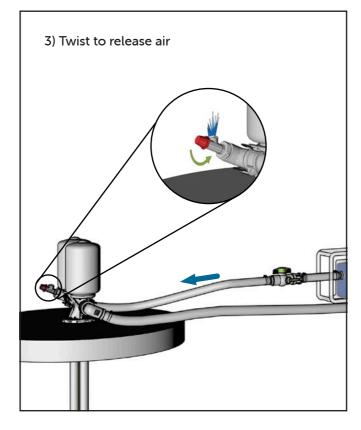
Quick Start Operating Guide Page 2
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Troubleshooting Guide Page 10

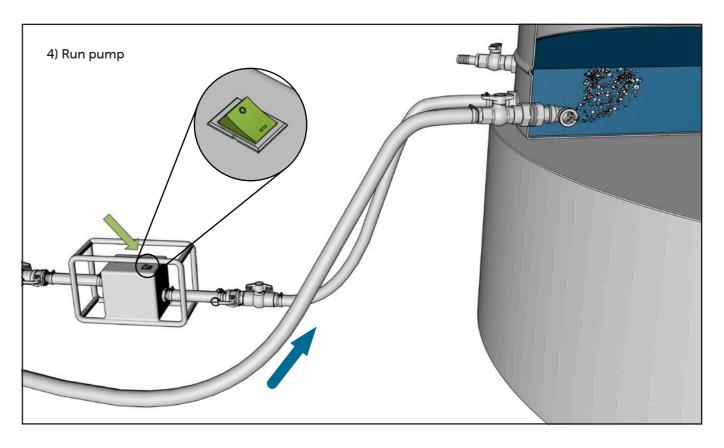
SLX-40 Quick Start Operating Guide

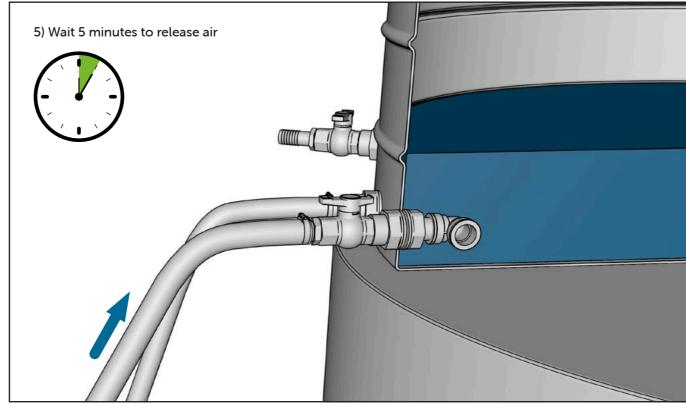
For after installation. More detailed instructions are on page 4







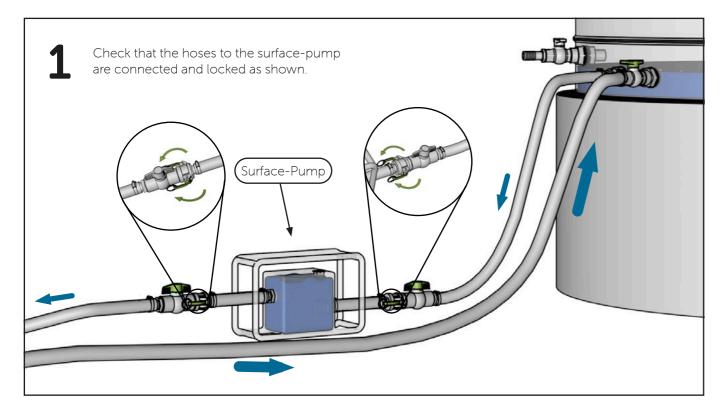


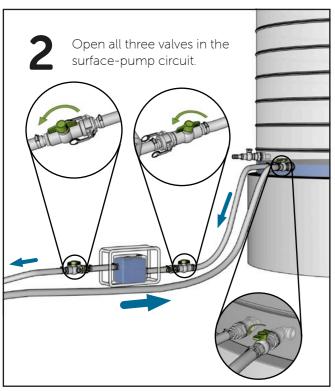


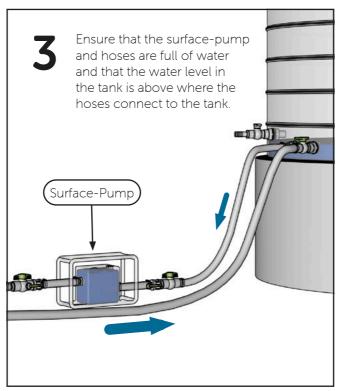
Water pumped down into the SLX-40 is returned with extra water lifted from the well.

