

Potable Stainless Steel Expansion Vessel

Description:

Size: 24 Ltr

- Maximum working temperature: 70 °C
- Maximum operating temperatures: -10/+99 °C
- Maximum working pressure 10 bar
- Tested pressure 15 bar
- For use in aggressive water conditions
- Dimensions 270 x 480
- Water Connection 1"
- High resistant rubber bladder
- Flange: Stainless Steel
- Membrane: Butyl
- Shell: Stainless Steel



Horizontal dimension: D 270mm H 290mm L 485

Vertical dimension: D 270mm, H 485

Precharge 1.5 Bar

ULTRA-INOX PRO: The expansion tanks in this line are entirely made of stainless steel. They are especially used for systems that produce sanitary hot water produced by a boiler or from plate heat exchangers. They are excellent choices for situations that require high hygienic standards and a product life time that is practically limitless. The membrane is absolutely non-toxic and is drinking and food grade. This range of tanks, is also for their reduced volumes, are particularly useful for anti-water hammer effect in water systems, preventing vibrations or noises. They can also be used with reduced flow pumps.

Advantages

The membrane pressure tank's usable capacity is much superior that that of a normal tank. Therefore, less footprint at equal water yield, minimum pump starts and saving in energy consumption. The tank is supplied already tested and certified in the factory according the European directive 97/23/EC. Maximum duration of the membrane is assured as the membrane itself cannot bend or rub against the plate, it is fixed to both the ends of the tank. Thus the tank duration is practically unlimited as the membrane can be replaced.

Technical features

The use of stainless steel and membrane which is suitable even for elementary purposes, as for cold water or hot water with temperatures up to 70 °C, are the main features of this expansion vessel. This stainless steel expansion vessel is equipped with an absolutely non-toxic membrane suitable for the contact with drinking water according to Bristish WRAS/WRC and French ACS regulations.

Working

When the pump starts, water enters the membrane tank as system pressure passes the pressure precharge using the available capacity of the tank (only useable water is stores). When the pressure in the chamber reaches the maximum system pressure, the pump stops working and the tank is filled to its maximum capacity. Pressure in the air side of the tank will push water into the system when there is a further requirement. The tank does not get logged with water and delivers all water possible, minimum pump starts are assured, saving energy and increasing the pump life.

Approvals:-

WRAS/WRC, CE (0036), BSI and French ACS regulations

This tank is used in the following installation cases:

Potable water applications, booster sets, borehole pumps etc, expanded water from hot water cylinders and calorifiers.

The tanks can be set up with a pump unit and pressure switch etc to reduce the number of starts and stops per hour.