potable

INOX-PRO

expansion vessels for potable water

The use of stainless steel and butyl membrane are the main features of this range of expansion vessels. Suitable for potable water (including alimentary purposes) as for cold or hot water with temperatures between -10°C and 90°C

INOX-PRO

expansion vessel for anti-hammer, use in coastal areas and in the presence of brackishness.

capacity: from 0.16 - 18 litres

Advantages

Stainless steel tanks are an excellent choice for situations which require high hygienic standards and a practically limitless product life. The vessels are compact permitting installation in plants producing sanitary hot water using water heaters or heat exchangers. They are also suitable for each type of water-surge plant connected to limited flow pumps.

Technical features

The use of stainless steel with a membrane, which is suitable for alimentary purposes, as for cold and hot water with temperatures between -10°C - 90°C. The range of stainless steel expansion vessels we produce is equipped with a non toxic membrane suitable for contact with drinking water according to the British WRAS/WRc and French ACS regulations. The high quality of materials, efficient manufacturing procedures and continuous quality control these stainless steel expansion vessels allow long lasting operation with little need for special maintenance.

Certification

Technical and dimensional data

Model	Code	Capacity (Ltr)	Ø Diameter	Height	Maximum Pressure	Precharge	Connection
INOX - PRO Z 160	11B000AA00	0.16	82 mm	72 mm	15 bar	3.5 bar	1/4 - 1/2"G inox
INOX - PRO Z 50	11B000BB00	0.5	94 mm	119 mm	10 bar	3.5 bar	1/2"G inox
INOX - PRO Z 100	11B0000100	1	116 mm	155 mm	10 bar	3.5 bar	1/2"G inox
INOX - PRO Z 200	11B0000201	2	140 mm	196 mm	10 bar	3.5 bar	1/2"G inox
INOX - PRO Z 8	11B0000800	8	198 mm	275 mm	10 bar	2.5 bar	3/4"NPT inox
INOX - PRO Z 12	11B0001200	12	270 mm	270 mm	10 bar	2.5 bar	3/4"G inox
INOX - PRO Z 18	11B0001800	18	270 mm	349 mm	10 bar	2.5 bar	1"G inox

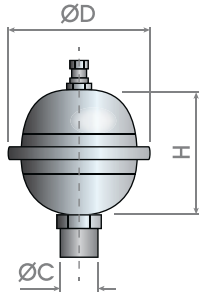
Material description

Description	Material
Shell	Stainless Steel
Membrane	Butyl
Flange	Stainless Steel

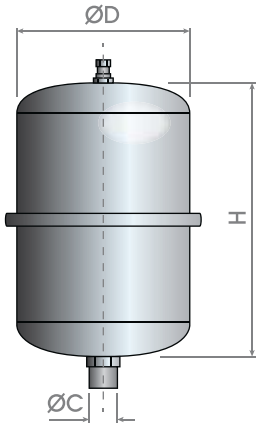
Operating conditions

Maximum working pressure 0.16 litres	15 bar
Maximum working pressure 0.5 - 18 litres	10 bar
Maximum working temperature	70°C
Factory precharge 0.16 - 2 litres	3.5 bar
Factory precharge 8 - 18 litres	2.5 bar