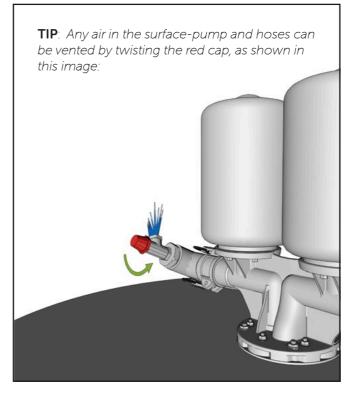
SLX-40 Operating instructions

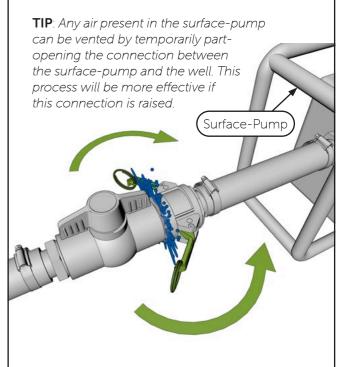
The SLX-40 has been designed to allow the user to remove the surface-pump easily for safe storage or use in other applications such as surface distribution. These instructions are intended for first time users or use after the surface-pump has been removed and replaced. They cover priming, switch on and operation.

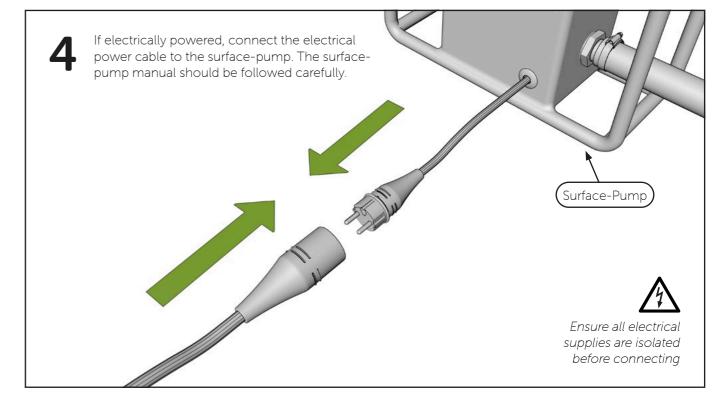




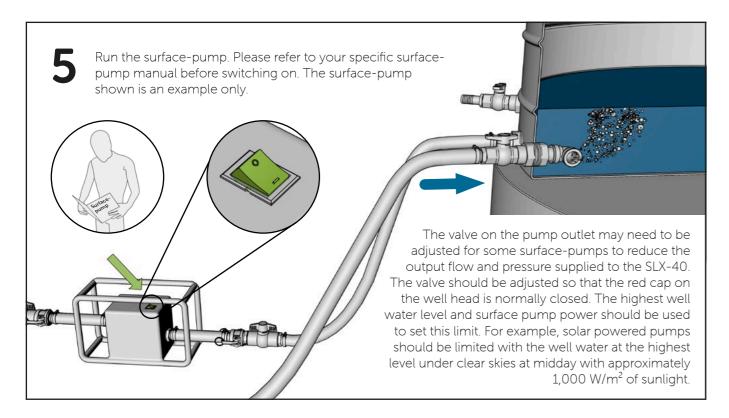


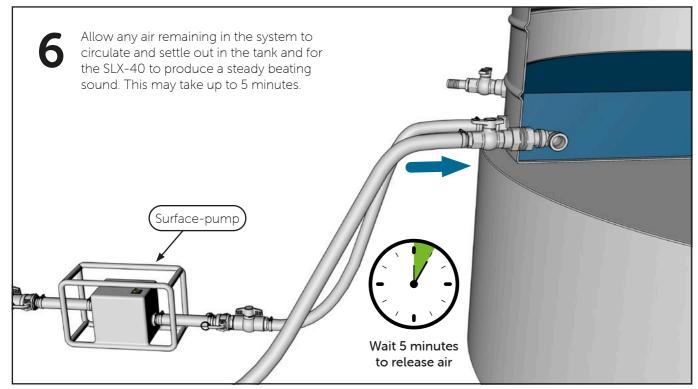






SLX-40 Operating instructions

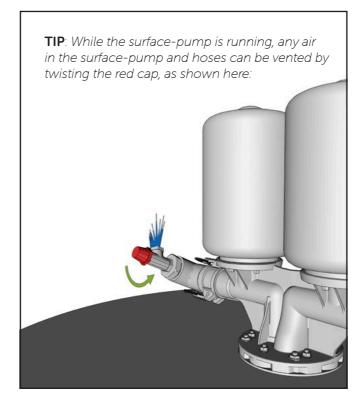




TIP: The SLX-40 may run irregularly and not add water to the tank if there is air in the system. Ensure that all the hoses are full of water and that the tank ports are always covered by water and no air is sucked in when the pump is switched on.

