

SIPP Node 500

Safe Indication of Petroleum Products

Installation Instructions

English version

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1 Preparations

- Check and classify the pit status in the installation protocol. If the pit is in poor condition, cancel the installation, comment on the installation protocol and notify the customer. NEVER install and commission a unit where cleaning is necessary.
- Check the station: the position of the draining well, the gradient of the ground at the outlet, and the soil absorbency (if no draining well is available).
- The SIPP Node unit must not be in the way of other equipment, the outlet must not create ice patches when it's cold, and pumped out water must not be able to run back to the pit.
- *When in doubt – check station drawings.*
- Make sure the unit will not interfere with other equipment such as a service hatch for transformer, wires or similar.
- Determine whether it is best to mount the unit standing on the rim or sitting on the wall/splinter using the wall mounting plate.

2 Tools

- Concrete hammer drill with 10mm and 5mm drill
- Small spirit level with magnet
- Marker pen
- Hand sledge
- Rubber mallet
- Spanner 15mm
- Spanner 17mm
- Philips screwdriver long bit
- Tubing cutter
- Knife
- Extension cable

3 Consumables

- Metal clips for 8mm and 12mm hose/cable
- Plug 5mm
- Stainless steel screw 4x22mm
- Rubberized ring clamps for 35mm hose
- Cable ties, large and small
- Anchor bolt M10, 70mm

4 Installation

4.1 *Mounting on rim*

- Place the bracket on the rim, mark the holes and then drill a 55 mm deep hole using a 10mm concrete drill.
- Knock in an expansion bolt so that it bottoms and about 15 mm protrudes (let the nut remain in place when the bolt is knocked in).

4.2 *Mounting vertically on rim/splinter*

- Hold the wall bracket at the selected installation height. Mark one of the upper holes using a marker pen.
- Drill 55 mm deep using the 10mm concrete drill and knock in the expander bolt.
- Install the wall bracket provisionally; use the spirit level to mark the remaining holes.
- Drill the three remaining holes; knock in the anchor bolts and install the wall bracket permanently. Check it is level and adjust if necessary with a hammer.
- Fasten the installation pole to the wall bracket.

4.3 *Mounting in wall*

- Install the supplied wall brackets to the cabinet's four corners.
- Drill 55 mm deep using 10mm concrete drill and knock in the expander bolt at the chosen installation height.
- Install the cabinet on a provisional basis, check it is level with the spirit level and mark the remaining holes.
- Drill the remaining holes, knock in the expander bolts and install the cabinet permanently.

4.4 *Mounting the unit*

- Attach the mounting pole into the bracket, use a rubber mallet to fasten the pole properly. Loosely screw the two buttons onto the back of the cabinet, hang the cabinet on the mounting pole and then tighten the buttons firmly.
- Install the hose for dirty water (red) and the air hose (grey). The hoses should be as short as possible and must be directed back into the pit but must not be directed back down into the suction cage. Install using double metal clips side-by-side by drilling 5 mm holes and using plugs; use too many rather than too few.

NOTE!

The hoses must under no circumstances risk being submerged!

- Install the outlet hose (green) with metal clips by drilling 5 mm holes and using plugs. The outlet hose must not be longer than 5 m; if the outlet hose needs to be longer, extend using a 12mm transparent hose. Make sure that water cannot run back into the pit and that the ground around the outlet can accept the water.

NOTE!

Make sure the fall is right for runoff and that a siphon cannot form in the hose. Consider possible burial of drainage pipes or leading the outlet to a draining well.

- Lower the suction hose into the draining well and measure how much it needs to be shortened by holding the hose up against the unit and checking against the fastening point for the hose.
- Pull up the suction hose from the draining well and shorten the outer casing to the required length. Be careful not to cut or damage the hose and the cable inside.
- Install by threading the primer pump cable followed by the suction hose and level sensor hose through the installation point in the unit.
- Cut the suction hose with a hose cutter to the desired length and attach to the main pump.
- Coil the primer pump cable around three fingers to the required length and fasten with two cable ties. Then connect all hoses/cables on the left side of the unit using two cable ties.
- Connect the main power cable to the main power switch.
- Photograph the installation (minimum from the front and tubing installation)
- Clear up all rubbish from the installation.
- The installation is now ready for commissioning.

5 Electrical installation

- The customer is responsible for carrying out the electrical installation.
- The SIPP Node is a permanently installed unit to be supplied with 230VAC and protected with 16A-T or 10A-D.
- The power cable is connected to the unit's main switch. Light on indicates voltage to the switch. To turn on the power to the device turn the switch from 0 to 1.

6 Commissioning

For commissioning, use the template *Installation protocol for the SIPP Node*.

- **Check the placement and installation of the unit**
- **Configure and complete documentation in the IA Warehouse**
- **Verify and document all points in accordance with the installation protocol deployment phase by means of the service interface.**

7 Documentation

The documentation, including installation protocol and photographs, should be filed. Information about the installation should be shared with the customer. The installation protocol should be signed and sent to the customer for approval.