

Installation & Maintenance

Bladder Type Expansion Vessels.

Abbott & Co. (Newark) Ltd.,
Newark Boiler Works
Northern Road, Newark,
Notts. NG24 2EJ.

Tel: +44 (0) 1636 704208
Fax: +44 (0) 1636 705742
E-mail: sales@air-receivers.co.uk

Design/Construction

The design/construction of the vessel is covered by British, European OR International Standard, details of which are on the vessel data plate permanently affixed to each vessel.

Examination

Each vessel is examined and hydraulically tested in accordance with the Design/Construction Standard, shown on the vessel data plate. Test certificates are issued for each vessel. **NOTE** ó the vessel data plate showing the vessel serial number, Design , Construction and test details must not be removed for any reason.

Installation

The vessel must be mounted on the feet provided and securely bolted down using the baseplate bolt holes provided. We recommend pipework design allows for the simple isolation and drain down of the vessel for routine maintenance/bladder replacement.

Operation

The vessel air charge is applied via the Schrader Valve provided, an initial Air Charge of 3.0 BAR (43 PSI) should be applied, water is introduced into the bladder via the Bottom System Connection to raise the Air Charge Pressure 0.5 BAR to 3.5 BAR (51 PSI). The Water Inlet Valve is then closed and the Air Charge Pressure raised to the desired pressure. When the desired Air Charge Pressure has been reached the Water Inlet can be opened and the vessel put into operation, provided that doing so will maintain water in the bottom of the bladder. **IMPORTANT** – The bladder can fail if there is no water at the bottom of the bladder, when there is an air charge above 3.0 BAR G.

Maintenance:-

Vessel

After applying the desired Air Charge, check for air leaks around all clamping points, Schrader Valve and Screwed Connections in the vessel. The Air Charge should be checked at regular intervals to ensure efficient operation of the vessel.

Relief Valve

When a Relief Valve is supplied it should be fitted in the vertical position in the screwed connection provided.

Pressure Gauge

When a Pressure Gauge is supplied it should be fitted in the screwed connection provided and should be clearly visible.

Bladder Removal

If the bladder has to be removed for any reason such as internal inspection of the vessel it is important that the Air and Water pressure is reduced simultaneously. If there is a sudden loss of water pressure this could cause the bladder to fail. When re-fitting the bladder it is important that the bladder is not installed twisted. It must hang completely straight in the vessel, any twist in the bladder could cause the bladder to fail.

N.B. Installation, maintenance and operation of Expansion Vessels should only be performed by suitably qualified engineers.