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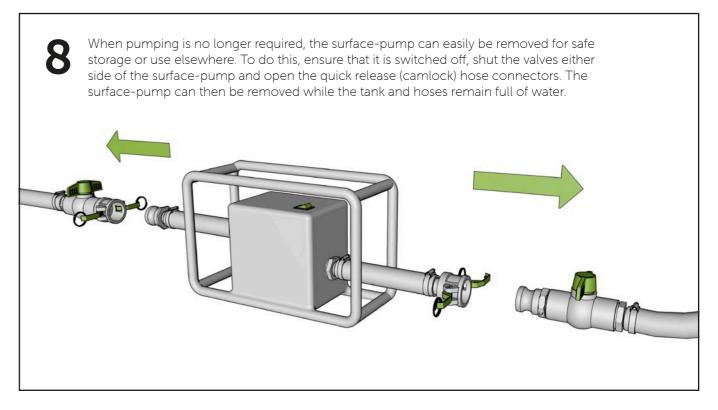
WARNING! EXCEEDING THE PRESSURE HEAD AND FLOW SPECIFICATIONS MAY DAMAGE THE SLX-40 AND VOID THE WARRANTY.



7 The SLX-40 should now start lifting more water to the surface tank than is pumped down the well.

Thank you for choosing the Impact Pump SLX-40. The SLX-40 is designed to give many years of trouble-free service and peace of mind. In the rare event that you may need any further support, there is a quick troubleshooting guide on page 10 and you can contact Impact Pumps by visiting www.impactpumps.com/support or by scanning this code:



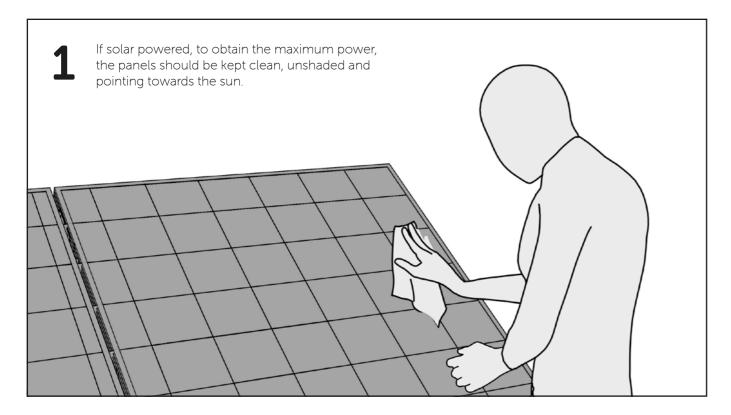


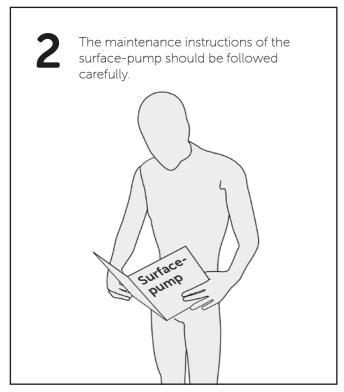
TIP: If the lengths of hose on the surface-pump are sufficiently long, they can optionally be joined together to keep the surface-pump primed. This will make it heavier to transport, but introduce less air for removal the next time it is used.

SLX-40 Care and Maintenance Guide

Maintenance of the Hoses, Tank, Surface-Pump and Solar-Panels

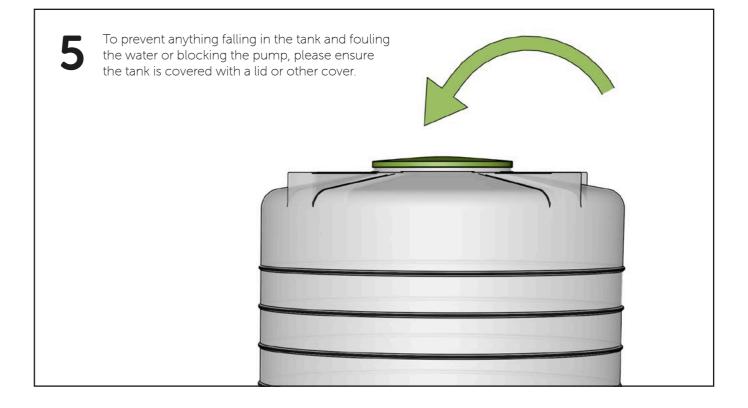
The only regular care required for the SLX-40 system is maintenance of the hoses, tank, surface-pump and, if solar powered, the solar panels.

