



For over 60 years, **CHARLATTE** has been the world leader in hydropneumatic vessels.

The major part of the manufacture is comprised of pressure vessels, with and without, bladder for drinking water, raw water, waste water and irrigation.

CHARLATTE can also design special vessels for specific orders. CHARLATTE is present in over 80 countries and 5 continents, export represents over 65% of sales.

An experienced after sales service and on site assistance from technicians completes our large range of products and expertise.



KNOWHOW EXPERIENCE

CHARLATTE hydraulic engineers equipped with advanced calculation software, offer our clients the adapted solutions to protect their systems and pipework.

An optimised dimensioning of the required protection is necessary to ensure optimal operation. CHARLATTE controls its products from conception and offers its clients specialised solutions.

HYDRAULIC ANALYSIS

CHARLATTE RESERVOIRS has an in house hydraulic department both at FRANCE and in the USA.

CHARLATTE hydraulic engineers offer a service of hydraulic analysis to define the optimum protection for your system. We are able to work with a number of well known software packages such as,

CEBELMAIL



Bentley
Sustaining Infrastructure



KYPIPE
PIPE 2016

Hytran



Water Hammer Software

TECHNOLOGY DESIGN & MANUFACTURING

CHARLATTE's production and handling capacity allows the manufacture of vessels of over 100 m³ and a maximum weight of 63 tons.

Our acquired knowledge of different manufacturing codes covers the new standards required for potable water. All elements of our vessels in contact with water are certified potable (Paint, Rilsan, Butyl bladder).

COMMISSIONING & AFTER SALES

Charlotte Reservoirs do not just supply vessels, but are available to assist our clients with the commissioning of the vessels, wherever you are in the world, either using their own technicians or fully company trained personnel.



SURGE VESSEL FOR POTABLE WATER

Characteristics of bladder type surge vessel for clear water (liquid inside the bladder)

The surge protection will be provided by a butyl bladder type surge vessel in accordance with pressure vessel equipment regulation DESP 2014/68/UE. Energy of the surge vessel will be ensured by its precharge (air or nitrogen).

The surge vessel can be manufactured in vertical or horizontal position consists of :