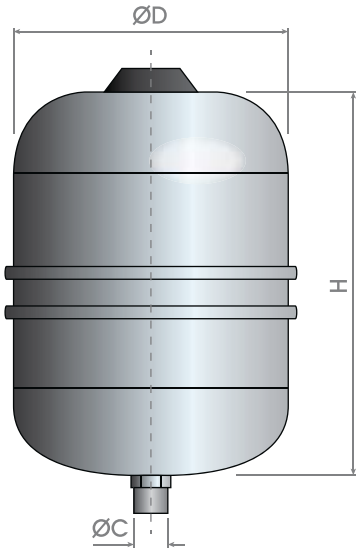
Technical drawings



0.16 Litres

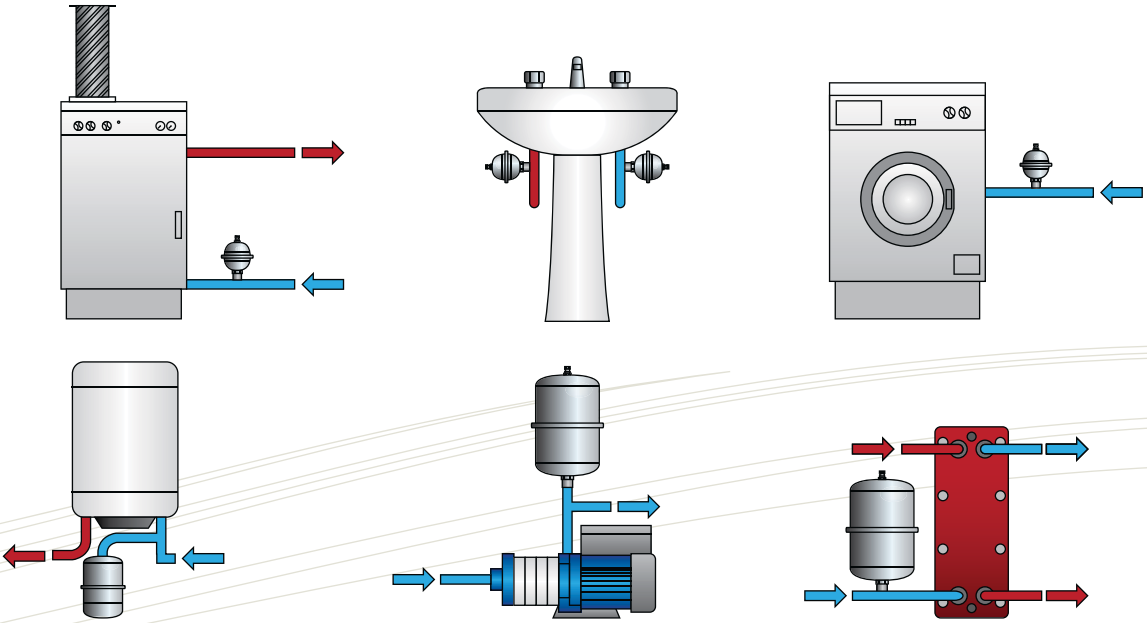


0.5 / 1 / 2 Litres



8 / 12 / 18 Litres

Application diagrams



ULTRA INOX-PRO

expansion vessel for potable water, pumps and booster sets

capacity: from 24 - 100 litres

Advantages

The usable capacity of these membrane pressure tanks is superior to that of a normal tank. Less footprint at equal water yield, minimum pump starts and saving in energy consumption. The wide range (vertical and horizontal) makes Zilmet pressure tanks suitable for many applications. The tank is supplied already tested and certified by our factory according to the European Directive 97/23/EC. Maximum durability of the membrane is assured as the membrane cannot bend or rub against the plate, as it is fixed at both ends of the tank.

Technical features

The use of stainless steel with a membrane suitable for cold water, hot water and alimentary purposes are the main features of this range of vessels.
Our range of stainless steel expansion vessels is equipped with a non toxic membrane suitable for contact with drinking water according to the British WRAS/WRc and French ACS regulations. The high quality of materials, efficient manufacturing procedures and continuous quality control, these stainless steel expansion vessels allow long lasting operation with minimal special maintenance.

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 stored). 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 ULTRA INOX-PRO tank does not get logged with water and delivers all water possible, minimum pump starts are assured, saving energy and increasing the pump life.

Certification

Technical and dimensional data

Vertical vessels								
Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Maximum Pressure	Precharge	Connection
ULTRA PRO-INOX 24 V	1110002403	24	270 mm	485 mm	-	10 bar	1.5 bar	3/4″ - 1″G
ULTRA PRO-INOX 60 V	1110006002	60	380 mm	860 mm	170 mm	10 bar	1.5 bar	1″G
ULTRA PRO-INOX 100 V	1110010002	100	450 mm	910 mm	153 mm	10 bar	1.5 bar	1″G

Horizontal vessels								
Model	Code	Capacity (Ltr)	Ø Diameter	Height	L	Maximum Pressure	Precharge	Connection
ULTRA PRO-INOX 24 H	1110002402	24	270 mm	290 mm	485 mm	10 bar	1.5 bar	3/4″ - 1″G
ULTRA PRO-INOX 60 H	1110006003	60	380 mm	410 mm	640 mm	10 bar	1.5 bar	1″G
ULTRA PRO-INOX 100 H	1110010003	100	450 mm	480 mm	730 mm	10 bar	1.5 bar	1″G

Material description

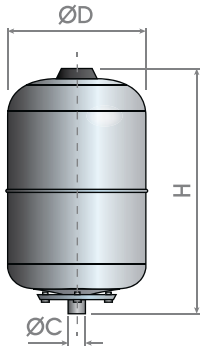
Description	Material
Shell	Stainless Steel
Membrane	Butyl*
Flange	Stainless Steel

* Replacement membrane for alimentary purposes

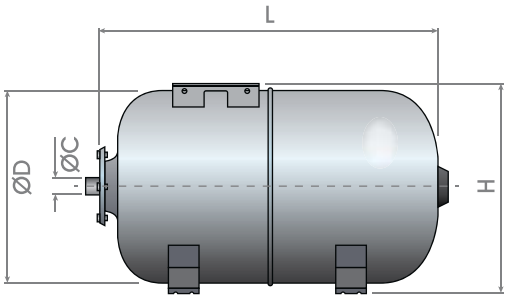
Operating conditions

Maximum working pressure	10 bar
Maximum working temperature	70°C
Factory precharge	1.5 bar

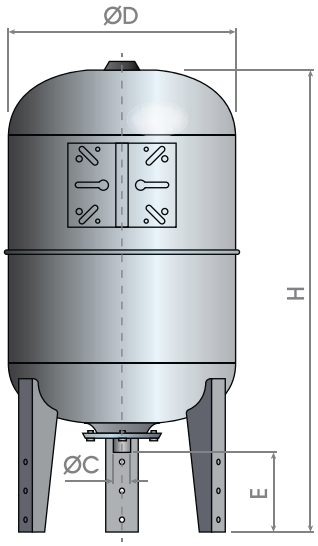
Technical drawings



24 Litres



100 Litres
Horizontal



60 - 100 Litres