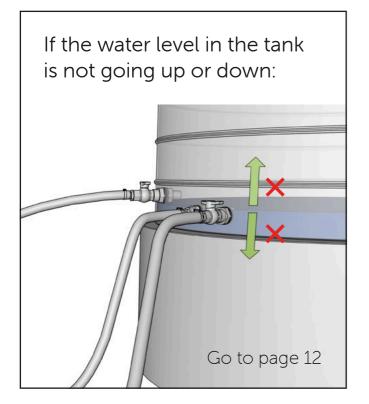


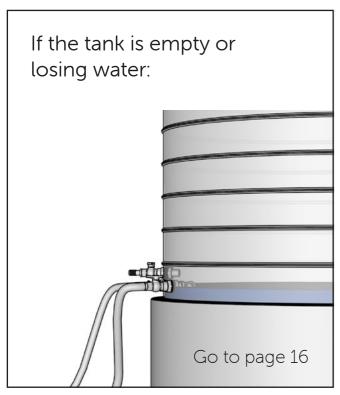


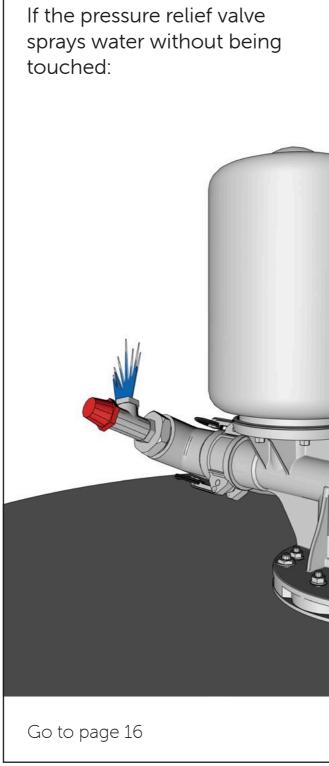
Depending on the quality of the hoses purchased by the user, the hoses may degrade, split and leak in strong sunshine. This may only cause a very slow leak and there is no risk of damage to the SLX-40. However, all damaged hoses should be repaired or replaced.

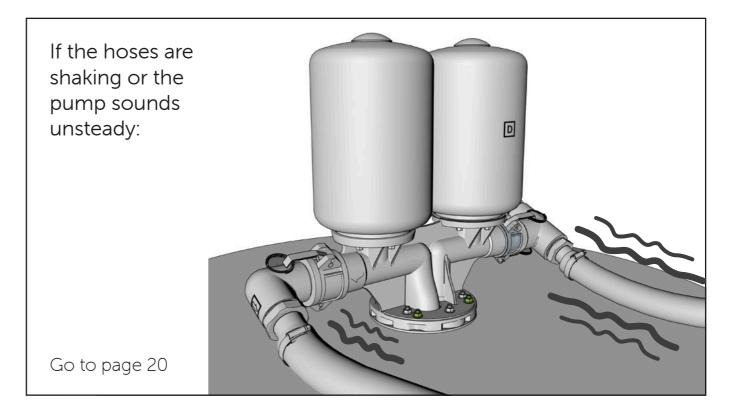
Depending on the well water quality, the tank and inlet filter may need cleaning occasionally.

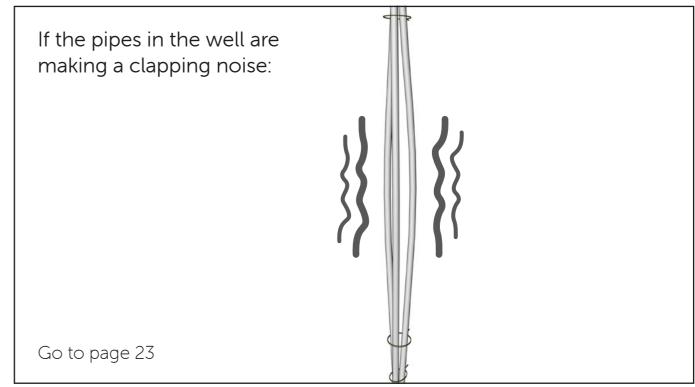










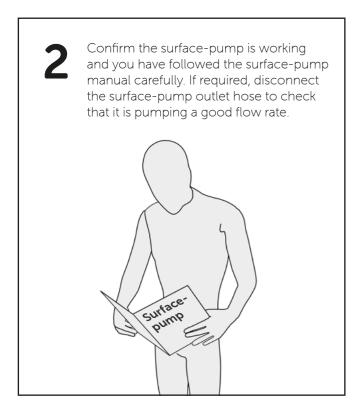


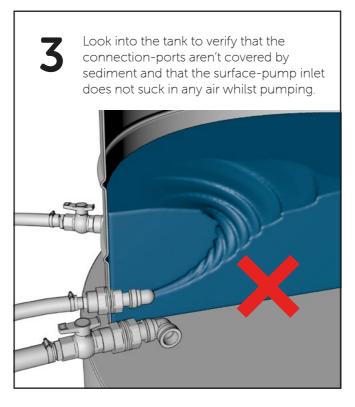
If the water level in the tank is not going up or down

