

Vertical and Horizontal Pressure Vessels



Interchangeable membrane pressure tanks. Membranes suitable for drinking water and can be installed to any type of pump. WRc approved and built to 97/23/EC



Installation

The vessel is supplied pre-charged with air, but this pressure may require adjustment to suit the site conditions. This adjustment must be made with the vessel isolated from the system, and before filling with water. Air may be vented from, or pumped into, a Schraeder valve which will be found under a black plastic screw-off cover on the shell (sizes up to and including 500 litre) or on a side mounted flange (750 and larger).

It will be noted that vessels of 60 litre capacity or larger are manufactured with connections at either end of the vessel shell. The vessel should be mounted so that the system connection is made at the lowest possible point, to facilitate on-site maintenance. The other connection may be fitted either with a air bleed valve, or alternatively with a blanking plug.

All pressure vessels should be installed with an isolating valve and drain cock.

Introduction

The pressure vessel is designed to provide a storage facility and pressure reservoir for water at temperatures up to 99°C. Common uses are in water booster sets, heating pressurisation and fill sets.

The vessel incorporates a replaceable Butyl diaphragm mounted in a mild steel shell. This method of construction eliminates any contact between the stored water and the steel shell of the vessel, and is therefore suitable for use with potable water.

All units up to and including 25 litre sizes are suitable for a working pressure of 8 bar, larger vessels 10 bar, (except 1000LV).

Periodic Maintenance

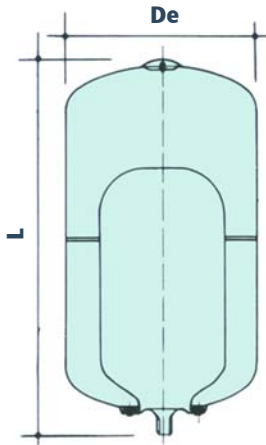
The only maintenance required on this equipment is a periodic check on the air cushion pressure. It is necessary to isolate the vessel from the system, and to drain all water from the tank before making this measurement with a standard tyre pressure gauge from the Schraeder valve.

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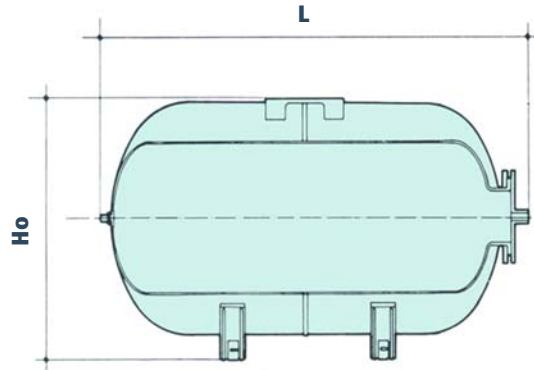


Vessel Dimensions

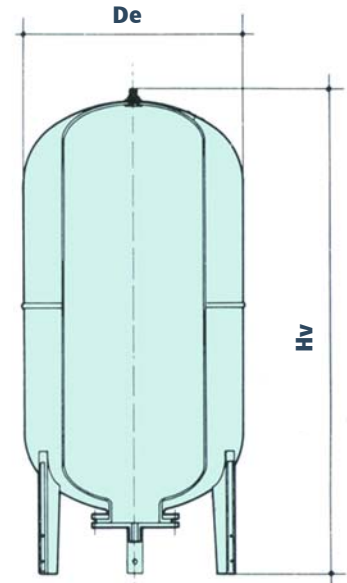
Fixed Diaphragm Series



Horizontal Interchangeable Diaphragm Series



Vertical Interchangeable Diaphragm Series



Pressure vessels are available in a range of sizes from 5 L. The vertical series have a control panel mounting bracket. All vessels incorporate a replaceable rubber membrane which are suitable for temperatures from 0 to 99°C.

| Model | Capacity in litres | Connection Size | Maximum Pressure Bar | De mm | Hv mm | Ho mm | L mm |
|-------------|--------------------|-----------------|----------------------|-------|-------|-------|------|
| 5 LV | 5 | 3/4" | 10 | 160 | - | - | 316 |
| 8 LV | 8 | 3/4" | 10 | 200 | - | - | 321 |
| 18 LV | 18 | 3/4"G | 10 | 274 | - | - | 379 |
| 24 LH | 24 | 1"G | 10* | 270 | - | - | 480 |
| 60 LH/LV | 60 | 1"G | 10 | 380 | 860 | 415 | 680 |
| 80 LH/LV | 80 | 1"G | 10 | 450 | 800 | 415 | 720 |
| 100 LH/LV | 100 | 1"G | 10* | 450 | 960 | 488 | 781 |
| 200 LH/LV | 200 | 1 1/2"G | 10* | 550 | 1280 | 555 | 1079 |
| 300 LH/LV | 300 | 1 1/2"G | 10* | 630 | 1430 | 625 | 1237 |
| 500 LV | 500 | 1 1/2"G | 10* | 750 | 1610 | - | - |
| 750 LV | 750 | 1 1/2"G | 10 | 750 | 2267 | - | - |
| 1000 LV | 1000 | 1 1/2"G | 8 | 850 | 2100 | - | - |
| AEF 1500 LV | 1500 | 2 1/2"G | 10 | 1000 | 2130 | - | - |
| AEF 2000 LV | 2000 | DN 65 | 10 | 1100 | 2550 | - | - |
| AEF 2500 LV | 2500 | DN 65 | 10 | 1100 | 2850 | - | - |
| AEF 3000 LV | 3000 | DN 65 | 10 | 1250 | 2930 | - | - |
| AEF 3500 LV | 3500 | DN 65 | 10 | 1350 | 2970 | - | - |
| AEF 4000 LV | 4000 | DN 65 | 10 | 1450 | 3050 | - | - |
| AEF 5000 LV | 5000 | DN 65 | 10 | 1450 | 3780 | - | - |

* 16 bar vessels available from stock. 24 LH/LV; 100, 200, 300, 500 LV only.



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