



DURATANK[®] DOUBLE-SKIN FLEXIBLE WATER TANKS

Flexible Water Tanks

A flexible water tank is a cost-effective method of providing water storage. Well-designed flexible tanks are tough and durable, offering many years of reliable life. Key features of reliable tanks are high quality materials and fittings, heavily reinforced fitting locations and individual pre-delivery test and inspection. A flexible tank offers the ideal solution for the owner who needs to retrofit or replace an existing tank, particularly if the access is difficult. In addition they are significantly lighter than rigid tanks and are corrosion-free.

Double-Skin Construction

This type of design consists of a tough load-bearing cover, which takes all the stresses imposed by water, especially if the tank is overfilled or the vessel is operated in heavy seas. Generally, this outer cover is assembled using double-row heavy duty stitching. The highly flexible inner skin, which is designed to be slightly oversize, provides the waterproof liner to the tank. The standard construction tank has a nylon weave liner which is polyurethane skinned. The heavy-duty tank employs a highly elastic 1mm thick un-reinforced polyurethane liner.



Pillow Tanks

These are the simplest form of double-skinned tank where the tank panels are flat with no shaping. When empty and flat, the tank is designed to be larger in length and width than the intended space. As the tank is filled and the flexible material is drawn into a three-dimensional shape, the length and width reduce. While the pillow tank is the most cost effective tank for

a given capacity, maximum use of available space is achieved with a fully shaped tank.

Shaped Flexible Tanks

Shaped tanks allow the absolute maximum capacity within a given space unlike rigid tanks or pillow tanks. The same double-skin arrangement as used on pillow tanks is used on shaped tanks, with the same option of standard or heavy-duty construction.



Custom Manufacture

The tanks are made to the customer's requirements and dimensions. They are supplied with fittings (for inlet, outlet, vents etc.) already installed. These are generally designed to take flexible hose, although threaded fittings can be supplied if required. Customers can specify the location of the fittings to suit the application. Fittings are available in straight or elbow configuration allowing a variety of installation schemes.

Flexible tanks are made to the customer's specification. We recommend that you discuss your application with us to allow you to make best use of the tank and to make the installation straightforward.