1

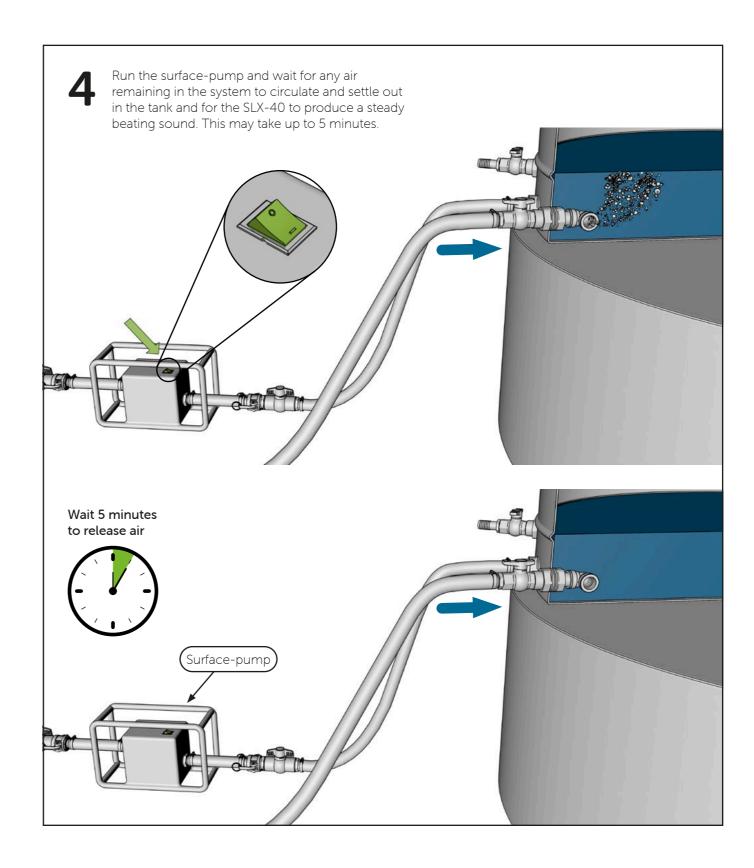
Repeat steps 1-6 of the Operating Instructions above.

TIP: The water level can be monitored easily using a weighted bottle floating on the tank water level which is connected via a string to a weight on the outside of the tank wall. The weight on the outside of the tank then provides a quick visual guide to the water level on the inside of the tank. Ensure that the tank remains covered with a lid or other cover at all times





TIP: If a whirlpool is seen inside the tank then the water level in the tank is too low for the flow rate being pumped. Allow the tank to fill to a higher level. If this occurs regularly, you will need to rotate the elbow on the inside of the tank so that it points more downwards.



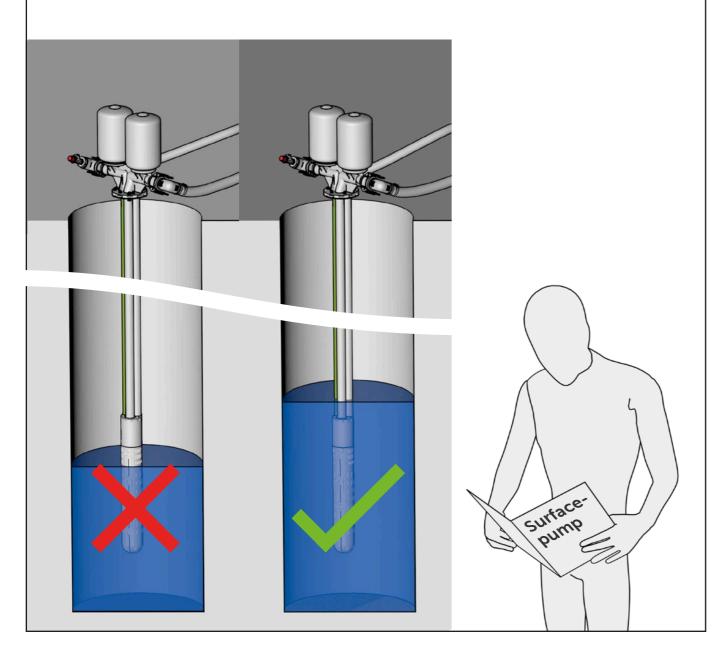
If the water level in the tank is not going up or down (continued)

5

Check the water level in the well is covering all of the SLX-40 well inlet filter.

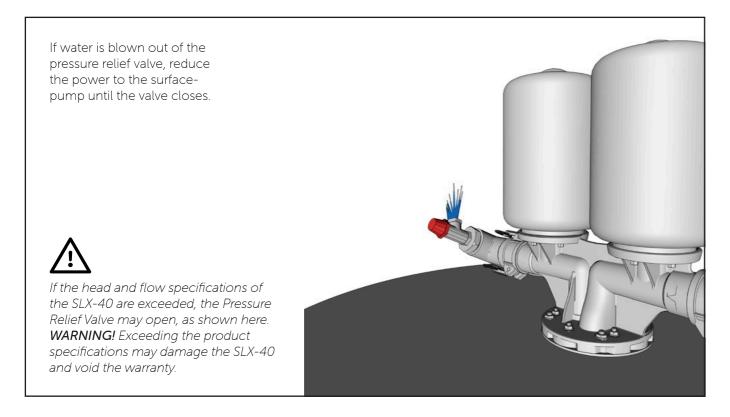
If the level has dropped too low:

- The SLX-40 is designed to tolerate periods of dry-running, and will automatically re-start pumping once water levels recover. However, it should not be left to run dry deliberately as this could place undue stress on its components and might eventually reduce their lifetime.
- Stop the surface-pump and allow the well to re-fill.
- Re-start the surface-pump at a reduced flow rate if possible, else, stop it before the well empties again.