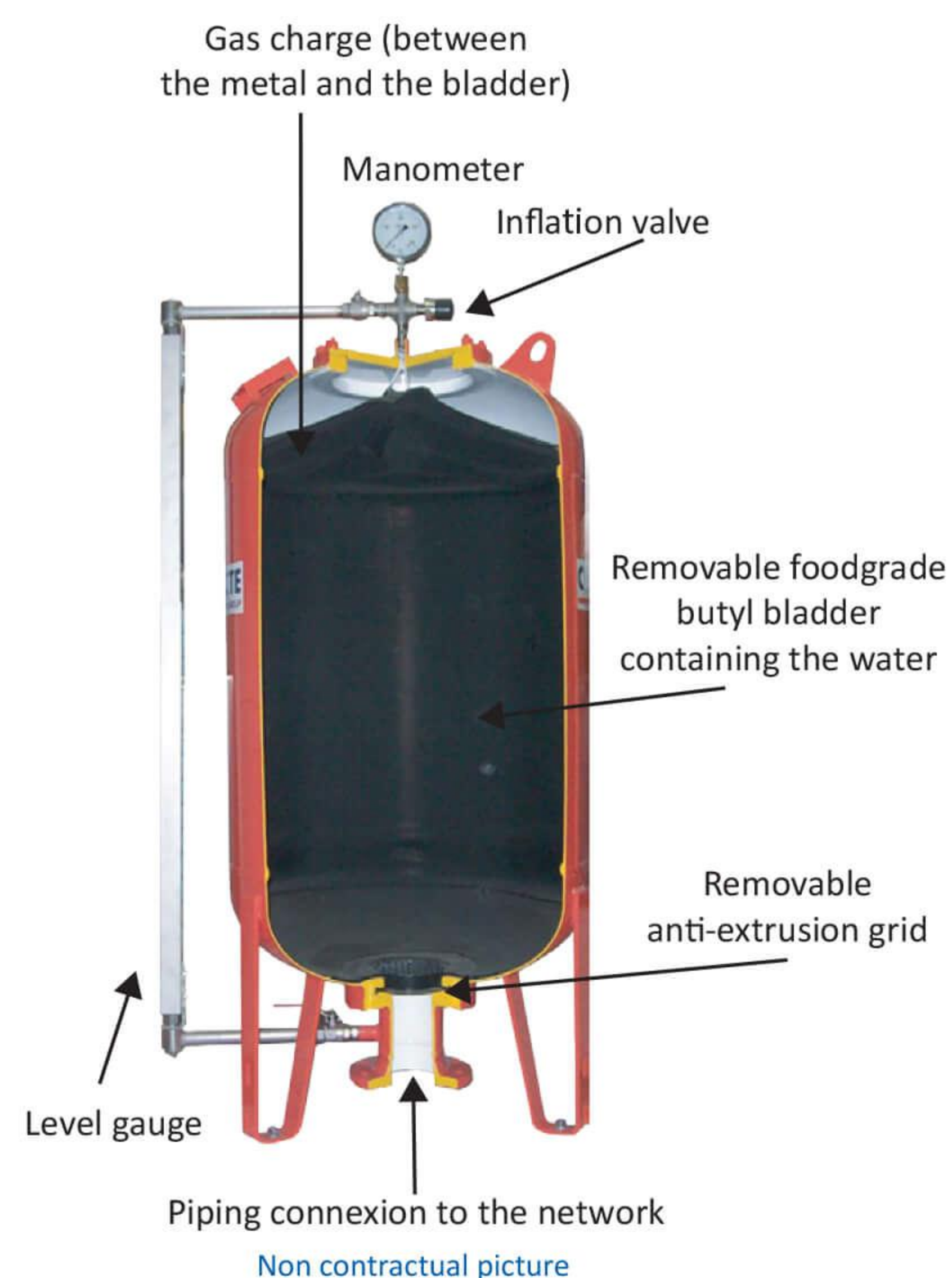
- Two end caps welded on a steel shell.
- A water outlet of sufficient DN and equipped with an anti-extrusion grid connected to the force main.
- At least three legs to fix it to the floor.
- A bladder in food grade butyl manufactured to the vessel size.
- An inspection access allowing maintenance (regulatory inspection, dismantling of bladder for periodic requalification etc.)
- Lifting lugs and a manufacturer plate.

Coating :

- External coating suitable for ambient environment with a paint finish of 50 to 350 μ depending on standard or non-standard request.
- Internal epoxy coating with a thickness of 50 to 350 μ depending on standard or non-standard request.

Options available:

- A level gauge is required to check the water level inside the vessel (a glass tube, magnetic level gauge, differential pressure transmitter).
- If hydraulically required to create an additional dissymmetric head loss during transient reverse inflow into the vessel, a non-return valve with adjustable integrated shunt or double gate specially drilled will be added on the outlet.
- Others options on request.





CHARLATTE Installations - INDIA

CHARLATTE RESERVOIRS Present in India since 2005, supplied more than 50 vessels across India for various water supply projects through EPC Contractors. Following are the major end clients,



KARNATAKA NEERAVARI NIGAM LTD.,



KARNATAKA URBAN WATER SUPPLY
AND DRAINAGE BOARD



MAHARASHTRA INDUSTRIAL
DEVELOPMENT CORPORATION



MAHARASHTRA JEEVAN PRADHIKARAN



I & CAD, GOVERNMENT OF TELANGANA



VIDARBHA IRRIGATION DEPARTMENT

TECHNOMATICS engineers are available for all your requirements - Surge analysis, Engineering, Approvals, CHARLATTE Manufacturing, Inspection, Supply, Installation and Commissioning of Bladder type Surge vessel system.

Technomatics
In the business of Fluid Flow Engineering - Since 1992
AUTHORISED DISTRIBUTOR FOR INDIA

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