

## **Cistern pumps**

### **Pumping water from great depths**

Our submersible pressure pumps have been specially designed for pumping water from great depths – which can be well over 50 metres, depending on the model. Typical applications of these very powerful pumps include watering with water from wells or cisterns and sprinkler operation.

Some water resources lie too deep to be usable with conventional pumps. For example, the suction head of surface pumps – garden pumps, automatic domestic water systems and domestic waterworks – as a rule does not exceed nine metres. This means that the height difference between the surface of the pumped liquid and the pump drawing it cannot be over nine metres. This suction head is enough to allow surface pumps to be used for typical practical applications effectively and without any problem. Pumping water from greater depths however requires the capacities of submersible pressure pumps such as deep well pumps and cistern pumps.

### **Normal pumps soon show their limitations at great depths**

For both clear water and dirty water submersible pumps, the usual maximum possible static head is 10 metres. Submersible pumps are installed in water for pumping liquid upwards. Here static head refers to the height difference between the surface of the pumped liquid and the water outlet. If, for example, water is pumped from a well to operate a sprinkler, the static head is equal to the height difference between the well water surface and the sprinkler. When you need to overcome large height differences, the best choice is a high-powered submersible pressure pump.

### **Submersible pressure pumps with exceptional static head and high maximum pressure**

Our submersible pressure pumps have been specially designed to make water available for use from great depths. These very powerful pumps are lowered into wells, cisterns and similar deep places, and then submerged in liquid. Their exceptional maximum static head and very high maximum pressure ensure that they can pump water from a depth of well over 50 metres, depending on the model. Our top-of-the-range models achieve a maximum pressure of 7.0 bar and feature a maximum static head of 70 metres.

### **High pressure for a broad spectrum of applications**

Liquid drawn by submersible pressure pumps is sent on under high pressure, which is great for running watering systems including sprinklers, domestic use, or effective rinsing of patios or footpaths. Another typical application is direct watering of lawns or garden beds from wells or storage containers.

### **Deep well pumps - specially developed for narrow drilled wells**

Our deep well pumps are highly efficient submersible pressure pumps equipped with high-quality technology and specially designed for use in very narrow drilled wells as little as 10 centimetres in diameter. For pumping water from great depths without any problem, equipment supplied as standard for these pumps includes a long connection cable and a special rope for lowering them into wells, cisterns, drainage shafts and similar deep places. Like all submersible

pressure pumps, deep well pumps give you the option of mobile use, for when they have to be moved from site to site, or stationary installation.

## **The convenience of water from the mains – with automation**

A major advantage of all T.I.P. submersible pressure-, deep well- and cistern pumps is that they can be automated. All models generate the 1.5 bar minimum pressure required for this purpose. Automation means that pumped liquid can be used just like water from the mains – for example by turning taps or other consumers on and off. All you need for this convenient solution is an electronic or mechanical control system; this can be installed quickly and with minimal effort.

The electronic Brio 2000-M electronic control system automatically activates the pump when the tap is opened or a minimum pressure is reached. When water discharge ceases, the pump cuts out. Electronic control systems also provide effective protection from damage due to dry running, as the pump cuts out when there is too little water. Mechanical control systems with pressure switches can be automated using a pressure compensating tank – also called a pressure vessel – together with the power supply. Water discharge activates the power supply, causing the pump to cut in. When a consumer or tap is turned off, the power supply is interrupted and the pump cuts out.

## **Choosing the right cistern pump**

We offer a range of cistern pumps that has been carefully graded with practical use in mind. This allows you to choose a pump that meets your individual requirements down to the smallest details.

## **EJ 6 Plus cistern pump - outstanding pumping technology**

Drinking water from the mains is a precious raw material. This is why people concerned to protect the environment and keep costs down are increasingly using water collected in cisterns or similar containers. However transporting water from cisterns places especially high demands on pumps. The EJ 6 Plus cistern pump is a special pump developed for just this application.

The high-quality materials used in manufacturing this product enable permanent installation in the liquid being pumped and guarantee a very high degree of reliability and functional safety. This is why the pump housing is made entirely from stainless steel. The floating impellers in the hydraulic system are extra-resistant to the corrosive effect of sand. Accessories supplied as standard include a specially developed food-safe suction hose for pumping from cisterns, making this pump suitable for transporting drinking water. The comprehensive package also includes a high-quality brass check valve and an intake filter. The tough nylon rope allows the pump to be easily lowered into a well or cistern and pulled up again as required.

A float ensures that the cistern pump's hose inlet stays at a sufficient distance from the bottom and thus very effectively prevents sand and other particles on the bottom from being sucked up. The EJ 6 Plus cistern pump features outstanding quality and exceptionally high performance, making it ideal for automatic water supply.

*T.I.P. cistern pumps are not suitable for pumping salt water or flammable, corrosive, explosive or other hazardous liquids.*