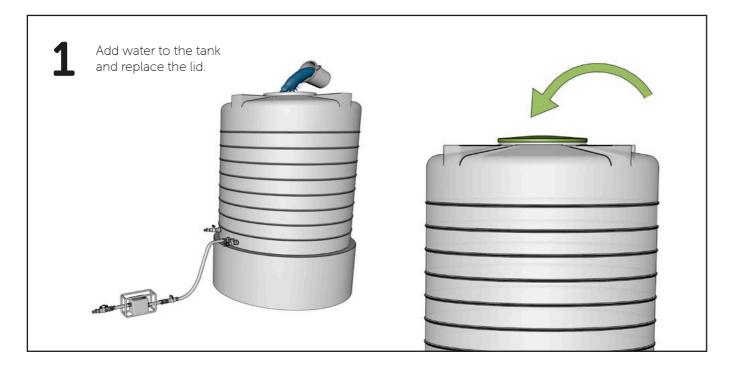


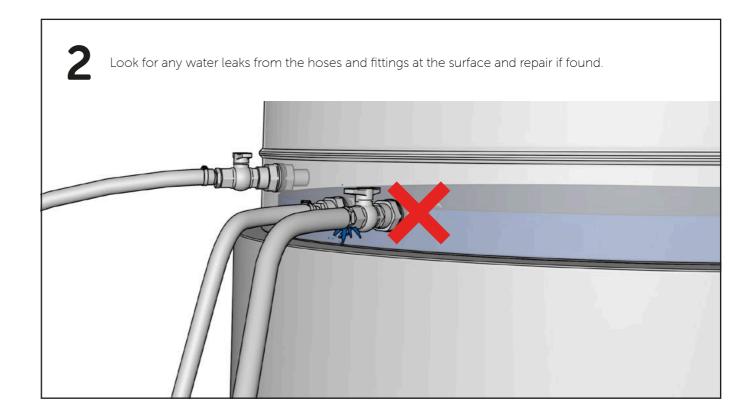
If the above steps have been followed and the problem persists, please continue to page 18 for the guide to removal of the SLX-40 from the well

If the pressure relief valve sprays water without being touched

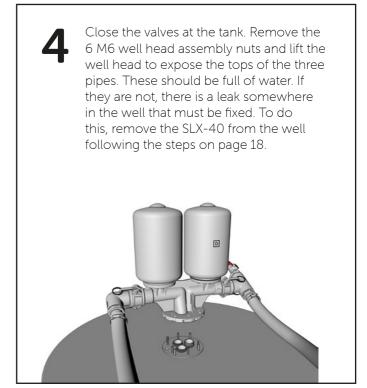


If the tank is empty or losing water

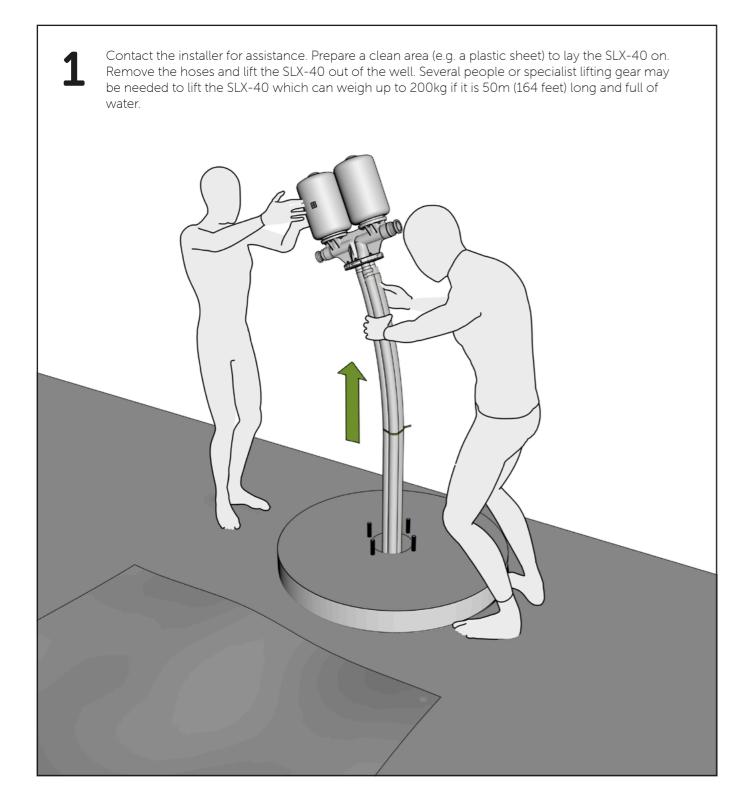




Confirm the steps on pages 12, 13 and 14 have been checked.

