 <p>17 Rue PAUL BERT 93459 MOISSINNES Tel : 03.86.02.33.84 Fax : 03.86.02.90.01 E-mail : reservoires@charlatte-reservoirs.fayat.com Site : www.charlatte.fr</p>	TECHNICAL SPECIFICATION	Quality Assurance
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	Stainless steel magnetic Level gauge	SPT 0270-01-GB
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1/ Method of operation

The stainless steel magnetic level gauge enables the verification of the level of air and water in hydropneumatic bladder vessels during periodic maintenance (3 to 4 times a year), and to ensure correct operation.

The level of liquid in the vessel is indicated on the level gauge.

The movement of the liquid is transmitted to the indicator by a magnet contained in the float.

The change of colour between the red and white flaps indicates the level of water and the volume of air inside the vessel.

Standard gauges are for use in systems up to 40 bars.

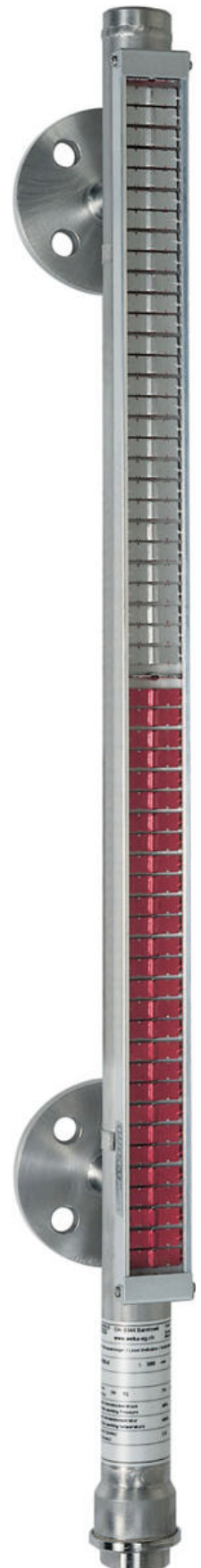
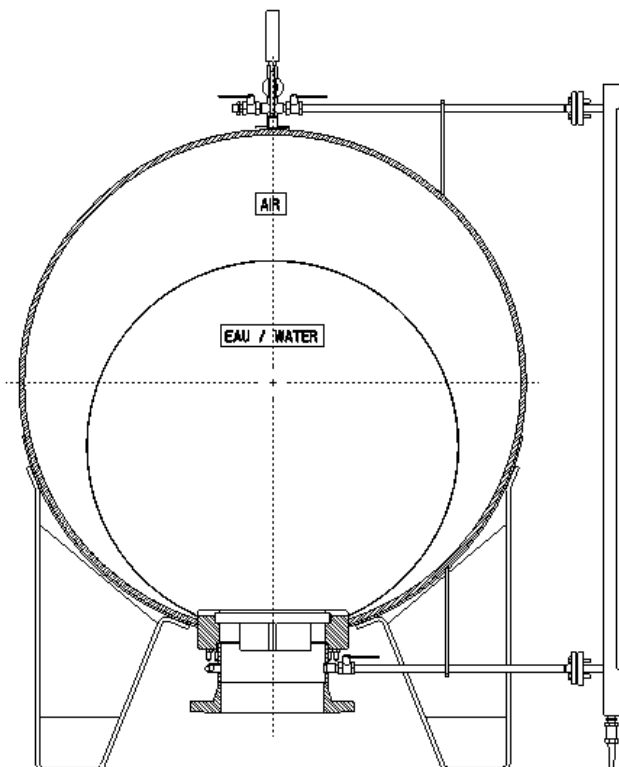
Important:


During normal operation the isolation valves on the upper and lower level gauge arms must remain closed.

The maximum operational values for temperature and pressure are indicated on the manufacturer's plate on the level gauge, and must be respected.

To carry out a verification of the levels in the vessel proceed as follows:

- First open the isolation valve on the upper level gauge arm to allow the entry of pressurised air into the level gauge.
- Next open the isolation valve on the lower level gauge arm to allow the liquid into the level gauge allowing the verification of the level inside the vessel shown on the level indicator.
- After verification, close both isolation valves and drain the tube using the drain valve on the bottom of the tube.



 <p>17 Rue PAUL BERT 89400 MIGENNES Tel : 03.86.92.30.04 Fax : 03.86.92.30.01 E-mail : reservoir@charlatte-reservoirs.fr Site : www.charlatte.fr</p>	TECHNICAL SPECIFICATION	Quality Assurance
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2/ Assembly Instructions.

VERY IMPORTANT : ALL SEALS MUST BE CARRIED OUT USING EITHER TEFLON LIQUID OR LOCTITE

- 1 - Remove 1/2" plug on the top of the vessel
 - 2 – Install the cross (for vertical vessels) equipped with the pressure gauge
 - 3 – Install the upper 1/2" isolation valve
 - 4 – Fit the 1/2" upper level arm
 - 5 – Install the lower 1/2" isolation valve on the outlet
 - 6 – Fit the 1/2" lower level arm
 - 7 – Align the flange faces
 - 8 – Mounting of the level gauge tube (drain valve to the bottom)
- For transport, the float is packed in cardboard and attached to the bottom of the level gauge.**
- Take the floater out of its packing carefully.
- 9- Insert the floater via the flange at the bottom of the level gauge tube
 - 10- Close the isolation valves on the upper and lower level gauge arms before proceeding with commissioning.
 - 11- Carry out the precharge of the vessel (air or nitrogen, precharge value calculated by the hydraulic analysis) as per our notice SPT-0211.
 - 12- Open the 1/2" valve on the upper level gauge arm to pressurise with air
 - 13- Check all the connections are airtight
 - 14- Fill the vessel by gradually opening the isolation valve between the vessel and the system until the vessel is at static pressure
 - 15- Open the 1/2" valve on the lower level gauge arm in order to see the level of water in the vessel on the level indicator
 - 16- Re check air tightness at static and dynamic pressure
 - 17- Close the isolations valves on the upper and lower level gauge arms and drain the tube using the drain valve on the bottom.

**During normal operation of the system, the isolation valves of the level gauge must remain closed to avoid water entering into the vessel between the bladder and the shell of the vessel.
If for any reason the float has to be removed, ensure that the level gauge is isolated and not under pressure.**

For others information please do not hesitate to contact us.

CHARLATTE RESERVOIRS 17, Rue Paul Bert
89400 MIGENNES Tél. : 03 86 92 30 12 Fax 03 86 92 30 01