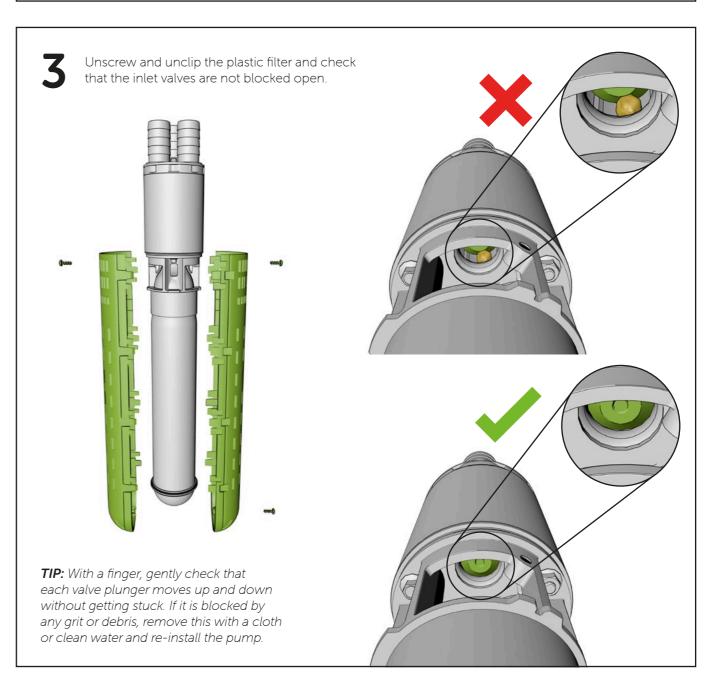


Removal of the SLX-40 from the well



TIP: If it is too heavy to lift, the SLX-40 can be made much lighter by blowing air down the 2 HDPE riser-pipes and allowing water to come back up the HDPE down-pipe. To do this, close ALL the valves and disconnect the surface-pump and $1\frac{1}{2}$ " hose from the larger hosetail on the well-head (D). Now open only the SLX-40 inlet valve C that is normally connected to the surface-pump outlet, and arrange to blow air into the large $1\frac{1}{2}$ " hosetail with an air compressor, or tyre pump. It may take more than 10 minutes of air-pumping for pressure to build up sufficiently to push the water out.

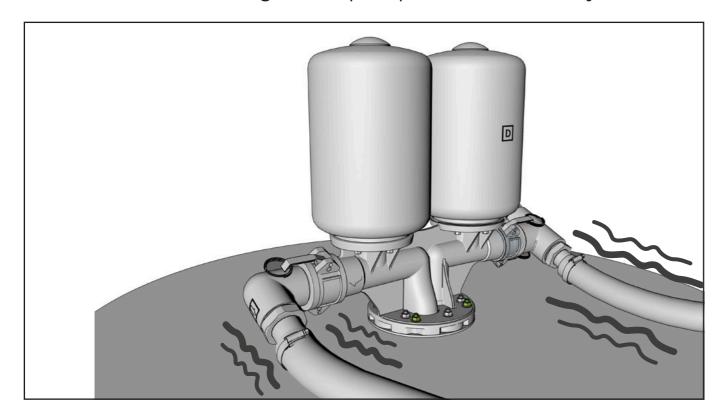
2 Check that the HDPE pipe joints are not leaking.

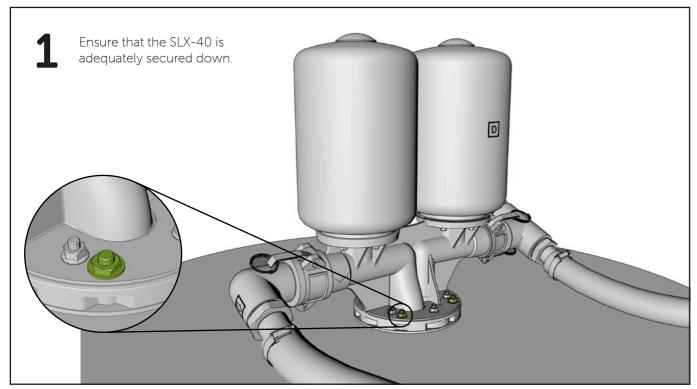


If the above steps have been followed and the problem persists please request further support by visiting www.impactpumps.com/support or by scanning this code:



If the hoses are shaking or the pump sounds unsteady

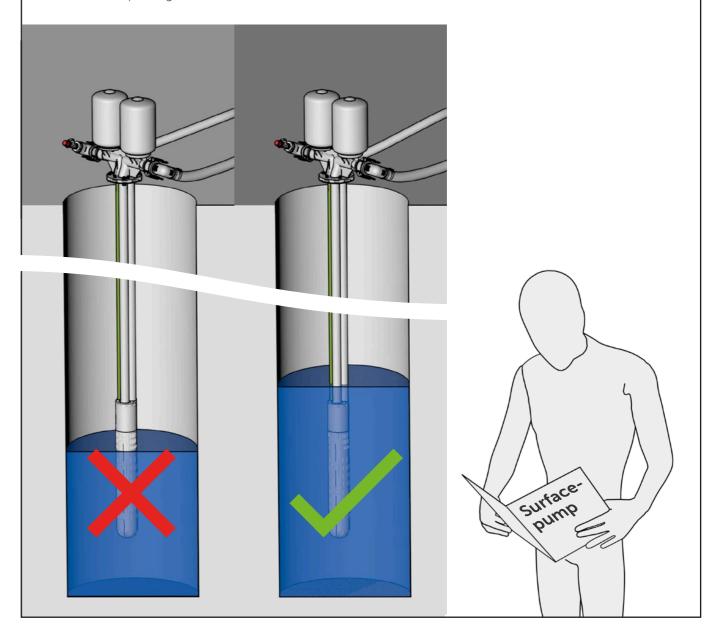




Check the water level in the well is covering all of the SLX-40 well inlet filter.

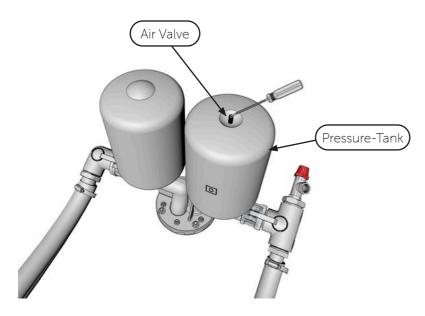
If the level has dropped too low:

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- Stop the surface-pump and allow the well to re-fill.
- Re-start the surface-pump at a reduced flow rate if possible, else, stop it before the well empties again.



If the hoses are shaking or the pump sounds unsteady

Air may have been lost from one of the blue pressure tanks. With the surface pump running, check the pressure tank connected to the smaller hose from the surface-pump by pushing down the pin in the centre of the air-valve as shown.



3.1 If air comes out, or if nothing comes out: Connect a standard tyre pump to this valve and pump in a small amount of air slowly until the shaking stops.

DO NOT PUMP IN TOO MUCH AIR AS THIS MAY CAUSE THE SHAKING TO START AGAIN.



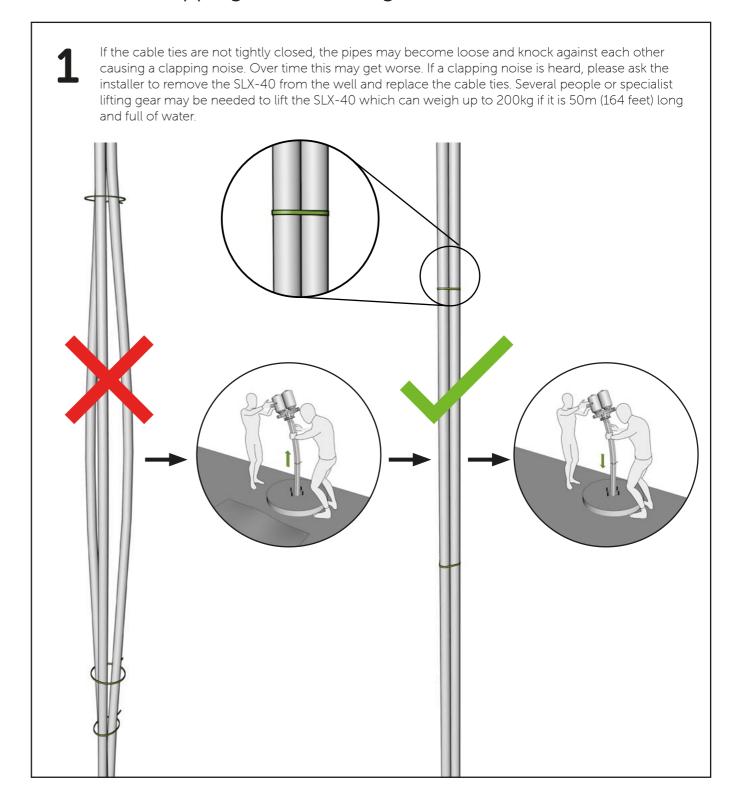
3.2 If water comes out of this valve, please request further support by visiting www.impactpumps.com/support or by scanning this code:



3.3 If steps 3.1 or 3.2 have been completed but the shaking has not stopped, add a few pumps of air to the other pressure tank.

SLX-40 Troubleshooting Guide

If there is a clapping noise coming from the well



TIP: If it is too heavy to lift, the SLX-40 can be made much lighter by blowing air down the 2 HDPE riser-pipes and allowing water to come back up the HDPE down-pipe. To do this, close ALL the valves and disconnect the surface-pump and 1½" hose from the larger hosetail on the well-head (D). Now open only the SLX-40 inlet valve C that is normally connected to the surface-pump outlet, and arrange to blow air into the large 1½" hosetail with an air compressor, or tyre pump. It may take more than 10 minutes of air-pumping for pressure to build up sufficiently to push the water out.

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